

Introduction to ‘Cahiers de Phaséologie’ – section *Rugosi* Freytag.

D.G. Debouck
Genetic Resources Program
International Center for Tropical Agriculture (CIAT)
AA 6713 Cali COLOMBIA; d.debouck@cgiar.org

You look for/ Usted busca/ Vous cherchez:

<i>P. angustissimus</i>	Page 12
<i>P. carteri</i>	Page 70
<i>P. filiformis</i>	Page 71

EXPLANATORY NOTE

Purpose:

When finalizing with George F. Freytag the manuscript of the monograph (Freytag, G.F. & D.G. Debouck. 2002. Taxonomy, distribution, and ecology of the genus *Phaseolus* (Leguminosae-Papilionoideae) in North America, Mexico and Central America. SIDA Bot. Misc. 23: 1-300), it was mutually agreed with the Editor of the Botanical Research Institute of Texas that the monograph should not exceed 300 pages. We had a lot of specimens that the two of us had seen and annotated together in Mayagüez, or separately. We agreed with the Editor that at least an identification list should be in the monograph (pages 291-294), so Curators of Herbaria would have identifications for the specimens they kindly allowed us to see. Since 2002 more Herbaria have been visited (see full list at the end of this explanatory note) by myself and more specimens have been annotated. Obviously few journals would accept the publication of these records in full. The publication of these ‘note books of phaseology’ on the web site of the genebank of CIAT where the largest collection of beans is currently maintained, was one way to put that information available to the public. This file is periodically updated as more visits to Herbaria increase the number of specimens of species belonging to this section.

Content and organization of the specimens:

The list of specimens seen by the author in the Herbaria is organized by section of the genus *Phaseolus* as recognized in the monograph (op. cit.). The reason for this organization of the data is a practical one, given the numbers of specimens seen, especially for the sections including the common bean (i.e. the *Phaseoli*) or the Lima bean (i.e. the *Paniculati*). In order to provide an updated information to the users, the date of the document (at the end of the file) is the one when the data of any specimen within that section have been uploaded after the last visit to any Herbarium. Immediately behind the title is the list of Herbaria and Museums of Natural History which keep specimens of that section in their collections; such Herbaria/ Museums are listed alphabetically along the acronyms of ‘*Index Herbariorum*’. Within each section, the information is presented for each currently valid species, and in alphabetical order of the species of this section. For each species the presentation follows the alphabetical order of the countries where the species thrives naturally (the note book refers to the wild bean species/ wild forms only, not to the beans grown anywhere on purpose by people, nor to escapes from cultivation). For each country, the alphabetical order of currently acknowledged departments/ provinces/ states is followed. Within each department/ province/ state the specimens are presented by alphabetical order of names of collectors, the first family name coming first when applicable. If there are many specimens by the same collector(s), the lowest collecting numbers will come first; the specimens without collection

number will precede. When there are many specimens with the same collecting number, the alphabetical order of the Herbaria keeping these specimens is followed. The specimens used as types (with indications in red and in bold face about the kind of types) immediately follow the introduction of the species name. There are two reasons for this: for the taxonomist the type contributes to the validation of the species, and if a user looks for the type(s) it will be faster to look for it (them) at a specific location in the files throughout the sections rather than to look for it (them) by geographical area. Logically the holotype comes first. The types of species put in synonymy will logically follow, in alphabetical order of the names of these species, unless they were not validly published, and in this case these specimens will be in the general list (as Curators of Herbaria usually proceed). In a few cases, the type specimens are followed by specimens for which there is no geographical information. In cases where only the country has been indicated, then the specimens will be at the top of the list before the first department/ province/ state listed alphabetically.

Presentation of the data:

All notes found on the voucher specimen on the day of visit are taken in the way they have been written (trying to respect the original text to the extent possible), and written down along a time sequence starting with the oldest annotation (sometimes deciding which is the oldest annotation is an educated guess, but color of labels and inks and kinds of typewriters or printers help). For easy reference, the information starts with the number of the voucher with the acronym of the Herbarium visited when applicable. Please note that some Herbaria have not numbered their voucher specimens. In this case there might be only a stamp indicating where the specimen is currently kept. Each piece of information found on a label or written directly on the cardboard is separated from the next one by a slash sign repeated three times (///). Please note that a stamp might be included in the sequence of information, since it can provide useful information about the date of a specimen if this date is not indicated in the main label. The most recent labels in the sequence usually refer to the identification of the specimen by taxonomists and are presented in chronological order, the earliest identification coming first. The sequence of sets of data finishes with the author's identification (introduced by author's initials), with a few notes about the specimen. In the notes, attention is drawn on the size/ richness of the specimens, usually through the number of racemes. In view of possible future collecting (e.g. matching with the date of collection), there is an indication about the phenology, whether the specimen was seen with flowers and/ or young/ green/ dry pods and/ or seeds. The notes end with the acronym of the visited Herbarium and the date (as day/ month/ year) when the specimen was studied (that date can be validated by consulting the records of visitors of each Herbarium); so the reader knows where that specimen can be studied or asked on loan for study. A specimen might have been seen on two visits, and thus two dates will be indicated in chronological order. The indication [x2] or [x3] means that the specimen exists as two or three sheets; if there is anything noteworthy, then the second or third sheet will be treated as another specimen. Usually the data provided refer to the voucher with more useful plant parts.

Because the coordinates could be critical for studies in phytogeography or in evaluation against abiotic stresses, if the coordinates were given on the (main) label, they are reported directly. If there are none and if the location is precise enough, an estimate is provided, usually for the first collecting number; because it is an indirect data provided by the author, it will be written down in square brackets []. Similarly, given its importance in order to see the material one more time in its original habitat, if provided in abbreviated form or numerical form that could lead to confusion, the date might be reconfirmed in square brackets (in format day/ month/ year), usually for the first collecting number. This confirmation is often possible because the author has explored the same area for the

same species. Other notes such as appreciation/ interpretation of anything relevant on the labels will appear also in square brackets, so that the reader understands that this is not an original data. In some cases it was felt necessary to add [col.] to indicate clearly the name of the collector; similarly [det.] was added to indicate clearly the name of the taxonomist identifying the specimen. If both indications are without square brackets, it means that they were written as such on the label(s). Sometimes critical information, for example the name of the species or the collecting number might be missing and the author has seen a void space; this situation is reflected in the notes by [blanc] 'void' or without number [s.n.].

For easy reference only and tracking, the name of the state/ department/ province will appear green (the black font of the original name has been turned green), and the name of the (main) collector and his/ her collecting number will appear blue (the black font of the original name has been turned blue). Note that the original black font can be reversed easily, so the user sees the original data as they were on the label(s). Similarly, all back slash signs could be eliminated to restore the original information found on the label(s).

One should keep in mind that the author deals with specimens as individual cases and single sets of data, and on every visit as a novel case. This explains why specimens by the same collector(s) with the same collecting number are repeated in the list. The opinion of other taxonomists on the studied specimen is theirs, and the way Curators mounted plant parts and presented the labels is theirs too. That stated, the reader will notice some interesting convergences (or discrepancies) in the works of these different professionals.

Notes on this Section:

The reader will find the specimens seen by the author in alphabetical order of the species: *P. angustissimus*, *P. carteri*, and *P. filiformis*. These three species have been validated in the work by Delgado-Salinas et al. 2006 in Syst. Bot. 31 (4): 779-791). This section seems remotely related to the common bean section (see T.G. Porch, J.S. Beaver, D.G. Debouck, S. Jackson, J.D. Kelly & H. Dempewolf. 2013. Use of wild relatives and closely related species to adapt common bean to climate change. Agronomy 3: 433-461). The section seems to be restricted to arid North America and the Gulf of California, with two species of wide distribution (i.e. *P. angustissimus*, *P. filiformis*) and one endemic (i.e. *P. carteri*). There are no domesticated species in this section, and the species are vulnerable to human disturbance.

Introducción a los ‘Cahiers de Phaséologie’ – sección *Rugosi* Freytag.

D.G. Debouck

Programa de Recursos Genéticos
Centro Internacional de Agricultura Tropical (CIAT)
AA 6713 Cali COLOMBIA; d.debouck@cgiar.org

NOTA ACLARATORIA

Propósito:

Mientras con el Dr. George F. Freytag estábamos finalizando la monografía (Freytag, G.F. & D.G. Debouck. 2002. Taxonomy, distribution, and ecology of the genus *Phaseolus* (Leguminosae-Papilionoideae) in North America, Mexico and Central America. SIDA Bot. Misc. 23: 1-300), se acordó mutuamente con el Editor del Botanical Research Institute of Texas que el texto final no debería sobrepasar el límite de 300 páginas. Teníamos muchos especímenes que habíamos examinado y anotado conjuntamente en Mayagüez, o de manera independiente. Acordamos con el Editor que por lo menos una lista de los especímenes con las identificaciones estuviera en la monografía (páginas 291-294), para que los Curadores de los Herbarios tuvieran las identificaciones de los especímenes que amablemente nos permitieron estudiar. Desde 2002 más Herbarios fueron visitados (véase una lista completa al final de esta nota aclaratoria) de mi parte y más especímenes fueron anotados. Por razones obvias pocas revistas científicas aceptarían de publicar estos registros de manera completa. La publicación de estos ‘Cuadernos de Faseología’ en el sitio internet del banco de germoplasma del CIAT donde se conserva actualmente la mayor colección de frijoles, era una manera lógica de meter esta información al alcance del público. El presente archivo es actualizado periódicamente cuando nuevas visitas a los Herbarios aumentan el número de especímenes de las especies perteneciendo a esta sección.

Contenido y organización de los especímenes:

La lista de los especímenes examinados por el autor en los Herbarios viene organizada de acuerdo con las secciones del género *Phaseolus* tales como se las reconoce en la monografía (op. cit.). La razón detrás de esta organización de los datos es práctica, por los números de especímenes estudiados, especialmente para las secciones que incluyen el frijol común (es decir los *Phaseoli*) o el frijol Lima (es decir los *Paniculati*). Para dar una información actualizada a los usuarios, la fecha del documento (la cual se encuentra al final del archivo) es la fecha de la cargada de los datos de cualquier espécimen de esta sección estudiado en el último Herbario visitado. Directamente después del título se encuentra la lista de los Herbarios y Museos de Historia Natural que conservan especímenes de esta sección en sus colecciones; estos Herbarios y Museos vienen mencionados en orden alfabético con los acrónimos de ‘*Index Herbariorum*’. Dentro de cada sección, la información se presenta por cada especie reconocida actualmente como válida, y en orden alfabético de las especies para esta sección. Para cada especie la presentación sigue el orden alfabético de los países donde esta especie crece naturalmente (este cuaderno trata únicamente de las especies y formas silvestres, no de los frijoles sembrados a propósito por la gente en cualquier parte del mundo, tampoco figuran los escapes de cultivo). Para cada país, se sigue el orden alfabético de los departamentos/ estados/ provincias actualmente reconocidos para este país. Dentro de cada departamento/ estado/ provincia, los especímenes se presentan en el orden alfabético de los apellidos de los colectores, considerando el primer apellido cuando aplica. Si se reporta varios especímenes de un mismo colector, el reporte arranca con los números de colecta menores; los que

no tienen número de colecta vienen primero. Cuando hay varios especímenes con el mismo número de colecta, estos se presentan en el orden alfabético de los Herbarios (por sus acrónimos) que conservan estos especímenes. Los especímenes que fueron usados como tipos (indicados en rojo reforzado y según la categoría de tipos, el holotipo siendo el primero) se presentan directamente después del nombre de la especie. Hay dos razones detrás de esta presentación: primero, para el taxónomo el tipo es parte de la validación de la especie (y por lo tanto se sabe de cuál especie se trata), y segundo, en el caso que un usuario busca un tipo, será más rápido buscarlo en un lugar preciso del archivo (y esto para todas las secciones) en comparación a una búsqueda por área geográfica. Los tipos de las especies que fueron puestas en sinonimia siguen, en orden alfabético de los nombres de las especies, a menos que no hayan sido publicados de manera válida. En este último caso, los especímenes se ubican en la lista general (de la misma manera como lo hacen los Curadores). En algunos casos, los especímenes tipo vienen seguidos por aquellos especímenes por los cuales no hay información geográfica. En los casos donde sólo aparece el nombre del país, entonces estos especímenes vienen al inicio (en espera de más información) antes del primer departamento/ estado/ provincia mencionado en orden alfabético.

Presentación de los datos:

Todas las notas que se encontraron escritas sobre cada espécimen en el día de la visita fueron registradas de la manera más cercana al texto original, y vienen reportadas en una secuencia temporal arrancando con la anotación más antigua. Decidir cuál era la anotación más antigua no fue siempre fácil, pero el color de las etiquetas y de las tintas y los tipos de máquinas de escribir y de las impresoras ayudaron. Para una referencia rápida, la información arranca con el número del ejemplar con el acrónimo del Herbario visitado cuando aplica. Hay que mencionar que algunos Herbarios no numeran sus especímenes. En este caso puede haber sólo el sello del Herbario donde el espécimen está conservado. Cada elemento de información que se encuentra escrito en una etiqueta o directamente sobre la cartulina viene separado del siguiente por una barra oblicua repetida tres veces (///). Favor notar que un sello puede ser incluido en la secuencia de informaciones porque puede dar una información útil sobre la edad de un espécimen si ésta no viene indicada en la etiqueta principal. Las etiquetas más recientes en la secuencia se refieren usualmente a la identificación del espécimen por parte de los taxónomos, y vienen en orden cronológico, la identificación más temprana siendo la primera. La secuencia de grupos de datos termina con la identificación de parte del autor (introducida por sus iniciales), con algunas notas sobre el espécimen. En estas notas, se llama la atención sobre el tamaño/ riqueza del espécimen, usualmente mediante el número de racimos. Con miras a futuras colectas y en correspondencia con la fecha de la colecta, se da una indicación de fenología, si el espécimen tiene flores y/o vainas jóvenes y/o vainas verdes y/o vainas secas y/o semillas. Las notas terminan con el acrónimo del Herbario visitado y con la fecha (en formato día/mes/ año) del estudio del espécimen durante la visita (esta fecha puede ser comprobada consultando los libros de registro de visitantes de cada Herbario). En consecuencia el lector sabe dónde un espécimen preciso puede ser estudiado o solicitado en préstamo para estudio. Un espécimen puede haber sido estudiado en dos fechas, y en consecuencia dos fechas aparecen, en orden cronológico. La indicación [x2] o [x3] significa que el espécimen existe como dos o tres ejemplares; si existe cualquier detalle que amerita ampliación de notas, entonces el segundo o tercer ejemplar será tratado como cualquier otro espécimen. Usualmente se usará el espécimen con partes más útiles/ abundantes para dar información.

Porque las coordenadas geográficas pueden ser de importancia crítica para los estudios de fitogeografía o evaluación contra estrés abióticos, en el caso que las coordenadas fueron escritas en la etiqueta (principal), se las reporta directamente. Si no hay coordenadas y en el caso que el lugar

de colecta esté suficientemente preciso, se dan unas coordenadas estimadas, usualmente para el primer número de colecta. Porque se trata de datos indirectos dados por el autor, estarán escritos entre corchetes cuadrados []. De igual manera, por su importancia para volver a ver el material en su sitio original, especialmente si ha sido dada de manera abreviada o en forma numérica que puede prestarse a confusiones, la fecha puede ser re-confirmada en corchetes cuadrados (en formato día/ mes/ año), usualmente para el primer número de colecta. Esta confirmación ha sido posible en varios casos porque el autor ha explorado la misma área para la misma especie. Otras notas tales como apreciaciones o interpretaciones de cualquier palabra escrita sobre la etiqueta y que sea relevante aparecerán también entre corchetes cuadrados, de tal manera que el lector entiende que no son datos originales. En algunos casos se vio la necesidad de añadir la abreviación [col.] para indicar claramente el nombre del colector de la muestra; de igual manera a veces fue necesario añadir la abreviación [det.] para indicar claramente el nombre del taxónomo quien identificó el material. En el caso que ambas abreviaciones estén sin corchetes cuadrados, esta situación significa que fueron escritas como tales en la etiqueta. A veces una información crítica, por ejemplo el nombre de la especie o el número de colecta puede estar faltando y el autor ha visto un espacio dejado en blanco; esta situación viene reflejada en las notas con la indicación [blanc] 'blanco' donde corresponde, o [s.n.] 'sin número'.

Para referencia rápida solamente, el nombre del departamento/ estado/ provincia aparecerá en verde (la letra original negra ha sido cambiada a verde), y el nombre del colector (principal) y su número de colecta aparecerán en azul (la letra original negra ha sido cambiada a azul). Favor notar que la letra original negra revertirse fácilmente, para que el usuario vea los datos originales tales como estaban en la(s) etiqueta(s). De igual manera, todas las barras en oblicuo pueden ser eliminadas para volver a la información original de la(s) etiqueta(s). Es importante guardar en mente que el autor trata los especímenes como casos individuales y como conjuntos de datos por separado, y en cada visita como casos nuevos. Esta aproximación explica por qué los especímenes colectados por el mismo colector y con el mismo número de colecta se repiten en la lista. La opinión de otros taxónomos sobre el espécimen estudiado les pertenece, y la manera como los Curadores montan la muestra y presentan los datos igualmente pertenece a ellos. Bajo este entendimiento, el lector observará unas convergencias (o diferencias) interesantes en el trabajo de estos diferentes profesionales.

Notas sobre esta sección:

El lector encontrará los especímenes estudiados por el autor en el orden alfabético de las especies: *P. angustissimus*, *P. carteri*, y *P. filiformis*. Estas tres especies han sido validadas en el trabajo de Delgado-Salinas et al. 2006 en Syst. Bot. 31 (4): 779-791). Esta sección tiene una relación lejana con la del frijol común (ver T.G. Porch, J.S. Beaver, D.G. Debouck, S. Jackson, J.D. Kelly & H. Dempewolf. 2013. Use of wild relatives and closely related species to adapt common bean to climate change. Agronomy 3: 433-461). El rango de distribución de esta sección parece limitado a la parte árida de América del Norte y el Golfo de California, con dos especies con amplia distribución (i.e. *P. angustissimus*, *P. filiformis*) y una endémica (i.e. *P. carteri*). No hay especies domesticadas en esta sección, y estas son vulnerables frente a la intervención humana.

Introduction aux 'Cahiers de Phaséologie' – section *Rugosi* Freytag.

D.G. Debouck

Programme de Ressources Génétiques
Centre International d'Agriculture Tropicale (CIAT)
AA 6713 Cali COLOMBIA; d.debouck@cgiar.org

NOTE EXPLICATIVE

Objet:

Au moment de finir la monographie avec George F. Freytag (Freytag, G.F. & D.G. Debouck. 2002. Taxonomy, distribution, and ecology of the genus *Phaseolus* (Leguminosae-Papilionoideae) in North America, Mexico and Central America. SIDA Bot. Misc. 23: 1-300), un accord avait été conclu avec l'Editeur du Botanical Research Institute of Texas que la monographie ne devrait pas compter plus de 300 pages. Il y avait cependant un grand nombre de spécimens sur lesquels nous avions des observations et des notes prises soit ensemble à Mayagüez, soit séparément. Nous étions d'accord avec l'Editeur qu'au moins une liste des identifications soit présente dans la monographie (pages 291-294), afin que les Curateurs des Herbiers puissent avoir les identifications des spécimens qu'ils avaient eu l'amabilité de soumettre à notre examen. Depuis 2002 j'ai eu l'occasion de visiter d'autres Herbiers (la liste complète se trouve à la fin de cette note explicative) et de prendre des notes sur un plus grand nombre de spécimens. Pour des raisons évidentes peu de revues scientifiques accepteraient de publier ces notes dans leur intégralité. La publication de ces 'cahiers de phaséologie' sur le site internet de la banque de gènes du CIAT où la plus grande collection de haricots est actuellement conservée, était une façon de mettre ces informations à la disposition du public. Ce fichier est mis à jour périodiquement quand de nouvelles visites aux Herbiers permettent d'augmenter le nombre de spécimens des espèces appartenant à cette section.

Contenu et organisation des spécimens:

La liste des spécimens étudiés dans les Herbiers par l'auteur est organisée en suivant les sections du genre *Phaseolus* telles qu'elles sont reconnues dans la monographie (op. cit.). La raison pour cette organisation des données est pratique, étant donné le grand nombre de spécimens étudiés, particulièrement pour les sections qui contiennent le haricot commun (c'est-à-dire les *Phaseoli*) ou le haricot de Lima (c'est-à-dire les *Paniculati*). Dans le but de donner une information actualisée aux usagers, la date du document (qui se trouve à la fin du fichier) est celle du transfert des données de n'importe quel spécimen de cette section après la dernière visite d'un Herbier. Directement après le titre se trouve la liste des Herbiers et Muséums d'Histoire Naturelle qui conservent des spécimens de cette section dans leurs collections; ces Herbiers sont signalés en ordre alphabétique par les acronymes signalés dans '*Index Herbariorum*'. Dans chaque section, l'information est présentée pour chacune des espèces actuellement valide, et dans l'ordre alphabétique des espèces de cette section. Pour chaque espèce la présentation suit l'ordre alphabétique des pays où l'espèce croît naturellement (ce cahier se réfère seulement aux espèces et formes sauvages de haricot, et non aux haricots plantés à dessein où que ce soit par les humains; les échappés de culture sont aussi exclus). Pour chaque pays, l'ordre alphabétique des départements/ états/ provinces actuellement connu(e)s est suivi. Pour chaque département/ état/ province, les spécimens sont présentés dans l'ordre alphabétique des noms des collecteurs, le premier nom de famille étant considéré en premier lieu. Au cas où plusieurs spécimens ont été collectés par le(s) même(s) collecteur(s), les moindres numéros de collecte viennent en premier lieu; les spécimens sans numéro de collecte précèdent.

Dans le cas où plusieurs spécimens sont présents avec le même numéro de collecte, l'ordre alphabétique des Herbiers conservant ces spécimens sera suivi. Les spécimens qui ont été utilisés comme types (avec indication en caractères gras et rouges pour la nature des types) viennent directement après la mention du nom de l'espèce. Il y a deux raisons pour cette situation: pour le taxonomiste le type contribue à la validation de l'espèce (et par conséquent on sait directement de quelle espèce il s'agit), et d'autre part dans le cas où un usager cherche un type la recherche sera plus rapide si le type occupe un endroit déterminé dans les fichiers des sections plutôt que de devoir le chercher par origine géographique. Logiquement l'holotype vient en premier lieu. Les types des espèces placées en synonymie viendront ensuite, dans l'ordre alphabétique des noms d'espèces, à moins qu'elles n'aient pas été publiées de façon valide, et dans ce cas les spécimens se trouveront dans la liste générale (comme le font d'habitude les Curateurs des Herbiers). Dans quelques cas, les spécimens type sont suivis par les spécimens pour lesquels il n'y a pas d'information géographique. Dans les cas où le pays est indiqué sans plus d'information, ces spécimens suivent l'indication du pays et sont placés avant ceux avec département/ état/ province connu(e), par ordre alphabétique.

Présentation des données:

Toutes les notes trouvées sur chaque planche d'herbier le jour de la visite ont été enregistrées comme elles ont été écrites, en respectant le texte original le plus fidèlement possible, et ont été présentées en séquence chronologique en commençant par la note la plus ancienne. Décider quelle était la note la plus ancienne fut parfois un choix difficile, mais les couleurs des étiquettes et des encres et le type de machines à écrire ou imprimantes ont aidé. Pour une référence facile, l'information rapportée commence par le numéro de la planche d'herbier avec l'acronyme ou le nom de l'Herbier visité suivant le cas. Il faut noter que certains Herbiers ne numérotent pas leurs planches. Dans ce cas il peut y avoir seulement un cachet indiquant où le spécimen est actuellement conservé. Chaque groupe d'informations sur une étiquette ou écrites directement sur la planche est séparé du suivant par une barre oblique répétée trois fois (///). Il convient de noter qu'un cachet peut être inclus dans la séquence d'informations, car il peut apporter une information utile sur l'âge d'un spécimen si ce renseignement ne figure pas sur l'étiquette principale. Les étiquettes les plus récentes dans la séquence se réfèrent généralement à l'identification du spécimen par les taxonomistes et cette identification est présentée dans l'ordre chronologique, la plus ancienne identification venant en premier. La séquence des groupes d'informations se termine par l'identification de la part de l'auteur (introduite par ses initiales), avec quelques notes sur le spécimen. Dans ces notes, l'attention se porte sur la taille/ abondance du spécimen, mesurée d'habitude par le nombre de racèmes. En vue d'une collecte future éventuelle et en correspondance avec la date de collecte, il y a une indication de phénologie, si le spécimen provient d'une plante en floraison, et/ ou avec des jeunes gousses (jgo), et/ ou avec des gousses vertes (go vertes), et/ ou avec des gousses sèches (go sèches) et/ ou avec des graines (gr). Ces notes se terminent avec l'acronyme de l'Herbier visité et la date (en format jour/ mois/ année) de l'étude du spécimen (cette date peut être validée en consultant le registre des visiteurs de chaque Herbier). De cette façon le lecteur sait où un spécimen peut être étudié ou demandé en prêt pour étude. Un spécimen peut avoir été étudié au cours de deux visites, et par conséquent deux dates en ordre chronologique seront indiquées. L'indication [x2] or [x3] signifie que le spécimen a été trouvé monté sur deux ou trois planches; au cas où il y a quoique ce soit d'intéressant, la seconde ou la troisième planche sera considérée comme un autre spécimen. Le spécimen le plus riche en parties informatives est généralement choisi.

Comme les coordonnées géographiques peuvent être de valeur critique pour des études de phytogéographie ou d'évaluation pour les stress abiotiques, si ces coordonnées ont été écrites sur l'étiquette (principale), elles seront rapportées directement. Au cas où les coordonnées sont absentes

et si le lieu de collecte est suffisamment précis, une estimation des coordonnées est fournie, d'habitude pour le premier numéro de collecte; comme il s'agit d'une donnée indirecte fournie par l'auteur, cette estimation des coordonnées sera écrite entre crochets []. Pareillement, étant donné son importance pour retrouver le matériel dans son site original, la date de collecte, surtout si elle se trouve sous forme abrégée ou sous une forme qui peut prêter à confusion, peut être reconfirmée entre crochets (dans le format jour/ mois/ année), d'habitude pour le premier numéro de collecte. Cette confirmation est souvent possible parce que l'auteur a exploré la même zone géographique pour la même espèce. D'autres notes comme des appréciations ou interprétations d'écritures sur les étiquettes figureront aussi entre crochets, de sorte que le lecteur comprend qu'il ne s'agit pas de données originales. Dans quelques cas il s'est avéré nécessaire d'ajouter l'abréviation [col.] pour indiquer clairement le nom du collecteur; pareillement l'abréviation [det.] a été ajoutée pour indiquer clairement le nom du taxonomiste qui a identifié le spécimen. Si ces deux abréviations existent sans crochets, cela signifie qu'elles ont été écrites comme telles sur l'étiquette. Parfois une information critique, comme par exemple le nom de l'espèce ou le numéro de collecte, est manquante, et l'auteur a trouvé un espace blanc à cet endroit; cette situation est reflétée dans les notes par l'indication [blanc] ou [s.n.] sans numéro.

Pour la facilité de référence et détection, le nom du département/ état/ province apparaîtra en vert (la lettre originale en noir a été convertie en vert), et le nom du collecteur et son numéro de collecte apparaîtra en bleu (la lettre originale en noir a été convertie en bleu). La conversion à la lettre originale en noir est facile et permet de retrouver les données originales comme sur l'étiquette. Pareillement, toutes les barres obliques peuvent être éliminées pour retrouver les informations originales trouvées sur l'(les) étiquette(s). Il convient de se souvenir que l'auteur traite chaque spécimen comme un cas particulier et chaque groupe d'informations sur une étiquette comme un groupe indépendant, et à chaque visite comme un nouveau cas. Ceci explique pourquoi les spécimens trouvés par le(s) même(s) collecteur(s) avec le même numéro de collecte sont répétés dans la liste. L'opinion d'autres taxonomistes sur le spécimen étudié est leur opinion, et la façon dont les Curateurs présentent les étiquettes et montent les matériels leur appartient également. Ceci précisé, le lecteur constatera des convergences (ou des différences) intéressantes dans le travail de ces différents professionnels.

Notes sur cette Section:

Le lecteur trouvera ci-après les spécimens étudiés par l'auteur dans l'ordre alphabétique des espèces: *P. angustissimus*, *P. carteri*, y *P. filiformis*. Ces trois espèces ont été validées par le travail de Delgado-Salinas et al. 2006 dans Syst. Bot. 31 (4): 779-791). Cette section a une relation lointaine avec celle du haricot commun (voir T.G. Porch, J.S. Beaver, D.G. Debouck, S. Jackson, J.D. Kelly & H. Dempewolf. 2013. Use of wild relatives and closely related species to adapt common bean to climate change. Agronomy 3: 433-461). La distribution de cette section semble se concentrer dans la partie aride de l'Amérique du Nord et autour du Golfe de Californie, avec deux espèces d'ample distribution (i.e. *P. angustissimus*, *P. filiformis*) et une endémique (i.e. *P. carteri*). Il n'y a pas d'espèces domestiquées dans cette section, et les espèces sont vulnérables à l'intervention humaine.

List of Museums of Natural History and Herbaria studied, and dates of visit.
(acronyms after *Index Herbariorum*, Holmgren et al. 1981; month and year)

1. A: Arnold Herbarium; it is together with the herbaria ECON and GH at Harvard University, Cambridge, Massachusetts, USA (Jul-2006; Sep-2016).
2. AGUAT: herbarium of the Universidad de San Carlos, Guatemala City, Guatemala (Nov-1987; Aug-2007; Apr-2011).
3. AHUC: herbarium of the Department of Agronomy of the University of California; it is together with the herbarium DAV of the University of California-Davis, Davis, USA (Sep-2008).
4. ANSM: herbarium of the Agricultural University 'Antonio Narro', Saltillo, Coahuila, Mexico (Dec-2011).
5. ARIZ: herbarium of the University of Arizona, Tucson, USA (Feb-1979; Sep-2012).
6. ASU: herbarium of the Arizona State University, Tempe, USA (Sep-2015).
7. BA: herbarium of the Museo Argentino de Historia Natural, Buenos Aires, Argentina (Aug-2010).
8. BAA: herbarium of the Facultad de Agronomía, Universidad de Buenos Aires, Argentina (Mar-1985; Oct-2006).
9. BAB: herbario del Instituto Nacional de Tecnología Agropecuaria, Castelar, Argentina (Aug-2010).
10. BAFC: herbarium of the Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, Argentina (Mar-1985).
11. BACP: herbarium of the Centro de Estudios Farmacológicos y de Principios Naturales; it is in the Argentinean Museum of Natural History, Buenos Aires, Argentina (Aug-2010).
12. BM: herbarium of the British Museum, London, England (Aug-1985; Dec-2006).
13. BR: herbarium of the National Botanical Garden, Meise, Belgium (Jun-2005; Oct-2005; Oct-2007).
14. BRIT: herbarium of the Botanical Research Institute of Texas, Fort Worth, USA. (Feb-2002; Jun-2002).
15. CAS: herbarium of the California Academy of Sciences, San Francisco, USA (Sep-2008).
16. CHAPA: Herbario-hortorio of the Colegio de Postgraduados, Montecillo, México (Jul-2004; Sep-2005).
17. CICY: herbarium of the Centro de Investigaciones Científicas de Yucatán, Mérida, México (Apr-2005; Jan-2011).
18. COL: Herbario Nacional Colombiano, Instituto de Ciencias Naturales, Bogotá, Colombia (May-1985; Jul-1990; Jul-2002; Feb-2009; Jun-2010).
19. CORD: Museo Botánico, Universidad Nacional de Córdoba, Córdoba, Argentina (Oct-2009).
20. CPUN: herbarium of the Universidad Nacional de Cajamarca, Cajamarca, Perú (Jun-1985; Jul-1986).
21. CR: herbarium of the Museo Nacional, San José, Costa Rica (Jan-1987, Jun-2004, Aug-2005).
22. CS: herbarium of Colorado State University, Fort Collins, USA. (Aug-2008).
23. CUZ: herbarium of the Universidad San Antonio Abad, Cuzco, Perú (Feb-2001).
24. DAV: herbarium of the University of California-Davis, Davis, USA. (Sep-2008; Nov-2010).
25. DES: herbarium of the Desert Botanical Garden, Phoenix, Arizona, USA. (Feb-1979).
26. DS: Dudley herbarium of Stanford University, USA. (now in CAS) (Sep-2008).
27. DUKE: herbarium of Duke University, Durham, USA. (Aug-2011).
28. EBUM: herbarium of the Escuela de Biología, Universidad Michoacana de San Nicolás de Hidalgo, Morelia, México (Feb-2003).
29. ECON: Oak Ames herbarium, Harvard University, Cambridge, USA. (Jul-2006; Sep-2016).
30. ENCB: herbarium of the Escuela Nacional de Ciencias Biológicas, Ciudad de México, México (Jul/Aug-1978; Sep-2004; Apr-2005).
31. F: Field Museum of Natural History, Chicago, USA. (Jul/Aug-2004).
32. FI: herbarium of the Museo di Storia Naturale dell'Università, Firenze, Italy (Jul-2008).
33. FHO: herbarium of the School of Forestry of the University of Oxford, Oxford, England (Feb-2007).
34. G: herbarium of the Conservatoire et Jardin Botaniques, Geneva, Switzerland (Feb-2002).
35. GH: Gray Herbarium; it is together with the A and ECON herbaria at Harvard University, Cambridge, Massachusetts, USA. (Jul-2006; Sep-2016).
36. HAO: herbarium of the Universidad Antenor Orrego, Trujillo, Perú (Oct-2000).
37. HNMN: national herbarium of Nicaragua, Universidad Centroamericana, Managua, Nicaragua (Apr-2006).
38. HUT: Herbario Truxillense, Universidad Nacional de Trujillo, Perú (Oct-2000).
39. IA: herbarium of the University of Iowa, Ames, USA (Apr-2010).
40. IBUG: herbarium of the Instituto de Botánica de la Universidad de Guadalajara, Guadalajara, México (Oct-2003; May-2008; Jan-2011).
41. IEB: herbarium of the Instituto Ecológico del Bajío, Patzcuaro, México (May-2008).

42. INB: herbarium of the Instituto Nacional de Biodiversidad, Santo Domingo, Costa Rica (Aug-2003; Jul-2004; Aug-2005; Sep-2010; March 2013).
43. ISC: herbarium of Iowa State University (formerly Iowa State College), Ames, USA (Apr-2010).
44. ITIC: herbarium of the university of El Salvador, Escuela de Biología, San Salvador, C.A. (Apr-2011).
45. K: herbarium of Royal Botanic Gardens, Kew, England (Aug-1985; Mar-1986; Mar-2005; Oct-2005; Jun-2006; Jun-2011; Mar-2018).
46. L: herbarium of the University of Leiden, Netherlands (Oct-2007).
47. LAGU: herbarium of the botanic garden 'La Laguna', Antiguo Cuscatlán, El Salvador, C.A. (Nov-2012).
48. LL: Lundell herbarium; it is together with TEX at the university of Texas, Austin, USA (Sep-2008).
49. LIL: Miguel Lillo herbarium, Tucumán, Argentina (March-1985).
50. LPB: Herbario Nacional de Bolivia, La Paz, Bolivia (April-1988).
51. M: herbarium of the Botanische Staatssammlung, München, Germany (Oct-2005).
52. MA: herbarium of Jardín Botánico Real, Madrid, Spain (Sep-2000; June-2006).
53. MEXU: Herbario Nacional de México, Instituto de Biología, UNAM, Mexico (July-1978; Aug-1994; Nov-2007; Jan-2011; March-2012; April-2013).
54. MICH: herbarium of the University of Michigan, Ann Arbor, USA (June-1988; Sep-2007).
55. MIN: herbarium of the University of Minnesota, St. Paul, USA (Apr-2010).
56. MO: herbarium of the Missouri Botanical Garden, St. Louis, USA (May/June 2002; June 2013).
57. MOL: herbarium of the Universidad Nacional Agraria, La Molina, Peru (March-1985; Oct-2000).
58. MSC: herbarium of Michigan State University, East Lansing, USA (June-1988).
59. NA: herbarium of the National Arboretum, Washington D.C., USA (July-2006).
60. NCU: herbarium of the University of North Carolina at Chapel Hill, USA (Aug-2011).
61. NEBC: herbarium of the New England Botanical Club, Harvard University, Cambridge, USA (July-2006).
62. NMC: herbarium of the New Mexico State University, Las Cruces, USA (Aug-2017).
63. NMCR: Range Science Herbarium of New Mexico State University, Las Cruces, USA (Aug-2017).
64. NY: herbarium of the New York Botanical Garden, New York, USA (June 1993; June 2003; Feb-2014).
65. O: herbarium of the University of Oslo, Norway (Feb-2008).
66. OXF: herbarium of the University of Oxford, Oxford, England (Jan-2007).
67. P: herbarium of the Musée National d'Histoire Naturelle, Paris, France (Feb-2004).
68. PH: herbarium of the Academy of Natural Sciences, Philadelphia, USA (Sep-2007).
69. POM: herbarium of the Pomona College, CA; it had been received by the Rancho Santa Ana Botanic Garden, Claremont, CA, USA (Nov-2010).
70. PRG: herbarium of the national university Pedro Ruíz Gallo of Lambayeque, Peru (Oct-2000).
71. QCA: herbarium of the Pontificia Universidad Católica del Ecuador, Quito, Ecuador (July-2003).
72. RB: herbarium of the Jardín Botánico de Rio de Janeiro, Rio de Janeiro, Brazil (Oct-2011).
73. RSA: herbarium of Rancho Santa Ana Botanic Garden, Claremont, CA, USA (Nov-2010).
74. SGO: herbarium of the Museo Nacional de Historia Natural, Santiago, Chile (March-1999).
75. SI: herbarium of the Instituto Darwinion, San Isidro, Argentina (March-1985; Oct-1985; April-1988; Nov-2005).
76. TCD: herbarium of the Trinity College, Dublin, Ireland (June-2011).
77. TEX: herbarium of the University of Texas, Austin, USA (Sep-2008).
78. UC: Herbarium of the University of California, Berkeley, USA (Oct-2003).
79. UCR: Herbarium of the University of California, Riverside, USA (Aug-2014).
80. UFG: herbarium of the Universidade Federal de Goiás, Goiânia, Goiás, Brazil (Oct-2011).
81. US: National Herbarium, Smithsonian Institute, Washington, D.C., USA (Aug-1994; May-1997; Aug-2003; Sep-2009).
82. USJ: herbarium of the University of Costa Rica, San José, Costa Rica (Jan-1987; June 1991; Aug-2005).
83. USM: herbarium of the Universidad Nacional Mayor de San Marcos, Lima, Peru (March-1985; Oct-1997; Oct-2000).
84. UVAL: herbarium of the Universidad del Valle de Guatemala, Guatemala, C.A. (April-2011).
85. WIS: Herbarium of the University of Wisconsin, Madison, USA (Nov-2007).

Cahiers de Phaséologie – section *Rugosi*.

Herbiers annotés:

ANSM, ARIZ, ASU, BM, BR, BRIT, CAS, CHAPA, COL, CS, DAV, DES, DS, DUKE, ECON, ENCB, F, FHO, FI, G, GH, K, IA, IBUG, IEB, ISC, L, LIL, LL, M, MEXU, MICH, MIN, MO, MSC, NA, NCU, NMC, NMCR, NY, P, PH, POM, RSA, SI, TCD, TEX, UC, UCR, US, WIS

Phaseolus angustissimus Asa Gray

No. 951. C Wright, coll. N. Mex. [New Mexico] 1851. *Phaseolus angustissimus* A Gr. /// Herbarium Hookerianum 1867 [cachet]. /// Royal Botanic Gardens H922/76 2 Kew [cachet encre verte]. /// *Phaseolus angustissimus* A Gray. ex num cit. Maréchal (1978). /// DGD: *angustissimus*, 5 racèmes, en floraison, jeunes go, 1 go verte, folioles linéaires seulement 3 mm large; farde indiquée “TYPE” bordée de rouge; c’est un **isotype**. [K; 5-VIII-1985].

No. 951. C Wright, coll. N. Mex. [New Mexico] 1851. *Phaseolus angustissimus* n.sp. /// Herbarium Benthamianum 1854 [cachet]. /// Royal Botanic Gardens H922/76 1 Kew [cachet encre verte]. /// *Phaseolus angustissimus* A Gray. ex num cit. Maréchal (1978). /// DGD: *angustissimus*, 4 racèmes, en go vertes, go sèches, folioles linéaires seulement 3 mm large, tiges non volubiles; farde indiquée “TYPE” bordée de rouge; c’est un **isotype**. [K; 5-VIII-1985].

Gray Herbarium Harvard University [cachet à l’encre rouge]. /// No. 951. C Wright, Coll. N. Mex. 1851. *Phaseolus angustissimus* n. sp. /// Type [cachet à l’encre noire]. /// The University of Texas Herbarium. Lectotype “A”: *Phaseolus angustissimus* A. Gray. C Wright [sic!] 68. Alfonso Delgado Salinas. 1984. /// The University of Texas Herbarium. *Phaseolus angustissimus* A. Gray. C Wright 500. Alfonso Delgado Salinas, 1984. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. HOLOTYPE. *Phaseolus angustissimus* A. Gray. Pl. Wright. 2: 33. 1852., det. George F Freytag, Jun 12 1987. /// The Harvard University Herbaria barre code 00064073. /// DGD: *angustissimus*, une plante avec base de tige un peu lignifiée et début de la ramification en rosette, 7 racèmes, en floraison, j go, une seule go verte, folioles très étroites, quelques unes avec esquisse de lobation à la base 52 mm long 2.5 mm large, partie basale de la tige rampante ascendante et volubile dans partie terminale; c’est l’ **holotype**. [GH; 24-VII-2006].

Gray Herbarium Harvard University [cachet à l’encre rouge]. /// No. 951. C Wright, Coll. N. Mex. 1851. *Phaseolus angustissimus* Gray. /// Transferred from the Boston Society of Natural History to the Gray Herbarium of Harvard University, October 2, 1941. /// Gray Pl. Wright. 2. 33 [écrit au crayon noir sur la planche]. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. ISOTYPE. *Phaseolus angustissimus* A. Gray. Pl. Wright. 2: 33. 1852., det. George F Freytag, Aug 29 1987 [collé sur une autre étiquette de George !]. /// The Harvard University Herbaria barre code 00064074. /// DGD: *angustissimus*, une tige un peu lignifiée à la base, 4 racèmes, en floraison, une seule j go, folioles très étroites 28 mm long 2 mm large, tige rampante et ascendante; ce serait un **isotype**. [GH; 24-VII-2006].

MO1731218. N° 951. C. WRIGHT, Coll. N. Mex. 1851. *Phaseolus angustissimus* A Gr. Rio Grande, N. Mex. & Sonora. Sept. /// Type Specimen. HERB. M.B.G. [étiquette imprimée en rouge]. /// Missouri Botanical Garden. /// The University of Texas Herbarium. ISOTYPE. *Phaseolus angustissimus* A. Gray. C. Wright 68. Alfonso Delgado Salinas. 1984. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. ISOTYPE. *Phaseolus angustissimus* A. Gray. Pl. Wright. 2: 33. 1853. Det. George F. Freytag, Jul 1 1986. /// TROPICOS Image [cachet à l’encre noire]. /// DGD: *angustissimus*, partie de tige ‘scandens’, à peu près défoliée, folioles extrêmement étroites 30x2 mm non lobées, 2 racèmes, en floraison, jgo. [MO; 21-VI-2013].

No. 951. C Wright, coll. N. Mex. 1851. *Phaseolus angustissimus* Gray. Santa Cruz, Sonora. /// C.W. Short Herbarium, presented by Estate, 1864 [cachet à l'encre violette]. /// ANSPHILA [cachet perforé]. /// Type collection [cachet à l'encre rouge]. /// DGD: *angustissimus*, 2 racèmes, en floraison, spécimen pauvre, fragment de tige non volubile, folioles linéaires 30-50 mm long 3 mm large, apparemment sans lobation car partie terminale florifère; c'est un **isotype**. [PH; 14-IX-2007].

No. 951. C Wright, coll. N. Mex. 1851. *Phaseolus angustissimus* A Gr [pour Asa Gray]. Sonora. /// DGD: *angustissimus*, 4 racèmes, en floraison, j go, tige 'scandens', folioles très étroites; probablement un **isotype** de la même série qu'au Gray Herbarium; pas plus d'informations de collecte. [TCD; 7-VI-2011].

US138616. Ex. Herb. Parke, Davis & Co., No. 2024, *Phaseolus wrightii* Gray, Mogollon Mts., N.M., Aug. 30/ 1881, Leg. H.H. Rusby. Determinavit: *Phaseolus dilatatus* Wooton & Standley, type. The University of Texas Herbarium, **Holotype**, *Phaseolus dilatatus* Wooton & Standley, Contr. US Nat. Herb. 16: 139. 1913. ver. Alfonso Delgado Salinas, 1983. The University of Texas Herbarium, *Phaseolus angustissimus* A. Gray, Alfonso Delgado Salinas, 1983. /// DGD, 12/V/1997: *angustissimus*; c'est l' **holotype**. [US; 12-V-1997].

C.F. Baker Herbarium. Pomona College. 28790. /// M.E. Jones Herbarium. Purchased in 1923. /// Type collection. Marcus E. Jones Herbarium. *Phaseolus angustissimus* Gray var. *latus* Jones. 6-9-1890 [9 juin 1890]. S. [= stream ?!] Little Colorado. **Arizona**. [36° 11' 28"N. 111° 48' 14"W]. Collected by Marcus E Jones, A.M. /// Lectotype of: *Phaseolus angustissimus* Gray var. *latus* M.E. Jones, Contr. W. Bot. 12: 14. 1908. [étiquette à bords noirs]. /// Rancho Santa Ana Botanic Garden. Claremont, CA USA (RSA-POM). Code barre. RSA 0003596. /// DGD: *angustissimus*, 6 racèmes, en floraison, tige ascendante non volubile, hétérophylie; c' est un **lectotype** servant de type pour cette variété. [POM; 5-XI-2010].

C.F. Baker Herbarium. Pomona College. 28789. /// M.E. Jones Herbarium. Purchased in 1923. /// Type collection. Marcus E. Jones Herbarium. *Phaseolus angustissimus* Gray var. *latus* Jones. June 9-1890. S. Little Colorado. **Arizona**. [36° 11' 28"N. 111° 48' 14"W]. Collected by Marcus E Jones, A.M. /// Isotype of: *Phaseolus angustissimus* Gray var. *latus* M.E. Jones, Contr. W. Bot. 12: 14. 1908. [étiquette à bords bleus]. /// Specimen data captured in type database at RSA/POM in 1990. /// Rancho Santa Ana Botanic Garden. Claremont, CA USA (RSA-POM). Code barre. RSA 0003597. /// DGD: *angustissimus*, 10 racèmes, en floraison, 2 groupes de tiges ascendantes non volubiles, hétérophylie; c'est un **isotype** de cette variété. [POM; 5-XI-2010].

UC107773. United States National Herbarium. Photograph distribution no. 122. *Phaseolus angustissimus* var. *latus* Jones. Holotypus (presumably). Arizona. ME Jones. Museum: Pomona. /// *Phaseolus angustissimus* A Gray, det. GF Freytag, 25 Mar 1985. écrit au crayon rouge par GFF "holotype Photo of var. *latus* Jones". /// DGD: *angustissimus*, photo B/N, 7 racèmes, en floraison, une plante avec 3 tiges rampantes dressées non volubiles à base ligneuse, dimorphisme foliaire important, folioles à la base de la plante larges et peu lobées, dans la partie supérieure très étroites avec lobe un peu esquissé à la base des folioles latérales et terminales. [UC; 21-X-2003].

United States

Arizona

Oregon State University. Range Management Herbarium. Collectors no. EGM 68. Date collected sept. 24, 1968 [24 septembre 1968]. *Phaseolus acutifolius* Gray. Texas bean. Collected by EGM. Ident. Checked by CT Mason Jr. State **Arizona** [reste en blanc!]. /// *Phaseolus angustissimus* A Gray, determinó A Delgado S., 1979. Colegio de Postgraduados, Chapingo, México. /// DGD: *angustissimus*, 10 racèmes, en floraison, jgo, go vertes, go sèches. [CHAPA; 9-VII-2004].

University of North Carolina Herbarium. 385077. /// Mohave Co., **Arizona**, USA. *Phaseolus angustissimus* Gray. Ca. 3 miles south of Nixon Springs, Mt. Trumbell. [36°32'N. 113°12'W]. N Duane Atwood 1749. 27 May 1969. Herbarium of Brigham Young University, Provo, Utah. /// DGD: *angustissimus*, 6 racèmes, en

floraison, tige à base lignifiée, folioles avec esquisse de lobation à la base; écrit Trumbell. [NCU; 23-VIII-2011].

Mohave Co., [Arizona](#), USA. *Phaseolus angustissimus* A Gray. ca 3 mi south of Nixon Springs, Mt Trumbell. [en fait c'est Mt. Trumbull] [36°32'N. 113°12'W]. [N Duane Atwood 1749](#). 27 May 1969 [27 mai 1969]. Herbarium of Brigham Young University, Provo, Utah. /// DGD: *angustissimus*, en floraison, jgo, go vertes, 9 racèmes, folioles petites presque aussi larges que longues, lobe à la base parfois marqué, la base de la plante est un peu ligneuse. [NY; 10-VI-2003].

US2599151. Mohave Co., [Arizona](#), USA. *Phaseolus angustissimus* Gray. Ca. 3 miles south of Nixon Springs, Mt Trumbell. [36°32'N. 113°12'W]. [N Duane Atwood 1749](#). 27 May 1969. Herbarium of Brigham Young University, Provo, Utah. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// Tropical Agriculture Research Station, ARS, USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F. Freytag, Oct 17 1988. /// DGD: *angustissimus*, 8+3 racèmes, en floraison, folioles latérales avec ébauche de lobe basal externe; deux parties basales de plantes entières. [US; 31-VIII-2009].

Apache county, [Arizona](#). *Phaseolus angustissimus* Gray, 5.2 miles north-east of Concho along highway 61. [34°50'N. 109°59'W] Roadside. [Duane Atwood 6153](#). June 4, 1974. Herbarium of Brigham Young University, Provo, Utah. /// DGD: *angustissimus*, en floraison-go vertes, base plante ligneuse, bon développement hétérophylie, folioles dans partie inférieure de la plante rhombiques avec lobe à la base et 9-12 mm large, étroites et non lobées dans la partie supérieure de la plante 3-5 mm large. [NY; 10-VI-2003].

130106. Herbarium. Arizona State University. /// Mohave Co., [Ariz](#), USA. *Phaseolus angustissimus* Gray. T34N, R8W, E slope of Mt Trumbull along Dugway. Pinyon-juniper comm [sic!] in lava rock. [D Atwood 9456](#). 13 June 1983. Herbarium of Brigham Young University, Provo, Utah. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F. Freytag, Dec 2 1991. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 5 racèmes, en floraison. [ASU; 22-IX-2015].

Mohave Co., [Ariz.](#), USA. *Phaseolus angustissimus* A Gray. T34N R8W. E slope of Mt Trumbull along Dugway. Pinyon-juniper community in lava rock. [36°41'N. 113°13'W]. [D Atwood 9456](#). 13 June 1983 [13 juin 1983]. Herbarium of Brigham Young University, Provo, Utah. /// DGD: *angustissimus*, en floraison, jgo, 2 petites plantes jeunes, 2+3 racèmes, folioles petites, 15-20 mm long 11-15 mm large, très légère tendance à former un lobe dans partie inférieure, la forme des folioles rappelle un peu *leptostachyus*, mais *angustissimus* sans doute possible. [NY; 10-VI-2003].

Mohave Co., [Arizona](#), USA. *Phaseolus angustissimus* Gray var. *latus* ME Jones. T33N R7W sec 32. S slope of Vulcan's Throne at end of road on W side 4500 ft elev. [1,370 m]. [36°22'N. 113°08'W]. Red volcanic tuff below end of road (plants restricted to red tuff). [D Atwood 9642](#). 15 May 1984. Herbarium of Brigham Young University, Provo, Utah. /// DGD: *angustissimus*, 2 plantes avec base des tiges ligneuse, plantes avec peu de développement, folioles petites rhombiques presque aussi larges que longues, 1+1 racèmes, en go vertes. [NY; 10-VI-2003].

MO4050062. R-343873. Yauapai Co., [Arizona](#), USA. *Phaseolus angustissimus* Gray. Oak-juniper-mahogany community. Elevation 5,600 ft. [1,700 m]. 6 miles SW of Prescott along Hwy 89, Prescott National Forest. [34° 26'N. 112° 34'W]. Granitic soils on S exposure. [Duane Atwood 17038](#). 5 September 1991 [5 septembre 1991]. 4 [duplicates?]. HERBARIUM OF BRIGHAM YOUNG UNIVERSITY. PROVO, UTAH. /// DGD: *angustissimus*, 5 racèmes, en floraison, jgo, go vertes. [MO; 21-VI-2013].

R-370057, Coconino Co., [Arizona](#), USA. *Phaseolus angustissimus* A Gray. T23N R8E. Peak NW of Sunset Crater, Coconino NF, NE of Flagstaff, volcanic soils in ponderosa pine community. [35°36'N. 111°50'W]. [D](#)

[Atwood 18881](#). 9 August 1993. Herbarium of Brigham Young University, Provo, Utah. /// DGD: *angustissimus*, en début floraison, 16 racèmes, folioles petites, 12-13 mm long 2-5 mm large avec petit lobe à la base et vers partie inférieure de la plante, paraît être un *angustissimus* de moindre développement. [NY; 10-VI-2003].

R-364678. Apache Co., [Arizona](#), USA. *Phaseolus angustissimus* A. Gray. T9N, R30E, S18. Jct of Hwy 180/60. N of Springerville. [34°09'30"N. 109°18'W]. Gravelly mesa in shrub/ grass comm.. on volcanics. [D Atwood 20606](#). 6 September 1995. 8. Herbarium of Brigham Young University, Provo, Utah. /// DGD: *angustissimus*, plus de 10 racèmes, en floraison, j go, j go en transition à go vertes, petites folioles linéaires à acumen 'blunt' 28 x 2 mm; le '8' signifie probablement le nombre de répliques. [TEX; 12-VIII-2008].

Arizona State University (ASU). 268588. Vascular Plant Herbarium. /// Specimen entered in ASU Database [cachet à l'encre noire]. /// Plants of [Arizona](#). Fabaceae. *Phaseolus angustissimus* Gray. Yavapai Co.: Walnut Creek. Lat.: 34° 55' 12"N, Long.: 112° 50' 49"W. [T Ayers 1591](#). 3 Aug 1998 [3 août 1998]. Det. by H.D. Hammond. Northern Arizona University (ASC). /// DGD: *angustissimus*, 6 racèmes, en floraison, go verte. [ASU; 21-IX-2015].

ASU182615. /// Fabaceae of [Arizona](#). Gila County. *Phaseolus angustissimus* A. Gray. East Verde River; ca. 3 mi. NW of Payson. Along Hwy 87; 4520 feet [1,364 m]; N 37 95 100, E 4 67 200; just SE of the confluence of Sycamore Creek; streamside with *Carex senta*, *Festuca pratense*, *Dactylis glomerata*, *Salix exidua*, *Juncus badius*, *Scirpus pendulus*, *Vitis arizonica*, *Quercus emoryi*, *Rhus trilobata*, *Fraxinus velutina*, *Platanus wrightii*, *Amorpha fruticosa*, *Alnus oblongifolia*, *Salix gooddingii*. Trailing vine on sandy bank; leaves dark green; flowers lavender-pink. [Mark A Baker 8527](#). 9 June 1991 [9 juin 1991]. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F. Freytag, Dec 2 1991. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 5 racèmes, en floraison, jgo, folioles tant terminales que latérales avec esquisse de lobation externe à la base, une tige florifère au départ d'une autre lignifiée. [ASU; 22-IX-2015].

ASU194485. /// Fabaceae. [[Arizona](#)]. Yavapai County. *Phaseolus angustissimus* A. Gray. Sycamore Canyon Wilderness; N38 63 350 E4 03 600; T18N R3E NE ¼ SE ¼ section 28; 3700 feet [1,116 m]; 1k[m] NE of Parson Spring; among river rock below high water mark with *Fraxinus velutina*, *Chilopsis linearis*, and *Melilotus officinalis*. Perennial vine clambering among rocks; leaves leathery, dark green, satiny, with gray-green near center; wings convex, pointing straight out, lavender; banner concave, deflexed upward, very pale green, tinged lavender; keel translucent-white, coiled. [Marc Baker 9306](#), Theresa Wright. 30 May 1992 [30 mai 1992]. /// DGD: *angustissimus*, 9 racèmes, en floraison, jgo, jgo en transition à go vertes, go vertes, une tige robuste rampante à base lignifiée, hétérophylle. [ASU; 22-IX-2015].

ASU194411. /// Fabaceae. [[Arizona](#)]. Coconino County. *Phaseolus angustissimus* A. Gray. Sycamore Canyon Wilderness Area; 3 k NW of the confluence of Cedar and Sycamore creeks; 1 k south of Deadman Pocket; N38 71 950 E4 04 760; T19N R3E NW ¼ NE ¼ section 35; 5035 feet [1,519 m]; canyon bottom with *Artemisia ludoviciana*, *Brickellia betonicifolia*, *Cercocarpus montanus*, *Cupressus arizonica*, *Ephedra*, *Fraxinus*, *Garrya*, *Juniperus deppeana*, *Phaseolus angustissima* [sic!], *Pinus edulis*, *Prunus*, *Quercus*, *Robinia neomexicana*, and *Thalictrum fendleri*. Trailing, flowers lavender-pink. [Mark Baker 10312](#). 6 October 1992 [6 octobre 1992]. /// DGD: *angustissimus*, 6 racèmes, en floraison, jgo en transition à go vertes, go vertes; une jeune plante avec racine lignifiée, diam. 3 mm. [ASU; 22-IX-2015].

Plantae Occidentales Selectae. *Phaseolus angustissimus* Gray. [Arizona](#): sandy slopes 4200 ft [1,280 m], Salty River Canyon, 50 miles NE of Globe, Gila County. [33°50'N. 110°54'W]. 27 October 1939. [RC Barneby no. 2640](#). /// DGD: *angustissimus*, tt début floraison, 2 jgo, 3 racèmes, folioles longues très étroites non lobées, la base de la tige est ligneuse. [NY; 10-VI-2003].

Plantae Occidentales Selectae. *Phaseolus angustissimus* Gray var. *latus* ME Jones. [Arizona](#), Yavapai Co.: in cinder soil of open gravel hills, 1150 m, 12 miles SE of Camp Verde. [36°56'N. 113°55'W]. Wing petals magenta pink, banner dull brownish-pink. Plant non twining. [RC Barneby 18093](#). 5 May 1986. /// DGD: *angustissimus*, en floraison, jgo, go vertes, bon développement hétérophylie, folioles dans partie inférieure de la plante 9-12 mm large, folioles dans la partie supérieure de la plante 2-4 mm large, folioles à la base sont lobées, pas de lobes dans la partie supérieure de la plante. [NY; 10-VI-2003].

Plants of [Arizona](#). Fabaceae. *Phaseolus angustissimus* A. Gray, det. M. Bierner, 1990. Apache County: N of Concho on hwy 180 A, 7.6 mi S of Hwy 180. [34° 29' N. 109° 36' 40"W]. Common at roadside. 11 Jun 1990. [M Bierner 90-41](#). University of Texas Herbarium (LL, TEX). /// DGD: *angustissimus*, 7 racèmes, en floraison, go verte, tiges ascendantes érectes au depart d'une base lignifiée, folioles 23 x 6 mm triangulaires longuement acuminées avec ébauche de petit lobe externe à la base. [TEX; 12-VIII-2008].

Desert Botanical Garden Phoenix, Arizona. *Phaseolus angustissimus* Gray. Locality: Seven Springs Canyon. Maricopa County, [Arizona](#). [33° 59' N. 111° 53' W]. 25 August 1951. Coll. [E R Blackley no. 663](#). /// DGD: *angustissimus*, en floraison. [DES; 11-II-1979].

UC312329. Herbarium of the University of California. [Arizona](#). *Phaseolus angustissimus* Gray. About ½ mi. NE of Window Rock. Altitude 6750 feet. Window Rock. [36°49'N. 109°55'W]. Apache County. [Vorsila L Bohrer 733](#). 8/19/1962 [19 août 1962]. /// *Phaseolus angustissimus* A Gray, det. GF Freytag, 25 Mar 1985. /// DGD: *angustissimus*, en floraison, jgo, 5 racèmes, 2 tiges rampantes à base ligneuse, dimorphisme foliaire avec folioles à la base plus larges et plus petites que dans la partie terminale, avec lobe à peine esquissé à la base des folioles, folioles dans partie supérieure des tiges très étroites et non lobées. [UC; 21-X-2003].

Arizona State University. 288769. Vascular Plant Herbarium. /// Specimen entered in ASU database. /// Plants of Arizona. Fabaceae. *Phaseolus angustissimus* Gray. USA [Arizona](#). Yavapai. Coconino National Forest. Clear Creek Wilderness Area, Forest Service Road 214-A, North Rim, USFS Trial # 31 (Blodgett Basin) from rim (5800 ft.) to stream bottom (3800 ft.). Chaparral, arid grasses, Oak, Pinyon, juniper, cacti. USGS Quad. Walker Mtn, Ariz. Elevation 3800 ft. – 5200 ft. [1,146- 1,569 m]. [Richard Bond 129](#). 29 June 2002 [29 juin 2002]. Arizona State University Herbarium (ASU). /// DGD: *angustissimus*, 1 racème, en floraison. [ASU; 22-IX-2015].

Arizona State University. 288799. Vascular Plant Herbarium. /// Specimen entered in ASU database. /// Plants of Arizona. Fabaceae. *Phaseolus angustissimus* Gray. USA [Arizona](#). Yavapai. Coconino National Forest. Bull Pen Ranch Camp Ground and West Clear Creek Wilderness Trail Head. USFS Trail # 17 (West Clear Creek Trail), West Clear Creek flood plain, north side of stream in open meadow under cottonwood/sycamore canopy. Elevation 3600 ft. [1,086 m]. USGS Quad. Walker Mtn. [Richard Bond 295](#), with Marlene Bond. 16 April 2003 [16 avril 2003]. Arizona State University Herbarium (ASU). /// DGD: *angustissimus*, 10 racèmes, en floraison, jgo. [ASU; 22-IX-2015].

ASU226864. /// Plants of the Santa Teresa Mountains, Graham County, [Arizona](#). Arizona State University. *Phaseolus angustissimus* Gray, det. by: J. Jeremy Buegge. Family: Fabaceae. Loc: BLM wilderness. Preacher Canyon. T6S, R21E, sec 10, NE. E of Dryden's ranch along trail. In rocky wash. Habitat: desert grassland. N aspect. Other spp.: *Prosopis juliflora*, *Quercus turbinella*, *Dasyliirion wheeleri*, *Calliandra eriophylla*. Notes: common. Low spreading herb. Petals magenta, banner cream, keel curled. Coll.: [J Jeremy Buegge 177](#). Date: 20 May 1998 [20 mai 1998]. /// DGD: *angustissimus*, 6 racèmes, en floraison, jgo. [ASU; 22-IX-2015].

ASU229094. /// Plants of the Santa Teresa Mountains, Graham County, [Arizona](#). Arizona State University. *Phaseolus angustissimus* Gray, det. by: J. Jeremy Buegge. Family: Fabaceae. Loc: BLM wilderness. Elev.: 3700 ft. [1,116 m]. Beauchamp Canyon. T6S, R21E, sec 1, N edge, near center. Habitat: desert grassland, near wash. N aspect. Wide canyon bottom. Sandy soils. Hillsides eroded. On rocky wash benches. Partial

shade. Other spp.: *Acacia greggii*, *Mimosa biuncifera*, *Baccharis sarothroides*, *Acacia constricta*, *Hymenoclea*, *Prosopis juliflora*, *Populus*, *Baccharis salicifolia*. Notes: common. Perennial vine, scrambling. Banner and wings pink. Keel curled inward, white and green. Coll.: [J Jeremy Buegge 457](#). Date: 14 August 1998 [14 août 1998]. /// DGD: *angustissimus*, 7 racèmes, en floraison, jgo, go vertes. [ASU; 22-IX-2015].

ASU 231069. /// Plants of the Santa Teresa Mountains, Graham County, [Arizona](#). Arizona State University. *Phaseolus angustissimus* Gray. Family: Fabaceae. Det. by J. Jeremy Buegge. Loc: Coronado National Forest. Elev. 5000 ft. [1,509 m]. Goat Mountain. T7S, R21E, sec1, SE,NE,NW [sic!]. On base of mtn, E side. Habitat: desert grassland. E aspect. 30% slope. Large rocks. Soil gravelly. Burnt in 1994. In drainages and eroding slopes. Other spp.: *Quercus turbinella*, *Morus microphylla*, *Berberis haematocarpa*, *Acacia greggii*, *Agave*, *Dasyllirion*, *Lotus rigidus*, *Bouteloua curtipendula*, *Muhlenbergia*. Notes: common. Perennial vine/decumbent herb. Flowers pink. Collector: [J Jeremy Buegge 854](#). 16 May 1999 [16 mai 1999]. /// DGD: *angustissimus*, 5 racèmes, en floraison. [ASU; 21-IX-2015].

CS80011. /// Mexico and Guatemala, USDA Plant Explorations, Tropical Agriculture Research Station/ARS, USDA, and the University of Puerto Rico, Mayagüez, PR, in collaboration with INIA/SARH, Mexico and ICTA, Guatemala. Grown in screenhouse at Mayagüez, PR from seed of NI 788 (= TARS # 16, collected along roadsides on Sunset Crater Road 1 mi E of visitor center, near Flagstaff, [AZ](#), 2134 m, 8 Aug 1978 by [Buhrow, R. 12=SCAN](#), Sep Dec 1985 as Study Collection, Freytag GF # SC-16 (US, MO, CSU), identified by GF Freytag as *Phaseolus angustissimus* A. Gray. /// DGD: *angustissimus*, 3 racèmes, en floraison, j go, j go en transition à go verte, spécimen pauvre, quatre (4) éophylles pétiolées sont aussi collées sur la planche. [CS; 18-VIII-2008].

MO4924965. Mexico and Guatemala, USDA Plant Explorations, Tropical Agriculture Research Station, ARS, USDA, and the University of Puerto Rico, Mayagüez, PR, in collaboration with INIA/SARH, Mexico and ICTA, Guatemala. Grown in screenhouse at Mayagüez, PR from seed of NI 788 (= TARS # 16, collected along roadsides on Sunset Crater Road 1 mi E of visitor center, near Flagstaff, [AZ](#), [35°36'N. 111°50'W], 2134 m, 8 Aug 1978, by [Buhrow R 12 = SCAN](#)). Sep Dec 1985 as study collection, Freytag GF # SC-16 (US, MO, CSU), *angustissimus*. /// DGD: *angustissimus*, scrappy, un racème + 1 jgo + 1 fleur + 1 feuille ! [MO; 29-V-2002].

113460. Herbarium. Arizona State University. /// United States Department of the Interior. Bureau of Land Management. Range Surveys Herbarium. Collection date: 30 Aug 1978 [30 août 1978]. [[Arizona](#)]. County: Yavapai. Bagdad 15'. *Phaseolus angustissimus* Gray. Locality: lower half of Santa Maria Canyon. 31 SE ¼ 14N 7W. Elev.: 2600' [784 m]. Soil: sandy alluvium. Infrequent. Assoc.: *Baccharis salicifolia*, *Acacia greggii*, *Baccharis sarothroides*, *Petunia parviflora*. Coll.: [M Butterwick](#). No. 4042. Identified by: M. Butterwick, at Phoenix Dist. Off. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 3 racèmes, en floraison, jgo, go vertes, folioles terminales et latérales avec lobation basale externe. [ASU; 22-IX-2015].

113396. Herbarium. Arizona State University. /// United States. Department of the Interior. Bureau of Land Management. Range Surveys Herbarium. Collection Date: 17 May 1979 [17 mai 1979]. [[Arizona](#)]. County: Mohave. Hibernia Peak 7.5'. *Phaseolas* [sic!] *heterophylla* Willd. Along stream at Bull Canyon. Sec. 11SW1/4, 18N, 15W. Elevation: 4400' [1,327 m]. Infrequent. Association: Broadleaf riparian. Coll. [Butterwick/ Hillyard 4910](#). Identified by: Butterwick/ Parfitt at ASU. /// *Phaseolus angustissimus* Gray, det. Mary Butterwick, September 1982. Annotation – Herbarium of Arizona State University. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 6 racèmes, en floraison, tiges ascendantes. [ASU; 21-IX-2015].

114666. Herbarium. Arizona State University. /// United States Department of the Interior. Bureau of Land Management. Range Surveys Herbarium. Collection date: June 14 79 [14 juin 1979]. [[Arizona](#)]. County: Mohave. Mohon Mts. SE 7.5' [sic!]. *Phaseolus angustissimus* Gray var. *latus* Jones. Locality: upper Francis Creek near north boundary of Aquarius Planning Unit. Sec 19 NW ¼ 16 ½ N 10W. Elevation: 3900' [1,177 m]. Infrequent in Chaparral Broadleaf Riparian. Coll.: [Butterwick](#)/ Parfitt. No. 5123. Identified by: Butterwick/ Parfitt, at ASU. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F. Freytag, Dec 2 1991. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 4 racèmes, en floraison, jgo en transition à go verte, go verte. [ASU; 22-IX-2015].

114727. Herbarium. Arizona State University. /// United States Department of the Interior. Bureau of Land Management. Range Surveys Herbarium. Collection date: 11 Aug 79 [11 août 1979]. [[Arizona](#)]. County: Mohave. Hualapai Peak 7.5'. *Phaseolus angustissimus* Gray. Locality: Frees Wash, N side Dean Peak, Hualapai Mts. Sec 16 SW ½ 20 N 15W. Elev.: 7200' [2,173 m]. Infrequent along banks of lower wash. Riparian with Ponderosa pine. Coll.: [Butterwick](#)/ Parfitt. No. 5433. Identified by: Butterwick/ Parfitt, at ASU. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F. Freytag, Dec 2 1991. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 1 racème, en début de floraison, folioles terminales et latérales avec lobation basale externe. [ASU; 22-IX-2015].

125676. Herbarium. Arizona State University. /// United States Department of the Interior. Bureau of Land Management. Phoenix District Herbarium. *Phaseolus angustissimus* Gray var. *latus* Jones. Date: 29 May 1980 [29 mai 1980]. County: Yavapai, [AZ](#). Quad: Yarnell 7.5'. Locality: Upper Antelope Creek, southern Weaver Mts. Sec. 17NW ¼ . TWp. 10N. Rge. 5W. Elev.: 4000' [1,207 m]. Substrate: Quaternary basalt. Abundance & Association: locally common in Riparian with *Juglans major*, *Quercus emoryi*, *Celtis reticulata*, *Salix*. Collector: [Butterwick](#)/ Hillyard 6617. Det.: Butterwick. At: ASU. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F. Freytag, Dec 2 1991. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 7 racèmes, en floraison, jgo, go vertes, hétérophylie, folioles terminales et latérales avec lobation basale externe. [ASU; 23-IX-2015].

35801. Herbarium. Arizona State University. /// Plants of [Arizona](#). Herbarium of Arizona State University. Leguminosae. *Phaseolus wrightii* Gray. County: Yavapai. Location: Milk Creek, Prescott National Forest, 7 miles north of Wagoner. T11N, R2W. Habitat: Pinon – Juniper. Elev. 4000 ft. [1,207 m]. Date: 28-IV-1968 [28 avril 1968]. Coll. [ML Carpenter](#). Det. Elinor Lehto. /// *Phaseolus angustissimus*, det. Nabhan: Buhrow 1984 [sic!]. Annotation - Herbarium of Arizona State University. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F. Freytag, Dec 2 1991. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 6 racèmes, en floraison; pas de numéro de collecte. [ASU; 22-IX-2015].

ASU200265. /// Flora of [Arizona](#). Coconino County. *Phaseolus angustissimus* A. Gray. Coronado Nat'l. Forest, below Sunset Crater Nat'l. Mon., ca ½ mi. N Leupp Rd along FSR 244. Flowers pink-purple. Sage, Ponderosa pine. Black cinder. 6000 ft. [1,810 m]. 12 Sept 1992 [12 septembre 1992]. [Charlotte M Christy 1145](#). Arizona State University Herbarium (ASU). /// DGD: *angustissimus*, 8 racèmes, en floraison, jgo, go vertes. [ASU; 22-IX-2015].

University of Michigan – Herbarium [cachet en relief]. /// Dec 15 1950. /// Plants of the Canyon of the Colorado. Havasupai Canyon, Coconino County, [Arizona](#). [36°12'10"N. 112°42'14"W]. Distributed by the Botanical Garden, University of Michigan. *Phaseolus angustissimus* A. Gray (appr. var. *latus* Jones). [Elzada U Clover](#). No. 706. Det. T.H. Kearney. September 1943. /// California Academy of Sciences. *Phaseolus angustissimus* A. Gray (appr. var. *latus* Jones). Determined by T.H. Kearney. /// The University of Texas Herbarium. *Phaseolus angustissimus* A. Gray, Alfonso Delgado S., 1983. /// Tropical Agriculture Research

Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F Freytag, Jan 29 1988. /// DGD: *angustissimus*, deux fragments de tiges ascendantes seulement volubiles dans partie florifère extrême supérieure, 5 racèmes, en floraison, j go, folioles variables longuement acuminées deltoïdes rhombiques 30-40 mm long 6-10 mm large non lobées. [MICH; 17-IX-2007].

US1887418. /// United States National Museum. /// Plants of the Canyon of the Colorado. Havasupai Canyon, Coconino County, [Arizona](#). [36° 15' N. 112° 40' W]. Distributed by the Botanical Garden, University of Michigan. *Phaseolus angustissimus* A. Gray. appr. var. *latus* Jones. In fields. [Elzada U Clover](#). No. 7069. Det. TH Kearney. 7 September 1943. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, 4 racèmes, en début de floraison, tige ascendante non volubile. [US; 1-IX-2009].

Arizona State University. 288907. Vascular Plant Herbarium. /// Specimen entered in ASU database. /// ASU Vascular Plant Herbarium. Specimen image number barre code ASU0080134. /// Flora of the Upper Verde River, Yavapai County, [Arizona](#), USA. Fabaceae. *Phaseolus angustissimus* Gray. 34° 51.778 N, 112° 4.604 W; 3556 ft., 1080 m elevation. Near confluence of Verde River with Sycamore Creek; ca 6.5 mi E of Clarkdale. Cobbly secondary/ historic channel of Sycamore Creek in open sun with *Platanus wrightii*, *Prosopis velutina*, *Populus fremontii*, *Alnus oblongifolia*, *Acacia greggii*, *Mimosa biuncifera*, *Ceanothus greggii*, *Ziziphus obtusifolia*, *Celtis reticulata*, *Frangula californica*, *Fraxinus velutina*, *Chilopsis linearis*, *Baccharis sarothroides*, *Forestiera pubescens*, *Quercus turbinella*, *Rhus aromatica*, *Toxicodendron radicans*, *Vitis arizonica*, *Berberis haematocarpa*, *Brickellia californica*, *Brickellia floribunda*, *Gutierrezia sarothrae*, *Cylindropuntia whipplei*, *Opuntia phaeacantha*, *Opuntia engelmannii*, *Maurandella antirrhiniflora*, *Ipomopsis aggregata*, *Ipomopsis multiflora*, *Penstemon rostriflorus*, *Phaseolus angustissimus*, *Linaria dalmatica*, *Bouteloua barbata*, *Setaria pumila*, *Echinocloa crus-galli*, *Aristida purpurea*, *Eragrostis cilianensis*, *Eragrostis intermedia*, *Aristida ternipes*, *Cyperus retroflexus*, *Pinus edulis*, *Physalis hederifolia*, *Melilotus albidus*, *Sarcostemma cynanchoides*, *Mirabilis albidus*, *Sporobolus cryptandrus*, *Sporobolus contractus*, *Pseudognaphalium canescens*, *Hesperidanthus linearifolius*, *Mirabilis coccinea*. Trailing perennial; frequent in cobbly floodplains. 3 August 2012 [3 août 2012]. [Frankie S Coburn 867](#), with Brenton Scott and Elizabeth Makings. Arizona State University Herbarium (ASU). /// DGD: *angustissimus*, un seul racème, en tt début de floraison. [ASU; 22-IX-2015].

Arizona State University. 287209. Vascular Plant Herbarium. /// Specimen entered in ASU database. /// Flora of the Upper Verde River, Yavapai County, [Arizona](#), USA. Fabaceae. *Phaseolus angustissimus* Gray. 34° 53.494' N, 112° 19.782 W; 4129 ft., 1260 m elevation. Granitic soils on hillsides along Upper Verde River. 0.3 mi downstream from Rio Verde Ranch and FR 635. Ca 8 mi E of Paulden. Growing in coarse granitic soils in washes and rocky granite outcrops with *Juniperus osteosperma*, *Forestiera pubescens*, *Quercus turbinella*, *Purshia stansburiana*, *Rhus aromatica*, *Bouteloua curtipendula*, *Bouteloua gracilis*, *Aristida purpurea*, *Sporobolus cryptandrus*, *dasyochloa pulchella*, *Xanthisma gracilis*, *Chamaesyce revoluta*, *Chamaesyce serpyllifolia*, *Dalea brachystachys*, *Gutierrezia sarothrae*, *Artemisia ludoviciana*, *Lotus rigidus*, *Penstemon barbatus*, *Eriogonum wrightii*, *Nolina microcarpa*, *Brickellia californica*, *Chamaecrista nictitans*. Frequent climbing vine. [Frank S Coburn 1162](#). 3 September 2012. Arizona State University Herbarium (ASU). /// DGD: *angustissimus*, 4 racèmes, en floraison, jgo. [ASU; 22-IX-2015].

Arizona State University (ASU). Code barre. 291509. Vascular Plant Herbarium. /// ASU Vascular Plant Herbarium. Specimen Image Number code barre. ASU0082306. /// Flora of the Upper Verde River. Yavapai County, [Arizona](#), USA. Fabaceae. *Phaseolus angustissimus* Gray. 34° 53.827 N, 112° 12.153W; 3826 ft, 1170 m elevation. Verde River at Perkinsville; ca. 200 m downstream from the bridge. Open floodplain in cobble, gravel and sand with *Populus fremontii*, *Brickellia floribunda*, *Chilopsis linearis*, *Bouteloua curtipendula*, *Boerhavia coccinea*, *Prosopis velutina*, *Fallugia paradoxa*, *Phaseolus angustissimus*, *Phaseolus acutifolius*, *Ipomoea cristulata*, *Sporobolus cryptandrus*, *Sporobolus contractus*, *Datura wrightii*, *Chloris virgata*, *Xanthium strumarium*, *Gutierrezia sarothrae*, *Amaranthus palmeri*, *Verbascum*, *Thapsus*,

Chenopodium fremontii, *Hymenothrix loomisii*, *Bouteloua aristidoides*, *Bouteloua barbata*, *Aristida adsensionis*, *Botriochloa laguroides*, *Mentzelia multiflora*, *Chamaesyce hyssopifolia*, *Chamaesyce serpyllifolia*, *Erigeron divergens*, *Senecio flaccidus*, *Brickellia eupatorioides* var. *chlorolepis*, *Artemisia dracuncululus*, *Kochia scoparia*. Frequent spreading perennial vine; growing low, along ground. [Frankie S Coburn 1489](#). 2 October 2012 [2 octobre 2012]. Arizona State University Herbarium (ASU). /// DGD: *angustissimus*, 7 racèmes, en floraison, jgo, go vertes, base de tige lignifiée diam. 5 mm. [ASU; 22-IX-2015].

35709. Herbarium. Arizona State University. /// Desert Botanical Garden of Arizona. Family Leguminosae. Collection date: 10 Sept. 1935. *Phaseolus angustissimus* Gray. Altitude 5900'. Locality: Strawberry Hill, Mogollon Rim north of Pine, Gila County, [Arizona](#). Cover type; Ponderosa pine. Coll.: [Rose E Collom 415](#). Checked by CV Morton, US Natl. Herbarium. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F. Freytag, Dec 2 1991. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 7 racèmes, en floraison, jgo, jgo en transition à go verte. [ASU; 22-IX-2015].

Desert Botanical Garden Phoenix, Arizona. *Phaseolus angustissimus* Gray. Altitude 5900' [1,780 m]. Locality: Strawberry Hill, Mogollon Rim, north of Pine. Gila County, [Arizona](#). [34° 24' N. 111° 29' W]. September 10, 1935 [10 septembre 1935]. Coll. [Rose Collom no. 415](#). /// DGD: *angustissimus*, en go sèches. [DES; 11-II-1979].

US1828666. /// United States National Museum. /// Plants of [Arizona](#). *Phaseolus angustissimus* Gray ? Vicinity of Cemetery, Grand Canyon Nat'l Park, S Rim. [36° 03'45"N. 112° 12'40"W]. Alt. 7000 ft. [2,130 m]. 6/25/42 [25 juin 1942]. No. [1256](#). Mrs. [Rose E Collom](#), collector. /// United States National Herbarium. *P. angustissimus* Gray, det. Oliver W. Norvell, 11/29/49 [29 novembre 1949]. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, 5 racèmes, en floraison, jgo, spécimen pauvre. [US; 31-VIII-2009].

US1787991. Herbarium of University of Utah. *Phaseolus parvulus* Greene. Dry volcanic shale. Rim of Grand Canyon. South of Mt. Trumbull, Mohave Co., [Arizona](#). [36° 24' 40"N. 113° 08' 20"W]. Collector: [WP Cottam](#). Date 6/11/32 [11 juin 1932]. No. [5375](#). Det. W.P. Cottam. /// United States National Herbarium. *P. angustissimus* Gray var. [sic !], det. Oliver W. Norvell, 11/30/49 [30 novembre 1949]. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, 2+2 racèmes, en floraison; deux fragments de plantes avec une petite tige ascendante chacune; l'absence de lobation des folioles et le pédicelle égale ou plus long que le calice permet d'écarter *parvulus*. [US; 31-VIII-2009].

University of Utah Herbarium. Plants of Arizona. *Phaseolus angustissimus* var. *latus* Jones. Cinder cones, 5 mi W of Nixon Spring. USA, [Arizona](#), Mohave Co. [36°40'N. 113°14'W]. Elev. 6,500 ft [1,980 m]. 6/15/1941 [15 juin 1941]. Coll. [WP Cottam no. 8716](#). Det. W.P. Cottam. /// DGD: *angustissimus*, en floraison, jgo, 2 fragments de plante, 4 + 4 racèmes. [x 2]. [SI; 14-III-1985].

US2215565. University of Utah Herbarium. Plants of [Arizona](#). *Phaseolus angustissimus* Gray var. *latus* M.E. Jones. Dry cinders, east base of Vulcan's Throne, Grand Canyon Nat'l Monument, Toroweap, Mohave Co. [36° 13' 10"N. 113° 04' 40"W]. Elev. 4,300 ft. [1,310 m]. 5/11/52 [11 mai 1952]. Coll. [WP Cottam](#). No. [13262](#). Det. W.P. Cottam. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, plus de 12 racèmes, en floraison, jgo, base de plante avec rosette de tiges ascendantes. [US; 31-VIII-2009].

US2215587. University of Utah Herbarium. Plants of [Arizona](#). *Phaseolus angustissimus* Gray var. *latus* M.E. Jones. Juniper assoc. Junction of Bob Sullivan's Ranch road Mt Trumbull. Grand Canyon Nat'l. Monument.

Toroweap, Mohave Co. 6,500 ft. [1,980 m]. 6/13/1954 [13 juin 1954]. Coll. [WP Cottam](#). No. 13958. Det. W.P. Cottam. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, 8 racèmes, en floraison, jgo, jgo en transition à go verte, folioles terminales et latérales avec esquisse de lobe rond externe à la base, plutôt petites 22x14 mm. [US; 31-VIII-2009].

MO1731217. Coue's Collections, No. [blanc] *Ph. angust.* Fort Whipple. [34° 33'N. 112° 27'W]. [Yavapai Co.]. Aug. 22, 64 [22 août 1864]. [Elliot Coues](#). /// Missouri Botanical Garden. *Phaseolus angustissimus* A. Gray. Fort Whipple, [Arizona](#). Aug. 22, 1864. /// The University of Texas Herbarium. Systematic Revision of *Phaseolus*. *Phaseolus angustissimus* A. Gray. Alfonso Delgado S. 1985. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray. Det. George F. Freytag, Jun 23 1986. /// DGD: *angustissimus*, 2 racèmes, en floraison, folioles terminales et latérales avec esquisse de lobation à la base; pas de numéro de collecte. [MO; 21-VI-2013].

MO1731214. Drs. [Elliot Coues](#) and Edward Palmer, No. 107. Fort Whipple, [Arizona](#), 1865. [34° 33'N. 112° 27'W]. [Yavapai Co.]. Aug. 6 [6 août 1865]. *Phaseolus angustissimus* Gray. Rocky hillsides and sandy places by creek, trailing many yards. Fl yellow and pink. /// Missouri Botanical Garden. /// The University of Texas Herbarium. Systematic Revision of *Phaseolus*. *Phaseolus angustissimus* A. Gray. Alfonso Delgado S. 1985. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray. Det. George F. Freytag, Jun 23 1986. /// DGD: *angustissimus*, 2 racèmes dénudés, poils uncinulés, hétérophylle. [MO; 21-VI-2013].

UC183448. 274. Herbarium [A Davidson MD](#). *Phaseolus angustissimus*. Coronado, Clifton. [33°10'N. 109°30'W]. 1887. /// *Phaseolus angustissimus* A Gray, det. GF Freytag, 25 Mar 1985. /// DGD: *angustissimus*, en floraison, go vertes, 1 go sèche, 5 racèmes, tiges rampantes, folioles longues 5 cm long et très étroites 2-3 mm large, non lobées. [UC; 21-X-2003].

ASU259251. /// Plants of Arizona. Flora of Seven Springs. Arizona State University. *Phaseolus angustissimus* Gray. Family: Leguminosae. Arizona, Maricopa Co.; Tonto National Forest. On FS Road 1100, off of Seven Springs Road about 1.1 miles north of town of Camp Creek, N33° 55.697', W111° 48.914'. Habitat: Chaparral. Elevation: 3590 ft. [1,083 m]. Notes: perennial vine with purple flowers growing on *Cylindropuntia acanthocarpa*. Collected by: [Shannon Doan 254](#). 19 Sep 1999 [19 septembre 1999]. /// DGD: *angustissimus*, 3 racèmes, en floraison, jgo. [ASU; 22-IX-2015].

ASU259262. /// Plants of Arizona. Flora of Seven Springs. Arizona State University. *Phaseolus angustissimus* Gray. Family: Leguminosae. [Arizona](#), Maricopa Co.; Tonto National Forest. Along Cave Creek at junction with Seven Springs road, N33° 57.887', W111° 51.747'. Habitat: Riparian. Elevation: 3360 ft. [1,014 m]. Associated spp: *Fraxinus velutina*, *Populus fremontii*, *Platanus wrightii*, *Salix laevigata*. Notes: vining perennial herb growing in sandy soil. Collected by: [Shannon Doan 340](#), with Amy Trauth-Nare. 6 Aug 2000 [6 août 2000]. /// DGD: *angustissimus*, 5 racèmes, en floraison. [ASU; 22-IX-2015].

Arizona State University (ASU) code barre 259650. Vascular Plant Herbarium. /// Plants of Arizona. Flora of Seven Springs. Arizona State University. *Phaseolus angustissimus* Gray. Family: Leguminosae. [Arizona](#), Maricopa Co.; Tonto National Forest. Growing along perennial stream in Seven Springs Wash upstream from Seven Springs campground, N33° 57.765', W111° 51.669'. Habitat: riparian. Elevation: 3360 ft. (1024 m). Associated spp.: *Parthenocissus inserta*, *Populus fremontii*, *Celtis reticulata*, *Quercus turbinella*, *Juniperus coahuilensis*, *Salix* sp., *Schoenoplectus* sp. Notes: perennial vining herb with pink-purple flowers. Occasional along stream. Collected by: [Shannon Doan 761-b](#), with DZ Damrel. 29 May 2001 [29 mai 2001]. /// DGD: *angustissimus*, 3 racèmes, en floraison, jgo, go verte. [ASU; 22-IX-2015].

Arizona State University (ASU). Code barre 260200. Vascular Plant Herbarium. /// Plants of [Arizona](#). Flora of Seven Springs. Arizona State University. *Phaseolus angustissimus* Gray. Family: Leguminosae. Arizona,

Maricopa Co.; Tonto National Forest. Along Cave Creek in Seven Springs wash, N 33° 57.855', W 111° 51.73'. Habitat: Chaparral. Elevation: 3300 ft. (1,006 m). Associated spp: *Platanus wrightii*, *Populus fremontii*, *Salix laevigata*, *Rhamnus californica*, *Fraxinus velutina*. Notes: perennial vine with purple flowers. Abundant along stream. Collected by: [Shannon Doan 875](#), with: LR Landrum and Liz Makings. 3 August 2001. /// DGD: *angustissimus*, 6 racèmes, en floraison. [ASU; 23-IX-2015].

Oxford University Herbaria. Daubeny Herbarium (FHO). Dept. of Plant Sciences. 010003 [cachet à l'encre noire]. /// Plants of Arizona. Flora of Seven Springs. Arizona State University. *Phaseolus angustissimus* Gray. Family Leguminosae. [Arizona](#), Maricopa County; Tonto National Forest. Along Cave Creek in Seven Springs wash. N 33° 57 855', W 111° 51 73'. Habitat: chaparral. Elevation 3300 ft [1,005 m]. Associated spp.: *Platanus wrightii*, *Populus fremontii*, *Salix laevigata*, *Rhamnus californica*, *Fraxinus velutina*. Notes: perennial vine with purple flowers. Abundant along stream. Collected by [Shannon Doan 875](#). 3 August 2001 [3 août 2001]. with LR Landrum and Liz Makings. /// DGD: *angustissimus*, 5 racèmes, en floraison, j go, go vertes, tige rampante ascendante. [FHO; 31-I-2007].

UCR162119. /// Plants of [Arizona](#). Flora of Seven Springs. Arizona State University. *Phaseolus angustissimus* Gray. Family Leguminosae. Arizona, Maricopa County; Tonto National Forest. Along Cave Creek in Seven Springs wash. N 33° 57 855', W 111° 51 73'. Habitat: chaparral. Elevation 3300 ft [1,006 m]. Associated spp.: *Platanus wrightii*, *Populus fremontii*, *Salix laevigata*, *Rhamnus californica*, *Fraxinus velutina*. Notes: perennial vine with purple flowers. Abundant along stream. Collected by [Shannon Doan 875](#). 3 August 2001. with: LR Landrum and Liz Makings. /// Specimen data entered into UCR database. /// DGD: *angustissimus*, 2 racèmes, en floraison, tige non volubile, folioles étroites les latérales avec esquisse de lobe basal. [UCR; 18-VIII-2014].

Herbarium of the Pomona College 348548. /// Herbarium of the Allan Hancock Foundation 42995. Cancelled. /// Herbarium of M.B. Dunkle. Plants of [Arizona](#). *Phaseolus*. Date 6/30/37 [30 juin 1937]. No. [5033](#). Elev. [blanc]. Hab. 1 mi. N Prescott. [34°33'30"N. 112°28'W]. [Yavapai County]. Loc. California deserts [sic!]. Collected by [M B Dunkle](#). /// DGD: *angustissimus*, 4 racèmes, en floraison, j go, tige rampante ascendante non volubile, folioles terminales et latérales avec petit lobe rond à la base. [POM; 4-XI-2010].

Herbarium. University of Missouri. *Phaseolus angustissimus* Gray. coll. ca 1 mi W of Sunset Crater about 14 mi NNE of Flagstaff, [Ariz.](#) Off Hwy 89. [35°36'N. 111°50'W]. Dry sparse Yellow Pine forest with a scattering of scrubby oaks, prostrate vine. Coll. [DB Dunn](#). State: Arizona, County: Coconino. no. [12647](#). Date: Aug. 16, 1957 [16 août 1957]. Elev. 7000 ft. [2,130 m]. /// 19102 [DGD: écrit en travers avec une autre écriture, encre différente]. /// DGD: *angustissimus*, en floraison, plus de 13 racèmes, tiges rampantes courbées seulement dans parties terminales. [BRIT; 23-II-2002].

California Academy of Sciences. Flora of [Arizona](#). Apache Trail and adjacent region. *Phaseolus dilatatus* Woot. & Standl.. On road from Payton (?) [Payson] to Prescott. [34°30'N. 111°34'W]. [Gila County]. Coll. [Alice Eastwood 17612](#). June 1, 1929. /// *Phaseolus angustissimus* A Gray, det. JA Lackey, Apr. 1980. /// DGD: *angustissimus*, en floraison, jgo, 8 racèmes, folioles de taille intermédiaire, légèrement lobées. [NY; 10-VI-2003].

US1489061. /// United States National Museum. /// California Academy of Sciences. Flora of [Arizona](#). Apache Trail and adjacent region. [17612](#). *Phaseolus dilatatus* Woot. & Standl. On road from Payson to Prescott. Coll. [Alice Eastwood](#). June 1, 1929 [1^{er} juin 1929]. /// *Phaseolus angustissimus* var. *dilatatus*, déterminé A. Delgado S., 1977. Colegio de Postgraduados, Chapingo, México, MEXICO. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, 7 racèmes, en début de floraison, qq folioles terminales et latérales avec ébauche de lobe basal externe. [US; 1-IX-2009].

US1112885. /// United States National Museum. Deposited by the U.S. Department of Agriculture. /// Plants of [Arizona](#). *Phaseolus*. Martin Buggelin's Ranch. Grand Canyon to Grand View, Coconino County. No. 15695. [WW Eggleston](#), collector. 2,080-2,150 meters. Aug. 25, 1919 [25 août 1919]. /// *P. angustissimus* var. *dilatatus* (W. & S.) (THK [= T.H. Kearney]) [écrit au crayon noir sur la planche]. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, 7 racèmes, en floraison, jgo, jgo en transition à go verte, go vertes à stries violettes, go sèche, qq folioles latérales avec petit lobe rond externe à la base. [US; 31-VIII-2009].

Desert Botanical Garden, Phoenix, Arizona. Ref. K&P Ariz. Flora, family Leguminosae, vol. & page 1964 ed. p. 484. Collection date: 26 August 1973. Botanical name: *Phaseolus angustissimus* A Gray. Locality: Rackinsack [Rackensack] Canyon, Seven Springs road, Maricopa County, [Arizona](#). [33°55'N. 111°55'W]. One plant growing in arroyo bottom. Coll.: [Rodney G. Engard no. 102](#). /// DGD: *angustissimus*, en floraison, go vertes, 4 racèmes, fort développement de l' hétérophylie, folioles vers la base de la plante avec lobe comme un doigt à angle droit, dans partie supérieure folioles très étroites sans lobulation. [NY; 10-VI-2003].

Desert Botanical Garden, Phoenix, Arizona. Botanical name: *Phaseolus angustissimus* A Gray. Locality: half mile west of springs in Seven Springs Wash. 27 April 1974. Maricopa County, [Arizona](#). [33°59'N. 111°53'W]. Coll.: [Rodney G. Engard no. 196](#). /// DGD: *angustissimus*, en floraison. [DES; 11-II-1979].

Desert Botanical Garden, Phoenix, Arizona. Botanical name: *Phaseolus angustissimus* A Gray. Locality: Willow Spring Trail, Bloody Basin. Yavapai County, [Arizona](#). [34°13'N. 111°48'W]. September 7, 1974. Coll.: [Rodney G. Engard no. 375](#). /// DGD: *angustissimus*, en floraison. [DES; 11-II-1979].

31871. Plants of [Arizona](#). *Phaseolus angustissimus* A.Gray, det. Alfonso Delgado S., 1983. Coconino Co.: Schultz Pass road ca ½ miles E of US 180, south side San Francisco Mountains N of Flagstaff, T22N R7E, elev ca 7600 ' [sic!; 2,315 m]. [35°28'N. 111°40'W]. Steep bare slope along road, in sun. Trailing herb, petals pink. [Barbara Erter 4970](#) with Jeffrey L. Strachan. 25 July 1983. University of Texas at Austin. /// DGD: *angustissimus*, 2 tiges droites probablement rampantes ou ascendants, en floraison, folioles étroites 29x6 mm qq terminales et latérales avec esquisse de lobation basale. [ANSM; 13-XII-2011].

131436. Herbarium. Arizona State University. /// Plants of [Arizona](#). *Phaseolus angustissimus* A. Gray, det. by A. Delgado S., 1983. Coconino Co.: Schultz Pass road ca 2 ½ miles E of US180, south side San Francisco Mountains N of Flagstaff, T22N R7E, elev ca 7600'. Steep bare slope along road, in sun. Trailing herb, petals pink. [Barbara Erter 4970](#), with Jeffrey L Strachan. 25 July 1983. University of Texas at Austin. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F. Freytag, Dec 2 1991. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 6 racèmes, en floraison, jgo en transition à go verte, hétérophylie, quatre tiges florifères au départ d'une tige lignifiée diam 4 mm. [ASU; 22-IX-2015].

Plants of [Arizona](#). *Phaseolus angustissimus* Gray, det. by A Delgado S., 1983. Coconino Co.: Schultz Pass road ca 2 ½ miles E of US 180, south side San Francisco Mountains N of Flagstaff. T22N R7E. [35°28'N. 111°40'W]. Elev ca 7600' [2,315 m]. Steep bare slope along road, in sun. Trailing herb, petals pink. [Barbara Erter 4970](#), [Jeffrey L Strachan](#). 25 July 1983. University of Texas at Austin. /// DGD: *angustissimus*, en floraison, jgo, 12 racèmes, bon développement hétérophylie, folioles dans partie inférieure de la plante plus larges avec lobe latéral, folioles dans la partie supérieure de la plante peu ou pas lobées et très étroites. [NY; 10-VI-2003].

Plants of [Arizona](#). *Phaseolus angustissimus* A.Gray, det. Alfonso Delgado S., 1983. Coconino Co.: Schultz Pass road ca ½ miles E of US 180, south side San Francisco Mountains N of Flagstaff, T22N R7E, elev ca 7600 ' [sic!; 2,315 m]. [35°28'N. 111°40'W]. Steep bare slope along road, in sun. Trailing herb, petals pink. [Barbara Erter 4970](#) with Jeffrey L. Strachan. 25 July 1983 [25 juillet 1983]. University of Texas at Austin.

/// The University of Texas Herbarium. Systematic Revision of Phaseolus. *Phaseolus angustissimus* A.Gray, Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS, USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A.Gray. Det. George F. Freytag, May 26, 1988. /// DGD: *angustissimus*, 7 racèmes, en floraison, j go, go vertes, tige ascendante avec base lignifiée, hétérophylie, folioles latérales et terminales avec ébauche de lobe externe à la base. [TEX; 12-VIII-2008].

ASU157386. /// Plants of [Arizona](#). Herbarium of Arizona State University. *Phaseolus angustissimus* Gray var *angustissimus*. Gila Co.: Pinal Mountains, South-central Arizona, south of the town of Globe. Along FS Road 580 to Madera Peak. Habitat: oak-pine. Elev. ca. 6300' [1,901 m]. 21-IX-1980 [21 septembre 1980]. Coll.: [S Forbes 1495](#). /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F. Freytag, Dec 2 1991. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 6 racèmes, en floraison, jgo, go vertes. [ASU; 22-IX-2015].

ASU157445. /// Herbarium of Arizona State University. Plants of [Arizona](#). *Phaseolus acutifolius* Gray var. *tenuifolius* gray. Gila Co.: Pinal Mountains, South-central Arizona, south of the town of Globe. East Mountain Trail, to Bearpaw Springs. Habitat: Oak-pine zone, with manzanita and *Ceanothus fendleri*. Elev. ca 6400' [1,931 m]. 6-VII-1981 [6 juillet 1981]. Collector: [S Forbes 1631](#). /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F. Freytag, Dec 2 1991. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 7 racèmes, en floraison, forte hétérophylie. [ASU; 22-IX-2015].

ASU157447. /// Plants of [Arizona](#). Herbarium of Arizona State University. *Phaseolus angustissimus* Gray var *latus* Jones. Gila Co.: Pinal Mountains, South-central Arizona, south of the town of Globe. Pioneer Pass Recreation Area, off FS Road 112. Habitat: Riparian area, cutting through Ponderosa pine zone, with *Juglans major*, *Acer negundo*, *Platanus wrightii*, and *Vitis arizonica*. Bright pink flowers. Elev. ca. 5600-5900' [1,690 -1,780 m]. 19-VI-1982 [19 juin 1982]. Coll.: [S Forbes 1759](#). /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F. Freytag, Dec 2 1991. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 5 racèmes, en floraison, jgo en transition à go verte, go vertes, hétérophylie, deux tiges florifères au départ d'une tige lignifiée diam. 3.5 mm. [ASU; 22-IX-2015].

R354283. Mohave Co., [Arizona](#), USA. *Phaseolus angustissimus* A Gray. T35N R7W S19NW E slope of Mt Trumbull, pinyon juniper oak brush community on volcanic soils. [36°41'N. 113°13'W]. Elevation 1700 m. [B Franklin & D Atwood 7593](#). 18 May 1993. Herbarium of Brigham Young University, Provo, Utah. /// DGD: *angustissimus*, début floraison, plus de 12 racèmes, base de la tige ligneuse diam. 1 cm, feuilles du type *latus* peu lobées dans parties supérieures. [NY; 9-VI-2003].

US1468344. /// United States National Museum. Deposited by the U.S. Department of Agriculture. /// Plants of [Arizona](#). *Phaseolus angustissimus* Gray (*P. dilatatus* W. & S.). Upper Oak Creek near Flagstaff. [34° 54'45"N. 111° 43'40"W]. # [7172](#). [HJ Fulton](#). June 1/30 [1^{er} juin 1930]. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, 7 racèmes, en floraison, jgo, hétérophylie, plusieurs folioles terminales et latérales avec esquisse de lobation à la base. [US; 1-IX-2009].

US2098830. /// United States National Museum. /// Herbarium of the Soil Conservation Service. U.S. Department of Agriculture. Collector's No. [109](#). Date July 22, 1953 [22 juillet 1953]. *Phaseolus angustissimus* Gray. [Arizona](#). Cochise. Loc: on a high bar in Walnut Wash 1 mile N of Tombstone. [31° 42'50"N. 110° 04'W]. Alt. 4250 feet [1,295 m]. Fresh flowers pinkish. Coll. [JL Gardner](#) & JE Fletcher. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, 2 racèmes, en floraison, spécimen pauvre. [US; 1-IX-2009].

US2098878. /// United States National Museum. /// Herbarium of the Soil Conservation Service. U.S. Department of Agriculture. Collector's N°. 184. Date August 5, 1953 [5 août 1953]. *Phaseolus angustissimus* Gray. [Arizona](#). Cochise. Loc: 1 3/8 miles NNE of Tombstone on rocky wash-bank. [31° 42'50"N. 110° 03' 45"W]. Alt. 4300 feet [1,310 m]. Flowers light rose pink. Coll. [JL Gardner](#) & JE Fletcher. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// DGD: *angustissimus*, 2 racèmes, en go vertes, spécimen touffu. [US; 1-IX-2009].

US2098898. Herbarium of the Soil Conservation Service. U.S. Department of Agriculture. Collector's No. 218. Date August 5, 1953 [5 août 1953]. *Phaseolus angustissimus* Gray. [Arizona](#). Cochise. Loc: on bar in Walnut Wash 1 mile N of Tombstone. [31° 42'50"N. 110° 04'W]. Alt. 4250 feet [1,295 m]. Fresh flowers approximately salmon pink. Coll. [JL Gardner](#) & JE Fletcher. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 1 Apr 1985. /// DGD: *angustissimus*, 3 racèmes, en floraison, go vertes, bases des tiges lignifiées, racine cylindrique lignifiée, rosette de tiges ascendantes, spécimen très touffu avec peu de parties fertiles. [US; 1-IX-2009].

The University of Michigan – 1817 – Artes Scientia Veritas [cachet à l'encre noire]. /// Jun 01 1990. /// Plants of [Arizona](#). Collection of [Howard Scott Gentry](#). Determined by [blanc]. *Phaseolus* af. *angustissimus* Gray [sic!]. No. 3905. Locality White Mountains, along Showlow - Springerville highway [Apache County], [34°12'N. 109°40'W], Septemebr [sic!; ? septembre 1938], 1938. Habitat Oak-Juniper & Pine forests, 6000-7500 feet [1,820-2,280 m]. Vernacular Per. scandent bush, fls lavender. /// DGD: *angustissimus*, deux fragments de tiges ascendantes non volubiles, 6 racèmes, en floraison, j go, j go en transition à go vertes, folioles longues étroites 80 mm long 3-4 mm large non lobées. [MICH; 17-IX-2007].

The University of Michigan – 1817 – Artes Scientia Veritas [cachet à l'encre noire]. /// Jun 01 1990. /// Plants of [Arizona](#). Collection of [Howard Scott Gentry](#). Determined by [blanc]. *Phaseolus*. No. 3921. Locality Richville Valley. [Apache County]. [34°17'10"N. 109°21'19"W]. August, 1937 [? août 1937]. Habitat Sedimentary badlands. Vernacular Procumbent per. from horizontal rootstock; fls pink, keel curved; leaves succulent. /// DGD: *angustissimus*, en floraison, 10 racèmes, tige ascendante non volubile partant d'une base de tige/ racine lignifiée 9 mm diam., folioles variables de triangulaires rhombiques longuement acuminées à très étroites avec ébauche de lobe basal. [MICH; 18-IX-2007].

US Natl Arb 92172. /// Herbarium of the Soil Conservation Service. US Department of Agriculture. Collector's No.: [A 9466](#). 9/20/38 [20 septembre 1938]. *Phaseolus angustissimus* Gray. [Arizona](#). County: [espace blanc; Maricopa]. Loc: Salt River crossing Hy. 60 Ariz. [33°41'N. 111°50'W]. Soil loose, volcanic. A long trailing vine. [Leslie N. Goodding](#). /// 4133 [écrit à l'encre noire]. /// Poisoned [cachet à l'encre noire]. /// DGD: *angustissimus*, partie aérienne de plante avec base lignifiée, 8 racèmes, en floraison, go vertes, go sèches, graines rugueuses, 3 graines par go. [NA; 17-VII-2006].

Plants of [Arizona](#). *Phaseolus angustissimus* Gray. Salt River Crossing highway no. 60. [33°41'N. 111°50'W]. Sept 20, 1938. A trailing vine. No. [A 9466](#). [L N Goodding](#). /// ANSPHILA [cachet perforé]. /// 810206 [numéro à l'encre noire]. /// DGD: *angustissimus*, 6 racèmes en floraison, j go, go vertes, go sèches, tige robuste ascendante, folioles linéaires quelques unes avec petit lobe basal. [PH; 13-IX-2007].

University of Michigan – Herbarium [cachet en relief]. /// Plants of [Arizona](#). No. 1293. *Phaseolus dilatatus* Woot. and Standl. Beside road, 10 mi S of Black River, White Mts. [33°30'N. 109°50'W]. [Graham County]. Collected by [G J Goodman](#), [C L Hitchcock](#). Alt. 6200 [1,890 m]. Date 6/22, 1930. /// The University of Texas Herbarium. *Phaseolus angustissimus* A. Gray, Alfonso Delgado S., 1983. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F Freytag, Jan 29 1988. /// DGD: *angustissimus*, tige ascendante non volubile, 4 racèmes, en floraison, j go, j go en transition à go vertes, folioles variables certaines triangulaires et longuement

acuminées, d'autres linéaires étroites avec lobe basal externe 30-70 mm long 4-7 mm large. [MICH; 17-IX-2007].

MIN279893 /// Plants of [Arizona](#). No. 1293. *Phaseolus dilatatus* Woot. and Standl.. Beside road, 10 mi S of Black R.[iver], White Mts[mountains]. Alt. 6200'. Collected by [GJ Goodman](#), CL Hitchcock. Date 6/22, 1930. /// DGD: *angustissimus*, 4 racèmes, en floraison, jgo, folioles de traingulaires petites à étroites et acuminées, avec lobation à la base. [MIN; 16-IV-2010].

MO990992. PLANTS OF [ARIZONA](#). No. 1293. *Phaseolus dilatatus* Woot. & Standl. Beside red [sic!], 10 mi. S of Black R., White Mts. Collected by [GJ Goodman](#), CL Hitchcock. Alt. 6200'. Date 6/22, 1930. /// The University of Texas Herbarium. Systematic Revision of *Phaseolus*. *Phaseolus angustissimus* A. Gray. Alfonso Delgado S. 1985. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray. Det. George F. Freytag, Jun 23 1986. /// DGD: *angustissimus*, 2 racèmes, en floraison, hétérophylie, folioles latérales avec lobe basal et esquisse de lobation sur les terminales. [MO; 21-VI-2013].

Plants of [Arizona](#). No. 1293. *Phaseolus dilatatus* Woot. & Standl.. Beside road, 10 mi S of Black River, White Mts. [33°30'N. 109°50'W]. [Graham County]. Collected by [GJ Goodman](#) & [CL Hitchcock](#). Altitude 6200' [1,890 m]. Date 6/22, 1930 [22 juin 1930]. /// *Phaseolus angustissimus* A Gray, det. JA Lackey, April 1980. /// DGD: *angustissimus*, en floraison, jgo, 5 racèmes, folioles de taille intermédiaire à allongée, et lobées à la base. [NY; 10-VI-2003].

Acquis par échange avec Missouri Bot. Gard. 1949. Plants of [Arizona](#). No. 1293. *Phaseolus dilatatus* Woot. and Standl.. beside road, 10 miles S of Black R. White Mts. [33°30'N. 109°50'W]. [Graham County]. Collected by [GJ Goodman](#) [CL Hitchcock](#). Alt. 6200 '. Date 6/22 1930. /// DGD: *angustissimus*, 5 racèmes, en floraison, go vertes, qq folioles latérales et terminales avec un lobe basal. [P; 10-II-2004].

Plants of [Arizona](#). No. 1293. *Phaseolus dilatatus* Woot. and Standl. Beside road, 10 mi S of Black R., White Mts. Collected by [G J Goodman](#), [C L Hitchcock](#). [33°30'N. 109°50'W]. Alt 6200'. Date 6/22, 1930 [22 juin 1930]. /// ANSPHILA [cachet perforé]. /// 675620 [numéro à l'encre noire]. /// DGD: *angustissimus*, 3 racèmes en début de floraison, tige robuste ascendante, tant folioles terminales que latérales avec un petit lobe basal externe. [PH; 13-IX-2007].

UC426721. Plants of [Arizona](#). No. 1293. *Phaseolus dilatatus* Woot. & Standl.. Petals pink. 10 mi S of Black River, White Mts. [33°30'N. 109°50'W]. [Graham County]. Collected by [GJ Goodman](#), [CL Hitchcock](#). Alt. 6200 ft. [1,890 m]. Date 6/22/1930 [22 juin 1930]. /// *Phaseolus angustissimus* A Gray, det. GF Freytag, 25 Mar 1985. /// DGD: *angustissimus*, en floraison, jgo, 1 tige rampante non volubile, folioles grandes, latérales et terminales avec un lobe rond 5-6 mm long 3 mm large formant un angle droit avec le reste de la foliole, 5 racèmes. [UC; 21-X-2003].

University of Arizona Herbarium, Plants of [Arizona](#). *Cologania longifolia* A Gray. In moist sandy wash, altitude 4500 feet [1,370 m]. Natural drainage experimental area B, lower Parker Creek drainage. Sierra Ancha Mountains. [33°50'N. 111°01'W]. Flower pink. Gila County. [FW Gould](#) & [RK Hudson](#) 3851. September 4, 1946. /// DGD: *angustissimus*, en floraison, go vertes. [ARIZ; 14-II-1979].

University of Arizona Herbarium. Plants of [Arizona](#). *Cologania longifolia* A Gray. In moist sandy wash, altitude 4500 feet [1,370 m]. Natural drainage experimental area B, lower Parker Creek drainage. Sierra Ancha Mountains. [33°50'N. 111°01'W]. Flower pink. Gila County. [FW Gould](#) & [RK Hudson](#) 3851. September 4, 1946. /// The University of Texas Herbarium. *Phaseolus angustissimus* A Gray, Alfonso Delgado S., 1982. /// DGD: *angustissimus*, en floraison, jgo, go vertes, 6 racèmes, folioles longues intermédiaires à étroites à la base de la plante avec petit lobe peu marqué. [NY; 10-VI-2003].

UC737238. University of Arizona Herbarium. Plants of [Arizona](#). *Cologania longifolia* A Gray. In moist sandy wash. Altitude 4500 feet [1,370 m]. Natural Drainages Experimental Area B, lower Parker Creek drainage. Sierra Ancha Mountains. [33°50'N. 111°01'W]. Flowers pink. Gila County. [FW Gould & RK Hudson 3851](#). September 4, 1946. /// [écrit au crayon sur la planche: "*Phaseolus acutifolius* Gray O.S.F. '59."]. /// The University of Texas Herbarium, Systematic Revision of *Phaseolus*. *Phaseolus angustissimus* Gray, Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708, *Phaseolus angustissimus* Gray, det. George F. Freytag, Jul 14 1987. /// DGD: *angustissimus*, en floraison, 8 racèmes, 2 tiges rampantes, folioles à la base plus larges que folioles dans la partie terminale. [UC; 20-X-2003].

University of Arizona Herbarium. Plants of [Arizona](#). *Phaseolus angustissimus* Gray (dupl. determ. TH Kearney, 1948). Along stream in heavily grazed pasture; altitude 5800 feet [1,770 m]; 2 mi. north of Blue, Greenlee County. [33°52'N. 109°10'W]. [FW Gould & ME Robinson 5168](#). September 4, 1948. /// DGD: *angustissimus*, en floraison, go vertes. [ARIZ; 14-II-1979].

University of Arizona Herbarium. Plants of [Arizona](#). *Phaseolus angustissimus* Gray (dupl. determ. TH Kearney, 1948). Along stream in heavily grazed pasture. altitude 5800 feet [1,770 m]. 2 mi. north of Blue, Greenlee County. [33°52'N. 109°10'W]. [FW Gould & ME Robinson 5168](#). September 4, 1948. /// DGD: *angustissimus*, en floraison, plus de 14 racèmes, tiges rampantes courbées seulement dans parties terminales, base plante lignifiée diamètre 2.5-3 mm 4 cm long. [BRIT; 23-II-2002].

UC773707. University of Arizona Herbarium. Plants of [Arizona](#). *Phaseolus angustissimus* A Gray, duplicate det. TH Kearney, 1948. Along stream in heavily grazed pasture. Altitude 5800 feet [1,770 m]; 2 miles north of Blue. Greenlee County. [33°52'N. 109°10'W]. [FW Gould & ME Robison 5168](#). September 4, 1948. /// *Phaseolus angustissimus* A Gray, det. GF Freytag, 25 Mar 1985. /// DGD: *angustissimus*, en floraison, jgo, go vertes, une plante entière à base un peu ligneuse, tiges dressées ou rampantes, 11 racèmes, folioles toutes très étroites et non lobées. [UC; 21-X-2003].

ASU196491. /// Fabaceae of [Arizona](#). Yavapai County. *Phaseolus angustissimus* A. Gray. Sycamore Canyon Wildernes; Sycamore Creek; vicinity of Parsons spring; T18N R3E section 32; canyon bottom with *Aristida purpurea*, *A. ternipes*, *Fraxinus velutina*, *Gutierrezia sarothrae*, *Hedeoma drummondii*, *H. oblongifolium*, *Solidago sparsifolia*, and *Yucca baccata*. Low, trailing vine with purple flowers. [Fred Govedich 62692.6](#), Mark Baker & Teresa Wright. 26 June 1992 [26 juin 1992]. /// DGD: *angustissimus*, 7 racèmes, en floraison, go vertes, go verte en transition à go sèche; folioles tant terminales que latérales avec petit lobe rond externe. [ASU; 22-IX-2015].

MO1731215. UNITED STATES DEPARTMENT OF AGRICULTURE. Office of the Agrostologist. *Phaseolus angustissimus* A. Gray. Williams. [Arizona](#). No. 4943. [David Griffiths](#). July 8-25, 1903. /// Missouri Botanical Garden. /// The University of Texas Herbarium. Systematic Revision of *Phaseolus*. *Phaseolus angustissimus* A. Gray. Alfonso Delgado S. 1985. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray. Det. George F. Freytag, Jun 23 1986. /// DGD: *angustissimus*, une partie de tige 'scandens' à base lignifiée, 2 racèmes, en floraison, jgo, folioles terminales et latérales avec lobe basal. [MO; 21-VI-2013].

US496514. /// United States National Museum. /// United States Department of Agriculture. Office of the Agrostologist. *Phaseolus angustissimus* A. Gray. Williams. [Arizona](#). [35° 15'N. 112° 11' 30"W]. No. 4943. [David Griffiths](#). July 8-25, 1903 [8-25 juillet 1903]. /// *P. dilatatus* W. & S. [écrit à l'encre noire directement sur la planche]. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, 3 racèmes, en floraison; base de tige lignifiée, plante avec tiges ascendantes. [US; 31-VIII-2009].

Flora of [Arizona](#). *Phaseolus dilatatus* W. & S. ?. Frequent. SO slope. Flagstaff. [35°20'N. 111°53'W]. Date 6/27/23 [27 juin 1923]. Collector [Herbert H Hansen no. A581](#). det. A Nels. /// DGD: *angustissimus*, 3 branches, en floraison, jgo, go vertes, folioles intermédiaires lobées à la base, la base des tiges est un peu ligneuse. [NY; 10-VI-2003].

MO895971. FLORA OF [ARIZONA](#). *Phaseolus dilatatus* W & S. Freq., cindery slopes, near Tolchaco. Alt. 5000 ft. Date 6/11/22. Collector: [Herbert C Hanson](#). No. A 80. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray. Det. George F. Freytag, Jun 23 1986. /// DGD: *angustissimus*, parties aériennes de deux plantes avec touffe de tiges 'scandens' à base lignifiée, 4+6 racèmes, en floraison, jgo, jgo en transition à go verte, folioles terminales et latérales avec lobe basal. [MO; 21-VI-2013].

[Herbert C Hanson 80](#). *Phaseolus dilatatus* Woot. & Standl.. [Arizona](#). [Coconino County]. Frequent, cindery slopes, near Jochalco [Tolchaco]. [36°34'N. 111°50'W]. 5000 feet [1,520 m]. 6/11/22 [11 juin 1922]. /// DGD: *angustissimus*, en floraison. [MSC; 29-VI-1988].

Flora of [Arizona](#). *Phaseolus dilatatus* Woot. & Standl.. Frequent, cindery slopes near Jolchaco. [Tolchaco]. [36°34'N. 111°50'W]. [Coconino County]. Alt. 5000 ft. [1,520 m]. Date 6/11/22 [11 juin 1922]. Collector [Herbert C Hanson no. A80](#). /// *Phaseolus angustissimus* A Gray, det. JA Lackey, April 1980. /// DGD: *angustissimus*, en floraison, 8 racèmes, petites folioles lobées à la base 10-16 mm long et 8-12 mm large, base des tiges ligneuse. [NY; 10-VI-2003].

Flora of [Arizona](#). *Phaseolus dilatatus* W. & S. Freq., cindery slopes, near Tolchaco. [36°34'N. 111°50'W]. [Coconino County]. Altitud 5000 ft. Date 6/11/22 [11 juin 1922]. Collector: [Herbert C Hanson. No. A 80](#). /// Herbarium. 0805...9 Univ. Penna [cachet à l'encre noire, mal encré et donc nombre est incomplet]. /// DGD: *angustissimus*, plante entière avec racine fibreuse-lignifiée pivotante en trois branches principales cylindriques, départ des 5 tiges en rosette probablement au début de la saison, en début de floraison, 5 racèmes, folioles petites avec petit lobe basal, d'abord les folioles latérales et puis toutes les folioles. [PH; 13-IX-2007].

79154. /// Flora of [Arizona](#). *Phaseolus dilatatus* W. & S. Freq., cindery slopes near Tolchaco. [36°34'N. 111°50'W]. Altitude 5000 ft. [1,520 m]. Date: 6/ 11/ 22. Collector: [Herbert C Hanson](#). No. A 80. /// The University of Texas Herbarium. Systematic Revision of *Phaseolus*. *Phaseolus angustissimus* A.Gray, Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS, USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A.Gray, det. George F. Freytag, May 26, 1988. /// DGD: *angustissimus*, tout un groupe de plus de 9 tiges érectes au départ d'une base lignifiée, 4 racèmes, en floraison. [x 2] [TEX; 12-VIII-2008].

US1365706. /// United States National Museum. Deposited by the U.S. Department of Agriculture. /// Plants of Southern [Arizona](#). *Phaseolus angustissimus* Gray. Sierra Ancha. [Gila]. [33° 57' 30"N. 111° 11'W]. No. [GJ Harrison](#), TH Kearney, collectors. Aug. 26/ 28 [26 août 1928]. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, 2 racèmes, en début de floraison, base de tige lignifiée, partie supérieure de racine cylindrique lignifiée, rosette de tiges ascendantes. [US; 1-IX-2009].

US1327048. /// United States National Museum. Deposited by the U.S. Department of Agriculture. /// Plants of Southern [Arizona](#). *Phaseolus angustissimus* Gray. Near Superior. [Pinal]. [33° 17' 40"N. 111° 05' 45"W]. No. 1875. [GJ Harrison](#), collector. 5/16-26 [16 mai 1926]. /// var. *dilatatus* (W. & S.) THK [écrit à l'encre bleue sur la planche, par T.H. Kearney]. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, 3 racèmes, en début de floraison, folioles terminales et latérales avec lobe basal externe. [US; 1-IX-2009].

ASU226115. /// Plants of [Arizona](#). Herbarium of Arizona State University. Papilionoideae. *Phaseolus angustissimus* Gray. (common name: Bean). Cochise County: T19S R21E SE ¼ NE ¼ Sec 8. Habitat: San Pedro River floodplain terrace; *Prosopis velutina*, *Celtis reticulata* overstory. Collector: [Leigh Hedrick 695](#), Joelle Don de 'Ville [sic!], Julie Stromberg. Elev. 1128 m. Date: 6 September 1993. /// DGD: *acutifolius*, 2 racèmes, en floraison, jgo, spécimen pauvre, une éophylle 33x22 mm sessile et à base cunée. [ASU; 22-IX-2015].

UCR81034. /// Herbarium of U.C. Riverside (UCR). Plants of Yavapai Co., [Arizona](#), USA. *Phaseolus angustissimus* Gray. FAB. Chino Valley: off AZ Hwy 69 at Robert Rd (between Prescott and Dewey). (35° 35'N, 112° 19'W). Alt. 1585 m/ 5200 ft. Mixed woodland of Pinon Pine and Oak. [GK Helmkamp 5-5](#) w/ EA Helmkamp. 6 Jun 1993 [6 juin 1993]. Entered into UCR database (UCR-81034). /// Specimen data entered into **UCR** database. /// DGD: *angustissimus*, 3 fragments de tiges droites non volubiles, 2+2+3 racèmes, en floraison. [UCR; 18-VIII-2014].

UCR88399. /// Herbarium Univ. of Calif. Riverside. Plants of Coconino Co., [Arizona](#). *Phaseolus angustissimus* Gray. Yellow pine forest in San Francisco Mountains on the road to Locket Meadow, NE of Flagstaff. Bare roadside bank. Abundant in this one local area. Elev. 8000 ft. [2,438 m]. N 35° 21'; W 111° 37'. ([95-32-3](#)). 29 June 1995 [29 juin 1995]. [G.](#) & [E. Helmkamp](#). /// Specimen data entered into **UCR** database. /// DGD: *angustissimus*, 3 petites plantes entières avec tiges rampantes non volubiles, en floraison, jgo en transition à go vertes, chacune avec plus de 6 racèmes; numéro de collecte peu clair (95-32-3)?! [UCR; 18-VIII-2014].

245864. Herbarium. Arizona State University. /// Plants of [Arizona](#). Herbarium of Arizona State University. Leguminosae. *Phaseolus diatatus* [sic!] Woot. & Standl. County: Gila. Location: Sierra Ancha Bench – West slope. Habitat: chaparral. Elev.: 4000' [1,207 m]. Date: 28-IX-1934 [28 septembre 1934]. Collector: [BA Hendricks 2084](#). Det.: [blanc]. /// = *Phaseolus angustissimus* Gray, det. R. Buhrow, 3-14-1984 [14 mars 1984]. Annotation – Herbarium of Arizona State University. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F. Freytag, Dec 2 1991. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 3 racèmes, en floraison. [ASU; 22-IX-2015].

MIN602018 /// Plants of [Arizona](#). Bebb Herbarium of the University of Oklahoma. No. [959](#). Coconino Co. *Phaseolus angustissimus* Gray. 9 mi S of Happy Jack in Coconino Natn'l Forest. Ponderosa pine grassland zone. Perennial, trailing vine, along the forest edge, purple petals. Elev. 6400 ft. Collected by [W Hess](#). Aug. 23, 1966 [23 août 1966]. /// DGD: *angustissimus*, 7 racèmes, en floraison, jgo, folioles petites avec esquisse de lobation à la base, surtout les latérales, variéation centrale. [MIN; 16-IV-2010].

University of North Carolina Herbarium. 432927. /// Apache County, Arizona. *Phaseolus angustissimus* Gray. Between Concho and St. Johns; volcanic rock; roadside. [34°58'N. 109°41'W]. [Larry C Higgins 5422](#). 22 May 1972. Herbarium of West Texas State University, Canyon, Texas. /// DGD: *angustissimus*, spécimen végétatif, feuilles trifoliolées stipulées stipellées, poils uncinulés, tige 'scandens' à base lignifiée. [NCU; 23-VIII-2011].

Apache County, [Arizona](#). *Phaseolus angustissimus* Gray. between Concho and St. Johns, volcanic rock, roadside. [34°58'N. 109°41'W]. [Larry C Higgins 5422](#). 22 May 1972 [22 mai 1972]. Herbarium of West Texas State University, Canyon, Texas. /// DGD: *angustissimus*, base de la tige ligneuse, folioles intermédiaires, lobées à la base, état végétatif. [NY; 10-VI-2003].

US881644. /// United States National Museum. Deposited by the U.S. Department of Agriculture. /// Plants of Arizona. *Phaseolus angustissimus* Gray. Vicinity of Flagstaff. [35°20'N. 111°53'W]. [AS Hitchcock](#), collector. August 7-11, 1915 [7-11 août 1915]. /// United States National Herbarium. *Phaseolus*

angustissimus A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, 4 racèmes, en floraison, jgo, jgo en transition à go verte, base de tige lignifiée diam. 9 mm; pas de numéro de collecte. [US; 1-IX-2009].

US Natl Arb 146185. /// Herbarium of the University of Washington. Plants of [Arizona](#). *Phaseolus dilatatus* Woot. & Standl. Petals pink; yellow pine forest; 6 mi east of Flagstaff, Coconino County. [35°20'N. 111°53'W]. Coll. by [CL Hitchcock](#), [Roland V Rethke](#), [R van Raadshooven](#). 8/4/1938 [4 août 1938]. No. 4498. /// Poisoned [cachet à l'encre noire]. /// DGD: *angustissimus*, 7 racèmes, en floraison, base de la tige un peu lignifiée. [NA; 17-VII-2006].

Plants of [Arizona](#), Yavapai. *Phaseolus angustissimus* Gray var. *latus* Jones. ca. 3-5 miles north of road to Bartlett Dam, along Seven Springs Road. [33°54'N. 111°35'W]. [Maricopa County !] *Quercus*, *Juniperus*, *Agave toumeyana*, *Echinocereus*, *Gutierrezia* association. Common on rocky slopes; flowers magenta. [Wendy Hodgson 2881](#). 26 April 1984. Herbarium of Desert Botanical Garden (DES). /// DGD: *angustissimus*, tt début floraison, 2 racèmes, développement de l' hétérophylie, lobes à la base des folioles. [NY; 10-VI-2003].

Herbarium of the New York Botanical Garden. Plants of [Arizona](#). *Phaseolus angustissimus* var. *latus* Jones, det. D. Isely, 1972. Mohave Co.: Tupweed valley, 6.5 miles east of Nixon Spring (Mount Trumbull area), 54 airline miles southwest of Kanab, Utah. T34N R7W sec 5. Elevation 5200 feet [1,585 m]. [36°41'N. 113°13'W]. Only one plant seen at edge of the road in juniper-sagebrush country, petals violet. [Noel H Holmgren 3375](#). May 27, 1969. /// DGD: *angustissimus*, en floraison, jgo, 15 racèmes, folioles petites long. 15-18 mm largeur 9-13 mm, avec lobe à la base légèrement ou clairement marqué, la base de la plante est ligneuse, diamètre 5-7 mm, la plante a l' aspect d' une rosette. [NY; 10-VI-2003].

US664150. Flora of [Arizona](#). *Cologania longifolia* Gray. Taylor. [Navajo]. [34° 27'50"N. 110° 05'30"W]. July 31, 1897 [31 juillet 1897]. Collected by D^r [Hough](#). /// *Phaseolus angustissimus* [écrit au crayon noir sur la planche, probablement par C.V. Piper]. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 28 Mar 1985. /// DGD: *angustissimus*, 4 racèmes, en début de floraison, base de tige rampante ascendante lignifiée. [US; 1-IX-2009].

US564922. /// United States National Museum. /// Plants of [Arizona](#). *Cologania*. Pinedale. [Navajo]. [34° 18'30"N. 110° 15'W]. Aug. 1-15, 1897 [1^{er} – 15 août 1897]. # 118. [Walter Hough](#), coll. /// *Phaseolus angustissimus* Gray, déterminé A. Delgado S., 1977. Colegio de Postgraduados, Chapingo, México, MEXICO. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, 4 racèmes, en floraison, jgo, go vertes. [US; 1-IX-2009].

ASU200951. /// Plants of [Arizona](#). Arizona State University. Fabaceae. *Phaseolus angustissimus* Gray. Gila Co.: Sierra Ancha Wilderness Area in Tonto National Forest; north side of Bull Canyon. T5N, R15E, S20, NW ¼ . Open rocky wash with *Baccharis sarothroides*, *Chilopsis linearis*, *Prosopis velutina*, *Acacia greggii*, and *Juglans major*. Wandering prostrate perennial vine; flowers pinkish; near ephemeral water. Elev.: 3200 feet. [GJ Imdorf 1121](#). 01 May 1993. /// DGD: *angustissimus*, 5 racèmes, en floraison, jgo, jgo en transition à go vertes. [ASU; 22-IX-2015].

Plants of [Arizona](#). Arizona State University. Fabaceae. *Phaseolus angustissimus* A Gray. Gila Co.: sierra Ancha wilderness area in Tonto National Forest, north side of Bull Canyon, T5N R15E S20 NW ¼ . [33°55'N. 110°56'W]. Open rocky wash with *Baccharis greyii* and *Juglans major*. Wandering prostrate perennial, vine, flowers pinkish, near ephemeral water. Elev. 3200 feet [975 m]. [GJ Imdorf 1121](#). 01 May 1993. /// DGD: *angustissimus*, en floraison, jgo, 5 racèmes, folioles modérément étroites avec un lobe à la base. [NY; 10-VI-2003].

ASU206377. /// Plants of [Arizona](#). Arizona State University. Fabaceae. *Phaseolus angustissimus* Gray. Gila Co.: Sierra Ancha Wilderness Area in Tonto National Forest; just north of Bull Canyon. T5N, R15E, NE1/4 of S20. Growing with *Prosopis velutina*, *Hymenoclea monogyra* and *Baccharis sarothroides*. In sandy wash; vine-like wandering prostrate herb; fls pink. Elev. 3,000 feet [905 m]. [Gregory J Imdorf 1445](#). 25 Sep 1993 [25 septembre 1993]. /// DGD: *angustissimus*, 7 racèmes, en floraison, jgo, go verte. [ASU; 21-IX-2015].

24482. Herbarium. Arizona State University. /// Leguminosae. *Phaseolus angustissimus* Gray. South of Geronimo Springs in Sycamore Canyon. Floor of Sycamore Canyon, along creek bed among rocks in soil. Aug. 5, 1965 [5 août 1965]. Elev. 5100' [1,539 m]. Coconino County, [Arizona](#). Collected by [Albert Isaak 40](#). Determined by: W.B. Mc Dougall. Herbarium, Northern Arizona University – Flagstaff. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 5 racèmes, en floraison, jgo, jgo en transition à go vertes. [ASU; 22-IX-2015].

35853. Herbarium. Arizona State University. /// Herbarium of the Forest Service. U.S. Department of Agriculture. Collector's No. [40](#). Date of collection: October 16, 1934 [16 octobre 1934]. *Phaseolus angustissimus* Gray. [Arizona](#), Forest Tonto, White Ridges. Alt. 3500 feet [1,056 m]. Slope 40 S. Soil shallow loam. Type chaparral brown. Association: catclaw cactus, *Lycium*. Abundance: common. Forage value: good. Cattle and horses. Season grazed: summer. Collector's name: [Jerry M Johnson](#). /// *Phaseolus angustissimus* Gray, det. E. Lehto 1967. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 7 racèmes, en floraison, jgo. [ASU; 21-IX-2015].

Plants of [Arizona](#). *Phaseolus angustissimus* var. *latus* Jones. Road to Sunset Crater, Wupatki National Monument, Coconino County. [35°30'N. 111°30'W]. Alt. 5200 ft. [1,585 m]. [57/1939](#). [David J Jones](#). Sept. 28, 1939 [28 septembre 1939]. /// Smithsonian Institution, from the United States National Herbarium. /// DGD: *angustissimus*, 2 racèmes, en début floraison, folioles petites non lobées 16-18 mm long 8-12 mm large, base de la plante (ou racine) ligneuse, diamètre 8 mm. [NY; 10-VI-2003].

Flora of [Arizona](#). [Coconino County]. *Phaseolus angustissimus* Gray. Flagstaff. [35°20'N. 111°53'W]. August 12, 1884. Collected by [Marcus E Jones AM](#). s.n. /// DGD: *angustissimus*, en go vertes. [ARIZ; 14-II-1979].

Flora of [Arizona](#). [Coconino County]. [4052](#). *Phaseolus angustissimus* A Gray. Flagstaff. [35°20'N. 111°53'W]. August 12, 1884. Collected by [Marcus E Jones](#), A.M. /// DGD: *angustissimus*, 4 racèmes, en floraison, go verte, tige fertile rampante ascendante non volubile. [BM; 18-XII-2006].

Flora of [Arizona](#). [Coconino County]. [4052](#). *Phaseolus angustissimus* Gray. Flagstaff. [35°20'N. 111°53'W]. August 12, 1884. Collected by [Marcus E Jones](#), A.M. /// Herbar du Jardin botanique de l'Etat, Bruxelles. /// Loan from BR to TAA 44951 sheet n°. 1. [cachet]. /// DGD: *angustissimus*, 4 racèmes, en jgo, go verte, tige rampante non volubile. [BR; 29-VI-2005].

[Marcus E. Jones A.M. 4052](#), *Phaseolus angustissimus* A Gray, Flora of [Arizona](#). [Coconino County], Flagstaff. [35°20'N. 111°53'W]. August 12, 1884. /// DGD: *angustissimus*, en floraison, une seule branche à trois noeuds. [G; 11-II-2002].

Flora of [Arizona](#). [4052](#). *Phaseolus angustissimus* Gray. [Coconino County], Flagstaff. [35°20'N. 111°53'W]. August 12, 1884, collected by [Marcus E. Jones A.M.](#) /// Herbar Barbey-Boissier. /// DGD: *angustissimus*, en floraison, 9 racèmes. [G; 15-II-2002].

ME Jones 4052. *Phaseolus angustissimus* Gray. Arizona. [Coconino County]. Flagstaff. [35°20'N. 111°53'W]. 12/VIII/1884 [12 août 1884]. /// DGD: *angustissimus*, en floraison. [MSC; 29-VI-1988].

Flora of Arizona. 4052. *Phaseolus angustissimus* Gray. [Coconino County], Flagstaff. [35°20'N. 111°53'W]. August 12, 1884. Collected by Marcus E Jones AM. /// DGD: *angustissimus*, en floraison, go vertes, 5 racèmes, bon développement hétérophylie, folioles dans partie inférieure de la plante 5 cm long 1 cm large et lobées, folioles dans la partie supérieure de la plante non lobées et étroites 5-6 mm large; un 2^{ème} spécimen existe, pratiquement identique. [NY; 10-VI-2003].

Flora of Arizona. 4052. *Phaseolus angustissimus* Gray. [Coconino County]. Flagstaff. [35°20'N. 111°53'W]. August 12, 1884. Collected by Marcus E Jones AM. /// Herbier E Durand. Donation du Docteur E Durand. Ancien herbier E Cosson. /// DGD: *angustissimus*, en floraison, jgo, go vertes, 6 racèmes. [x 2]. [P; 9-II-2004].

US220249. Flora of Arizona. 4052. *Phaseolus angustissimus* Gray. Flagstaff, [35°20'N. 111°53'W], August 12, 1884 [12 août 1884]. Collected by Marcus E Jones, A.M. /// United States National Herbarium. Deposited by the U.S. Department of Agriculture. *Phaseolus angustissimus* A. Gray. Locality: Arizona. Collector: ME Jones. 1884. /// *P. dilatatus* W. & S. [écrit à l'encre noire directement sur la planche]. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, 5 racèmes, en floraison, go verte. [US; 31-VIII-2009].

US942120. Flora of Arizona. *Phaseolus*. Flagstaff. [35°20'N. 111°53'W]. Aug. 1884. Collected by Marcus E Jones, A.M. /// Probably no. 4052, which M. Canby says "is very near *P. angustissimus* Gray" [écrit à l'encre noire sur la planche]. /// *P. angustissimus* Gray [écrit à l'encre noire sur la planche, probablement par C.V. Piper]. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, 7 racèmes, en début de floraison, qq folioles latérales avec ébauche de lobe rond externe à la base. [US; 1-IX-2009].

[collé sur la même planche que les deux antérieurs: Marcus E Jones 4252, et Lemmon 2682]. *P. angustissimus* Gray CVP. [écrit au crayon noir sur la planche par Charles Vancouver Piper; pas d'indications de lieu ni de date de collecte ni de collecteur ni d'institution]. [Arizona]. /// DGD: *angustissimus*, fragment de plante avec un racème, en floraison; comme 'best guess' collecte de l'un des deux collecteurs Jones ou Lemmon, et de l'Arizona. [BM; 18-XII-2006].

Leg. Herbarium of the University of California. Plants of Arizona. *Phaseolus dilatatus* Wooton & Standley. Schuerman Wyatt W Jones s.n. May 26, 1922 [26 mai 1922]. /// DGD: ressemble à *P. angustissimus*, mais folioles plus larges, en floraison, jgo, 6 racèmes, tige non volubile. [K; 5-VIII-1985].

MO989748. Leg. Herbarium of the University of California. Plants of Arizona. *Phaseolus dilatatus* Wooton & Standley. Schuerman. Wyatt W Jones. May 26, 1922.]. /// The University of Texas Herbarium. Systematic Revision of *Phaseolus*. *Phaseolus angustissimus* A. Gray. Alfonso Delgado S. 1985. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray. Det. George F. Freytag, Jun 23 1986. /// DGD: *angustissimus*, 2 parties de tige 'scandens', 2 racèmes, en floraison; pas de numéro de collecte. [MO; 21-VI-2013].

UC408031. Herbarium of the University of California. Plants of Arizona. *Phaseolus dilatatus* Woot. & Standl.. Schuerman. Wyatt W Jones. May 26, 1922. /// *Phaseolus angustissimus* A Gray, det. GF Freytag, 25 Mar 1985. /// DGD: *angustissimus*, en floraison, jgo, 2 tiges longues rampantes, important dimorphisme foliaire, 5 (1+4) racèmes; pas de numéro de collecte; localité = Schuerman ?!. [UC; 21-X-2003].

US1568502. /// United States National Museum. /// Leg[uminosae]. Herbarium of the University of California. Plants of [Arizona](#). *Phaseolus dilatatus* Wooton & Standley. Schuerman. [Wyatt W Jones](#). May 26, 1922. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// DGD: *angustissimus*, 2 racèmes, en floraison, spécimen pauvre; pas de numéro de collecte. [US; 1-IX-2009].

Smithsonian Institution, from the United States National Herbarium. Plants of Southern [Arizona](#). *Phaseolus angustissimus* Gray. [Pinal County]. Superior to Miami. [33°25'N. 110°55'W]. No. [9226](#). [TH Kearney](#) & [RH Peebles](#), collectors. Apr. 22, 1934 [22 avril 1934]. /// DGD: *angustissimus*, 5 racèmes, en floraison et jeunes go; partie importante d'une plante avec base de la tige un peu lignifiée, tige non volubile. [K; 5-VIII-1985].

US1624261. /// United States National Museum. Deposited by the U.S. Department of Agriculture. /// Plants of Southern [Arizona](#). *Phaseolus angustissimus* Gray. Superior to Miami. [33°25'N. 110°55'W]. No. [9226](#). [TH Kearney](#), [RH Peebles](#), collectors. Apr. 22, 1934. /// var. *dilatatus* (W. & S.), (THK) [écrit à l'encre bleue directement sur la planche]. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, 3 racèmes, en début de floraison, esquisse de lobe basal aux folioles terminales et latérales. [US; 1-IX-2009].

US1624396. /// United States National Museum. Deposited by the U.S. Department of Agriculture. /// Plants of [Arizona](#). *Phaseolus angustissimus* Gray. Near Prescott. [Yavapai]. [34°32'20"N. 112° 28'W]. No. [9745](#). [TH Kearney](#), [RH Peebles](#), collectors. Aug. 5, 1934 [5 août 1934]. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, 5 racèmes, en floraison, jgo en transition à go verte, go vertes. [US; 1-IX-2009].

24354. Herbarium. Arizona State University. /// Plants of [Arizona](#). Herbarium of Arizona State University. Leguminosae. *Phaseolus angustissimus* Gray. County: Maricopa. Location: 2.8 mi NE of Sunflower on Beeline Hwy at Sycamore Creek. Habitat: wooded area around stream. Elev.: [blanc]. Coll.: [David Keil 1741](#). Date: 6-V-1967 [6 mai 1967]. Det.: [blanc]. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 4 racèmes, en tt début de floraison. [ASU; 22-IX-2015].

141308. Herbarium. Arizona State University. /// Plants of [Arizona](#). Herbarium of Arizona State University. Leguminosae. *Phaseolus angustissimus* Gray. County: Yavapai. Location: Lynx Creek. Habitat: Pinon Pine, Oak, Juniper woodland area around stream. Elev.: 5000 ft. [1,509 m]. Date: 23-IX-1967 [23 septembre 1967]. Coll.: [David Keil 2706](#). Det.: David Keil. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F. Freytag, Dec 2 1991. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 7 racèmes, en floraison. [ASU; 22-IX-2015].

35850. Herbarium. Arizona State University. /// Plants of [Arizona](#). Herbarium of Arizona State University. Leguminosae. *Phaseolus angustissimus* Gray. County: Gila. Location: natural drainage A, Sierra Anchas Mountains. Habitat: East facing diabase outcrop. Elev.: [blanc]. Date: 29-VII-1968 [29 juillet 1968]. Collector: McGraw, Pase, [Keil 3431](#). Det.: David Keil. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 2 racèmes, en début de floraison; qq folioles tant terminales que latérales avec petit lobe rond externe. [ASU; 22-IX-2015].

Plants of [Arizona](#). Herbarium of Arizona State University. Leguminosae. *Phaseolus angustissimus* Gray. County: Gila, location: 2.0 miles below junction of road to Madera Peak and road to Signal Peak, Pinal

Mountains. [33°11'N. 110°53'W]. Habitat: ponderosa pine hillside. Collector [David Keil 3915](#). Det: DK. Elevation. 5300 ft [1,615 m]. Date 14-IX-1968 [14 septembre 1968]. /// DGD: *angustissimus*, en début floraison, 4 racèmes, folioles allongées, quelques unes avec léger lobe à la base. [NY; 10-VI-2003].

136417. Herbarium. Arizona State University. /// Plants of [Arizona](#). Herbarium of Arizona State University. Leguminosae. *Phaseolus angustissimus* Gray. County: Coconino. Location: Sycamore Canyon Wilderness Area. Rocky canyon in desert grassland area. Scattered Pinon Pine and Juniper on upper slopes. Habitat: Red sandstone with occasional basalt caps. Twining and trailing in sandy soil near stream. Elev.: [blanc]. Coll.: DJ Pinkava, Robert Stewart & [David Keil 5869](#). Date: 11-X-1969 [11 octobre 1969]. Det. Elinor Lehto. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F. Freytag, Dec 2 1991. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 5 racèmes, en floraison, jgo en transition à go vertes, go vertes. [ASU; 22-IX-2015].

US78192. Flora of [Arizona](#). Collected in the San Francisco Mountain. No. [227](#). *Phaseolus angustissimus* Gr. Collected by [FH Knowlton](#). Sept. 5, 1889 [5 septembre 1889]. /// Herb. United States Department of Agriculture. *Phaseolus angustissimus* Gr. Locality: Arizona. Collector: FH Knowlton. 1889. /// *P. dilatatus* W. & S. [écrit à l'encre noire directement sur la planche]. /// *P. angustissimus* (THK [= T.H. Kearney]) [écrit au crayon noir sur la planche]. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, plus de 12 racèmes, en floraison, jgo, jgo en transition à go vertes, go vertes avec stries violettes; spécimen touffu mal pressé. [US; 31-VIII-2009].

Flora of [Arizona](#). [3892](#). *Phaseolus angustissimus* Gray. Coconino Co.: five miles south of Flagstaff on highway 66. [35°19'N. 111°53'W]. Open yellow pine forest. Yellow flowers. [AR Kruckeberg](#). July 1, 1955. /// DGD: *angustissimus*, en floraison, jgo, go vertes, 6 racèmes, développement de l' hétérophylie, base de la tige ligneuse. [NY; 10-VI-2003].

ASU152230. /// Plants of [Arizona](#). Arizona State University. *Phaseolus*. Yavapai Co.. Lynx Lake area of Prescott National Forest. 4.8 mi S of Hwy 69 on 197, ca 6 mi SE of Prescott. Ponderosa pine forest. Prostrate vine. Flower purple. 6000 ft. [1,810 m]. SS Landrum, [LR Landrum 5594](#). 14 Sep 1987 [14 septembre 1987]. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 5 racèmes, en floraison. [ASU; 22-IX-2015].

ASU193483. /// Plants of [Arizona](#). Arizona State University. *Phaseolus* cf. *filiformis* Benth. Maricopa County: Tonto National Forest NE of Carefree, Seven Springs. Riparian vegetation with Platanus, Fraxinus, etc. Surrounding hills with desert-chaparral transition. Perennial Herb. Flower purple. ca. 3400 ft. [1,026 m]. 2 May 1990 [2 mai 1990]. [LR Landrum 6803](#), with S Gama, R Irigoyen, S Arias. /// DGD: *angustissimus*, 9 racèmes, en floraison, jgo, 6 tiges ascendantes au départ d'une tige lignifiée diam. 18 mm, hétérophylie, folioles terminales et latérales avec lobation basale externe. [ASU; 23-IX-2015].

ASU199205. /// Plants of [Arizona](#). Arizona State University. *Phaseolus angustissimus* A. Gray. Gila County: Tonto Nat. Forest. Pinal Mountains, near rocky wash 10.5 m above Globe on road to Pinal Mountain. (T1S, R15E, S ca. 30). Ponderosa Pine Forest. Spreading vine; flowers pink. Ca 5000 ft. [LR Landrum 8274](#), with D Pinkava, G Imdorf, J Bonilla. 26 Jul 1994. /// DGD: *angustissimus*, 6 racèmes, en floraison, jgo, folioles terminales et latérales avec lobation basale externe. [ASU; 22-IX-2015].

Plants of [Arizona](#). Arizona State University. *Phaseolus angustissimus* A Gray. Gila county. Tonto National Forest, Pinal Mountains, near rocky wash 10.5 mi above Globe on road to Pinal Mountain (T1S, R15E, S ca 30). [33°12'N. 110°53'W]. Ponderosa pine forest. Spreading vine, flowers pink. [LR Landrum 8274 with D Pinkava, G Imdorf & J Bonilla](#). 26 Jul 1994 [26 juillet 1994]. ca 5000 ft [1,520 m]. /// DGD: *angustissimus*,

en floraison-jgo, 7 racèmes, développement hétérophylie, de 8-10 mm large à 3-5 mm large, folioles latérales et terminales avec petit lobe à la base. [NY; 10-VI-2003].

ASU227643. /// Plants of [Arizona](#). Arizona State University. [espace laisse en blanc pour l'espèce] Maricopa County: Tonto National Forest. Seven Springs campground, ca 0.-0.5 upstream from road. (R5E, T7N). (33° 58'N, 111° 52'W). Riparian vegetation with *Salix*, *Fraxinus*, and *Populus*. Perennial herb; flowers purple. Elev.ca: 3500 ft. [1,056 m]. Date: 7 May 1999 [7 mai 1999]. [LR Landrum 9443](#), with A Trauth, G Walters, K Pigg. /// *Phaseolus angustissimus* Gray, det. Shannon Doan, 2001. Arizona State University Herbarium (ASU). /// DGD: *angustissimus*, 8 racèmes, en floraison, 7 tiges ascendantes au départ d'une base lignifiée diam. 16 mm. [ASU; 22-IX-2015].

Desert Botanical Garden Phoenix, Arizona. *Phaseolus angustissimus* Gray. Locality: West side of Route 87 2.8 miles North of Bayson [Payson]. Gila County, [Arizona](#). [34° 13' N. 111° 20' W]. June 2, 1971. Coll. [J Harry Lehr no. 398](#). /// DGD: *angustissimus*, en floraison. [DES; 11-II-1979].

Desert Botanical Garden, Phoenix, Arizona. *Phaseolus angustissimus* A Gray. Locality: Tonto Forest, Road # 405 at Tonto Creek, 4.4 miles south of Rt. 260. 7 June 1973. Gila County, [Arizona](#). [33°42'N. 111°06'W]. Coll.: [J. Harry Lehr & J H Weber no. 1008](#). /// DGD: *angustissimus*, en floraison. [DES; 11-II-1979].

Desert Botanical Garden Phoenix, Arizona. *Phaseolus angustissimus* Gray. Locality: Lynx Lake. Yavapai County, [Arizona](#). [34° 30'N. 112° 24'W]. July 9, 1973. Coll. [J Harry Lehr no. 1033](#). /// DGD: *angustissimus*, en floraison. [DES; 11-II-1979].

35626. Herbarium. Arizona State University. /// Plants of [Arizona](#). Herbarium of Arizona State University. Leguminosae. *Phaseolus angustissimus* Gray. County: Maricopa. Location: Seven Springs. Habitat: [blanc]. Elev.: ca. 3500 ft. [1,056 m]. Date: 28-IV-1962 [28 avril 1962]. Collector: [Elinor Lehto 707](#). Det: [blanc]. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, trois tiges ascendantes, 9 racèmes, en début de floraison. [ASU; 22-IX-2015].

35625. Herbarium. Arizona State University. /// Plants of [Arizona](#). Herbarium of Arizona State University. Leguminosae. *Phaseolus angustissimus* Gray. County: Apache. Location: 10 miles N of Concho. Habitat: Roadside, juniper forest. Elev.: 6500 ft. Date: 29-VIII-1963. Coll.: [Elinor Lehto 2090](#). Det.: [blanc]. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, un racème, jgo, fragments de go verte et go sèche. [ASU; 22-IX-2015].

[Elinor Lehto 2090](#). *Phaseolus angustissimus* Gray. [Arizona](#), Apache [County], 10 miles north of Concho, roadside, juniper forest. [34°35'N. 109°35'W]. 6500 feet [1,980 m]. 29 July 1963 [29 juillet 1963]. /// DGD: *angustissimus*, en floraison. [MSC; 29-VI-1988].

University of North Carolina Herbarium. 280093. /// Plants of [Arizona](#). Herbarium of Arizona State University. *Phaseolus angustissimus* Gray. County Apache. Location 10 miles north of Concho. [34°35'N. 109°35'W]. Habitat Roadside, juniper forest. Elev. 6500 ft. Collector [Elinor Lehto 2090](#). Date July 29, 1963. Det. [blanc]. /// DGD: *angustissimus*, 5 racèmes, en floraison, jgo, go verte, go sèches. [NCU; 23-VIII-2011].

143057. Herbarium. Arizona State University. /// Plants of [Arizona](#). Herbarium of Arizona State University. Leguminosae. *Phaseolus wrightii* Gray. County: Maricopa. Location: Ariz 87 at Bushnell Tanks (north of Sunflower). Habitat: Riparian. Elev.: [blanc]. Collector: Pinkava, Moore, [Lehto 6084](#). Date: 30-IV-1966 [30 avril 1966]. Det. Elinor Lehto. /// *Phaseolus angustissimus* Gray, det. E. Lehto 1967. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det.

George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, plus de 12 racèmes, en floraison, jgo, qq folioles tant terminales que latérales avec lobe basal externe. [ASU; 21-IX-2015].

143135. Herbarium. Arizona State University. /// Plants of [Arizona](#). Herbarium of Arizona State University. Leguminosae. *Phaseolus angustissimus* Gray. County: Maricopa. Location: 1 mile north of Sunflower turnoff on Ariz. 87. Habitat: Riparian. Elev.: [blanc]. Coll.: Keil, Pinkava, [Lehto 7933](#). Date: 6-V-1967 [6 mai 1967]. Det.: Elinor Lehto. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F. Freytag, Dec 2 1991. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 7 racèmes, en floraison. [ASU; 22-IX-2015].

143033. Herbarium. Arizona State University. /// Plants of [Arizona](#). Herbarium of Arizona State University. Leguminosae. *Phaseolus angustissimus* Gray. County: Yavapai. Location: Thumb Butte Campground. Habitat: ponderosa forest. Elev.: [blanc]. Collector: Keil, Pinkava, [Lehto 8282](#). Date: 8-V-1967 [8 mai 1967]. Det. Elinor Lehto. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F. Freytag, Dec 2 1991. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 2 racèmes, en floraison, spécimen pauvre et mal pressé. [ASU; 23-IX-2015].

143032. Herbarium. Arizona State University. /// Plants of [Arizona](#). Herbarium of Arizona State University. Leguminosae. *Phaseolus angustissimus* Gray. County: Yavapai. Location: Granite Basin Lake. Habitat: Oak-pine area around lake, eroding granite. Elev.: [blanc]. Collector: Keil, Pinkava, [Lehto 8321](#). Date: 13-V-1967 [13 mai 1967]. Det. Elinor Lehto. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F. Freytag, Dec 2 1991. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 3 racèmes, en floraison, hétérophylie, une tige florifère au départ d'une tige lignifiée diam. 9 mm. [ASU; 23-IX-2015].

35798. Herbarium. Arizona State University. /// Plants of [Arizona](#). Herbarium of Arizona State University. Leguminosae. *Phaseolus wrightii* Gray. County: Maricopa. Location: 3 miles north of Sunflower. Habitat: along Sycamore Creek. Elev.: ca. 2500 ft. [754 m]. Collector: Pinkava, Keil, Clark, [Lehto 12818](#). Date: 4-V-1968 [4 mai 1968]. Det. Elinor Lehto. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 3 racèmes, en floraison, une tige ascendante droite, folioles latérales avec lobation basale externe, type *latus*. [ASU; 23-IX-2015].

56993. Herbarium. Arizona State University. /// Plants of [Arizona](#). Herbarium of Arizona State University. Leguminosae. *Phaseolus angustissimus* Gray. County: Coconino. Location: Lake Mary. Habitat: ponderosa, near permanent lake. Elev.: [blanc]. Date: 30-VI-1973 [30 juin 1973]. Coll.: Pinkava, RK Brown & [Lehto 17770](#). Det.: E. Lehto. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 12 racèmes, en floraison. [ASU; 22-IX-2015].

84900. Herbarium. Arizona State University. /// Plants of [Arizona](#). Herbarium of Arizona State University. Leguminosae. *Phaseolus wrightii* Gray. County: Yavapai. Location: 14 mi NE Seven Springs, "51 Ranch" along Lime Creek. Habitat: Chaparral, along flowing stream. Elev.: [blanc]. Date: 1-VI-1976 [1^{er} juin 1976]. Coll.: T Reeves & [E Lehto L20185](#). Det. E. Lehto. /// *P. angustissimus* Gray, det. Buhrow & Nabhan 1984 [sic!]. Annotation – Herbarium of Arizona State University. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F. Freytag, Dec 2 1991. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 5 racèmes, en floraison, jgo, go vertes, folioles terminales et latérales avec lobation basale externe. [ASU; 22-IX-2015].

86941. Herbarium. Arizona State University. /// Plants of [Arizona](#). Herbarium of Arizona State University. Leguminosae. *Phaseolus acutifolius* Gray. County: Gila. Location: Rte 77, ca 2.5 mi above Salt River Canyon Bridge (Globe side). Habitat: N-facing slope, Pinon-Juniper-chaparral. Elev.: [blanc]. Date: 18-IX-1976. Coll.: Lyle McGill & [Elinor Lehto L20655](#). Dert. E. Lehto. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F. Freytag, Dec 2 1991. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 5 racèmes, en floraison, jgo. [ASU; 22-IX-2015].

Plants of [Arizona](#). Herbarium of Arizona State University. Leguminosae. *Phaseolus acutifolius* Gray. County: Gila, Location: Rte 77, ca 2.5 mi above Salt River Canyon Bridge (Globe side). [33°14'N. 110°53'W]. Habitat: N facing slope, pinyon juniper chaparral. Lyle McGill & [Elinor Lehto L20655](#). Date 18-IX-1976 [18 septembre 1976]. Det. E. Lehto. /// The University of Texas Herbarium. *Phaseolus angustissimus* A Gray, Alfonso Delgado S., 1982. /// DGD: *angustissimus*, tt début floraison, 2 racèmes, folioles très étroites. [NY; 10-VI-2003].

US410485. /// United States National Herbarium. Deposited by the Smithsonian Institution. /// Plants of [Arizona](#). *Phaseolus angustissimus* Gray. Dry slopes of Kendrick Mts. [Yavapai]. [34° 26'N. 112° 47'W]. Alt. 2500 meters [sic !]. No. [5660. JB Leiberg](#), collector. July 7, 1901 [7 juillet 1901]. /// *P. dilatatus* W. & S. [écrit à l'encre noire directement sur la planche]. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, plus de 12 racèmes, en floraison, jgo, jgo en transition à go vertes, go vertes avec stries violettes; base de tige lignifiée, plante en rosette avec tiges ascendantes ; folioles terminales avec petit lobe rond basal externe. [US; 31-VIII-2009].

MO5832019. PLANTS OF ARIZONA. Leguminosae. *Phaseolus angustissimus* Gray. USA. [ARIZONA](#). Yavapai County. Sedona. Below Deer Pass Rancho on Oak Creek; floodplain cobbles above and adjacent to creek, open disturbed area with partial shaded. 34° 48' 1"N; 111° 52' 54"W. Elev. 3590 ft. [1,095 m]. Associated species: *Heterotheca villosa*, *Chilopsis linearis*, *Amorpha fruticosa*, *Aristida purpurea*, *Gutierrezia sarothrae*, *Eragrostis curvula*, *Cynodon dactylon*, *Platanus wrightii*, *Cupressus arizonica*, *Bothriochloa bardinodsis*, *Prosopis velutina*. [M Licher 661](#). 2 August 2003 [2 août 2003]. Northern Arizona University, Deaver Herbarium (ASC). /// DGD: *angustissimus*, un racème, en début de floraison. [MO; 21-VI-2013].

California Academy of Sciences, plants of the Grand Canyon National Monument. Mohave county, [Arizona](#). *Phaseolus angustissimus* Gray var. *latus* ME Jones. Rare, south side of Vulcan's Throne in cinder soil, ca 4,500 feet elev. [1,370 m]. [36°22'N. 113°08'W]. [Elizabeth McClintock 52-544](#). May 10, 1952. /// DGD: *angustissimus*, en floraison. [ARIZ; 14-II-1979].

California Academy of Sciences. Plants of the Grand Canyon National Monument. Mohave county, [Arizona](#). *Phaseolus angustissimus* Gray var. *latus* ME Jones. Rare, south side of Vulcan's Throne in cinder soil, ca 4,500 feet elev. [1,370 m]. [36°22'N. 113°08'W]. [Elizabeth McClintock 52-544](#). May 10, 1952. /// The New York Botanical Garden leaf/ flower/ seed removed for anatomical/ chemical study, 30/IX/93 [30 septembre 1993], J Grimes. /// DGD: *angustissimus*, en floraison-jgo, 9 racèmes, folioles larges 9-15 mm large, légèrement lobées. [NY; 10-VI-2003].

UC85227. Plants of [Arizona](#). Collected in the vicinity of Flagstaff by Dr [DT MacDougal III](#). *Phaseolus wrightii* A Gray ?. [35°20'N. 111°53'W]. Altitude 7000 feet [2,130 m]. June 15, 1898. /// Herbarium of the University of California. *P. [sic!] angustissimus* Gray, determined by Oliver W Norvell, date 1-23-50. /// *Phaseolus angustissimus* A Gray, det. GF Freytag, 25 Mar 1985. /// DGD: *angustissimus*, en floraison, jgo, 2 tiges rampantes à base un peu ligneuse, important dimorphisme foliaire, folioles de la base de la plante petites larges et peu lobées, dans la partie terminale de la tige très étroites avec un petit lobe à la base des folioles latérales et terminales, 10 + 5 racèmes. [UC; 21-X-2003].

Plants of [Arizona](#), collected in the vicinity of Flagstaff by D^r [DT MacDougal 111](#). [35°20'N. 111°53'W]. *Phaseolus wrightii* A. Gray?, altitude 7000 feet [2,130 m], June 15 1898. /// Herbarium Barbey-Boissier, constitué par William Barbey, après la mort de son beau-père Edmond Boissier (1885); donné en 1918 par les enfants de W. Barbey, à l'Université de Genève où il fut augmenté par différents collaborateurs, transféré en 1944 au Conservatoire botanique. /// DGD: *angustissimus*, 2 planches, en floraison, 4 + 6 racèmes. [G; 15-II-2002].

40971 [écrit à l'encre rouge au bas de la planche]. /// E.W.D. Holway Herbarium 186 [cachet 'sec', en relief, circulaire]. /// Plants of [Arizona](#). Collected in the vicinity of Flagstaff by D^r [D T MacDougal. III](#). *Phaseolus wrightii* A. Gray ? [35°20'N. 111°53'W]. Altitude, 7000 feet [2,130 m]. June 15, 1898 [15 juin 1898]. /// *P. angustissimus* [écrit au crayon noir directement sur la planche]. /// DGD: *angustissimus*, 3 fragments de tiges ascendantes, en floraison, jgo, 8 racèmes, qq folioles latérales et ensuite les terminales avec clair lobe latéral basal. [ISC; 19-IV-2010].

Herb. Lugd. Bat. N°. 908.120 - 2308. /// 501280 [cachet à l'encre violette]. /// Plants of [Arizona](#). Collected in the vicinity of Flagstaff by D^r [D T MacDougal. III](#) *Phaseolus Wrightii* A. Gray ? [35°20'N. 111°53'W]. Altitude 7000 feet [2,130 m]. June 15, 1898. /// DGD: *angustissimus*, 7 racèmes, en début de floraison, deux tiges ascendantes au départ d'une tige lignifiée. [L; 15-X-2007].

Plants of [Arizona](#) collected in the vicinity of Flagstaff by D^r [DT MacDougal. 111](#). [35°20'N. 111°53'W]. *Phaseolus wrightii* A Gray ? Altitude 7000 feet [2,130 m]. June 15, 1898. /// *Phaseolus angustissimus* A Gray, det. JA Lackey, April 1980. /// DGD: *angustissimus*, en floraison, 8 racèmes, petites folioles lobées à la base. [NY; 10-VI-2003].

Plants of [Arizona](#). Collected in the vicinity of Flagstaff by D^r [DT MacDougal 111](#). *Phaseolus wrightii* A Gray ? [35°20'N. 111°53'W]. Altitude 7000 feet [2,130 m]. June 15, 1898. /// DGD: *angustissimus*, en floraison, 7 racèmes, base tige est ligneuse, folioles latérales légèrement lobées à la base des folioles. [NY; 12-VI-2003].

Herb. Mus. Paris. Herbarium E. Drake. /// Plants of [Arizona](#). Collected in the vicinity of Flagstaff by D^r [DT MacDougal. 111](#). [35°20'N. 111°53'W]. *Phaseolus wrightii* A Gray ? Altitude 7000 feet [2,130 m]. June 15, 1898. /// DGD: *angustissimus*, 9 racèmes, en floraison, base de la tige un peu lignifiée, développement hétéroblastique, les feuilles de la partie supérieure avec lobation tant sur les folioles latérales que terminales. [P; 12-II-2004].

Plants of [Arizona](#). Collected in the vicinity of Flagstaff by D^r [D T MacDougal. III](#). *Phaseolus wrightii* A Gray ? [35°20'N. 111°53'W]. Altitude 7000 feet. June 15, 1898. /// *P. angustissimus* CVP [écrit au crayon noir sur la planche par CV Piper lui-même]. /// ANSPHILA [cachet perforé]. /// DGD: *angustissimus*, 9 racèmes en floraison, j go, 2 tiges robustes ascendantes, folioles étroites longuement triangulaires tant les terminales que les latérales avec petit lobe basal bien marqué. [PH; 13-IX-2007].

US334206. /// United States National Herbarium. Deposited by the Smithsonian Institution. /// Plants of [Arizona](#). Collected in the vicinity of Flagstaff by D^r [DT MacDougal. 111](#). *Phaseolus wrightii* A. Gray ? [35°20'N. 111°53'W]. Altitude 7000 feet [2,130 m]. June 15, 1898 [15 juin 1898]. /// *P. dilatatus* (W. & S.) TK [écrit à l'encre noire sur la planche, par T.H. Kearney]. /// *Phaseolus angustissimus* Gray, déterminé A. Delgado S., 1977. Colegio de Postgraduados, Chapingo, México, MEXICO. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, 8 racèmes, en floraison, jgo, qq folioles terminales et latérales avec lobe basal externe. [US; 1-IX-2009].

Herbarium of the New York Botanical Garden. Plants of [Arizona](#). No. [11789](#). *Phaseolus angustissimus* A Gray. Greenlee Co., south of Clifton above San Francisco River banks at base of conglomerate cliff with

mesquite and *Euphorbia*. [33°02'N. 109°13'W]. Collected by [Bassett Maguire](#). June 5, 1935. /// DGD: *angustissimus*, en jgo, go vertes, 6 racèmes, développement de l' hétérophylie, la base de la tige est ligneuse. [NY; 10-VI-2003].

Herbarium of the New York Botanical Garden. Plants of [Arizona](#). no. 12034. *Phaseolus angustissimus* Gray. Graham Co.: Graham Mountains, Marijilda Canyon. [32°54'N. 109°55'W]. Northeast, rocky slopes. Collected by [Bassett Maguire](#). June 2, 1935. /// DGD: *angustissimus*, en floraison, jgo, go vertes, 4 racèmes, développement de l' hétérophylie, la base de la tige est ligneuse, quelques folioles latérales avec petit lobe à la base. [NY; 10-VI-2003].

ASU248304. /// Plants of Arizona. Arizona State University. *Phaseolus angustissimus* Gray. Family: Fabaceae. [Arizona](#), Cochise County; San Pedro Riparian National Conservation Area. Upper San Pedro River floodplain at Fairbank, ~1/2 mile east of San Pedro, north side of Hwy 82, N 31° 43.71', W 110° 10.59', 3972 ft. [1,198 m]. Habitat: roadside, adjacent to desert scrub. Associated spp.: *Acacia constricta*, *Mimosa biuncifera*, *Dalea neomexicana*, *Acacia greggii*, *Prosopis velutina*. Notes: perennial, clambering vine-like, corolla pinkish, common along road. Collected by: [Elizabeth Makings](#) 1110. 15 July 2002 [15 juillet 2002]. /// DGD: *angustissimus*, 6 racèmes, en floraison, jgo, jgo en transition à go verte, go verte. [ASU; 22-IX-2015].

ASU247601. /// Plants of Arizona. Arizona State University. *Phaseolus angustissimus* A. Gray. Family: Fabaceae. Det.: E. Makings. [Arizona](#), Cochise Co., San Pedro Riparian National Conservation Area, Upper San Pedro River floodplain, just off HWY 82 east of Fairbank, approximately ½ mile from San Pedro. 3800 ft. 1159 m. Habitat: upland desert scrub, whitehorn-mesquite, disturbed. Associated spp.: *Acacia constricta*, *Prosopis velutina*, *Bothriochloa barbinodis*, *Sporobolus contractus*, *Pectis prostrata*, *Pectis cylindrica*, *Phaseolus angustissimus*, *Kallstroemia grandiflora*, *Mentzelia asperula*. Notes: perennial spreading vine, flowers purple-magenta. Occasional. Voucher specimen for botanical inventory of the San Pedro Riparian National Conservation Area. Collected by: [E Makings](#) 1397. 22 September 2002. /// DGD: *angustissimus*, 9 racèmes, en floraison. [ASU; 22-IX-2015].

Plants of [Arizona](#). Arizona State University. *Phaseolus angustissimus* Gray. Family: Fabaceae. Det. E. Makings. [Arizona](#), Cochise Co., San Pedro Riparian National Conservation Area, Upper San Pedro River floodplain, just off HWY 82 east of Fairbank, approximately ½ mile from San Pedro, 3800 ft., 1159 m. Habitat: upland desert scrub, whitethorn-mesquite, disturbed. Associated spp: *Acacia constricta*, *Prosopis velutina*, *Bothriochloa barbinodis*, *Sporobolus contractus*, *Pectis prostrata*, *Pectis cylindrica*, *Phaseolus angustissimus*, *Kallstroemia grandiflora*, *Mentzelia asperula*. Notes: perennial spreading vine, flowers purple-magenta [sic!]. Occasional. Voucher specimen for botanical inventory of the San Pedro Riparian National Conservation Area. Collected by: [E Makings](#) 1397. 22 september 2002. /// DGD: *angustissimus*, 3 racèmes, en floraison. [NY; 18-II-2014].

Terrestrial Ecosystems Survey, Southwest Region 3. *Phaseolus angustissimus* Gray. USA. [Arizona](#). Gila County. Tonto National Forest; Pinal Mountains; Russel Gulch, 1.5 miles as the crow flies northwest of Signal peak, near FS Road 651. 33° 18.232'N, 110° 51.578'W. Elevation 4363 ft. [1,330 m]. Habitat: broadleaf deciduous riparian, uplands; Ponderosa pine, grey oak, alligator juniper. Assoc. spp: riparian: *Acer negundo*, *Platanus wrightii*, *Juglans major*, *Fraxinus velutina*, *Frangula californica*, *Alnus oblongifolia*, *Elymus*; uplands: *Pinus ponderosa*, *Quercus grisea*, *Juniperus deppeana*. Notes: pinkish-flowered vine, perennial. [Elizabeth Makings](#) 2757, with Andy Casillas. 13 September 2007 [13 septembre 2007]. /// DGD: *angustissimus*, 5 racèmes, en floraison, folioles latérales avec petit lobe basal. [NY; 18-II-2014].

UCR201334. /// Terrestrial Ecosystems Survey, Southwest Region 3. Fabaceae. *Phaseolus angustissimus* Gray. USA. [Arizona](#). Gila County. Tonto National Forest; Pinal Mountains; Russel Gulch, 1.5 miles as the crow flies northwest of Signal peak, near FS Road 651. 33° 18.232'N, 110° 51.578'W [sic!]. Elevation 4363 ft. Habitat: broadleaf deciduous riparian, uplands; Ponderosa pine, grey oak, alligator juniper. Assoc. spp:

riparian: *Acer negundo*, *Platanus wrightii*, *Juglans major*, *Fraxinus velutina*, *Frangula californica*, *Alnus oblongifolia*, *Elymus*; uplands: *Pinus ponderosa*, *Quercus grisea*, *Juniperus deppeana*. Notes: pinkish-flowered vine, perennial. [Elizabeth Makings 2757](#), with Andy Casillas. 13 September 2007. /// Entered into UCR database. /// DGD: *angustissimus*, 6 racèmes, en floraison, jgo, hétérophylie, folioles tant terminales que latérales avec esquisse de lobation basale. [UCR; 18-VIII-2014].

103299. Herbarium. Arizona State University. /// Plants of [Arizona](#). Leguminosae. *Phaseolus grayanus* Woot. & Standl. County: Graham. Location: Upper Gila River drainage. Goat Canyon, tributary to Bonita Creek. Habitat: [blanc]. Elev.: [blanc]. Date: 20-IV-1978. Coll.: [LA McGill LAM2365](#). Det.: E. Lehto. Herbarium of Arizona State University. /// *Phaseolus angustissimus* Gray. Det.: R. Buhrow, 3-14, 1984. Annotation - Herbarium of Arizona State University. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 6 racèmes, en floraison, jgo, plante entière avec base lignifiée et tiges ascendantes, qq folioles tant terminales que latérales avec lobation externe à la base. [ASU; 22-IX-2015].

Plants of [Arizona](#). Leguminosae. *Phaseolus grayanus* Woot. & Standl. County: Graham. Location: Upper Gila River drainage. Goat Canyon, tributary to Bonita Creek. [32°55'27"N. 109°29'25"W]. Habitat: [blanc]. Collector: [L A McGill LAM 2365](#). Elev. [blanc]. Date: 20-IV-1978 [20 avril 1978]. Det. E. Lehto. Herbarium of Arizona State University. /// The University of Texas Herbarium. Systematic Revision of *Phaseolus*. *Phaseolus angustissimus* A.Gray, Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS, USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A.Gray, det. George F. Freytag, May 26, 1988. /// DGD: *angustissimus*, 3 racèmes, en floraison, j go, hétérophylie, folioles latérales et terminales avec lobe rond externe à la base. [TEX; 12-VIII-2008].

M. & S. Herbarium – [Arizona](#). *Phaseolus angustissimus* Gray. Oak Creek Canyon, 2 miles up from Indian Gardens. Flowers reddish purple. Coconino county. May 24, 1936 [24 mai 1936]. [CW McLellan](#), LL Stitt, collectors No. [888](#). /// DGD: *angustissimus*, 3 racèmes, en floraison. [ASU; 22-IX-2015].

University of North Carolina Herbarium. 475633. /// University of Arizona Herbarium. Plants of [Arizona](#). *Phaseolus angustissimus* Gray. Road 1.2 miles west of Hillside Mine west of Bagdad. Elevation 3,000 feet [900 m]. On side of road. Mohave county. [R McManus](#), A Sherif, J & C Busman, S McLaughlin, Paul Fugate [19](#). 11 April 1976 [11 avril 1976]. /// DGD: *angustissimus*, 4 racèmes, en floraison, folioles 33x23 mm avec esquisse de lobation à la base. [NCU; 23-VIII-2011].

University of Arizona Herbarium. Plants of [Arizona](#). *Phaseolus angustissimus* Gray, det. CT Mason J'. 1967. In an area cleared for the high tension electric line leading from Leupp Highway to Sunset Crater, Coconino County. [35°13'N. 111°20'W]. [coll.] [CT Mason Jr 2631](#), [RH Hevly](#), [WG Solheim](#). June 4, 1967 [4 juin 1967]. /// DGD: *angustissimus*, en floraison. [ARIZ; 14-II-1979].

MIN610782 /// University of Arizona Herbarium. Plants of [Arizona](#). *Phaseolus angustissimus* Gray, (det by C.T. Mason Jr., 1967). In an area cleared for the high tension electric line leading from Leupp Highway to Sunset Crater. [35°13'N. 111°20'W]. [CT Mason Jr. 2631](#), [RH Hevly](#), [WG Solheim](#). Coconino County. June 4, 1967. /// DGD: *angustissimus*, partie de repousse de plante, scandens, 4 racèmes, en floraison, jgo, go verte, folioles petites triangulaires avec lobation à la base, latérales et terminales. [MIN; 16-IV-2010].

UC1359577. University of Arizona Herbarium. Plants of [Arizona](#). *Phaseolus angustissimus* Gray, det. CT Mason J'. 1967. In an area cleared for the high tension electric line leading from Leupp Highway to Sunset Crater, Coconino County. [35°13'N. 111°20'W]. [coll.] [CT Mason Jr 2631](#), [RH Hevly](#), [WG Solheim](#). June 4, 1967. /// *Phaseolus angustissimus* A Gray, det. GF Freytag, 25 Mar 1985. /// DGD: *angustissimus*, en floraison, jgo, 8 racèmes, une longue tige rampante, intéressant dimorphisme foliaire avec folioles à la base

plus larges que dans la partie terminale, certaines folioles terminales et latérales avec petit lobe à la base. [UC; 20-X-2003].

University of North Carolina Herbarium. 341262. /// University of Arizona Herbarium. Plants of [Arizona](#). *Phaseolus angustissima* Gray [sic!]. On cinder tallus near Lava Falls trail; elevation ca. 4,000 feet [1,220 m]. [36° 12'N. 113° 04'W]. Mohave County. [CT Mason 2808](#), R Gilbertson, R Hevly. June 7, 1968 [7 juin 1968]. /// DGD: *angustissimus*, 4 racèmes, en go vertes, go sèche, tiges 'scandens' à base lignifiée, folioles avec esquisse de lobation à la base. [NCU; 23-VIII-2011].

ASU151292. /// Plants of Arizona. Herbarium of Arizona State University. Leguminosae. *Phaseolus acutifolius* Gray. [[Arizona](#)]. County: Graham. Location: Bonita Creek, Goat Canyon. Habitat: Riparian with cottonwood and hillside. Elev.: 3300' [996 m]. Date: 20-VI-1977 [20 juin 1977]. Coll.: [WL Minckley](#) & associates. Det. E. Lehto. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F. Freytag, Dec 2 1991. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 4 racèmes, en début de floraison; pas de numéro de collecte. [ASU; 22-IX-2015].

35847. Herbarium. Arizona State University. /// Plants of [Arizona](#). Herbarium of Arizona State University. Leguminosae. *Phaseolus angustissimus* Gray. County: Maricopa. Location: Sunflower. Habitat: in boulders along creek. Elev.: ca. 2500' [754 m]. Date: 1-V-1966 [1^{er} mai 1966]. Collector: [Marlene Mishler](#). Det. Elinor Lehto. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 6 racèmes, en début de floraison; pas de numéro de collecte. [ASU; 22-IX-2015].

UCR43982. /// ex Herbarium [James D. Morefield](#). Coll. No. 2782. Dupl (d). Date 09 Jul 1985 [9 juillet 1985]. Elev. 7400 ft. [2,255 m]. Plants of: Elden Mountain, Flagstaff, Coconino Co., [Arizona](#), USA. *Phaseolus angustissimus* Gray. NARROWLEAF BEAN. Prostrate creeping perennials, petal salmon pink. 0.5 mile due south of Little Elden Spring at the northeast base, T22 R8E S19. [35° 15'30"N, 111° 34'20"W]. Coarse dacitic colluvium sloping 10° E, interior chaparral in 8th year fire successional with *Cercocarpus*, *Quercus*, *Yucca*, *Amelanchier*, *Penstemon* and *Artemisia*. Sporadic in open areas. /// Specimen data entered into UCR database. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F Freytag, Apr 6 1992. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 4 racèmes, en floraison, jgo, go vertes, folioles tant terminales que latérales avec esquisse de lobation basale ; James D Morefield et 2782 sont le collecteur et numéro de collecte. [UCR; 18-VIII-2014].

UC536834. Pomona College Herbarium. Plants of [Arizona](#). *Phaseolus*. Fls rose-lavender; plant trailing under pines. 18 mi NE of Flagstaff, Coconino County. [35°21'N. 111°52'W]. Date Aug. 7, 1934 [7 août 1934]. Alt. 7500 ft [2,285 m]. Coll. [PA Munz. no. 13073](#). /// Herbarium of the University of California. *P.* [sic!] *angustissimus* Gray, determined by Oliver W Norvell, date 1-23-50 [23 janvier 1950]. /// *Phaseolus angustissimus* A Gray, det. GF Freytag, 25 Mar 1985. /// DGD: *angustissimus*, en floraison, jgo, une plante avec base de tige et racine cylindrique étroite diam. 4 mm, 6 racèmes; tiges rampantes, important dimorphisme foliaire, folioles latérales avec lobe à la base. [UC; 21-X-2003].

ASU179568. /// [Arizona](#). Yavapai County. *Phaseolus angustissimus* Gray. W of Santa Maria Mts., and just W of Connell Mts., Connell Gulch: 1.5 miles S of Yolo Ranch Airstrip along Forest Service Road 21. T16N R7W SW ¼ sec. 14. Slow moving water at bottom of 15 ft. deep gully in probable former meadow surrounded by Ponderosa pine forest. Aquatics and semi- aquatics abundant. Elev. ca 5900 ft. [1,780 m]. [Bruce D Parfitt 4144](#), Kathy Roberts. 1 October 1989. Arizona State University – ASU. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A.

Gray, det. George F. Freytag, Dec 2 1991. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 7 racèmes, en floraison, jgo, go vertes, go sèches. [ASU; 23-IX-2015].

US2388253. *Phaseolus angustissimus* A. Gray, det. Dr F.J. Hermann, 1962. [Arizona](#), Maricopa, Tonto Nat'l. Forest, Cave Creek. Sec. T7N, R5E. [33° 34'N. 112° 06'W]. Alt. 3,500 ft. [1,060 m]. Slope 15%. Exposure NE. Veg. Open chaparral - semi desert grass. Assoc. plants: *Quercus turbinella*, *Acacia gregii*, *Berberis haematocarpa*. Flower color bright fuschia. Wings of the corolla divergent; leaves without tendrils. Collector [CP Pase](#). Date 10/6/58 [6 octobre 1958]. Collector's No. [1020](#). Forest Service Herbarium. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, 3 racèmes, en début de floraison, base de tige lignifiée. [US; 1-IX-2009].

89690. Herbarium. Arizona State University. /// Forest Service Herbarium. US Department of Agriculture. *Phaseolus angustissimus* A. Gray, det. C. Feddema 1977. [Arizona](#). Yavapai. Coconino Forest, Dry Beaver Creek near Beaverhead Spring. S1T 15N R6E. Alt. 3600' [1,086 m]. Veg. assoc.: Sycamore, velvet ash, Fremont cottonwood. Flower lavender corolla. Coll. [CP Pase 2149](#). Date: 13-X-1976 [13 octobre 1976]. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 7 racèmes, en floraison, jgo, go vertes, go sèches. [ASU; 22-IX-2015].

US563091. /// United States National Museum. Deposited by the U.S. Department of Agriculture. /// Plants of [Arizona](#). Collected under the direction of the Coconino Forest Experiment Station. *Phaseolus angustissimus* A. Gray. Near cliffs – 6600 ft. [2,011 m]. Coconino National Forest and vicinity. No. [53](#). [GA Pearson](#), collector. Sept. 1, 1908 [1^{er} septembre 1908]. /// *P. dilatatus* W. & S. [écrit à l'encre noire directement sur la planche]. /// looks like typical *P. angustissimus* (THK [= T.H. Kearney]) [écrit au crayon noir sur la planche]. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, 8 racèmes, en floraison, jgo, go verte. [US; 31-VIII-2009].

US1368164. /// United States National Museum. Deposited by the U.S. Department of Agriculture. /// Plants of Southern [Arizona](#). *Phaseolus angustissimus* Gray. Near Prescott. [Yavapai]. [34° 32'20"N. 112° 28'W]. No. [4316](#). [RH Peebles](#), GJ Harrison, TH Kearney, collectors. July 17/27 [17 juillet 1927]. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 28 Mar 1985. /// DGD: *angustissimus*, 4 racèmes, en floraison, jgo, go verte à stries violettes, folioles terminales et latérales avec petit lobe rond à la base. [US; 1-IX-2009].

US1729315. /// United States National Museum. Deposited by the U.S. Department of Agriculture. /// Plants of [Arizona](#). *Phaseolus angustissimus* var. *dilatatus* (W. & S.). 50 miles north of Williams, Coconino County. [35° 58'N. 112° 07'30"W]. Elev. 6800 ft. [2,070 m]. No. [13324](#). [RH Peebles](#), EG Smith, collector. June 7, 1937 [7 juin 1937]. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, 10 racèmes, en floraison, folioles terminales et latérales avec esquisse de lobation basale, base de tige lignifiée diam. 6 mm. [US; 1-IX-2009].

35837. Herbarium. Arizona State University. /// Plants of [Arizona](#). Herbarium of Arizona State University. Leguminosae. *Phaseolus acutifolius* Gray ? County: Gila. Location: Robert's burn area, Tontozona. Habitat: open hillside. Elev.: [blanc]. Date: 28-VII-1965 [28 juillet 1965]. Coll.: [DJ Pinkava 2355](#). Det.: Elinor Lehto. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F. Freytag, Dec 2 1991. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 4 racèmes, en floraison. [ASU; 22-IX-2015].

141361. Herbarium. Arizona State University. /// Plants of [Arizona](#). Herbarium of Arizona State University. Leguminosae. *Phaseolus angustissimus* Gray. County: Maricopa. Location: 1.7 miles north of Sunflower along Sycamore Creek. Habitat: Riparian habitat. Elev.: [blanc]. Collector: Taylor & [Pinkava 4366](#). Date: 23-IX-1967 [23 septembre 1967]. Det.: Elinor Lehto. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F. Freytag, Dec 2 1991. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 9 racèmes, en floraison, jgo, go vertes. [ASU; 23-IX-2015].

University of North Carolina Herbarium. 388319. /// Plants of [Arizona](#). Herbarium of Arizona State University. Leguminosae. *Phaseolus angustissimus* Gray. County: Coconino. Location: Sycamore Canyon Wilderness Area. [34° 57'30"N. 111° 58'W]. Rocky canyon in desert grassland area. Scattered Pinon Pine and Juniper on upper slopes. Habitat: Red sandstone with occasional basalt caps. Twining and trailing in sandy soil near stream. Elev. [blanc]. Collector [DJ Pinkava](#), Robert Stewart & David Keil. [5869](#). Date 11-X-1969 [11 octobre 1969]. Det. Elinor Lehto. /// DGD: *angustissimus*, 8 racèmes, en floraison, j go, j go en transition à go vertes, go vertes. [NCU; 23-VIII-2011].

United States National Arboretum. Washington D.C. cachet à l'encre noire sans numéro. /// Plants of [Arizona](#). Herbarium of Arizona State University. Leguminosae. *Phaseolus wrightii* Gray. County: Maricopa. Loc: Ariz. 87 at Bushnell Tanks (north of Sunflower). [33°54'N. 111°28'W]. Habitat: riparian. Collector: [Pinkava, Moore, Lehto 6084](#). Date: 30-IV-1966 [30 avril 1966]. Det. Elinor Lehto. /// DGD: *angustissimus*, 3 + 2 racèmes, en floraison, 2 fragments de tiges érectes forte, folioles terminales et latérales avec esquisse de lobe à la base. [NA; 18-VII-2006].

Plants of [Arizona](#). Herbarium of Arizona State University. Leguminosae. *Phaseolus angustissimus* Gray. County: Gila, location: Pinal Mountains, 1.6 miles below Pioneer Pass summit. [33°20'N. 110°54'W]. Habitat: along stream. Collector: [Pinkava, Keil, Lehto 13368](#). Date 7-IX-1968 [7 septembre 1968]. Det. David Keil. /// DGD: *angustissimus*, en floraison, jgo, 3 racèmes, folioles taille intermédiaire longues, légère tendance à formation de lobes à la base folioles. [NY; 10-VI-2003].

Plants of Western North America. Herbarium of Southern Methodist University. *Phaseolus angustissimus* Gray. [Arizona](#), Coconino Co.: 10 miles north of Flagstaff, San Francisco Peaks. [35°20'N. 111°53'W]. South slopes, gravelly silty road cut. Trailing, petals pinl [sic!]; keel contorted. [SJ Preece Jr. & BL Turner 2635](#). June 22, 1951. /// DGD: *angustissimus*, en floraison, 4 jgo, plus de 15 racèmes, tiges droites rampantes ou dressées un peu courbées dans parties terminales, base plante lignifiée diamètre 8-9 mm 3 cm long. [BRIT; 23-II-2002].

MO1731216. No. [34](#). FLORA OF THE DESERT REGION. Southwestern California to Southern Utah. *Phaseolus acutifolius* Gray. Elder Mts [mal écrit à l'encre noire]. [Arizona](#), [C A Purpus](#). May-Oct. 1902. Alt. [blanc]. /// *P. angustissimus* Gray CVP [écrit au crayon noir sur la planche]. /// Missouri Botanical Garden. /// The University of Texas Herbarium. Systematic Revision of *Phaseolus*. *Phaseolus angustissimus* A. Gray. Alfonso Delgado S. 1985. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray. Det. George F. Freytag, Jun 23 1986. /// DGD: *angustissimus*, un racème, en floraison; 'mixed specimen' avec un *Cologania* qui est même dominant sur la planche. [MO; 21-VI-2013].

UC82398. No. [34](#). Flora of the Desert Region. Southwestern California to Southern Utah. *Phaseolus acutifolius* Gray. Cedar Mts. [32°45'N. 110°05'W]. [Arizona](#), [CA Purpus](#). May-Oct 1902. /// Herbarium of the University of California. *Phaseolus angustissimus* Gray, determined by Oliver W Norvell, date 2-1-1951 [1^{er} février 1951]. /// *Phaseolus angustissimus* A Gray, det. GF Freytag, 25 Mar 1985. /// DGD: *angustissimus*, en floraison, jgo, go vertes, 8 racèmes, 1 plante, base un peu ligneuse. [UC; 20-X-2003].

US505023. N^o. 34. Flora of the Desert Region. Southwestern California to Southern Utah. *Phaseolus acutifolius* Gray. Elder Mts. [Arizona](#). [CA Purpus](#). Alt. [blanc]. May – Oct., 1902. /// *P. dilatatus* W. & S. [écrit à l'encre noire directement sur la planche]. /// *P. angustissimus* (THK) [écrit au caryon noir sur la planche]. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 28 Mar 1985. /// DGD: *angustissimus*, 7 racèmes, en floraison, go vertes avec stries violettes, go sèche. [US; 31-VIII-2009].

MO1731205. No. 8180. FLORA OF THE DESERT REGION. Southwestern California to Southern Utah. *Phaseolus wrightii* Gray. Red Mt. [Arizona](#). [C A Purpus](#). May-Oct. 1901. Alt. [blanc]. /// Missouri Botanical Garden. /// *P. grayanus* CVP [écrit au crayon noir sur la planche]. /// The University of Texas Herbarium. Systematic Revision of *Phaseolus*. *Phaseolus angustissimus* A. Gray. Alfonso Delgado S. 1985. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray. Det. George F. Freytag, Jun 23 1986. /// DGD: *angustissimus*, deux tiges rampantes, 4+4 racèmes, en floraison, jgo, jgo en transition à go verte, folioles terminales et latérales avec lobe basal. [MO; 21-VI-2013].

UC82388. No. 8180. Flora of the Desert Region. Southwestern California to Southern Utah. *Phaseolus wrightii* Gray. Red Mt. [Red Mountain; county unknown; 31°24'29"N. 109°57'31"W pour Red Mountain dans le Cochise Co.]. [Arizona](#). [CA Purpus](#). May-Oct 1901. /// Herbarium of the University of California. *P.* [sic!] *angustissimus* Gray, determined by Oliver W Norvell, date 1-23-50. /// *Phaseolus angustissimus* A Gray, det. GF Freytag, 25 Mar 1985. /// DGD: *angustissimus*, en floraison, jgo, go vertes, 14 racèmes, 1 plante entière avec racine ligneuse cylindrique, base de la partie aérienne en rosette avec tiges rampantes, folioles petites, qq folioles latérales avec lobe à la base. [UC; 20-X-2003].

US505285. /// United States National Museum. /// No. 8180. Flora of the Desert Region. Southwestern California to Southern Utah. *Phaseolus wrightii* Gray. Red Mt.. [Arizona](#). [31°24'29"N. 109°57'31"W]. Alt. 8000 [sic!; 2,430 m]. [CA Purpus](#). May - Oct. 1901. /// *P. dilatatus* (W. & S.) TK [écrit à l'encre noire sur la planche, par T.H. Kearney]. /// *Phaseolus angustissimus* Gray, déterminé A. Delgado S., 1977. Colegio de Postgraduados, Chapingo, México, MEXICO. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, plus de 12 racèmes, en floraison, jgo, jgo en transition à go vertes, go verte, qq folioles terminales et latérales avec lobe basal externe. [US; 1-IX-2009].

ASU 191454. /// Plants of [Arizona](#). Arizona State University. [espace laissé blanc pour l'espèce]. Pinal County. Superstition Wilderness Area. Miles Ranch Trailhead, near Paradise Spring. Forest Rd. 287, approx.. 12 miles from U.S. Hwy 60 turnoff to Magma Copper Mine. Trail 271. T1N R12E S13 & 24. Associated with *Cupressus arizonicus*, *Juniperus erythocarpa*, *Quercus dunni*, *Quercus emoryi*. 4000 ft. [1,207 m]. [Kathleen C Rice 1458](#), with M Chamberland & C Christy. 20 Sept 1992 [20 septembre 1992]. /// *Phaseolus angustissimus* Gray, det. K. Rice, April 1994. Arizona State University. /// DGD: *angustissimus*, en floraison, jgo, go vertes, plus de 12 racèmes. [ASU; 21-IX-2015].

MO3538261. COLORADO STATE UNIVERSITY HERBARIUM. Flora of: [Arizona](#). *Phaseolus angustissimus* Gray. Petals pink, common prostrate vine on cinder soil with *Bouteloua*. Coconino Co.; 1 mile east of the jct. of US 89 on Forest Service road 776. Sunset Crater West Quad. R8E T22N Sec. 3. [J Ricketson](#) 6800 ft. [2,070 m]. Aug. 21 1983 [21 août 1983]. 655. /// *P. angustissimus* Gray var. *latus* Jones, det. J. Ricketson. Date 3-4-84. /// DGD: *angustissimus*, 3 tiges rampantes ascendants au départ d'une base lignifiée, 10 racèmes, en floraison, jgo, jgo en transition à go verte. [MO; 21-VI-2013].

MO3538262. J. RICKETSON HERBARIUM. Plants of: [Arizona](#). *Phaseolus angustissimus* Gray var. *latus* Jones, Petals purple, scattered perennial with *Pinus* and *Linaria*. Coconino Co.; Mt. Elden, collected along Trail # 44, trailhead at Elden Ranger Station in East Flagstaff. East Flagstaff Quad. R8E T21N Sec. [35° 15'N. 111° 36'W]. 6. May 26, 1984 [26 mai 1984]. 7000 ft. [2,130 m]. [J Ricketson 1273](#). /// DGD:

angustissimus, 4 racèmes, en floraison, jgo, folioles terminales et latérales avec lobe basal. [MO; 21-VI-2013].

The University of Michigan – 1817 – Artes Scientia Veritas [cachet à l'encre noire]. /// Flora Americae Borealis. Ex Herbario Parke, Davis & Co. *Phaseolus wrightii* Gray. Loc [Arizona](#). Leg. [H H Rusby](#). Temp. coll. 1883. /// The University of Texas Herbarium. *Phaseolus angustissimus* A. Gray, Alfonso Delgado S., 1983. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F Freytag, Jan 29 1988. /// DGD: *angustissimus*, portion basale de tige ascendante non volubile, 6 racèmes, en floraison, j go, folioles variables certaines triangulaires et longuement acuminées, d'autres linéaires étroites, certaines avec lobe basal externe rond marqué 10-40 mm long 4-10 mm large. [MICH; 17-IX-2007].

US83898. Flora of [Arizona](#). N°. [blanc]. *Phaseolus angustifolius* Gray [sic !]. Flagstaff. [35°20'N. 111°53'W]. Leg. [HH Rusby](#). Sept. 1, 1883 [1^{er} septembre 1883]. /// Herb. United States Department of Agriculture. *Phaseolus angustissimus* Gray. Locality: Arizona. Collector: H.H. Rusby. Sept. 1, 1883. /// *P. dilatatus* W. & S. [écrit à l'encre noire directement sur la planche]. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 29 Mar 1985. /// DGD: *angustissimus*, plus de 12 racèmes, en floraison, jgo, jgo en transition à go vertes, go verte. [US; 1-IX-2009].

University of Michigan – Herbarium [cachet en relief]. /// Flora of [Arizona](#). No. 582. *Phaseolus Wrightii* Gray [sic!]. Banghart's Ranch. Leg. [H H Rusby](#). June 3, 1883 [3 juin 1883]. /// Herbarium of Parke, Davis & Company. Presented to the University of Michigan, 1933. /// The University of Texas Herbarium. *Phaseolus angustissimus* A. Gray, Alfonso Delgado S., 1983. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F Freytag, Jan 29 1988. /// DGD: *angustissimus*, deux plantes entières avec racine fibreuse pivotante dont une avec diam 6-7 mm, tiges ascendantes non volubiles, plus de 3+4 racèmes, en floraison, j go, j go en transition à go verte, go sèche, folioles variables 30-40 mm long 6-12 mm large certaines lobées avec lobe basal marqué. [MICH; 17-IX-2007].

University of Michigan – Herbarium [cachet en relief]. /// Ex Herb. Parke, Davis & Co. Flora Eastern U.S. [barré]. No. 582. *Phaseolus Wrightii* Gray [sic!]. Flagstaff, [A\[rizona\]](#).T. Leg. [Henry H. Rusby](#). Sept 1883 [? septembre 1883]. /// NO Leguminosae [écrit au crayon noir sur la planche]. /// The University of Texas Herbarium. *Phaseolus angustissimus* A. Gray, Alfonso Delgado S., 1983. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F Freytag, Jan 29 1988. /// This No. Specimen at US gives: Banghart's Ranch, A T (Arizona Territory), 3 Jun 1883. GFF [note à l'encre bleue écrite par George, directement sur la planche]. /// DGD: *angustissimus*, plusieurs portions de tiges ascendantes non volubiles, spécimen est stérile, mais feuilles trifoliolées stipulées stipellées, présence de poils uncinulés, folioles variables triangulaires et longuement acuminées avec variégaion, certaines avec ébauche de lobe basal 10-40 mm long 8-20 mm large. [MICH; 17-IX-2007].

Flora of [Arizona](#). No. 582. *Phaseolus wrightii* Gr. Bangharts Ranch. Leg. [H H Rusby](#). June 3, 1883. /// Herbarium of Academy of Natural Sciences, Philadelphia. *Phaseolus wrightii* Gr. /// *P. angustissimus* CVP [écrit au crayon noir sur la planche par CV Piper lui-même]. /// DGD: *angustissimus*, 3 racèmes en go vertes, 3 tiges robustes ascendantes, folioles longuement triangulaires tant les terminales que les latérales avec lobe basal. [PH; 13-IX-2007].

US78189. Flora of [Arizona](#). No. [blanc]. *Phaseolus wrightii*. Bangharts Ranch [sic !]. Leg. [HH Rusby](#). June 3, 1883 [3 juin 1883]. /// Herb. United States Department of Agriculture. *Phaseolus angustissimus* A. Gray. The label appears to belong to some other plant as the specimens [sic !] is the same evidently as Flagstaff specimen. Locality: Arizona. Collector: HH Rusby. June 3, 1883. /// *P. dilatatus* W. & S., TK [écrit à l'encre noire directement sur la planche]. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray,

det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, 7 racèmes, en floraison, jgo, jgo en transition à go verte, go verte, go sèche, partie de racine cylindrique lignifiée diam. 9 mm; pas de numéro de collecte. [US; 1-IX-2009].

9598 Herbarium Wellesley College (WELC) donated to NY in 1988 [cachet à l'encre bleue]. /// Cancelled New York Botanical Garden [cachet à l'encre noire]. /// Flora of [Arizona](#). N°. 582. *Phaseolus wrightii* Gray. Banghart's Ranch. Leg. [H H Rusby](#). June 3, 1883. /// *P. angustissimus* Gray [écrit à l'encre noire sur la planche]. /// DGD: *angustissimus*, 5 racèmes, en floraison, j go, go vertes, tige ascendante non volubile. [TEX; 12-VIII-2008].

US942251. Flora of [Arizona](#). No. 582. *Phaseolus wrightii*. Banghart's Ranch. Leg. [HH Rusby](#). June 3, 1883. /// *P. angustissimus* Gray [écrit à l'encre noire directement sur la planche, probablement par Piper]. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, 6 racèmes, en floraison, folioles terminales et latérales avec petit lobe rond externe à la base. [US; 31-VIII-2009].

University of Michigan – Herbarium [cachet en relief]. /// Flora of [Arizona](#). No. 583. *Phaseolus angustissimus* Gray. Flagstaff. [35°20'N. 111°53'W]. Leg. [H H Rusby](#). Sept. 1, 1883 [1^{er} septembre 1883]. /// Herbarium of Parke, Davis & Company. Presented to the University of Michigan, 1933. /// The University of Texas Herbarium. *Phaseolus angustissimus* A. Gray, Alfonso Delgado S., 1983. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F Freytag, Jan 29 1988. /// DGD: *angustissimus*, portions de tiges ascendantes non volubiles, plus de 10 racèmes, en floraison, j go, j go en transition à go verte, go vertes à petites raies violettes, folioles variables 30-40 mm long 3-6 mm large non lobées. [MICH; 17-IX-2007].

Flora of [Arizona](#). No. 583. *Phaseolus angustifolius* Gray [barré] *angustissimus* ? Flagstaff. [35°20'N. 111°53'W]. Leg. [H H Rusby](#). Sept 1, 1883 [1^{er} septembre 1883]. /// Herbarium of Academy of Natural Sciences, Philadelphia. *Phaseolus angustifolius* Gray [barré]. /// *P. angustissimus* CVP [écrit au crayon noir sur la planche par CV Piper lui-même]. /// DGD: *angustissimus*, 5 racèmes en floraison, j go, go vertes, une tige robuste ascendante, folioles étroites à linéaires sans ébauche de lobe basal. [PH; 13-IX-2007].

Flora of [Arizona](#). *Phaseolus angustifolius* Gray. Flagstaff. [35°20'N. 111°53'W]. Leg. [HH Rusby](#). Sept 1, 1883 [1^{er} septembre 1883]. /// *Phaseolus angustissimus* A Gray, det. JA Lackey, Apr. 1980. /// DGD: *angustissimus*, en floraison, jgo, go vertes, 9 racèmes, folioles 30-45 mm long 5-9 mm large non lobées. [NY; 10-VI-2003].

Flora of [Arizona](#). *Phaseolus wrightii*. Bougharts Ranch. Leg. [HH Rusby](#). June 3, 1883. /// DGD: *angustissimus*, en floraison, 5 racèmes, développement de l' hétérophylie, folioles avec petit lobe latéral, la base de la tige est ligneuse. [NY; 10-VI-2003].

Herb. Mus. Paris. Reçu le 17 août 1884. /// Flora of [Arizona](#). *Phaseolus wrightii*. Banghart's Ranch. Leg. [HH Rusby](#) [s.n.]. June 3, 1883. /// DGD: *angustissimus*, 5 racèmes, en floraison, 1 base de plante ligneuse mais cylindrique est fixée à côté. [P; 12-II-2004].

Flora of [Arizona](#). No. [blanc]. *Phaseolus wrightii* Gray. Banghart's Ranch. Leg. [H H Rusby](#). June 3, 1883. /// Herbarium 6332 University of Pennsylvania [cachet à l'encre bleue foncé]. /// The University of Texas Herbarium. Systematic Revision of *Phaseolus*. *Phaseolus angustissimus* A. Gray, Alfonso Delgado S., 1985. /// DGD: *angustissimus*, tige ascendante non volubile, 6 racèmes, en floraison, j go, un fragment de racème avec go sèche, à part. [PH; 11-IX-2007].

Herbarium of the New York Botanical Garden. *Phaseolus angustissimus* Gray. Grand Canon, [Ariz.](#) Aug. 20, 1915 [20 août 1915]. Coll. [HH Rusby](#). /// DGD: *angustissimus*, en début floraison, 7 racèmes, folioles

étroites, quelques unes avec lobe à la base, base de la tige un peu ligneuse; matériel apparemment sans numéro ! [NY; 10-VI-2003].

Herb. Mus. Paris. Reçu le 17 août 1884. /// Flora of [Arizona](#) no. [blanc]. *Phaseolus angustifolius* Gray. Flagstaff. [35°20'N. 111°53'W]. Leg. [HH Rusby](#) [s.n.]. Sept. 1, 1883 [1 septembre 1883]. /// = *P. aconitifolius* var. *tenuifolius* déterminavit CV Piper 6/8/1924. /// DGD: *angustissimus*, en floraison, jgo, go vertes, 6 racèmes, tige rampante non volubile, léger développement hétéroblastique. [P; 9-II-2004].

Flora of [Arizona](#). No. [blanc]. *Phaseolus angustifolius* Gray [barré] *angustissimus* Gray. Flagstaff. [35°20'N. 111°53'W]. Leg. [H H Rusby](#). Sept 1, 1883 [1^{er} septembre 1883]. /// Herbarium 6302. University of Pennsylvania. /// DGD: *angustissimus*, 6 racèmes en floraison, j go, go vertes, une tige robuste ascendante, folioles étroites à linéaires certaines avec ébauche de lobe basal. [PH; 13-IX-2007].

Herbarium of Marguerite Rusby. *Phaseolus angustissimus* Gray. Grand Cannon [sic!] [Ariz.](#) Aug. 20, 1915. Coll. [Marguerite Rusby](#). /// College of Pharmacy Herbarium. Deposited in 1948. The New York Botanical Garden [cachet à l'encre noire]. /// DGD: *angustissimus*, 6 racèmes, en floraison, jgo; pas de numéro de collecte. [NY; 18-II-2014].

UCR31431. /// Herbarium of the University of California, Riverside. Plants of Coconino County, [Arizona](#). *Phaseolus angustissimus* Gray. NE of Flagstaff on the road to Sunset Crater at Bonita Lava Flow, 3.4 miles east of Hwy 89. [35° 22'30"N, 111° 29'30"W]. A common perennial in volcanic gravel along the road edge, plants had been damaged by frost. Yellow Pine Forest on relatively recent lava flow, rocky with little understory. Date 10 Oct 1982 [10 octobre 1982]. Alt. 7000 ft. [2,134 m]. Coll. [AC Sanders](#), R Manshardt & K Neisess. No. [3240](#). /// Specimen data entered into UCR database. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F Freytag, Apr 6 1992. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 6 racèmes, en floraison, jgo, go vertes, base de tige un peu lignifiée, couronne de tige ascendantes rampantes. [UCR; 18-VIII-2014].

UC1506481. Herbarium of the University of California, Riverside. Plants of Mohave County, [Arizona](#). *Phaseolus angustissimus* A Gray. Common perennial, in gravel at the side of Willows Ranch Rd. at I-40, about 30 miles east of Kingman at Cottonwood Cliffs. [35°10'N. 113°30'W]. Volcanic bedrock forming rolling hills. *Quercus turbinella*, *Juniperus* and *Bouteloua* were common. Rocky soil. Date 10 Oct. 1982 [10 octobre 1982]. Alt. approx. 5000 ft [1,520 m]. Coll. [AC Sanders](#), R Manshardt & K Neisses no. [3241](#). /// DGD: *angustissimus*, en go sèches et graines, la base de la plante un peu ligneuse, 1 racème. [UC; 21-X-2003].

UCR31354. /// Herbarium of the University of California, Riverside. Plants of Mohave County, [Arizona](#). *Phaseolus angustissimus* Gray. Common perennial in gravel at the side of Willows Ranch Rd. at I-40, about 30 miles east of Kingman at Cottonwood Cliffs. Volcanic bedrock forming rolling hills; *Quercus turbinella*, *Juniperus* & *Bouteloua* were common. Rocky soil. Date 10 Oct. 1982. Alt. ± 5000 ft. Coll. [AC Sanders](#), R Manshardt & K Neisses. No. [3241](#). /// Specimen data entered into UCR database. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F Freytag, Apr 6 1992. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 8 racèmes, en go vertes, go vertes en transition à go sèches, qq tiges volubiles dans parties terminales. [UCR; 18-VIII-2014].

Navajo Ordnance Depot Flagstaff Arizona. Jun 1, 1943. *Phaseolus angustissimus* v. *latus* ME Jones. Lake Mary Region. [35°02'N. 111°30'W]. elev. 7000 ft. [2,130 m]. Coconino Co., [Ariz.](#) not common. [Paul O Schallert](#) US Army Surgeon, [19102](#) [DGD: écrit en travers avec une autre écriture, encre différente]. /// DGD: *angustissimus*, en floraison, 6 racèmes, 2 tiges droites rampantes. [BRIT; 23-II-2002].

UCR30929. /// Herbarium of the University of California, Riverside. Plants of Gila County, [Arizona](#). *Phaseolus grayanus* Woot. & Standl. barré *angustissimus* Gray, ACS, Aug. 1983. Tonto National Forest, Sawmill Flats in the Sierra Ancha, along Hwy 288, 2.4 miles south of Workman Creek, Rose Creek drainage. [33° 39'N, 111° 11'W]. Yellow pine forest with *Pinus ponderosa*, *Juniperus deppeana*, & *Quercus gambelli* on rolling slopes of clay soil. Fairly common, trailing, deep-rooted perennial on open slopes among pines; fls. greenish except for lavender wings. Date 4 July 1983 [4 juillet 1983]. Alt. 5800 ft. [1,768 m]. Coll. [AC Sanders](#) & J West No. 3902. /// Specimen data entered into UCR database. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F Freytag, Apr 6 1992. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 9 racèmes, en floraison, jgo, go vertes avec fines stries violettes, hétérophylie. [UCR; 18-VIII-2014].

Navajo Ordnance Depot. Flagstaff, [Arizona](#). 6/1-43 [1^{er} juin 1943 ?]. *Phaseolus angustissimus latus* MEJ [sic!]. Lake Mary Region [35°02'N. 111°30'W], elev. 7000 ft [2,130 m], Coconino Co. Not common. Herbarium of [PO Schallert](#), BS MA MD. Winston-Salem, NC, USA. /// DGD: *angustissimus*, 2 petites branches scrappy, en floraison, 2+3 racèmes, folioles 6-10 mm large, légèrement lobées à la base. [NY; 10-VI-2003].

The Herbarium of the University of Pennsylvania. Plants of [Arizona](#). Coconino County. *Phaseolus angustissimus* Gray var. *latus* M.E. Jones. not common. elev. 7000 ft., Lake Mary Region, [35°02'N. 111°30'W]. [Paul O Schallert](#). June 1, 1943 [1^{er} juin 1943]. /// University of Pennsylvania. Herbarium. [cachet à l'encre noire]. /// DGD: *angustissimus*, en floraison, 3+1 racèmes, 2 fragments de tiges ascendants, specimen pauvre. [PH; 13-IX-2007].

Navajo Ordnance Depot, Flagstaff, Arizona. 8/15-43 [15 août 1943]. *Phaseolus angustissimus* Gray. 3 m east of Flagstaff [35°20'N. 111°53'W], Coconino Co. [Arizona](#). 7000 ft.e. [2,130 m]. ex Herbarium of 1st Lt. [Paul Schallert](#), M US Army Surgeon, not common, 19277 [DGD: écrit en travers à l'encre noire, différente du reste de l'étiquette]. /// DGD: *angustissimus*, en début floraison, 2 racèmes, exemplaire peu fourni, une branche étalée rampante. [BRIT; 23-II-2002].

Herbarium of Southeastern Oklahoma State University. Plants of [Arizona](#). no. 29428. County Pinal. *Phaseolus*. In desert zone along creek at Sunflower. [33°54'N. 111°28'W]. Collector [John & Connie Taylor](#). Date Aug. 2, 1980 [2 août 1980]. /// The New York Botanical Garden. *Phaseolus angustissimus* Gray, det. D.G. Debouck, 24 June 1993. /// DGD: *angustissimus*, en début floraison, 4 racèmes, 'scrappy' ! [NY; 10-VI-2003].

ASU193362. /// Plants of Arizona. Arizona State University. *Lathyrus graminiflorus* (Wats.) White. Gila County: # 6 Pinion Drive, Pine, [Arizona](#). Adjacent to Tonto Natl. F. On north bank of north seasonal stream. T11N. R8E. S30. In Ponderosa pine, alligator juniper, white oak forest. 5600 feet [1,690 m]. [P Taylor](#) 62. Sept. 3, 1993 [3 septembre 1993]. /// *Phaseolus angustissimus* Gray, det. G.J. Imdorf, Aug. 1994. Arizona State University. /// DGD: *angustissimus*, 6 racèmes, en floraison, jgo, jgo en transition à go verte. [ASU; 22-IX-2015].

Flora of [Arizona](#), distributed by the Herbarium of the University of Arizona. *Phaseolus*. Lowell Observatory, Arizona. [35°12'N. 111°40'W]. August 12, 1907. Mrs. [JJ Thornber](#), coll.. /// DGD: *angustissimus*, en floraison. [ARIZ; 14-II-1979].

Flora of Arizona [Coconino County], distributed by the Herbarium of the University of Arizona. *Phaseolus*. Flagstaff, [Arizona](#). [35°20'N. 111°53'W]. August 1907. Mrs. [JJ Thornber \[s.n.\]](#), coll.. /// Determined by TH Kearney, 1946. California Academy of Sciences. *P. angustissimus* Gray var. *latus* Jones. /// un cachet du BRIT, un autre cachet "from the Harold Gentry collection". /// DGD: *angustissimus*, floraison, 5 racèmes, 1 jgo. [BRIT; 23-II-2002].

Flora of Arizona [Coconino County], distributed by the Herbarium of the University of Arizona. *Phaseolus*. Flagstaff, [Arizona](#). [35°20'N. 111°53'W]. August 12, 1907. A common species on the pine covered slopes about Lovell Observatory. [JJ Thornber](#), coll. [DGD: écrit au crayon “# 788”]. /// University of Arizona Annotation Label. *P. angustissimus* Gray var. *latus* Jones (duplic. determined by TH Kearney, 1946). /// DGD: *angustissimus*, en floraison, plus de 9 racèmes, base de la tige lignifiée diamètre 5 mm longueur 9 cm, tiges étalées, volubiles seulement dans parties terminales, folioles avec lobes à peine visibles à la base, 3 cm de long 8 mm de large. [BRIT; 23-II-2002].

Flora of [Arizona](#). Distributed by the Herbarium of the University of Arizona. *Phaseolus*. Flagstaff, Arizona, August 12, 1907. A common species on the pine-covered slopes about Lowell Observatory. [JJ Thornber](#), coll. /// University of Arizona Annotation Label. *P. angustissimus* Gray var. *latus* Jones (Dupl. determined by T.H. Kearney, 1946). /// DGD: *angustissimus*, 4 racèmes, en floraison, go verte; pas de numéro de collecte. [NY; 18-II-2014].

UC737245. Flora of [Arizona](#), distributed by the University of Arizona. *Phaseolus*. Flagstaff, Arizona. [Coconino County]. [35°20'N. 111°53'W]. August 12, 1907 [12 août 1907]. A common species on the pine covered slopes about Lovell Observatory. [JJ Thornber](#), coll.. /// University of Arizona. Annotation label. *P.* [sic!] *angustissimus* Gray var. *latus* Jones, dupl. det. by TH Kearney, 1946. /// *Phaseolus angustissimus* A Gray, det. GF Freytag, 25 Mar 1985. /// DGD: *angustissimus*, en floraison, une longue tige rampante à base ligneuse, 6 racèmes, folioles latérales et terminales avec lobe à peine marqué à la base, parfois seulement présent sur les folioles latérales. [UC; 21-X-2003].

US1972415. Flora of [Arizona](#). Distributed by the Herbarium of the University of Arizona. *Phaseolus*. Flagstaff, Arizona, [35°20'N. 111°53'W], August 12, 1907. A common species on the pine covered slopes about Lowell Observatory. [JJ Thornber](#), coll. /// University of Arizona annotation label. *P. angustissimus* Gray var. *latus* Jones (dupl. det. by T.H. Kearney, 1946). /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, 5 racèmes, en floraison, jgo, go verte avec stries violettes, folioles terminales et latérales avec esquisse de lobe rond externe à la base. [US; 31-VIII-2009].

University of North Carolina Herbarium. 482583. /// Mohave Co., Arizona, USA. 175817. *Phaseolus angustissimus* Gray. T34N, R8W, Sec 15, Nixon Springs Camp Ground, 6300 ft elev. [1,920 m]. [36° 24'40"N. 113° 11'W]. Pinyon- juniper comm., sandy soil, basalt gravel outcrop. [K Thorne](#) 256. 3 Sept 1977 [3 septembre 1977]. Herbarium of Brigham Young University, Provo, Utah. /// DGD: *angustissimus*, 6 racèmes, en floraison, j go, tiges à base lignifiée, folioles 27x15 mm avec esquisse de lobation à la base. [NCU; 23-VIII-2011].

UC82399. Flora of [Arizona](#). [Coconino County]. *Phaseolus acutifolius* Gray. Flagstaff. [35°20'N. 111°53'W]. [JW Toumey](#). Sept. 6, 1894 [6 septembre 1894]. /// Herbarium of the University of California. *Phaseolus angustissimus* Gray, determined by Oliver W Norvell, date 2-1-1951. /// *Phaseolus angustissimus* A Gray, det. GF Freytag, 25 Mar 1985. /// DGD: *angustissimus*, en floraison, jgo, go verte, une longue tige rampante, 5 racèmes, folioles moyennement larges avec un lobe basal à peine esquissé. [UC; 21-X-2003].

US211849. /// Plants collected in [Arizona](#) by [JW Toumey](#). No. 567. *Phaseolus*. Pine Creek. July 22nd, 1892 [22 juillet 1892]. /// United States National Herbarium. Deposited by the U.S. Department of Agriculture. *Phaseolus*. Locality: Arizona. Collector: J.W. Toumey. 1892. /// *P. dilatatus* W. & S., TK [écrit à l'encre noire directement sur la planche]. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, 4 racèmes, en floraison, jgo, jgo en transition à go vertes. [US; 1-IX-2009].

35852. Herbarium. Arizona State University. /// Plants of [Arizona](#). Herbarium of Arizona State University. Leguminosae. *Phaseolus angustissimus* Gray var. *latus* Jones. County: Gila. Location: Camp Tontozona, ¼

mile east of Kohls Ranch. Habitat: creek bank. Elev.: 5250' [1,580 m]. Date: 23-VI-65 [23 juin 1965]. Collector: [Betty Walden](#). Det.: Elinor Lehto. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 3 tiges ascendantes de la forme *latus* car folioles plus larges et plus courtes, terminales 30x16 mm, latérales 26x9 mm, beaucoup avec lobe basal externe, 8 racèmes, en floraison, jgo; pas de numéro de collecte. [ASU; 22-IX-2015].

US410224. /// United States National Herbarium. Deposited by the Smithsonian Institution. /// The United States National Herbarium. *Phaseolus angustissimus* Gray. Near Black Tank, [Arizona](#). [Lester J Ward](#). June 2, 1901 [2 juin 1901]. /// *P. dilatatus* W. & S. [écrit à l'encre noire sur la planche]. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, 2+2+0 racèmes, en floraison, trois bases de tiges lignifiées. [US; 31-VIII-2009].

UCR89293. /// UC Riverside Herbarium. Coconino Co., [Arizona](#). FAB. *Phaseolus angustissimus* A. Gray. Det. by A.C. Sanders. Just N of Flagstaff; Dry Lake Hills (S foothills of San Francisco Mts.) along Schultz Ck. Rd., ± 7200 ft. elev. [2,195 m]. Young (2nd growth?) ponderosa pine stand, ± open in places, ± continuous grass and herb understory w/ scattered shrubs. Occas. rhizomatous perennial. Wings & banner pink-maroon, cream to green at bases. 35° 15'N, 111° 40'W. T22N, R7E, S33, NW1/4. [Scott D White 3597](#). 9 Sept. 1995 [9 septembre 1995]. /// Specimen data entered into UCR database. /// DGD: *angustissimus*, 5 racèmes, en floraison, jgo, jgo en transition à go verte, base de tige un peu lignifiée. [UCR; 18-VIII-2014].

ECON8457. /// Herbarium of the Museum of northern Arizona. *Phaseolus angustissimus* Gray. Sunset Crater District, [Arizona](#). [Coconino County]. [35°36'N. 111°50'W]. June 29, 1935. Life zone: transition. Collected by [AF Whiting](#). Determined by USDA Sacaton. No. [756/ 889](#). /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F Freytag, Aug 29 1987. /// DGD: *angustissimus*, 6 racèmes, en floraison, jgo, tige fertile avec base ligneuse, hétérophilie marquée. [ECON; 24-VII-2006].

UC69442. Herbarium of the University of California. Plants of Northern [Arizona](#). *Phaseolus*. Peach Springs. [Mohave County]. [35°31'N. 113°34'W]. May 1893. [Norman C Wilson # 126](#). /// Herbarium of the University of California. *P.* [sic!] *angustissimus* Gray var. [sic!], determined by Oliver W Norvell, date 1-23-50. /// *Phaseolus angustissimus* A Gray, det. GF Freytag, pas de date!. /// DGD: *angustissimus*, en floraison, jgo, tiges rampantes à base un peu ligneuse, important dimorphisme foliaire, folioles grandes et relativement larges avec un petit lobe à la base, 7 racèmes. [UC; 21-X-2003].

ASU195515. Fabaceae. [[Arizona](#)]. Yavapai County. *Phaseolus angustissimus* A. Gray. Sycamore Canyon Wilderness; Sycamore Creek; ca. 1 k[m] due NE of its confluence with the Verde River; N38 59 050 E4 02 300; T17N R3E SE ¼ NW ¼ section 8; 3550 feet [1,070 m]; trailside with *Alnus oblongifolia*, *Fraxinus velutina*, *Salix*, *Platanus wrightii*, *Populus fremontii*, *Acer negundo*, *Celtis reticulata*, *Rhamnus californica*, *Carex senta*, *C. vulpinoidea*, *Equisteum laevigatum*, *Epipactis gigantea*, *Amsinckia intermedia*, *Cirsium neomexicana*, *Erigeron divergens*, *Gaillardia pinnatifida*, *Gaura hexandra*, *Hymenoxys cooperi*, *Layia glandulosa*, *Microseris lindleyi*, *Oenothera caespitosa*, *Phaseolus angustissimus*, *Rumex hymenosepalus*, *Sisymbrium irio*, *Sonchus oleraceus*, *Bromus japonicas*, *B. rigidus*, *Elymus glaucus*, *Hordeum leporinum*, *Vulpia octoflora*, and *V. microstachys*. Vine with dark green leaves and pale purple flowers. [Theresa Wright 92-34](#), M. Baker and I Trushell. 3 May 1992 [3 mai 1992]. /// DGD: *angustissimus*, 6 racèmes, en floraison, jgo, hétérophylie, qq folioles terminales et latérales avec lobation basale externe. [ASU; 22-IX-2015].

ASU221858. /// Fabaceae of [Arizona](#). Yavapai County. *Phaseolus angustissimus* Gray. Apache Creek Wilderness Area; T17N R6W NW ¼ NE ¼ section 3; N 38 62 600 E 3 27 960 [sic!]; 5365 feet elevation [1,619 m]; Apache Creek Seep, ca 3 k NW of Bald Mountain; in and around spring with *Acer negundo*, *Baccharis salicifolia*, *Fraxinus velutina*, *Juglans major*, *Melilotus alba*, *Pinus ponderosa*, *Populus*, *Tamarix chinensis*, and *Vitis arizonica*. Leaves green, paler beneath; flowers lavender-pink; fruit pale green. [Theresa](#)

Wright 92.309 [sic!], Marc Baker. 21 August 1992 [21 août 1992]. /// DGD: *angustissimus*, 6 racèmes, en floraison, jgo. [ASU; 22-IX-2015].

Flora of Arizona. Taylor. [34°29'N. 110°02'W]. July 31, 1897. Collected by Myrde Zuck (?). /// *Phaseolus angustissimus* A Gray, det. JA Lackey, April 1980. /// New York Botanical Garden, Herbarium of Dr Per Axel Rydberg, purchased 1899. /// DGD: *angustissimus*, en floraison, 5 racèmes, folioles très étroites longues 1 mm large non lobées, la base de la tige est ligneuse. [NY; 10-VI-2003].

California

British Museum Herbarium. Western North America. 1927. 130 [numéro aussi repris sur une petite étiquette collée autour de la tige du spécimen]. [espace laissé blanc pour l'indication d'espèce]. Los Angeles, California. July 2nd [2 juillet 1927]. Dame Alice and the Misses Godman. /// *Phaseolus tenuifolius*. [écrit au crayon noir sur la planche, ce n'est pas l'écriture de Charles Vancouver Piper !]. /// DGD: *angustissimus*, 4 racèmes, en floraison, j go, extrémité de tige fertile, tige rampante ascendante non volubile, folioles deltoïdes petites avec un petit lobe à la base 23 x 9 mm; c'est un *angustissimus* sans aucun doute mais localité !; une culture ou problème de localisation du spécimen d'herbier !? [BM; 18-XII-2006].

New Mexico

Range Science Herbarium, New Mexico State University. Plants of New Mexico. *Phaseolus angustissimus* Gray var. *latus* M.E. Jones. Hwy 180, 18 mi S of jct w/ Hwy 12, juniper, mesquite, scrub oak. Catron County. Kelly W. Allred 2930. 17 May 1985 [17 mai 1985]. /// DGD: *angustissimus*, 6 racèmes, en floraison, forte hétérophylie, qq folioles terminales et latérales avec esquisse de lobation basale externe. [NMCR; 30-VIII-2017].

New Mexico State University 71472 Data-Based. /// Flora of the White Sands Missile Range New Mexico. Fabaceae. *Phaseolus angustissimus* Gray var. *angustissimus*. Common names: Narrowleaf Let [sic!] Bean; Slimleaf Lima Bean. County: Dona Ana. San Augustine Peak, eastern slopes above Quickstrike Mine. Corolla color: pink. Scarce. Elev. 1762 m = 5780 ft. David Lee Anderson 7330, Sue Muir & Laura Vogel. 24 August 1998 [24 août 1998]. /// DGD: *angustissimus*, 3 racèmes, en début de floraison. [NMC; 28-VIII-2017].

New Mexico State University 79877 Data Based. /// Flora of White Sands Missile Range New Mexico. Fabaceae. *Phaseolus acutifolius* Gray var. *acutifolius*. Common name: Tepary bean; Texas bean. County: Dona Ana. At the entrance to the adit at Quick Strike Mine on the eastern slopes of San Augustine [sic!] Peak. Corolla color: pink. Elevation: 5540 ft = 1688 m. Scarce. David Lee Anderson 7822, Robert G. Myers and Glenn Brown. 1 May 2001 [1^{er} mai 2001]. /// DGD: *angustissimus*, 2 fragments de tige dont une avec 4 racèmes, en floraison, une jgo, folioles terminales avec esquisse de lobation basale. [NMC; 28-VIII-2017].

New Mexico State University 0081807 Data-Based. /// Flora of White Sands Missile Range New Mexico. Fabaceae. *Phaseolus angustissimus* Gray var. *angustissimus*. Common name: Narrowleaf let [sic!] or lima bean [sic!]. County: Dona Ana. Eastern slopes of San Augustine Peak in grama/ oak grassland/ shrubland, Tularosa Basin. Corolla color: magenta. Elevation: 5360 ft. = 1634 m. Scarce. 7 September 2005 [7 septembre 2005]. David Lee Anderson 8315 and Cristina Rodden. /// DGD: *angustissimus*, 5 racèmes, en floraison, jgo, go vertes. [NMC; 28-VIII-2017].

175765. /// Flora of New Mexico. 407133. Cibola Co., New Mexico, USA. *Phaseolus angustissimus* Gray. Along I-40 near Laguna Superette Conoco Station, 35° 2.21'N [sic!], 107° 20.79'W [sic!]. Juniper-grass comm.. in deep sandy soil. Elev. 5718 ft. [1,740 m]. ND Atwood 30820. 28-Sep-2004 [28 septembre 2004]. 6 [pour six duplicates ?!]. Stanley L. Welsh Herbarium. Brigham Young University, Provo, Utah. /// DGD: *angustissimus*, 7 racèmes, en floraison, j go, go vertes. [DAV; 19-IX-2008].

US664651. /// United States National Museum. /// Plants of [New Mexico](#). *Phaseolus angustissimus* Gray. Lake Valley. [32° 43'N. 107° 34'W]. Mrs [Ida M. Beals](#). 1914. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 28 Mar 1985. /// DGD: *angustissimus*, 2 racèmes, en go verte, go sèche; pas de jour ni de mois de collecte. [US; 31-VIII-2009].

ARIZ364161. /// Plants of [New Mexico](#). Fabaceae. *Phaseolus acutifolius* A. Gray. USA. New Mexico. Catron County. Gila Cliff Dwellings National Monument. One canyon west of Cliff Dweller Canyon, along West Fork Gila River. [33° 15'N. 108° 19'W]. Rocky soil on east facing slope. UTM zone: 12, 754107E, 3680046N. Elev: 5809 ft; 1771 m. Associated species: *Quercus grisea*, *Juniperus osteosperma*. [Emily Bennett](#) 235. 11 September 2002. University of Arizona Herbarium (ARIZ). /// DGD: *angustissimus*, tige 'scandens' à base lignifiée, 8 racèmes, en floraison, j go, go vertes avec fines stries violet foncé, qq folioles latérales avec esquisse de lobation basale externe. [ARIZ; 17-IX-2012].

New Mexico State University 0082099 Data-Based. /// The Jack L. Carter Herbarium. The Colorado College. Colorado Springs, CO 80903, USA. Coll. No. [537](#). County: Luna. State: [N\[ew\]M\[exico\]](#). Family: Fabaceae. *Phaseolus angustissimus* Gray. Habitat: scattered perennial herbs in rocky, gravelly soil on west-facing slope in Florida Mountains. Elevation: 5800 ft. [1,770 m]. Sec: 14/15 T-25-S R-8-W. Date 14 May 1992 [14 mai 1992]. Collector: [Jack L. Carter](#), C.A. Huff. /// DGD: *angustissimus*, 5 racèmes, en floraison, jgo, go vertes, base de la tige lignifiée 3.5 mm diam., hétérophylie, qq folioles terminales 27x11 mm et 52x4 mm et latérales avec esquisse de lobation basale. [NMC; 28-VIII-2017].

[JA Churchill](#), [MD Higgins](#) 775. *Phaseolus angustissimus* Gray. [New Mexico](#), Catron Co., Aragon, along route 12 just east of town on continental divide in gravelly soil, pinyon-juniper area. [33°49'N. 108°31'W]. 17 July 1973. /// DGD: *angustissimus*, en floraison. [MSC; 29-VI-1988].

Flora of Cooke's Range. Range Science Herbarium (NMCR). *Phaseolus angustissimus* Gray var. *angustissimus*. (Fabaceae). USA; [New Mexico](#); Grant Co.: along road and large N-S arroyo; T19S, R9W, SW ¼ of SW ¼ sec 21; Plains Grassland; w/ *Yucca elata*, *Asclepias nummularia*; sandy/ gravelly soil; 5700 ft; W aspect; gentle slope; area disturbed. [J. Travis Columbus](#) 1866. 27 Sep 1987. /// DGD: *angustissimus*, 6 racèmes, en floraison, jgo, go vertes. [NMCR; 30-VIII-2017].

UC1608751. Flora of Cook's Range. Range Science Herbarium (NMCR). *Phaseolus angustissimus* Gray var. *angustissimus* (Fabaceae). USA, [New Mexico](#), Grant Co.: along road and large N-S arroyo; T19S, R9W, SW1/4 of SW1/4 sec 21. Plains grasslands, with *Yucca elata*, *Asclepias nummularia*; sandy gravelly soil 5700 ft. [1,730 m]; W aspect, gentle slope, area disturbed. [J Travis Columbus](#) 1866. 27 Sept. 1987 [27 septembre 1987]. /// DGD: *angustissimus*, en jgo, go vertes, go sèches, 7 racèmes, 2 tiges rampantes avec base ligneuse. [UC; 20-X-2003].

US2706392. Plants of [New Mexico](#). Leg. *Phaseolus* sp. San Antonio, bosque del Apache National Wildlife Refuge. [33° 52'N. 106° 52'W]. [Raymond J Fleetwood](#) 228. Spring 1958 [barré au crayon noir] 9-16-54 [16 septembre 1954]. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, 5 racèmes, en début de floraison, base de tige lignifiée. [US; 1-IX-2009].

New Mexico State University 35329 Data-Based. /// Herbarium of the Soil Conservation Service. U.S. Department of Agriculture. Collector's No. [blanc]. Date of Collection: August 18, 1936 [18 août 1936]. Botanical name *Phaseolus angustissimus* Gray. Common name: [blanc]. State [New Mexico](#). County McKinley. Exact locality: Upper Chuskai Wash, Navajo Experiment Station. Altitude 7800 feet. Collector's name: [Gardner](#). Det. Carter. /// DGD: *angustissimus*, 6 racèmes, en floraison, jgo en transition à go verte; pas de numéro de collecte. [NMC; 28-VIII-2017].

United States National Arboretum. Washington D.C. cachet à l'encre noire sans numéro. /// Plants of [New Mexico](#). *Phaseolus angustissimus* Gray. Hill sides towards the Gila. [32°58'N. 108°40'W]. [Grant County]. Collected August 29, 1880, by [Edward Lee Greene](#). /// Herbarium of Isaac C. Martindale purchased from Philadelphia College of Pharmacy and Science, 1964 [cachet à l'encre noire]. /// DGD: *angustissimus*, 10 racèmes, en floraison, j gos. [NA; 17-VII-2006].

Plants of [New Mexico](#). *Phaseolus angustissimus* Gray. Hillsides of the River Gila. [Grant County]. [32°58'N. 108°40'W]. Collected August 29, 1880, by [Edward Lee Greene](#). /// DGD: *angustissimus*, en floraison, jgo, go vertes, go sèches, développement de l'hétérophylie, folioles étroites légèrement lobées à la base, la base de la tige est ligneuse. [NY; 10-VI-2003].

Name, *Phaseolus angustissimus* Gray. Locality, Tucson [New Mexico](#) [sic!]. [33°38'N. 105°38'W]. Collected, by [E\[dward\] L\[ee\] Greene](#) 1880. Isaac C Martindale, Camden, N. J. [probablement le propriétaire de l'herbier]. /// Herbarium of Thomas C. Porter [cachet à l'encre noire]. /// 727298 [numéro à l'encre noire]. /// DGD: *angustissimus*, 3 racèmes, en floraison, go sèche, petit fragment avec folioles très étroites linéaires 3 cm long 2 mm large; la ville de Tucson est dans l'Arizona, mais il existe un 'Tucson Mountain' dans le 'Lincoln County' dans le 'New Mexico !' [PH; 13-IX-2007].

CHAPA s.n. Plantas de New Mexico: EUA. Instituto de Biología. Herbario Nacional. (MEXU). *Phaseolus angustissimus* Gray, det. Alfonso Delgado S. Catron Co., [New Mexico](#). About 0.5 mile west of US 180 on road from 180 to Blue Drainage just north of Brusky Mountains T85 R20W. [32°47'N. 108°59'W]. elevat. c 5800 ft [1,765 m] / postrate [sic!], spreading plant, hash years stems up to 6 ft. Deep scarcely branched woody roots. [J Grimes 2465](#). 2 June 1984. /// DGD: *angustissimus*, 3 racèmes, en tt début de floraison, 2 tiges enlevées à base lignifiée, 'spreading'. [CHAPA; 6-VII-2004].

Plantas de México: Instituto de Biología, Herbario Nacional (MEXU). *Phaseolus angustissimus* Gray. det. Alfonso Delgado S.. Catron Co., [New Mexico](#), about 0.5 mile west of US 180 on road from 180 to Blue Drainage just north of Brusky Mountains T85 R20W. [32°47'N. 108°59'W]. elev. ca 5800 ft. [1,765 m] postrate [sic!] spreading plant hash years stems up to 6 ft., deep scarcely branched woody roots. [JG Grimes 2465](#). 2 June 1984. /// DGD: *angustissimus*, 2 racèmes, tt début floraison. [NY; 12-VI-2003].

Plantas de [New Mexico](#). Instituto de Biología. Herbario Nacional (MEXU). *Phaseolus angustissimus* A. Gray. Det. Alfonso Delgado S.. Catron Co., New Mexico. About 0.5 mile west of US 180 on road from 180 to Blue Drainage just north of Brusky Mountains T85 R20 W. [32°47'N. 108°59'W]. elev. ca 5800 ft. Postrate, spreading plant hash years stems up to 6 ft. deep scarcely branched woody roots. [J Grimes 2465](#). 2 June 1984. /// DGD: *angustissimus*, 4 racèmes, en début de floraison, tige non volubile ascendante au départ d'une base lignifiée, folioles triangulaires longuement acuminées les latérales autant que les terminales avec petit lobe rond externe à la base. [TEX; 12-VIII-2008].

Plantas de México: Instituto de Biología. Herbario Nacional (MEXU). *Phaseolus angustissimus* Gray, det. Alfonso Delgado S.. Catron Co., [New Mexico](#). About 0.5 mile west of US 180 on road from 180 to Blue Drainage just north of Brusky Mountains T85 R20W. [32°47'N. 108°59'W]. Elev. c 5800 ft. [1,767 m]. Postrate, spreading plant hash years stems up to 6 ft. deep scarcely branched woody roots. [J Grimes 2465](#). 2 June 1984. /// University of Wisconsin Herbarium, Madison (WIS) [cachet à l'encre noire]. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray. Det. George F. Freytag May 1 1997. /// DGD: *angustissimus*, 4 racèmes, en floraison, fragment de tige ascendante non volubile, folioles longues 6 cm étroites 10-12 mm avec petit lobe basal marqué et plus étroites dans partie terminale de la tige. [WIS; 1-XI-2007].

ASU257044. /// Plants of [New Mexico](#). Leguminosae. *Phaseolus angustissimus* A. Gray. USA, New Mexico. Catron County. Along NM12, NE of Apache Creek, in Tularosa River (tributary to San Francisco River) drainage. Fenced, ungrazed right-of-way. 33° 50'N ; 108° 34'W, Lat: +33.83333 Long: -108.5667. 17 August

2001. [HD Hammond 11850](#). Northern Arizona University, Deaver Herbarium (ASC). /// DGD: *angustissimus*, 11 racèmes, en floraison, jgo. [ASU; 24-IX-2015].

MO5840960. PLANTS OF NEW MEXICO. Leguminosae. *Phaseolus angustissimus* Gray. USA. [NEW MEXICO](#). Catron County. Along NM12, NE of Apache Creek, in Tularosa River (tributary to San Francisco River) drainage. Fenced, ungrazed right-of-way. 33° 50'N; 108° 34'W Lat: +33.83333 Long:- 108.5667 [sic!]. 17 August 2001 [17 août 2001]. [HD Hammond 11850](#). Northern Arizona University, Deaver Herbarium (ASC). /// DGD: *angustissimus*, 8 racèmes, en floraison, jgo. [MO; 21-VI-2013].

Plants of [New Mexico](#). Leguminosae. *Phaseolus angustissimus* Gray. USA. New Mexico. Catron County. Along NM12, NE of Apache Creek, in Tularosa River (tributary to San Francisco River) drainage. Fenced, ungraze right-of-way. 33° 50'N; 108° 34'W Lat: +33.83333. Long: - 108.5667. 17 August 2001. [HD Hammond 11850](#). Northern Arizona University, Deaver Herbarium (ASC). /// DGD: *angustissimus*, plus de 12 racèmes, en floraison. [NY; 18-II-2014].

Plants of [New Mexico](#). The Morton Arboretum Lisle, Illinois. no. [2485](#). Luna Co.. *Phaseolus angustissimus* Gray var. *latus* Jones. Florida Mts., 8 mi. SE of Deming, east slope with *Larrea-Yucca*-grassland lower down and juniper-pinyon pine above. [32°16'N. 107°45'W]. Limestone hills. Perennial, not common, in shaded regions on hillside and ravine, vine, flowers pale purple. elev. 4900 ft. [1,493 m]. Collected by [W Hess](#). May 3, 1969. /// DGD: *angustissimus*, en début de floraison, 2 racèmes avec chacun un bouton floral, 2 bases de plantes quelque peu lignifiées diamètre 3-3.5 mm, tiges rampantes non volubiles. [BRIT; 23-II-2002].

ASU159261. /// Catron County, [New Mexico](#). *Phaseolus angustissimus* A. Gray. Along Hwy 12, continental divide just east of Aragon; gravelly soil; Pinyon-Juniperus community. 17 July, 1973. [Larry C Higgins 7775](#). Herbarium of West Texas State University, Canyon, Texas. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 6 racèmes, en floraison, jgo. [ASU; 24-IX-2015].

New Mexico State University 45524 Data-Based. /// Herbarium of New Mexico State Univ. [cachet à l'encre noire]. /// Catron County, [New Mexico](#). *Phaseolus angustissimus* Gray. Along hwy 12, continental Divide just east of Aragon; gravelly soil; Pinyon- Juniperus community. 17 July, 1973. [Larry C. Higgins 7775](#). Herbarium of West Texas State University, Canyon, Texas. /// DGD: *angustissimus*, 7 racèmes, en floraison, qq folioles terminales 49x7 mm et latérales avec esquisse de lobation basale. [NMC; 28-VIII-2017].

Catron County, [New Mexico](#). *Phaseolus angustissimus* A Gray. Along Hwy 12, continental divide just east of Aragon; gravelly soil; pinyon-*Juniperus* community. [33°49'N. 108°31'W]. [Larry C Higgins 7775](#). 17 July 1973 [17 juillet 1973]. Herbarium of West Texas State University, Canyon, Texas. /// DGD: *angustissimus*, en début floraison, 6 racèmes, quelques folioles latérales et terminales avec lobe peu prononcé à la base. [NY; 10-VI-2003].

Grant County, [New Mexico](#). *Cologania longifolia* Gray. 7 miles north of Buckhorn on hwy 180; gravelly to sandy soil; grassland community. [32°59'N. 108°41'W]. [Larry C Higgins 8732](#). 14 June 1974. Herbarium of West Texas State University, Canyon, Texas. /// DGD: *angustissimus*, en floraison – go vertes, 8 racèmes, bon développement hétéroblastique. [NY; 9-VI-2003].

Duke University Herbarium. 391076. /// Plants of [New Mexico](#). *Phaseolus angustissimus* Gray var. *angustissimus* [sic!]. Gravel and sandy clay loam of roadside, highway 12, 3 miles northeast of Reserve. [33° 47'N. 108° 42'W]. Elev. ca. 6,000 ft. [1,830 m]. Corolla bluish-purple. Catron County. [Bob Hutchins 10723](#). 13 June 1983 [13 juin 1983]. /// DGD: *angustissimus*, 7 racèmes, en floraison. [DUKE; 15-VIII-2011].

ISC346441 /// Herbarium of Iowa State University. *Phaseolus*. In sand, roadside, cedar-cactus scrub, south of Abiquiu, [36° 11'N. 106° 19'W], Rio Arriba County, [New Mexico](#). [Duane] Isely 6432. June 15, 1955 [15 juin 1955]. /// probably *P. angustissimus* [écrit au crayon noir directement sur la planche]. /// DGD: *angustissimus*, deux tiges 'scandens', 8 racèmes, en floraison, jgo, folioles étroites longuement acuminées et acumen 'blunt' avec esquisse de lobation basale. [ISC; 19-IV-2010].

New Mexico State University 0081961. /// Fabaceae of [New Mexico](#). *Phaseolus angustissimus* Gray var. *angustissimus*. Luna County: west side of Florida Mountains, Mahoney Park, on the rocky slope approaching the range northeast of the main Mahoney Park Road. Horizontal datum WGS84. N 32° 06.100', W 107° 39.130'. Elevation 1477 m. With *Ephedra trifurca*, *Rhus microphylla*, *Ipomoea hederacea*, *Opuntia engelmannii*, *Acalypha neomexicana*. 5 October 2011 [5 octobre 2011]. Eugene M. Jercinovic 1125. /// DGD: *angustissimus*, 6 racèmes, en floraison, jgo, go vertes, base de la tige lignifiée 4 mm diam., qq folioles terminales 40x4 mm et latérales avec esquisse de lobation basale. [NMC; 28-VIII-2017].

USA, [New Mexico](#), Catron County. *Phaseolus angustissimus* Gray var. *angustissimus* (Fabaceae). (Det.: S. Johnson). Apache National Forest, Saddle Mountain region, about 300 yds. west of Pueblo Creek and the campground, on a hill with ancient ruins, dominant vegetation is *Juniperus deppeana*, *Quercus turbinella* and Agaves, N33d35.746' W108d57.967' [sic!], Narrow-leaf bean, 6331 ft (1900 m). 25 Jun 2001 [25 juin 2001]. Susannah B. Johnson 355. Range Science Herbarium (NMCR), New Mexico State University. /// DGD: *angustissimus*, 3 racèmes, en début de floraison, qq folioles latérales avec début de lobation basale externe. [NMCR; 30-VIII-2017].

US856450. /// United States National Museum. /// Flora of [New Mexico](#). *Phaseolus angustissimus*. Florita Mts. Sept. 7, 1903 [7 septembre 1903]. Alt. 5300 ft. [1,615 m]. Collected by Marcus E Jones, A.M. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, 6 racèmes, en go vertes, go sèches, qq folioles terminales et latérales avec esquisse de lobation basale, base de tige lignifiée; pas de numéro de collecte. [US; 1-IX-2009].

New Mexico State University 35330 Data-Based. /// Herbarium of the Soil Conservation Service. U.S. Department of Agriculture. Collector's No. [blanc]. Date of Collection: June 19, 1934. Botanical name *Phaseolus dilatatus* Woot. & Standl. Common name: Wild bean. State: [N\[ew\].M\[exico\]](#). Project: Navajo [sic!]. Exact locality: in wash, east base of mesa in woodland. Altitude [blanc]. Forage value: Base of Mesa # 3. Nakai Bito [sic!]. Collector's name & Det. BS Klinger. /// *Phaseolus angustissimus* A. Gray. Annotated by: R. Manshardt Date 4 Oct '82. /// DGD: *angustissimus*, 5 racèmes, en floraison, jgo, qq folioles terminales 32x4 mm et latérales avec esquisse de lobation basale; pas de numéro de collecte. [NMC; 28-VIII-2017].

New Mexico State University 35317 Data-Based. /// Herbarium of the Soil Conservation Service. U.S. Department of Agriculture. Collector's No. 74. Date of Collection Summer, 1934. Botanical name *Phaseolus dilatatus* W. & S. Common name: Wild bean. State: [New Mexico](#). Project: Navajo [sic!]. Exact locality: Mexican Springs Area, Mesa III. Altitude [blanc]. Woodland. In wash at east, base of Mesa. Collector's name & Det. Klinger (or Det. J.J. Thornber). /// *Phaseolus angustissimus* A. Gray. Annotated by R. Manshardt Date 4 Oct 1982. /// DGD: *angustissimus*, 7 racèmes, en floraison, jgo, go vertes, qq folioles terminales et latérales avec esquisse de lobation basale; pas de date précise de collecte. [NMC; 28-VIII-2017].

Herbarium of the New York Botanical Garden. Plants of [New Mexico](#). No. 11664. *Phaseolus angustissimus* A Gray. Grant Co.: 4 miles east of Gila, Bear Creek Canyon. [32°57'N. 108°39'W]. Among rocks with oak and walnut. Collected by Bassett Maguire. May 23, 1935. /// DGD: *angustissimus*, en floraison, jgo, 4 racèmes, développement de l' hétérophylie, folioles plus larges dans partie inférieure par rapport partie supérieure, folioles lobées vers la base de la plante, la base de la plante est ligneuse. [NY; 10-VI-2003].

New Mexico State University 35320 Data-Based. /// Herbarium of New Mexico State Univ. [cachet à l'encre noire]. /// Gila River Project. Soil Erosion Service. No. 244. Name *Phaseolus tenuifolius* (A. Gray) Woot. & Standl. Com. Name [blanc]. Assoc. *Juniperus*, *Quercus*. Locality: vicinity of Glenwood, **New Mex[ico]**. Elev. [blanc]. Coll. **Moeller**. Date. 8/13/35 [13 août 1935]. Det. Moeller. Conf. Thornber. /// The University of Texas Herbarium. Systematic Revision of *Phaseolus*. *Phaseolus angustissimus* A. Gray. Alfonso Delgado S. 1985. /// Annotation ! Duane isely 1990. /// DGD: *angustissimus*, 3 racèmes, en floraison, jgo. [NMC; 28-VIII-2017].

Plants of **New Mexico**, collected by **A Isabel Mulford 1110**. *Phaseolus angustissimus* Gray. Florida Mts. [32°14'N. 107°44'W]. 8/30/95 [30 août 1895]. /// DGD: *angustissimus*, 2 racèmes, en floraison et jeunes go, 'scrappy'. [K; 5-VIII-1985].

MO1731220. PLANTS OF **NEW MEXICO**. Collected by **A. Isabel Mulford. 1110**. *Phaseolus angustissimus* Gray. Florida Mts. 8/30/93. [30 août 1893]. /// Missouri Botanical Garden. /// The University of Texas Herbarium. Systematic Revision of *Phaseolus*. *Phaseolus angustissimus* A. Gray. Alfonso Delgado S. 1985. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray. Det. George F. Freytag, Jun 23 1986. /// DGD: *angustissimus*, 3 racèmes, en floraison, jgo, folioles longues et étroites comme chez l'isotype de MO. [MO; 21-VI-2013].

Plants of **New Mexico** collected by **A Isabel Mulford 1110**. *Phaseolus angustissimus* A Gray. Florida Mts. [32°14'N. 107°44'W]. 8/30/1895 [30 août 1895]. /// DGD: *angustissimus*, en floraison, jgo, 3 racèmes, folioles étroites, spécimen 'scrappy'. [NY; 10-VI-2003].

University of North Carolina Herbarium. 505129. /// University of Arizona Herbarium. Plants of **New Mexico**. *Phaseolus angustissimus* Gray. Flowers purple; root woody; on east-facing slope above scenic turnoff at San Agustin Pass east of Organ; with *Quercus*, *Ephedra*, *Yucca baccata*; elevation ca. 5750 feet [1,750 m]. [32° 26'N. 106° 33'W]. **Gary Nabhan GN 677**. Dona Ana County. 17 August 1977 [17 août 1977]. /// DGD: *angustissimus*, 2 racèmes, en floraison, j go, go verte, base de tige lignifiée. [NCU; 23-VIII-2011].

Mexican Boundary Survey. Collected under the direction of Major WH Emory, Commissioner, chiefly in the Valley of the Rio Grande, below Doñana, by **CC Parry MD, JM Bigelow MD, Charles Wright, A Schott s.n.** [32° 25'N. 106° 48'W]. [Dona Ana County]. *Phaseolus angustissimus* A. Gray. /// Herbarium Hookerianum 1867 [cachet]. /// DGD: *angustissimus*, en boutons floraux, 3 racèmes, spécimen très peu fourni; pas de date de collecte. [K; 5-VIII-1985].

Herb. Mus. Paris. /// Mexican Boundary Survey 208. Collected under the direction of Major WH Emory Commissioner, chiefly in the valley of the Río Grande below Doñana, by **CC Parry MD, JM Bigelow MD, Mr Charles Wright and Mr A Schott**. [32°25'N. 106°48'W]. [Dona Ana County]. /// DGD: *angustissimus*, en floraison, jgo, go vertes, 2 racèmes, 'scrappy'; pas de date de collecte. [P; 9-II-2004].

66092. Herbarium. Arizona State University. /// **Plants of New Mexico**. Herbarium of Arizona State University. Leguminosae. *Phaseolus grayanus* Woot. & Standl. County: Catron. Location: 31 mi N of Cottonwood Campground, Rte 180. Habitat: dry river bed and banks; roadside. Elev.: [blanc]. Date: 14-VIII-74. Collector: **DJ Pinkava P12478**, E Lehto & T Reeves. Det.: E. Lehto. /// *Phaseolus angustissimus* Gray, det. R Buhrow, 3-14 1984. Annotation – Herbarium of Arizona State University. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F. Freytag, Dec 2 1991. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 3 racèmes, en floraison, jgo en transition à go vertes, qq folioles letérales avec esquisse de lobation basale. [ASU; 24-IX-2015].

Plants of **New Mexico**. Herbarium of Arizona State University. Leguminosae. *Phaseolus grayanus* Woot. & Standl. County: Catron. Location: 31 mi N of Cottonwood Campground, Route 180. [33°38'N. 108°54'W]. Habitat: dry river bed and banks, roadside. Collector: **DJ Pinkava P12478, E Lehto & T Reeves**. Date 14-VIII-74 [14 août 1974]. /// The University of Texas Herbarium. *Phaseolus angustissimus* A Gray, Alfonso Delgado S., 1982. /// DGD: *angustissimus*, en floraison, 5 racèmes, folioles longues avec lobe légèrement marqué à la base. [NY; 10-VI-2003].

US2737102. Plants of **New Mexico**. Herbarium of Arizona State University. Leguminosae. *Phaseolus grayanus* Woot. & Standl. County Catron. Location: 31 mi N of Cottonwood Campground, Rte 180. [33°38'N. 108°54'W]. Habitat Dry river bed and banks; roadside. Collector **DJ Pinkava P12478, E Lehto & T Reeves**. Det. E. Lehto. Elev. [blanc]. Date: 14-VIII-74 [14 août 1974]. /// The University of Texas Herbarium. Systematic Revision of *Phaseolus*. *Phaseolus angustissimus* A. Gray, det. Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS, USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F. Freytag, Oct 17 1988. /// DGD: *angustissimus*, 5 racèmes, en floraison, folioles latérales avec ébauche de lobe basal externe. [US; 31-VIII-2009].

Herbarium Monacense. /// Staatsherbarium München. Sammlg. Direktor Josef Mayer – Zugeg. 1944. /// Parke Davis & Co. Herbarium. *Phaseolus wrightii* Gray. Mogollon Mts, **N. M.** [33°25'N. 108°48'W]. [Catron County]. leg. **HH Rusby**. Aug. '81 [? août 1881]. /// DGD: *angustissimus*, 5 racèmes, en floraison. [M; 14-X-2005].

MO1731213. Missouri Botanical Garden. The Henry Eggert Herbarium. Bought 1905. *Phaseolus wrightii* Gray. Burro Mts. **New Mexico**. **Henry H Rusby**. July 1881. /// Missouri Botanical Garden. The Henry Eggert Herbarium. Bought 1905. *Phaseolus dilatatus* Wooton & Standley n.sp. Contr. U.S. Nat. Herb. 16: 139. /// Type Specimen. HERB. M.B.G. [étiquette imprimée en rouge]. barré de noir, devant: "NOT A". /// *P. angustissimus* CVP [écrit au crayon noir sur la planche]. /// The University of Texas Herbarium. This is not a type. *Phaseolus angustissimus* A. Gray. Alfonso Delgado S. 1985. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray. Det. George F. Freytag, Jun 23 1986. /// DGD: *angustissimus*, 2 parties de tige 'scandens', à peu près défoliées, 2 racèmes, en floraison; pas de numéro ni de jour de collecte. [MO; 21-VI-2013].

US78207. 2479. Flora Americae Borealis. Ex herbario Parke, Davis & Co. *Phaseolus wrightii* Gray. Loc: Burro Mts., **New Mexico**. [32°35'N. 108°26'W]. Leg. **Henry H Rusby**. Temp. coll. June 1881 [? juin 1881]. /// *Phaseolus dilatatus* Wooton & Standley [écrit à l'encre noire sur la planche probablement par T.H. Kearney]. /// *Phaseolus angustissimus* Gray, déterminé A. Delgado S., 1977. Colegio de Postgraduados, Chapingo, México, MEXICO. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, 3+0 racèmes, en floraison, jgo, go vertes, qq folioles terminales et latérales avec lobe basal externe, deux parties de tiges ascendantes. [US; 1-IX-2009].

Herb. Mus. Paris. acquis par échange avec Missouri Bot. Gard. *Phaseolus dilatatus* Woot. & Standl. n.sp. in Contrib. US Natl. Herb. 16: 139. /// **2110**. Flora Americae Borealis. Ex Herbario Parke Davis & Co. *Phaseolus wrightii* A Gray. Loc. Burro Mts., **New Mexico**. [32°35'N. 108°26'W]. Leg. **Henry H Rusby**. Temp coll. July 1881 [? juillet 1881]. /// DGD: *angustissimus*, 3 racèmes, en floraison, jgo. [P; 12-II-2004].

Flora of **New Mexico**. Catron County. *Phaseolus acutifolius* Gray. Gravel beach near Fullerton Ranch. Vicinity of Bat Cave, southeastern edge Plains of San Augustin [sic!] (14 miles SW of Horse Springs) [33°40'N. 108°06'W]. **C E Smith Jr. No. 156**. 15 Aug 1948 [15 août 1948]. /// 861378 [numéro à l'encre noire]. /// ANSPHILA [cachet perforé]. /// The University of Texas Herbarium. Systematic Revision of *Phaseolus*. *Phaseolus angustissimus* A. Gray, Alfonso Delgado S., 1985. /// DGD: *angustissimus*, 2 tiges ascendantes rampantes non volubiles, 7 racèmes, en floraison. [PH; 11-IX-2007].

US2328094. Flora of [New Mexico](#). Catron County. *Phaseolus acutifolius* Gray. Gravel beach near Fulleton Ranch. Vicinity of Bat Cave, southeastern edge Plains of San Augustin (14 miles SW of Horse Springs). [33°40'N. 108°06'W]. [CE Smith, Jr.](#) No. 156. 15 Aug. 1948. /// *Phaseolus angustissimus* Gray, déterminé A. Delgado S., 1977. Colegio de Postgraduados, Chapingo, México, MEXICO. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 1 Apr 1985. /// DGD: *angustissimus*, 6 racèmes, en début de floraison, qq folioles avec ébauche de lobe basal externe. [US; 1-IX-2009].

New Mexico State University 48650 Data-Based. /// Flora of [New Mexico](#). 4813. *Phaseolus angustissimus* Gray. Socorro Co., 1 ½ mi N of Riley, NW ¼ Sec. 14, T2N, R4W (Riley 15 min. quad.) on S-facing nearly barren shisty shale, with *Larrea*, *Atriplex canescens*, juniper. Flowers deep pink, keel with yellow; from a stout cylindrical root. Coll: [Richard](#) and Michael [Spellenberg](#), Jack Edwards, James Reitzel. Sept. 4, 1977. /// East Side Socorro EIS Area Threatened and Endangered Plant Species Survey. Bureau of Land Management. Directed by Richard Spellenberg. /// Annotation. *Phaseolus angustissimus* A. Gray. Duane Isely 1990. /// DGD: *angustissimus*, 11 racèmes, en floraison, jgo, go vertes, base de la tige lignifiée 14 mm diam., qq folioles terminales 32x4 mm et latérales avec esquisse de lobation basale. [NMC; 28-VIII-2017].

Flora of [New Mexico](#). 4813. *Phaseolus angustissimus* A Gray. Socorro Co.: 1 ½ mi N of Riley, NW ¼ sec 14, T2N R4W (Riley 15 min quad.) on S facing nearly barren schist shale, with *Larrea*, *Atriplex canescens*, *Juniper*. [34°24'N. 107°13'W]. Flowers deep pink, keel with yellow; from a stout cylindrical root. Coll. [Richard](#) and Michael [Spellenberg](#), Jack Edwards, James Reitzel. Sept. 4, 1977 [4 septembre 1977]. /// DGD: *angustissimus*, en floraison, go vertes, 14 racèmes, folioles étroites sans lobation, la base de la plante est ligneuse diamètre 1.5 cm. [NY; 10-VI-2003].

New Mexico State University 52059 Data-Based. /// FAB. 6638 *Phaseolus angustissimus* Gray. var. *latus* M.E. Jones. Coll: [Richard Spellenberg](#), Rob Soreng, Rex Wahl. Aug. 15, 1982 [15 août 1982]. [New Mexico](#), Catron Co., 9 mi S of Beaverhead, 2 mi SE of Wall Lake, Hoyt Creek, just inside USFS boundary, NW ¼ Sec. 13, R12W, T11S, rocky slopes with pinyon and juniper. Open, rocky, south slope. Perianth pink. Distribution: NMC. /// DGD: *angustissimus*, 8 racèmes, en floraison, go sèches à déhiscence spiralée, base de la tige lignifiée 10 mm diam., hétérophylie, folioles terminales 13x6 mm et 28x3 mm, qq folioles latérales avec esquisse de lobation basale. [NMC; 28-VIII-2017].

MO1731221. HERBARIUM OF PAUL C. STANDLEY. Springfield, Missouri. *Phaseolus angustissimus*. Organ Mts., [N.M.](#) Van Patten's. June 11, 1906. Coll. [P.C.S.](#) /// Missouri Botanical Garden. /// The University of Texas Herbarium. Systematic Revision of *Phaseolus*. *Phaseolus angustissimus* A. Gray. Alfonso Delgado S. 1985. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray. Det. George F. Freytag, Jun 23 1986. /// DGD: *angustissimus*, 3 racèmes, en floraison, jgo en transition à go verte, go verte, hétérophylie. [MO; 21-VI-2013].

Herb. Mus. Paris. acquis par échange avec Missouri Bot. Gard.. /// [New Mexico](#). *Phaseolus angustifolius*. Locality: Organ Mts, van Patteris Camp. [32°20'N. 106°32'W]. Date June 11, 1906 [11 juin 1906]. Collector [Paul C Standley](#). /// DGD: *angustissimus*, 4 racèmes, en go vertes, go sèches. [P; 9-II-2004].

US560900. /// United States National Museum. /// [New Mexico](#). *Phaseolus angustissimus*. Organ Mts. Van Patten's. [32°20'N. 106°32'W]. June 11, 1906. Coll. [P.C.S.](#) [= Paul Carpenter Standley]. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, 2+2 racèmes, en floraison, une go verte, deux bases de tiges fertiles. [US; 31-VIII-2009].

US564743. Plants of [New Mexico](#) used by the Zuni Indians. *Phaseolus angustissimus* A. Gray. No. 77. Mrs Matilda Coxe [Stevenson](#), collector. 1902. /// *P. acutifolius* A. Gray [écrit à l'encre noire sur la planche]. /// OK CVP [écrit au crayon noir sur la planche, probablement par Charles Vancouver Piper, avec une flèche pointant vers le nom *Phaseolus angustissimus* A. Gray]. /// United States National Herbarium. *Phaseolus*

angustissimus A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, 2+2+1 racèmes, en début de floraison, trois petits fragments de plantes, qq folioles latérales et terminales avec esquisse de lobation à la base; pour le type de folioles et de racèmes, ce n' est pas *acutifolius*. [US; 1-IX-2009].

US865640. /// United States National Museum. Deposited by the U.S. Department of Agriculture. /// Plants of **New Mexico**. *Phaseolus angustissimus*. Castle Rock, Datil Forest, [34° 09'N. 108° 33'W], alt. 7700 ft. [2,340 m], on dry sand slide. **MW Talbot # 112**. Sept. 10, 1915 [10 septembre 1915]. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, 4 racèmes, en floraison, jgo, jgo en transition à go vertes, go vertes, base de tige lignifiée. [US; 31-VIII-2009].

Herbarium of the University of Texas. Plants of Valencia County, **New Mexico**. *Phaseolus angustissimus* Gray. 20 mi. SW of Grants. granitic hillsides, stems prostrate. [35°10'N. 106°50'W]. Date: 12 Aug. 1967 [12 août 1967]. Coll. **BL Turner no. 5692**. /// DGD: *angustissimus*, en floraison, plus de 9 racèmes, tiges rampantes, base plante lignifiée diamètre 5 mm longueur 4 cm, spécimen avec grand développement. [BRIT; 23-II-2002].

256697. /// Herbarium of the University of Texas. Plants of Valencia County, **New Mexico**. *Phaseolus angustissimus* Gray. 20 mi. SW of Grants. [35°10'N. 106°50'W]. Granitic hillsides. Stems prostrate. Date 12 Aug. 1967. Coll. **B L Turner n°. 5692**. /// The University of Texas Herbarium. Systematic Revision of *Phaseolus*. *Phaseolus angustissimus* A.Gray, Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS, USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A.Gray. Det. George F. Freytag, May 26, 1988. /// DGD: *angustissimus*, plus de dix racèmes, en floraison, j go, base tige lignifiée. [TEX; 12-VIII-2008].

United States National Arboretum. Washington D.C. cachet à l'encre noire sans numéro. /// Flora of New Mexico, Arizona and S.E. California. *Phaseolus tenuifolius*. Locality: Organ Mts **N M**. [32°20'N. 106°32'W]. Collector **G R Vasey**. Aug. 1881. /// Organ Mts Sept 1881 + 30 10 GRV [écrit à l'encre noire]. /// Herbarium of Isaac C. Martindale purchased from Philadelphia College of Pharmacy and Science, 1964 [cachet à l'encre noire]. /// DGD: *angustissimus*, 4 racèmes, en floraison, j go, go verte, une graine sans encore arrivée à maturité dans la pochette indique que c'est un *Rugosi*, tige robuste non volubile. [NA; 18-VII-2006].

Flora of New Mexico, Arizona and SE California. *Phaseolus tenuifolius*. Locality: Organ Mts, NM [**New Mexico**]. [32°20'N. 106°32'W]. Collector: **GR Vasey**. Aug. 1881 [? août 1881]. /// The University of Texas Herbarium. *Phaseolus angustissimus* A Gray, Alfonso Delgado S., 1982. /// DGD: *angustissimus*, en floraison, jgo, go vertes, 4 racèmes, exemplaire très 'scrappy'. [NY; 10-VI-2003].

Flora of New Mexico, Arizona and S.E. California. *Phaseolus tenuifolius*. Locality: Organ Mts **NM**. [32°20'N. 106°32'W]. Collector **GR Vasey**. Aug. 1881 [? août 1881]. N° **120**. /// *P. angustissimus* Gray CVP. [écrit au crayon noir sur la planche par Charles Vancouver Piper]. /// DGD: *angustissimus*, tige fertile rampante non volubile, 8 racèmes, en floraison, j go, go vertes. [BM; 18-XII-2006].

Herb. Mus. Paris. no. 120. Reçu le 1 décembre 1882. /// Flora of New Mexico, Arizona and SE California. *Phaseolus tenuifolius*. Locality Organ Mts., **N.M.**. [32°20'N. 106°32'W]. Collector **GR Vasey**. August 1881, **120**. /// *P. angustissimus* A. Gray, déterminavit CV Piper 6/18/1924 [18 juin 1924]. /// DGD: *angustissimus*, en floraison, go vertes, 4 racèmes, 'scrappy'. [P; 9-II-2004].

Flora of New Mexico, Arizona and SE California. *Phaseolus tenuifolius* [sic!]. Locality, Organ Mts., **N. M.** Collector **G R Vasey**. August 1881 [? août 1881]. /// Herbarium of Thomas C. Porter [cachet à l'encre noire].

/// 731338 [numéro à l'encre noire]. /// DGD: *angustissimus*, 3 racèmes, en j go, spécimen pauvre et pratiquement défolié; pas de numéro ni de jour de collecte. [PH; 13-IX-2007].

US83902. Coll. U.S. Department of Agriculture. *Phaseolus tenuifolius*. Locality: **New Mexico**. Collector: **GR Vasey**. 1881. /// *P. angustissimus* [écrit au crayon noir sur la planche, probablement par Piper]. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, 4 racèmes, en floraison; pas de jour ni de mois de collecte. [US; 31-VIII-2009].

US942236. Flora of New Mexico, Arizona and SE California. *Phaseolus tenuifolius*. Locality Organ Mts, **NM**. Collector **GR Vasey**. August 1881. /// *P. angustissimus* Gray CVP [écrit à l'encre noire sur la planche, probablement par C.V. Piper]. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, 5 racèmes, en floraison, go vertes; pas de jour ni de numéro de collecte. [US; 1-IX-2009].

US78193. Coll. United States Department of Agriculture. *Phaseolus tenuifolius*. Locality: Organ Mts, **N Mex**. Collector: **G R Vasey**, 1881. /// United States National Herbarium *P. angustissimus* Gray var. [sic !], det. Oliver W. Norvell, 11/29/49 [29 novembre 1949]. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, 4 racèmes, en floraison, jgo, jgo en transition à go verte, go vertes; pas de jour, ni de mois de collecte. [US; 31-VIII-2009].

Coll. US Department of Agriculture. Com. 4/83. *Phaseolus tenuifolius*, cf *P. acutifolius* var. [sic!]. Locality: **New Mexico**. Collector: **GR Vasin**. 1881. /// **120** [étiquette collée, écrit au crayon noir; peut-être le numéro de collecte]. /// DGD: *angustissimus*, en floraison, jeunes go, et une go à maturité, 5 racèmes. [K; 5-VIII-1985].

UCR26911. /// Herbarium of the University of California, Riverside. *Phaseolus angustissimus* Gray. Grown in a UCR greenhouse from seed collected by **J.G. Waines** on 10 Sept. 1976 in Catron Co., **New Mexico** along U.S. Hwy 180 near the Arizona border at mile post 27. Legume accession # L 220. Seeds planted 5 Feb. 1982. Germination hypogeal – probably a perennial. About 3 ft. high in the greenhouse, flowers light rose-lavender. AC Sanders & R Manshardt 2452. 20 May 1982. /// Specimen data entered into **UCR** database. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F Freytag, Apr 6 1992. Colorado State University Herbarium. /// DGD: *angustissimus*, 6 racèmes, en floraison, go sèches, folioles longues étroites, qq latérales avec esquisse de lobation basale, une terminale avec un seul lobe crochu, une terminale avec deux lobes pointus comme un trident. [UCR; 19-VIII-2014].

University of Michigan – Herbarium [cachet en relief]. /// Herbarium of the University of Texas. No. **8623**. *Phaseolus angustissimus* Gray. rare in N. Mex. Locality Santa Fe – Los Frijoles, **N. Mex**. [Los Alamos County]. [35°45'N. 106°15'W]. Date Sept. 5, 1929 [5 septembre 1929]. Collected by **Eula Whitehouse**. Det by Standley. /// The University of Texas Herbarium. *Phaseolus angustissimus* A. Gray, Alfonso Delgado S., 1983. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F Freytag, Jan 29 1988. /// DGD: *angustissimus*, tige ascendante, 8 racèmes, en floraison, j go, j go en transition à go verte, go vertes, go sèche, graines, folioles étroites 30 mm long 3 mm large non lobées. [MICH; 17-IX-2007].

79120. /// Herbarium of the University of Texas. Nº. **8623**. *Phaseolus angustissimus* A. Gray. Locality: Santa Fe – Los Frijoles, **N.M.**. [35°45'N. 106°15'W]. Date: Sept. 5, 1929. Collected by **Eula Whitehouse**. Det by Standley. /// The University of Texas Herbarium. Systematic Revision of *Phaseolus*. *Phaseolus angustissimus* A.Gray, Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS, USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A.Gray. Det. George F. Freytag, May 26, 1988. ///

DGD: *angustissimus*, deux fragments de tiges érectes, 4+6 racèmes, en floraison, j go, j go en transition à go vertes. [TEX; 12-VIII-2008].

Camp 19. Oct 21st 1857 [21 octobre 1857]. **New Mexico**. D^r **Woodhouse** in Silgreave Exped[ition]. /// Herbarium of Academy of Natural Sciences, Philadelphia. *Phaseolus leiospermus* T & G. = *pauciflorus* Benth. [sic!]. /// ANSPHILA [cachet perforé]. /// 0922115 [numéro à l'encre noire]. /// The University of Texas Herbarium. *Phaseolus* sp. W.R. Ruff. August 1981. /// DGD: *angustissimus*, 4 racèmes, en floraison, j go, spécimen pauvre et pratiquement défolié; pas de numéro de collecte. [PH; 13-IX-2007].

New Mexico State University 15833 Data-Based. /// Herbarium of the New Mexico College of Agriculture and Mechanic Arts [cachet à l'encre bleue]. /// No. [blanc] **New Mexico**. *Phaseolus*. Locality Craters, Valencia Co. Date July 28, 1900 [28 juillet 1900]. Approx. alt. [blanc]. Collector **E.O. Wooton**. Det. by [blanc]. /// University of Arizona Annotation Label. *Phaseolus angustissimus*, or *Cologania*, G. Nabhan 1978. /// *Phaseolus angustissimus* A. Gray. Annotated by: R. Manshardt Date 4 Oct. '82. /// DGD: *angustissimus*, 4 racèmes, en floraison, go verte; pas de numéro de collecte. [NMC; 28-VIII-2017].

Plants of **New Mexico**, collected in the Mogollon Mountains, by **EO Wooton s.n.** *Phaseolus angustissimus* Asa Gray. [United States], New Mexico, Socorro Co[unty], near "Gran Cañon", E Fork of Gila. [33°12'N. 108°10'W]. 6,000 feet [1,830]. August 19, 1900. /// DGD: *angustissimus*, en floraison, 3 racèmes, base de tige un peu lignifiée, tige rampante. [ENCB; 11-14-VII-1978].

US738966. /// United States National Museum. /// **New Mexico**. *Phaseolus angustissimus* Gray. Grand Canyon of the Gila. [33°12'N. 108°10'W]. No. [blanc]. **EO Wooton**, collector. Aug. 19, 1900 [19 août 1900]. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, 5 racèmes, en floraison, jgo, folioles terminales et latérales avec esquisse de lobe rond externe à la base. [US; 31-VIII-2009].

US738971. /// United States National Museum. /// Plants of **New Mexico**. *Phaseolus angustissimus* A. Gray. Organ Mountains, Dona Ana County. Van Pattens. **EO Wooton**, collector. Aug. 29, 1894 [29 août 1894]. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, 9 racèmes, en floraison, jgo; base de tige lignifiée, plante avec tiges ascendantes. [US; 31-VIII-2009].

US241224. /// United States National Museum. Deposited by the U.S. Department of Agriculture. /// Herb. of A. & M. College of N.M.. Name *Phaseolus angustissimus*. Locality Foothills Organ Mts, **N.M.** Date Aug. 29, 1894 [29 août 1894]. Collector **EO Wooton**. /// *Phaseolus angustissimus* Gray, déterminé A. Delgado S., 1977. Colegio de Postgraduados, Chapingo, México, MEXICO. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 28 Mar 1985. /// DGD: *angustissimus*, 6 racèmes, en floraison, jgo, go vertes. [US; 31-VIII-2009].

US738970. Plants of **New Mexico**. *Phaseolus angustissimus* Gray. Organ Mountains, Dona Ana County, Soledad Canyon. **E O Wooton**, collector. July 11, 1904 [11 juillet 1904]. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 28 Mar 1985. /// DGD: *angustissimus*, 5 racèmes, en floraison, jgo, jgo en transition à go vertes. [US; 31-VIII-2009].

US738965. /// United States National Museum. /// Plants of **New Mexico**. *Phaseolus acutifolius* Gray. Cinder Cone, Salt Lake. No. [blanc]. **EO Wooton**, collector. July 25, 1904 [25 juillet 1904]. /// *P. dilatatus* [écrit au crayon noir sur la planche, probablement par C.V. Piper]. /// *Phaseolus angustissimus* A. Gray, det. George

F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, 2+0 racèmes, en tt début de floraison, deux fragments de plantes, spécimens pauvres. [US; 1-IX-2009].

US738967. /// United States National Museum. /// Plants of [New Mexico](#). *Phaseolus angustissimus* Gray. Craters, Valencia Co.. No. [blanc]. [EO Wooton](#), collector. July 28, 1906 [28 juillet 1906]. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 28 Mar 1985. /// DGD: *angustissimus*, 3 racèmes, en début de floraison. [US; 1-IX-2009].

New Mexico State University 15803 Data-Based. /// Herbarium of the N.M.AG. College [cachet à l'encre mauve]. /// [New Mexico](#). Collected in the Mogollon Mountains, Socorro Co., by [E.O. Wooton](#). Aug. 19, 1900 [19 août 1900]. Near "Grand Canon" [sic!] E Fork of Gila. *Phaseolus angustissimus* [écrit au crayon noir sur la planche]. /// DGD: *angustissimus*, 7 racèmes, en floraison, jgo, go verte avec stries violettes, qq folioles terminales 39x10 mm et latérales avec esquisse de lobation basale; pas de numéro de collecte. [NMC; 28-VIII-2017].

New Mexico State University 15799 Data-Based. /// Herbarium of the N.M.AG. College [cachet à l'encre mauve]. /// Herb. of A. & M. College of N. M. Name *Phaseolus angustissimus* Locality Van Patterns, Organ Mts. [N\[ew\].M\[exico\]](#). Date Aug 29/ 94 [29 août 1894]. Collector E.O. Wooton. /// DGD: *angustissimus*, 7 racèmes, en floraison, jgo, qq folioles terminales 31x5 mm et latérales avec esquisse de lobation basale; pas de numéro de collecte. [NMC; 28-VIII-2017].

US738969. Plants of [New Mexico](#). *Phaseolus angustissimus* Gray. Organ Mountains, Dona Ana County, Van Pattens. [EO Wooton](#), collector. Sept. 10, 1899 [10 septembre 1899]. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 28 Mar 1985. /// DGD: *angustissimus*, 4 racèmes, en floraison, jgo. [US; 31-VIII-2009].

New Mexico State University 15834 Data-Based. /// Herbarium of the New Mexico College of Agriculture and Mechanic Arts [cachet à l'encre bleue]. /// [New Mexico](#). Collected in the Organ Mountains, Dona Ana Co. by [E.O. Wooton](#). *Phaseolus*. Sept. 11, 1904 [11 septembre 1904]. Soledad Cañon. /// University of Arizona Annotation Label. *Cologania angustifolia* or *Phaseolus angustissimus*, G. Nabhan 1978. /// *Phaseolus angustissimus* A. Gray. Annotated by: R. Manshardt Date 4 Oct. 1982. /// DGD: *angustissimus*, 8 racèmes, en floraison, une jgo, folioles terminales et latérales avec esquisse de lobation basale; pas de numéro de collecte. [NMC; 28-VIII-2017].

New Mexico State University 15805 Data-Based. /// Herbarium of the New Mexico College of Agriculture and Mechanic Arts [cachet à l'encre bleue]. /// [New Mexico](#). Collected in the Organ Mountains, Dona Ana Co. by [E.O. Wooton](#). *Phaseolus angustissimus*. Oct. 1, 1905 [1^{er} octobre 1905]. Van Pattens. /// DGD: *angustissimus*, 5 racèmes, en floraison, go vertes, qq folioles terminales 78x9 mm avec esquisse de lobation basale; pas de numéro de collecte. [NMC; 28-VIII-2017].

[New Mexico](#), collected in the Organ Mountains, Dona Ana Co. [32°20'N. 106°32'W], by [EO Wooton 434](#) *Phaseolus angustissimus* Gray, altitude 4,800 feet [1,460 m], September 1 1897. /// Herbar Barbey-Boissier. /// DGD: *angustissimus*, en floraison-go vertes, début maturité, 9 racèmes. [G; 15-II-2002].

[EO Wooton 434](#). *Phaseolus angustissimus* A Gray, [New Mexico](#), collected in the Organ Mountains, Dona Ana county [32°20'N. 106°32'W], altitude 4800 feet [1,460 m]. September 1, 1899 [1^{er} septembre 1899]. /// Herbar Delessert; ann. 18999 [sic!]. /// DGD: OK *angustissimus*, en floraison, jgo. [G; 11-II-2002].

[New Mexico](#). collected in the Organ Mountains, Dona Ana Co. [32°20'N. 106°32'W], by [EO Wooton 434](#). *Phaseolus angustissimus* Gray. altitude, 4800 feet [1,460 m]. September 1, 1897. /// Royal Gardens Kew 2

Jun 98 [cachet]. /// *Phaseolus angustissimus* A Gray. ex num cit. Maréchal (1978). /// DGD: *angustissimus*, en floraison et jeunes go, 2 go vertes, 8 racèmes. [K; 7-III-2005].

MIN141924 /// **New Mexico**. collected in the Organ Mountains, Dona Ana, Co. [32°20'N. 106°32'W], by **E O Wooton**. 434. *Phaseolus angustissimus* Gray. Altitude 4800 feet [1,460 m]. September 1, 1897. /// DGD: *angustissimus*, une tige ramifiée rampante non volubile, 6 racèmes, en floraison, folioles étroites à linéaires. [MIN; 16-IV-2010].

MO1731219. **NEW MEXICO**. Collected in the Organ Mountains, Dona Ana Co., by **E.O. Wooton**. 434. *Phaseolus angustissimus* Gray. Altitude, 4800 feet. September 1, 1897. /// Missouri Botanical Garden. /// The University of Texas Herbarium. Systematic Revision of *Phaseolus*. *Phaseolus angustissimus* A. Gray. Alfonso Delgado S. 1985. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray. Det. George F. Freytag, Jun 23 1986. /// DGD: *angustissimus*, 5 racèmes, en floraison, jgo, jgo en transition à go verte, go vertes. [MO; 21-VI-2013].

New Mexico, collected in the Organ Mountains, Dona Ana Co. [32°20'N. 106°32'W], by **EO Wooton** 434. *Phaseolus angustissimus* A Gray. Altitude 4800 feet [1,460 m]. September 1, 1897. /// DGD: *angustissimus*, en floraison, go vertes, folioles longues étroites, lobe à la base des folioles peu marqué. [NY; 10-VI-2003].

Herb. Mus. Paris. Herbar E Drake. /// **New Mexico**. collected in the Organ Mountains, Dona Ana Co. [32°20'N. 106°32'W], by **EO Wooton**. 434. *Phaseolus angustissimus* Gray. altitude 4800 feet [1,460 m]. September 1, 1897 [1^{er} septembre 1897]. /// DGD: *angustissimus*, 6 racèmes, en floraison, jgo, go vertes. [x 2]. [P; 9-II-2004].

9597 Herbarium Wellesley College (WELC) donated to NY in 1988 [cachet à l'encre bleue]. /// Cancelled New York Botanical Garden [cachet à l'encre noire]. /// **New Mexico**, collected in the Organ Mountains, Dona Ana Co., [32°20'N. 106°32'W], by **E O Wooton**. 434. *Phaseolus angustissimus* A. Gray. Altitude 4,800 feet. September 1, 1897. /// DGD: *angustissimus*, 8 racèmes, en floraison, j go, j go en transition à go verte, go verte, tiges ascendantes non volubiles dans partie basale. [TEX; 12-VIII-2008].

US330658. /// United States National Herbarium. Deposited by the Smithsonian Institution. /// **New Mexico**. collected in the Organ Mountains, Dona Ana Co. [32°20'N. 106°32'W], by **EO Wooton**. 434. *Phaseolus angustissimus* Gray. Altitude, 4800 feet [1,460 m]. September 1, 1897 [1^{er} septembre 1897]. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 28 Mar 1985. /// DGD: *angustissimus*, 7 racèmes, en floraison, jgo, jgo en transition à go verte, go vertes. [US; 1-IX-2009].

New Mexico, USA. *Phaseolus angustissimus* A Gray. Leguminosae. Luna Co., Florida Mountains, E side of Florida Mts, at W end of Three Little Hills (NW ¼ sec 32, T25S R7W). [32°05'N. 107°31'W]. 4700 ft elev. [1,430 m]. Rocky slopes and arroyo. May 5, 1985. **RD Worthington** 13094. ex Herb UTEP. /// DGD: *angustissimus*, en floraison, 5 racèmes, folioles longues étroites avec un lobe à la base. [NY; 10-VI-2003].

UCR38344. /// **New Mexico**, USA. *Phaseolus angustissimus* A Gray. Leguminosae. Luna Co., Florida Mountains, E side of Florida Mts, at W end of Three Little Hills (NW ¼ sec 32, T25S R7W). 4700 ft elev. [1,430 m]. Rocky slopes and arroyo. May 5, 1985 [5 mai 1985]. **RD Worthington** 13094. ex Herb UTEP. /// Specimen data entered into **UCR** database. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F Freytag, Apr 6 1992. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 4 racèmes, en floraison, folioles tant terminales que latérales avec lobe basal externe. [UCR; 18-VIII-2014].

New Mexico, U.S.A. *Phaseolus angustissimus* Gray. Leguminosae. Dona Ana Co.: Organ Mts., Aguirre Springs Rec. Area, Sotol Creek at Pine Tree Trail (sec. 29, T22S, R4E), 5800 ft. elev. [1,768 m]. [32°

23°15'N, 106° 34'W]. May 18, 1985 [18 mai 1985]. [RD Worthington 13140](#). Ex Herb. UTEP. /// DGD: *angustissimus*, 4 racèmes, en floraison, jgo, base de tige ascendante. [NY; 18-II-2014].

UCR38322. /// [New Mexico](#), U.S.A. *Phaseolus angustissimus* Gray. Leguminosae. Dona Ana Co.: Organ Mts., Aguirre Springs Rec. Area, Sotol Creek at Pine Tree Trail (sec. 29, T22S, R4E), 5800 ft. elev. May 18, 1985. [RD Worthington 13140](#). Ex Herb. UTEP. /// Specimen data entered into UCR database. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F Freytag, Apr 6 1992. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 5 racèmes, en floraison, jgo, folioles longues étroites. [UCR; 19-VIII-2014].

Rijksherbarium 00.JAN 99 03446 Leiden. /// 501280 [cachet à l'encre noire]. /// Nationaal Herbarium Nederland L 0462556 [code barre]. /// [New Mexico](#), U.S.A. *Phaseolus angustissimus* Gray. LEG. Luna Co.: Florida Mts., about 0.5 mi. NW from top of Baldy Peak at spring (NW ¼ sec 36, T25S, R8W), [32°05'N. 107°36'W]. 5500 ft. elev. [1,670 m]. 25 Aug 1990. [R D Worthington 18632](#). Ex Herb. UTEP. /// DGD: *angustissimus*, une tige rampante ascendante non volubile florifère, 6 racèmes, en début de floraison, longues folioles linéaires les terminales avec esquisse de lobes à la base 83 x 8 mm ; une carte du sud de l'Etat indique avec un point rouge et une flèche rouge la collecte au sud de 'Spring Canyon State Park'. [L; 15-X-2007].

[New Mexico](#), USA. *Phaseolus angustissimus* A Gray. Leguminosae. Luna Co., Florida Mts, about 0.5 mi NW from top of Baldy Peak at spring (NW ¼ sec 36, T25S R8W). [32°05'N. 107°36'W]. 5500 feet. elev. [1,670 m]. 25 Aug 1990 [25 août 1990]. [RD Worthington 18632](#). ex Herb UTEP. /// DGD: *angustissimus*, en floraison, 9 racèmes, folioles très étroites. [NY; 9-VI-2003].

UCR67187. /// [New Mexico](#), U.S.A. *Phaseolus angustissimus* Gray. LEG. Luna Co.: Florida Mts., about 0.5 mi. NW from top of Baldy Peak at spring (NW ¼ sec 36, T25S, R8W), 5500 ft. elev. 25 Aug 1990. [R D Worthington 18632](#). Ex Herb. UTEP. /// Specimen data entered into UCR database. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F Freytag, Apr 6 1992. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 6 racèmes, en floraison. [UCR; 18-VIII-2014].

UCR77807. /// [New Mexico](#), U.S.A. *Phaseolus angustissimus* Gray. LEG. Dona Ana Co.: Potrillo Mts., Guzman's Lookout Mtn. (T28S, R4W, SW ¼ sec 35). [31° 49'N, 107° 13'W]. 1400 m, volcanic cinder cone. 03 Oct. 1992 [3 octobre 1992]. [RD Worthington 21614](#). Ex Herb. UTEP. /// Specimen entered into UCR database. /// DGD: *angustissimus*, 5 racèmes, en floraison, go verte, folioles très étroites avec lobe basal externe, tige ascendante. [UCR; 18-VIII-2014].

ASU256872. /// [New Mexico](#), U.S.A. *Phaseolus angustissimus* A. Gray. Fabaceae. NM: Dona Ana Co., Potrillo Mts., West Potrillo Mts., Guzman's Lookout Mtn. (T28S, R4W, Sec. 35, SW ¼), 1220 m, in arroyo near volcanic cinder cone. 29 Aug 1993 [29 août 1993]. [RD Worthington 22360](#). Ex Herb. UTEP. /// DGD: *angustissimus*, 6 racèmes, en floraison, jgo, folioles terminales et latérales avec lobe marqué à la base. [ASU; 24-IX-2015].

[C Wright 937](#) (ou 931?!), *Phaseolus angustissimus* A Gray, Coll. N. Mex. 1851. **ISOTYPUS** (écrit par R. Maréchal), **TYPUS** [étiquette rouge épinglée]. /// Conservatoire botanique, Genève, herbier Boissier, séries n'ayant pas servi à la rédaction du Flora Orientalis. /// DGD: *angustissimus*, 1 bouton floral, 1 jgo, 1 go verte à ½ de son développement; c'est un paratype. [G; 11-II-2002].

Nº 951. [C Wright](#), coll. [N. Mex.](#) 1851. /// *Phaseolus angustissimus* A Gray, Pl. Wright 2 p. 33 [écrit au crayon noir sur la planche, ce n'est pas l'écriture de Charles Vancouver Piper !]. /// DGD: *angustissimus*, 3 racèmes, en floraison, spécimen pauvre, folioles très étroites. [BM; 18-XII-2006].

Texas

University of Texas Herbarium. /// Plants of Trans-Pecos, **Texas**. Presidio County. *Phaseolus angustissimus*. Lower Shutup; Solitario. [29°27'N. 103°49'W]. N°. 864. Date 10 Nov 1984 [10 novembre 1984]. **J J Clark**. (det. By A.M. Powell, 6-93). /// ! B.L. Turner 2005 [cachet à l'encre noire]. /// code barre University of Texas – Austin (LL, TEX) 00440618. /// DGD: *angustissimus*, 3 racèmes, en floraison, j go, j go en transition à go vertes, go vertes. [TEX; 11-VIII-2008].

Plants of **Texas**. Lundell Herbarium. Texas Research Foundation. *Phaseolus angustissimus* A Gray. Presidio Co., about 10 mi from Ruidosa on road to Marfa, in Pinto Canyon, below Scheele's Goat Ranch. [29°58'N. 104°36'W]. decumbent in the gravelly creek bed. Petals rose-pink. **DS Correll & MC Johnston 24409**. Date 11 September 1961. /// DGD: *angustissimus*, base de plante avec plusieurs tiges rampantes érectes, 4 racèmes avec fleurs et boutons floraux, 2 racèmes avec go vertes et jgo. [BRIT; 22-II-2002].

Lundell Herbarium. /// Plants of **Texas**. Lundell Herbarium, Texas Research Foundation. *Strophostyles*. Presidio Co.: about 10 miles from Ruidosa on road to Marfa. In Pinto Canyon below Scheele's Goat Ranch. [29°58'N. 104°36'W]. Decumbent in the gravelly creek bed. Petals rose-pink. **D S Correll & M C Johnston**. N°. 24409. Date September 11, 1961. /// Manual of the Vascular Plants of Texas. *Phaseolus angustissimus* A.Gray, determined by Marshall C. Johnston 1966. /// Treated in 1967 with lauryl pentachlorophenate ! /// The University of Texas Herbarium. Systematic Revision of Phaseolus. *Phaseolus angustissimus* A.Gray, Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS, USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A.Gray. Det. George F. Freytag, May 26, 1988. /// Annotation ! Duane Isely 1990. /// code barre University of Texas – Austin (LL, TEX) 00404077. /// DGD: *angustissimus*, 8 racèmes, en floraison, j go, go vertes, go sèches, folioles linéaires 2-3 mm long 40-50 mm long non lobées, une tige robuste non volubile au depart d'une base lignifiée. [LL; 11-VIII-2008].

Lundell Herbarium. /// Plants of **Texas**. Lundell Herbarium, Texas Research Foundation. *Phaseolus angustissimus* A.Gr. Brewster Co.: 20 miles south of Alpine, rocky, grassy slopes. [30°10'N. 103°32'W]. Flowers pink. **D S Correll & D C Wasshausen** N°. 27816. Date June 16, 1963. /// Treated in 1967 with lauryl pentachlorophenate ! /// Manual of the Vascular Plants of Texas. [blanc] determined by Marshall C. Johnston. /// The University of Texas Herbarium. Systematic Revision of Phaseolus. *Phaseolus angustissimus* A.Gray, Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS, USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A.Gray, det. George F. Freytag, May 26, 1988. /// code barre University of Texas – Austin (LL, TEX) 00404073. /// DGD: *angustissimus*, 4 racèmes, en floraison, j go, folioles étroites linéaires 3-4 mm large 40-70 mm long quelques folioles latérales avec esquisse de lobe rond à la base, racine lignifiée pivotante 15 cm long 15 mm diamètre à partir de laquelle partent deux tiges érigées ascendantes non volubiles. [LL; 11-VIII-2008].

Plants of **Texas**. Lundell Herbarium, Texas Research Foundation. *Phaseolus angustissimus* A Gray. Brewster Co.: 20 miles south of Alpine, rocky grassy slopes. [30°10'N. 103°32'W]. Flowers pink. **DS Correll & DC Washhausen** no. 27816. Date June 16, 1963. /// DGD: *angustissimus*, floraison, 4 racèmes, folioles étroites, quelques lobes à la base des folioles latérales, base plante (ou racine) ligneuse 20 cm long diamètre 1 cm. [NY; 10-VI-2003].

Lundell Herbarium. /// Plants of **Texas**. Lundell Herbarium, Texas Research Foundation. *Phaseolus angustissimus* A.Gray. Brewster Co.: foothills of 9-Point Mesa, above headquarters of 9-Point Mesa Ranch, about 60 miles south of Alpine. Intricate vine; flowers pinkish. **D S Correll** N°. 33771. September 21, 1966. /// Treated in 1967 with lauryl pentachlorophenate ! /// The University of Texas Herbarium. Systematic Revision of Phaseolus. *Phaseolus angustissimus* A.Gray, Alfonso Delgado S., 1985. /// Annotation ! Duane Isely 1990. /// code barre University of Texas – Austin (LL, TEX) 00040246. /// DGD: *angustissimus*, 8 racèmes, en floraison, folioles linéaires 3-6 mm long 40-80 mm long non lobées, une double tige robuste volubile seulement dans extrême parties terminales au depart d'une base lignifiée. [LL; 11-VIII-2008].

University of Texas Herbarium. /// Plants of Trans-Pecos, [Texas](#). The Solitario. Presidio County. *Phaseolus angustissimus* Gray. Fabaceae 128D. Subfam. Papilionoideae. Slimleaf bean. Infrequent in igneous soil of far north rim (29° 30.64 N, 103° 49.57 W) near road, with several spp. of *Dalea* and mixed deser cacti and shrubs. Flowers magenta. Elevation 4400' [1,340 m]. [Jean E Hardy 516](#). 15 Apr 1994 [15 avril 1994]. /// code barre University of Texas – Austin (LL, TEX) 00201322. /// DGD: *angustissimus*, 2+4 racèmes, en floraison, deux tiges robustes ascendantes, folioles étroites triangulaires longuement acuminées les latérales avec petit lobe rond externe à la base. [TEX; 11-VIII-2008].

US138603. North American Plants. No. [blanc]. *Phaseolus angustissimus* Gr. Leaves 1 ½ - 3' long. Habitat c [pour 'common'] in w. [pour 'Western'] [Texas](#). Sept. 83 [? septembre 1883]. [V Havard](#), U.S.A. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 28 Mar 1985. /// DGD: *angustissimus*, 3 racèmes, en floraison, jgo, jgo en transition à go verte, go verte, go sèche, spécimen pauvre. [US; 31-VIII-2009].

US225396. /// United States National Herbarium. Deposited by the Smithsonian Institution. /// North American Plants. No. [blanc]. *Phaseolus atropurpureus* Moç. Habitat Tarlinga Cr [eek] & Grapevine Cañon in W [Texas](#). [V Havard](#), U.S.A. Sept 83 [? septembre 1883]. /// *P. angustissimus* [écrit au crayon noir sur la planche, probablement par C.V. Piper]. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, 5 racèmes, en floraison, go verte, qq folioles terminales et latérales avec esquisse de lobation à la base, spécimen pauvre. [US; 1-IX-2009].

Herbarium of the University of Texas. Plants of Presidio County and vicinity [[Texas](#)]. No. [796](#). *Phaseolus tenuifolius* (Gray) Woot. & Standl.. At head of canyon just beyond the divide on Marfa-Ruidosa road. [30°00'N. 104°35'W]. Date Aug. 10, 1936 [10 août 1936]. Coll. [LC Hinckley](#). Altitude about 1650 m. /// The University of Texas Herbarium. *Phaseolus angustissimus* A Gray, Alfonso Delgado S., 1982. /// DGD: *angustissimus*, en floraison, jgo, go vertes, 5 racèmes, folioles très étroites 2-4 mm large, non lobées. [NY; 10-VI-2003].

Herbarium of the University of Texas. Plants of Trans Pecos, [Texas](#). [Presidio County]. no. [796](#). *Phaseolus tenuifolius* (Gray) Woot. & Standl.. Locality near Chinati Mountains. [29°55'N. 104°28'W]. Date Aug. 1936 [? août 1936]. Coll. [LC Hinckley](#). /// The University of Texas Herbarium. *Phaseolus angustissimus* A Gray, Alfonso Delgado S., 1982. /// DGD: *angustissimus*, en floraison – go vertes, 2 racèmes, 'scrappy', folioles étroites, folioles latérales avec petit lobe à la base; même numéro de collecte et autre site ?! [NY; 10-VI-2003].

Head of Capote Draw on Marfa Ruidosa road at divide between Capote and Long Draws. [30°15'N. 104°29'W]. Date: Aug. 10, 1936 [10 août 1936]. Herbarium of the University of Texas. [[Texas](#)]. Plants of Presidio County and vicinity, *Phaseolus tenuifolius* (Gray) W. & S.. locality Coll. [LC Hinckley no. 796](#). Altitude about 5700 ft. [1,730 m]. /// Determined by Standley. /// DGD: *angustissimus*, 2 racèmes avec boutons floraux, 2 racèmes avec go vertes, forme avec folioles très étroites; même numéro de collecte et autre site ?! [BRIT; 22-II-2002].

US Natl Arb 162227. /// Herbarium of the University of Texas. Plants of Trans-Pecos [Texas](#). No. [796](#). *Phaseolus angustissimus* Gray. About 1 mi.E of summit of divide on Marfa – Ruidosa road. [30°00'N. 104°33'W]. Date: Aug. 10, 1936 [10 août 1936]. Coll. [LC Hinckley](#). /// Poisoned [cachet à l'encre noire]. /// Treated in 1967 with lauryl pentachlorophenate ! /// Manual of the Vascular Plants of Texas. *Phaseolus angustissimus* Gray, determined by Marshall C. Johnston 1966. /// DGD: *angustissimus*, 4 racèmes, en floraison, go verte, go sèches; même numéro de collecte et autre site ?! [NA; 17-VII-2006].

Herbarium of the University of Texas, [[Texas](#)]. Plants of Presidio County and vicinity. *Phaseolus tenuifolius* (Gray) Woot. & Standl. At head of canyon just beyond the divide on Marfa-Ruidosa road. [30°00'N.

104°35'W]. Date Aug. 10 1936. Coll. [LC Hinckley](#) 796. Altitude about 1,650 m. /// The University of Texas Herbarium. *Phaseolus angustissimus* A Gray, Alfonso Delgado S., 1982. /// DGD: *angustissimus*, floraison, jgo, go vertes, 5 racèmes, folioles très étroites 2-4 mm large, non lobées. [NY; 10-VI-2003].

79119. /// Herbarium of the University of Texas. Plants of Trans-Pecos [Texas](#). N°. 796. *Phaseolus tenuifolius* (Gray) Woot. & Standl. Locality: near Chinati Mountains. Date Aug. 1936 [? août 1936]. Coll. [L C Hinckley](#). /// *P. angustissimus* Gray, B.L.T. 1958. /// The University of Texas Herbarium. Systematic Revision of *Phaseolus*. *Phaseolus angustissimus* A.Gray, Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS, USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A.Gray. Det. George F. Freytag, May 26, 1988. /// code barre University of Texas – Austin (LL, TEX) 00040245. /// DGD: *angustissimus*, 5 racèmes, en floraison, j go, go vertes, une tige robuste dont la partie terminale est clairement volubile, folioles linéaires étroites 3-4 mm large 40-60 mm long non lobées. [TEX; 11-VIII-2008].

Flora of Texas. Plant Resources Center (TEX-LL), University of Texas at Austin. Fabaceae: *Phaseolus angustissimus* A.Gray. [Texas](#): Presidio Co.: Chinati Mtns. State Natural Area. San Antonio Canyon; along the jeep trail just N of first major fork in canyon (left fork is Cinco de Mayo); igneous gravel and boulders. 29° 54'2"N; 104° 29'12"W. Elev. 4130' [1,250 m]. At base of steep on W-facing canyon wall w/ *Opuntia*, *Daylirion*, *Fouqueira*, *Aloysia wrightii*, *Brickellia*, *Jatropha*, *Acacia*, *Bouteloua curti*, *Digitaria*, *Eragrostis*, etc, on slopes just above. Perennial herb from somewhat corky taproot, stems rambling over boulders. Infls axillary and more or less erect, up to nearly 30 cm tall. Calyx, pedicels, bracts all puberulent w/ white, hooked hairs. Fls pink w/ green keel. [Emily J Lott](#) & Susan P Rankin 4982. April 21, 2004 [21 avril 2004]. /// ! B.L. Turner 2005 [cachet à l'encre noire]. /// code barre University of Texas – Austin (LL, TEX) 00206177. /// DGD: *angustissimus*, 7 racèmes, en floraison, j go, j go en transition à go vertes, folioles étroites linéaires 2-4 mm large 30-60 mm long quelques folioles tant terminales que latérales avec petit lobe rond basal externe, tiges ascendantes non volubiles. [TEX; 11-VIII-2008].

UC67529. Ex Herb. Parke, Davis & Co., Flora of N.M. and A.T. no. 582. *Phaseolus wrightii* Gray. Bangharts Rancho [sic!]. A.T. leg. [Henry H Rusby](#) June 1883. /// Herbarium of the University of California. *P.* [sic!] *angustissimus* Gray, determined by Oliver W Norvell, date 1-23-50. /// *Phaseolus angustissimus* A Gray, det. GF Freytag, 25 Mar 1985. /// DGD: *angustissimus*, en floraison, jgo, une très longue tige rampante à base ligneuse, 5 racèmes. [UC; 20-X-2003].

UCR31404. /// Herbarium of the University of California, Riverside. Plants of El Paso County, [Texas](#). *Phaseolus angustissimus* Gray. El Paso, east end of Kenyon Joyce Rd., 1 block east of Stanton St., canyon at the SW foot of the Franklin Mountains, 2 ½ miles (airline) north of the central part of the University of Texas campus. (near 106 30'W, 31 48'N). Rocky wash in limestone canyon. A fairly common perennial in coarse rocky alluvium on the floor of the canyon. Flowers with lavender wings & green backed pink banner. Date 4 Oct. 1982 [4 octobre 1982]. Alt. 4000 ft. [1,219 m]. Coll. [AC Sanders](#), R Manshardt & K Neisses. No. 3106. /// Specimen data entered into UCR database. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray, det. George F Freytag, Apr 6 1992. Annotated at Colorado State University Herbarium. /// DGD: *angustissimus*, 8 racèmes, en floraison, jgo, go vertes, folioles triangulaires rhombiques à la base de la plante, longues étroites dans la partie élevée des tiges, qq folioles tant terminales que latérales avec lobe basal externe. [UCR; 19-VIII-2014].

UC863607. Plants of Brewster County, [Texas](#), T1237. *Cologania*. Banks of Calamity Creek. About 40 miles south of Alpine. [29°56'N. 103°29'W]. Collected by [Omer E Sperry](#). Date 8/6/41 [6 August 1941]. /// cachet sur la planche: "the Ira W Clokey Herbarium". /// University of Texas. Annotation label. *Phaseolus acutifolius* Gray, [det.] OS Fearing 1959. /// The University of Texas Herbarium, Systematic Revision of *Phaseolus*. *Phaseolus angustissimus* Gray, Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* Gray, det. George F. Freytag, Jul 14 1987. /// DGD: *angustissimus*, en floraison, deux racèmes. [UC; 20-X-2003].

US2264869. Plants of Brewster County, Texas. T1237. *Cologania*. [barré au crayon noir, "cf *Phaseolus*"]. Calamity Creek banks. About 40 miles south of Alpine. [29°56'N. 103°29'W]. Collected by Omer E Sperry. Date 8/6/41 [6 août 1941]. [21137, écrit au crayon noir dans le coin inférieur droit]. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, 4 racèmes, en floraison, jgo, go vertes. [US; 1-IX-2009].

927. Wooded gully O2 Ranch 40 mi SO of Alpine, Texas. [29°54'N. 103°42'W]. alt. 3700 ft. [1,120 m]. Sept. 1932 [? septembre 1932], TL Steiger. /// *Phaseolus angustissimus* Gray, det. JA Lackey, 1980. /// DGD: *angustissimus*, en floraison - jgo, 4 racèmes, base des tiges un peu ligneuse. [NY; 9-VI-2003].

1736. Rocky hillside. Alpine, Texas. [30°21'N. 103°40'W]. alt. 4600 ft. [1,400 m]. May 1932. TL Steiger. /// *Phaseolus angustissimus* A Gray, det. JA Lackey, April 1980. /// DGD: *angustissimus*, en floraison, 2 racèmes, folioles étroites longues 4-7 mm large non lobées, exemplaire pauvre mal conservé ! [NY; 10-VI-2003].

University of North Carolina Herbarium. 214052. /// Herbarium of the University of Texas. Plants of Brewster County, Texas. *Phaseolus angustissimus*. 20 miles south of Alpine. [30° 10'N. 103° 32'W]. Rocky igneous soil. Vine climbing in shrub, forming dense growths 3-4 feet wide and 2-4 feet high, seeds collected. Date Sept. 12, 1959. Coll. B L Turner, W L Ellison N°. 4594. /// DGD: *angustissimus*, 3 racèmes, en floraison, jgo en transition à go verte, go verte en transition à go sèche. [NCU; 23-VIII-2011].

Herbarium of the University of Texas. Plants of Brewster county, Texas. *Phaseolus angustissimus* A Gray. 20 miles south of Alpine. [30°10'N. 103°32'W]. Rocky igneous soil. Vine climbing in shrub, forming dense growths, 3-5 feet wide and 2-4 feet high, seeds collected. Date: Sept 12, 1959 [12 septembre 1959]. Coll. BL Turner, WL Ellison, no. 4594. /// DGD: *angustissimus*, en go vertes, 2 racèmes, folioles étroites 3-6 mm large non lobées. [NY; 10-VI-2003].

171868. /// Herbarium of the University of Texas. Plants of Brewster County, Texas. *Phaseolus angustissimus*. 20 miles south of Alpine. [30°10'N. 103°32'W]. Rocky igneous soil. Vine climbing in shrub, forming dense growths 3-4 feet wide and 2-4 feet high. Seeds collected. Date Sept. 12, 1959. Coll. B L Turner, W L Ellison N°. 4594. /// Pollen/ spore specimen in the Palynological Reference Collection. University of Texas Herbarium. /// The University of Texas Herbarium. Systematic Revision of *Phaseolus*. *Phaseolus angustissimus* A.Gray, Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS, USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A.Gray, det. George F. Freytag, May 26, 1988. /// code barre University of Texas – Austin (LL, TEX) 00404076. /// DGD: *angustissimus*, 1+3 racèmes, en floraison, j go, j go en transition à go vertes, deux tiges ascendantes commençant à être volubiles seulement dans extrême parties terminales, qq folioles latérales avec esquisse de lobe rond externe à la base, folioles longuement acuminées 4-5 mm large 60-90 mm long. [TEX; 11-VIII-2008].

79118. /// = 652. *Phaseolus angustissimus* Gray. Rare at Bobb's Hut, Pinnacle Mtn – Chisos Mountain area. Brewster Co., Texas. [29°06'N. 103°19'W]. Barton H Warnock. July 22, 1937 [22 juillet 1937]. /// The University of Texas Herbarium. Systematic Revision of *Phaseolus*. *Phaseolus angustissimus* A.Gray, Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS, USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A.Gray, det. George F. Freytag, May 26, 1988. /// code barre University of Texas – Austin (LL, TEX) 00404074. /// DGD: *angustissimus*, 1+3 racèmes, en floraison, j go en transition à go verte, deux tiges robustes non volubiles, folioles plutôt petites triangulaires longuement acuminées les latérales avec esquisse de lobe rond à la base. [TEX; 11-VIII-2008].

US1725312. /// United States National Museum. /// 652. Near Bobbs Hut on Pinnacle Mountain. Pink flowered. Chisos Mountain area. Brewster Country, Texas. July 22, 1937 [22 juillet 1937]. Collected by BH

[Warnock](#) [semble être l'étiquette originale]. /// Plants of western Texas. *Phaseolus angustissimus* Gray. No. 652. Omer E Sperry, collector. /// United States National Herbarium. *Phaseolus angustissimus* A. Gray, det. James Lackey, Jan 1980. /// *Phaseolus angustissimus* A. Gray, det. George F. Freytag, 27 Mar 1985. /// DGD: *angustissimus*, 4 racèmes, en floraison, jgo en transition à go verte, spécimen pauvre. [US; 1-IX-2009].

79117. /// Herbarium of the University of Texas. Plants of Brewster County, [Texas](#). *Phaseolus tenuifolius* (Gray) Woot. & Standl., det. B.R. Moor. Scattered in Calamity Creek. [29°49'27"N. 103°29'W]. August 6, 1941 [6 août 1941]. Collector: [Barton H Warnock 21018](#). /// *P. angustissimus* Gray, B.L.T., 1958. /// The University of Texas Herbarium. Systematic Revision of *Phaseolus*. *Phaseolus angustissimus* A.Gray, Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS, USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A.Gray, det. George F. Freytag, May 26, 1988. /// code barre University of Texas – Austin (LL, TEX) 00404075. /// DGD: *angustissimus*, 3 racèmes, en floraison, j go, go verte, tige ascendante puis tendance à être volubile, quelques folioles latérales avec lobe basal externe bien marqué 5-6 mm long pour 2-3 mm large. [TEX; 11-VIII-2008].

Herbarium of the University of Texas. [[Texas](#)]. Plants of Presidio County and vicinity. *Phaseolus*. infrequent, light purple flowers, large clumps in arroyas [sic!] above fills on highway 2 miles north of Shafter. [29°48'N. 104°19'W]. Alt. 4375 feet [1,330 m]. 27 October 1946. Collector [BH Warnock 46658](#). /// Determinavit WR Ruff. not *Strophostyles*, August 1981. /// Determinavit Alfonso Delgado S., *Phaseolus angustissimus* Gray, 1982. /// DGD: *angustissimus*, 2 racèmes avec go sèches, folioles très étroites (2-3 mm!), base de plante avec plusieurs tiges dénudées. [BRIT; 22-II-2002].

164185. /// Herbarium of the University of Texas. 4375. Plants of Presidio County, [Texas](#). *Phaseolus angustissimus* Gray. 128D. Infrequent, light purple flowers, large clumps in arroyos above fills on highway about 2 miles above Shafter. [29°48'N. 104°19'W]. [46658](#). October 27, 1946. [Barton H Warnock](#). /// The University of Texas Herbarium. Systematic Revision of *Phaseolus*. *Phaseolus angustissimus* A.Gray, Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS, USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A.Gray, det. George F. Freytag, May 25, 1988. /// code barre University of Texas – Austin (LL, TEX) 00404072. /// DGD: *angustissimus*, un racème, en floraison, spécimen avec une grande quantité de tiges entremêlées et pratiquement défolié mais très peu de parties fertiles; même écriture à la machine pour les numéros '4375' et '46658' qui pourraient l'un et l'autre être des numéros de collecte valables. [TEX; 11-VIII-2008].

MO1266281. PLANTS OF THE TRANSPECOS Region of SOUTHWESTERN [TEXAS](#). [5118](#). *Phaseolus angustissimus* Gray. Calcareous gravelly soil along arroyo running out of the east side of Beach Mountain, 7 miles north of Van Horn. [31° 10' 20"N. 104° 52'W]. Culberson County. [UT Waterfall](#). July 13, 1943 [13 juillet 1943]. Det. by I.M. Johnston. Gray Hb. . /// The University of Texas Herbarium. Systematic Revision of *Phaseolus*. *Phaseolus angustissimus* A. Gray. Alfonso Delgado S. 1985. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A. Gray. Det. George F. Freytag, Jun 23 1986. /// DGD: *angustissimus*, 2 racèmes, en floraison, jgo, tige rampante. [MO; 21-VI-2013].

Plants of [Texas](#). UC Davis Herbarium. *Phaseolus acutifolius* A. Gray var. *latifolius* Freeman. Brewster County: Nine Point Mesa, Cartwright Canyon, Cartwright Spring, scrub with graminoides on volcanic rocks; vine with pink flowers. Lat / Long: 29° 37' 40"N; 103° 26' 50"W. El. 1200 meters. April 23 1998. [Grady L Webster](#) & Burford Westlund [32628](#) (with T Luhan). Det. [blanc]. Fabaceae. Project supported by University of Texas Herbarium (TEX). /// *P. acutifolius* fide BLT [écrit au crayon noir sur la planche]. /// The University of Texas Herbarium (LL, TEX). *Phaseolus angustissimus* A.Gray, det. Alfonso Delgado S., 11/2005. /// code barre University of Texas – Austin (LL, TEX) 00404065. /// DGD: *angustissimus*, 4 racèmes, en floraison, j go, une tige robuste ascendante non volubile, folioles triangulaires 30-40 mm large

40-60 mm long légèrement lobées à la base; les folioles rappellent très fort un var. *acutifolius*, mais le type de tige et son diamètre et les j go sont celles de *angustissimus*. [TEX; 11-VIII-2008].

The University of Texas Herbarium. Plants of **Texas**. *Phaseolus angustissimus* ? El Paso Co.: Franklin Mountains and El Paso, arroyo on south side of Camelot Apt. complex at the North end of Stanton Street (31° 54'13"N – 106° 27'22"W), 4250 ft. elev. [1,290 m], bottom of arroyo, limestone alluvium. **R D Worthington 3522**. 16 September 1978. /// The University of Texas Herbarium. Systematic Revision of *Phaseolus*. *Phaseolus angustissimus* A.Gray, Alfonso Delgado S., 1982. /// Tropical Agriculture Research Station, ARS, USDA, Mayagüez, Puerto Rico 00708. *Phaseolus angustissimus* A.Gray, det. George F. Freytag, May 26, 1988. /// Annotation ! Duane Isely 1990. /// code barre University of Texas – Austin (LL, TEX) 00040244. /// DGD: *angustissimus*, 5+3 racèmes, en floraison, j go, deux tiges rampantes ascendantes, folioles terminales et latérales avec petit lobe rond externe à la base. [TEX; 11-VIII-2008].

Phaseolus carteri Freytag & Debouck

University of Michigan – Herbarium [cachet en relief]. /// Feb 26 1969. /// University of Michigan Herbarium [code barre] 1210182. /// Tracy Herbarium, Texas A & M University, Plants of Mexico. *Phaseolus acutifolius* A Gray var. *latifolius* A Gray. Level sandy terrain with saguaro type cacti and many kinds of low trees; altitude 700 feet [210 m]; 3 miles southwest of San Pedro on La Paz – Todos Santos road. [23°52'N. 110°15'W]. **Baja California Sur. Frank W Gould 12181**. 14 October 1966. /// The University of Texas Herbarium. *Phaseolus acutifolius* A. Gray, Alfonso Delgado S., 1983. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. HOLOTYPE. *Phaseolus carteri* Freytag & Debouck, sp. nov. (ined.), det. George F Freytag, Jun 20 1988. /// DGD: *carteri*, une plante entière avec racine fibreuse herbacée pivotante, 4 racèmes à 3 insertions, en j go en transition à go vertes, go vertes [avec 7 ovules par go], folioles mal pressées avec esquisse de lobe basal externe 45 mm long 40 mm large, tige volubile, go rappelle celle de *filiformis* mais moins arquée et 1-2 ovules en plus, B1 triangulaire 2 mm long 1-nerved ciliée, bractéole ¾ longueur du calice triangulaire 1-nerved glabrescente 2 mm long; c'est l'**holotype**. [MICH; 19-IX-2007].

Mexico

Baja California Sur

Herbario Nacional Colombiano 520819 [cachet à l'encre violette]. /// Herbario Nacional Colombiano [code barre] COL000254210. /// Herbario. NC *Phaseolus carteri* Freytag & Debouck, det. D.G. Debouck, 3 Aug. 2007. Loc: Mexico, **Baja California Sur**, La Paz, 12 km S de La Paz, cerca de San Pedro. Long. 110° 18'W. Lat. 24° 01'N. Alt. [blanc]. Fecha col: [blanc]. Observ: [blanc]. Col. **José Luís León de la Luz 3751**. Se colectaron semillas bajo el No. 3751. /// DGD: *carteri*, 4 racèmes, en floraison, j go, go vertes, go sèches, graines, une plantule complète avec longues 5 cm x 1 cm éophylles pétiolées et 1^{ère} vraie feuille avec folioles profondément lobées. [COL; 19-II-2009].

CS77511. /// Mexico and Guatemala, USDA Plant Explorations, Tropical Agriculture Research Station/ARS, USDA, and the University of Puerto Rico, Mayagüez, PR, in collaboration with INIA/SARH, Mexico and ICTA, Guatemala. Grown in screenhouse at Fort Collins, Co. from seed of TARS # 535 (collected near San Pedro, 12 km S de La Paz, **Baja California**, México, by **José Luís León de la Luz 3751**), on 30 May 1991 as Study Collection, Freytag GF # SC-535 (US, MO, CSU, WIS, ARIZ, F, TEX, UC, GH, MICH, KEW, UC-R, IBUG, UNAM, FIA), identified by GF Freytag as *Phaseolus carteri* Freytag & Debouck. /// DGD: *carteri*, 6 racèmes, en floraison, j go, j go en transition à go vertes, go verte, lobes aux folioles latérales un peu 'squarish' de part et d'autre de la foliole, pas de plantule !. [CS; 18-VIII-2008].

Plantas Mexicanas. *Phaseolus carteri* Freytag & Debouck, det. D.G. Debouck, 18 Julio 2012. México, **Baja California Sur**, Municipio de La Paz, 12 km al sur de La paz, cerca de San Pedro. [Lat. 23° 49'N. Long. 110° 16'W]. **José Luís León del la Luz 3751**. Fecha de colecta no comunicada. /// Grown at CIAT facilities

[cachet à l'encre bleue]. /// DGD: *carteri*, plus de 12 racèmes, en floraison, jgo, go vertes, go sèches, graines, une plantule avec épiphylls étroites acuminées à base tronquée et première feuille trifoliolée et folioles latérales avec lobe basal externe; rangé dans les grands formats, carton sans le cachet de Kew. [K; 2-III-2018].

MO4924914, Mexico and Guatemala, USDA Plant Explorations, Tropical Agriculture Research Station, ARS, USDA, and the University of Puerto Rico, Mayagüez, PR, in collaboration with INIA/SARH, Mexico and ICTA, Guatemala. *Phaseolus carteri* Freytag & Debouck. Grown in USDA greenhouse at Fort Collins CO, from seed of TARS # 535 (collected near San Pedro, 12 km S de La Paz, [110°18'W. 24°01'N], [Baja California](#), México, by [José Luís León de la Luz 3751](#)), on May 1991 as Study Collection, Freytag GF # SC-535 (CSU, WIS, US, MO, ARIZ, F, TEX, UC, GH, MICH, K, UC-R). /// DGD: *carteri*, 4 racèmes, go sèches, graines, 2 fleurs, scrappy! [MO; 29-V-2002].

UCR102492. /// Mexico and Guatemala [barré]. USDA Plant Explorations. Tropical Agriculture Research Station, ARS, USDA, and the University of Puerto Rico, Mayagüez, PR, in collaboration with INIA/SARH, Mexico and ICTA, Guatemala. *Phaseolus carteri* Freytag & Debouck. Grown in USDA greenhouse at Fort Collins, CO. from sed of TARS#535 (collected near San Pedro, 12 km S de La Paz, [Baja California](#), México, by [José Luís León de la Luz 3751](#)), on 30 May 1991 as Study Collection. Freytag, G.F. #SC-535. (CSU, WIS, US, MO, ARIZ, F, TEX, UC, GH, MICH, KEW, UC-R). /// Specimen entered into UCR database. /// DGD: *carteri*, spécimen pauvre, 2 racèmes, dont un arraché, en floraison, go sèches. [UCR; 19-VIII-2014].

UC137617. Flora of [Lower California](#) [sur]. 159. *Phaseolus*. Miraflores. [109°47'W. 23°22'N]. [TS Brandege](#) [s.n.]. Oct. 14, 1890 [14 octobre 1890]. /// Annotation label. *Phaseolus* (ς *Euphaseolus*-*Parviformes*) *minimiflorus* Norvell, ined.. An epigeous germinating, fibrous rooted species, det. Oliver W Norvell 12-5-1950 [5 December 1950]. This specimen has large flowers and possibly longer pods than the specimens from Sinaloa and Colima. Therefore it is more advanced (mutated) than the latter, and is beginning the evolutionary sequence of other species of *Phaseolus*. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus carteri* Freytag & León (ined.), det. GF Freytag, Dec 29 1989. /// DGD: *carteri*, 6 racèmes, en floraison, jgo, go vertes, une go sèche, les graines quoique n'ayant pas atteint un complet développement sont celles de '*Rugosi*'; certaines folioles annoncent une lobation; 'poorly pressed'! [UC; 23-X-2003].

Phaseolus filiformis Benth

Phaseolus filiformis Benth. Bot. Sulph. p. 13. Bay of Magdalena. [24°41'N. 111°50'W]. Lower California. [\[Baja California Sur\]](#). [Hinds](#) [s.n.]. 1845. /// Herbarium Benthonianum 1854 [cachet]. /// Type of *Phaseolus filiformis* Benth. Ex num cit. Maréchal (1978). Hinds s.n. (1845). /// Type specimen. Herb. Kew. /// New York Botanical Garden. Neg. No. NS 2504 (11953). /// DGD: *filiformis*, en floraison, jgo, go vertes, go sèches, 10 racèmes, une plante avec base de la tige herbacée; **type** !. [K; 6-VIII-1985].

Phaseolus filiformis. Bay of Magdalena. [24°41'N. 111°50'W]. Lower California. [\[Baja California Sur\]](#). [Hinds](#) [s.n.]. /// Herbarium Hookerianum 1867 [cachet]. /// Type of *Phaseolus filiformis* Benth. Ex num cit. Maréchal (1978). Hinds s.n. (1845). /// DGD: *filiformis*, en floraison, jgo, 6 racèmes, une plante avec base de la tige herbacée; spécimen complémentaire du **type** ?!. [K; 8-III-2005].

Phaseolus filiformis sp. n. [sic!]. Bay of Magdalena. [24°41'N. 111°50'W]. Lower California. [\[Baja California Sur\]](#). /// Barclay [écrit à l'encre noire sur la planche]. /// Herbarium Hookerianum 1867 [cachet]. /// Type of *Phaseolus filiformis* Benth. Ex num cit. Maréchal (1978). Hinds s.n. (1845). /// DGD: *filiformis*, en floraison, jgo, go vertes, 12 racèmes; spécimen complémentaire du **type** ?!. [K; 8-III-2005].

Gray Herbarium Harvard University [cachet à l'encre rouge]. /// 24141. Flora of Mexico. Flora of Lower California. *Phaseolus atropurpureus*. Todos Santos. [23°26'N. 110°14'W]. [Baja California Sur]. Feb. 18, 1928 [18 février 1928]. Collected by Marcus E. Jones, A.M. /// ex Herb. Arnold Arboretum Harvard University [cachet à l'encre verte]. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. ISOTYPE. *Phaseolus sanctorum* Jones. Contr. W. Bot. 15:140. 1929., det. George F Freytag, Jun 12 1987. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F Freytag, Jun 12 1987. /// The Harvard University Herbaria code barre 00064104. /// DGD: *filiformis*, 3 plantes à racines fibreuses herbacées pivotantes, ramifications à la base en rosette, plus de 4 racèmes par plante, en floraison, jgo, go vertes, go sèches, graines, folioles petites non lobées 12 mm long 14 mm large. [GH; 25-VII-2006].

Gray Herbarium Harvard University [cachet à l'encre noire]. /// No. 108. *Phaseolus wrightii* n. sp. Collected in Expedition from Western Texas to El Paso, New Mexico, May – October, 1849, by Charles Wright. /// TYPE [cachet à l'encre noire]. /// Annotation label. *Phaseolus filiformis* Benth., determined by Oliver W Norvell, Nov. 1949. /// Lecto type of: *Phaseolus wrightii* A. Gray, Pl. Wright. 1: 43. 1852. = *Phaseolus filiformis* Benth. Alfonso Delgado S., 1985. [dans un encadrement noir]. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. HOLOTYPE. *Phaseolus wrightii* A. Gray. Pl. Wright. 1: 43. 1852. det. George F Freytag, Jun 12 1987. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. = *Phaseolus filiformis* Benth., det. George F Freytag, Jun 12 1987. /// The Harvard University Herbaria barre code 00064081. /// DGD: *filiformis*, 4 racèmes, en j go, go vertes. [GH; 24-VII-2006].

Gray Herbarium Harvard University [cachet à l'encre noire]. /// No. 108. *Phaseolus wrightii* Gr. Collected in Expedition from Western Texas to El Paso, New Mexico, May – October, 1849, by Charles Wright. /// Herb. John A. Lowell. /// Transferred from the Boston Society of Natural History to the Gray Herbarium of Harvard University, October 2, 1941. /// Annotation label. *Phaseolus filiformis* Benth., determined by Oliver W Norvell, Nov. 1949. /// Type of : Isolectotype of: *Phaseolus wrightii* A. Gray, Pl. Wright. 1: 43. 1852. = *Phaseolus filiformis* Benth. Alfonso Delgado S., 1985. [dans un encadrement noir]. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. ISOTYPE. *Phaseolus wrightii* A. Gray. Pl. Wright. 1: 43. 1852. det. George F Freytag, Jun 12 1987. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. = *Phaseolus filiformis* Benth., det. George F Freytag, Jun 12 1987. /// The Harvard University Herbaria barre code 00064082. /// DGD: *filiformis*, une plante avec racine fibreuse pivotante et ramification basale en rosette, 7 racèmes, un seul bouton floral, en j go, go vertes, go sèches. [GH; 24-VII-2006].

CAS173053. /// Flora of Mexico. 24141. Flora of Lower California [Baja California Sur]. *Phaseolus atropurpureus*. Todos Santos, Jan 31, 1923. Collected by Marcus E Jones, A.M. /// Type collection of *P. sanctorum* Jones [écrit au crayon noir directement sur la planche]. /// Annotation label. *Phaseolus filiformis* Benth. When grown in culture the thicken leaves and thicken more pubescent petioles were found to be like *filiformis*. (Isotype of *Phas. sanctorum* Jones). Determined by Oliver W. Norvell 1-30-1951 [écrit à l'encre noire par Norvell lui-même]. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. = *Phaseolus filiformis* Benth. Det. George F. Freytag, Mar 14 1989. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. ISOTYPE. *Phaseolus sanctorum* Jones. Contr. West. Bot. 15: 140. 1929. Det. George F. Freytag, Mar 14 1989. /// DGD: *filiformis*, 5 racèmes, en floraison, go sèches, graines, folioles peu lobées; classé dans les types. [CAS; 26-IX-2008].

MO969108. Flora of Mexico. 24141. Flora of Lower California. [Baja California Sur]. *Phaseolus atropurpureus*. Todos Santos [23°26'N. 110°14'W]. Feb 18 1928 [18 février 1928]. Collected by Marcus E Jones AM. /// isotype of *Phaseolus sanctorum* ME Jones, Contr W Bot. 15: 140 (1929). = *Phaseolus filiformis* Benth., Alfonso Delgado S., 1985. /// TARS, ARS-USDA, Mayagüez, Puerto Rico 00708. isotype: *Phaseolus sanctorum* ME Jones, Contr W Bot. 15: 140 (1929). = *Phaseolus filiformis* Benth., det.

George F. Freytag, Jul 1 1986. /// DGD: *filiformis*, en floraison, jgo, go vertes, go sèches; 3 gousses ont 6 graines/ go; 9 racèmes. [MO; 7-VI-2002].

Herbarium of Pomona College. 190810. /// Flora of Mexico. 24141. Flora of Lower California. [Baja California Sur]. *Phaseolus sanctorum* Jones. Type. Todos Santos. [23°26'N. 110°14'W]. Feb. 19, 1928. Collected by Marcus E Jones, A.M. /// Type. OK C V Morton 1942 [écrit à l'encre noire sur la planche]. /// Holotype of: *Phaseolus sanctorum* M.E. Jones, Contr. W. Bot. 15: 140. 1929. = *Phaseolus filiformis* Benth. Alfonso Delgado Salinas 1985. [étiquette à bords rouges]. /// Specimen data captured in type database at RSA/POM in 1990. /// Rancho Santa Ana Botanic Garden. Code barre. RSA 0003604. /// DGD: *filiformis*, 7 racèmes, en floraison, go vertes, go sèches, graines, plante plus vigoureuse qu' un *filiformis* 'normal'; c'est l' **holotype**. [POM; 5-XI-2010].

DGD, 25/VIII/1994: *Phaseolus wrightii*: looks quite as a *filiformis* material, even the seed looks quite as the one of *filiformis*. [US; 25/VIII/1994].

No. 111. *Phaseolus wrightii* A Gray. Pl. Wright. 43. Collected in Expedition from western Texas to El Paso, New Mexico, May-October 1849, by Charles Wright. /// Herbarium Benthamianum 1854 [cachet]. /// Royal Botanic Gardens. H922/76 4 Kew [cachet à l'encre verte]. /// Type of *Phaseolus wrightii* A Gray. ex num cit. Maréchal (1978). C. Wright 111. /// DGD: une plante avec racine fibreuse pivotante, 8 racèmes, en floraison, jgo, go vertes et gousses à maturité, ressemble à *P. filiformis* (par la lobulation des folioles, la forme de la gousse, pas de racine tubérisée); dans une farde à bord rouge indiquée "**TYPE**"; c'est un **isotype**. [K; 5-VIII-1985].

US668792. /// United States National Museum. /// Flora of Lower California. *Phaseolus filiformis* Benth.. Arroyo Hondo. TS Brandegee. Oct. 22, 1893. /// United States National Herbarium. *Phaseolus filiformis* Benth., det. James Lackey, Jan 1980. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 24 Sep 1984. /// DGD: *carteri*, 8 racèmes, en floraison, jgo, go vertes à 7 ovules/graines, go sèches, tiges grêles volubiles, folioles avec lobe anguleux pointé; pas de numéro de collecte; **erreur dans le livre**. [US; 2-IX-2009].

US1896069. /// United States National Museum. /// 78. California Academy of Sciences. Flora of Baja California. *Phaseolus filiformis* Benth. In low shrubs along dry, shallow, sandy arroyo, about 3 mi inland, 29 mi north of Mesquital. Flowers pink. Betty J Hammerly. Sept. 27, 1941 [27 septembre 1941]. /// United States National Herbarium. *Phaseolus filiformis* Benth., det. James Lackey, Jan 1980. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 14 Aug 1984. /// DGD: *filiformis*, 4 racèmes, en floraison, jgo, go sèche. [US; 1-IX-2009].

Mexico

Baja California Norte

ASU201625. /// Specimen entered in ASU Database. /// ASU Vascular Plant Herbarium. Specimen Image Number, puis code barre ASU0024507. /// Fabaceae of Mexico. Baja California [Norte]. *Phaseolus filiformis* Benth. 30° 17'30"N; 114° 39'W; along highway Mex 5; on the gulf coast; 3.7 miles south of Puertocitos, Sierra Santo [sic!] Isabel; dry gravelly wash with *Atriplex hymenosepalus*, *Acacia greggii*, *Larrea*, *Mirabilis*, *Gilia palmeri* and *Eschscholzia mexicana*. Prostrate vine; flowers pale red-purple. 26 February 1992 [26 février 1992]. Marc A Baker 8664 & Bob Johnson. /// DGD: *filiformis*, 4 racèmes, en floraison, jgo. [ASU; 24-IX-2015].

Arizona State University (ASU). Code barre. 260941. Vascular Plant Herbarium. /// Specimen entered in ASU Database. /// ASU Vascular Plant Herbarium. Specimen Image Number, puis code barre ASU0024522. /// Fabaceae of Mexico. State of Baja California. *Phaseolus filiformis* Benth. Venustiano Carranza 1 :50,000 topographic map ; 11R 05 93 780mE 33 71 240mN, 40 m elevation, south base of cinder cone, 8 km SW of Lázaro Cárdenas ; coastal scrub with *Ambrosia dumosa*, *Atriplex julacea*, *Encelia farinosa*, *Euphorbia misera*, *Sonchus oleraceus*. Trailing annual; flowers pink. Marc Baker 14009. 24 April 2001 [24 avril 2001].

/// DGD: *filiformis*, 7 racèmes, en floraison, jgo, go vertes, go sèches, une plante entière avec racine fibreuse pivotante. [ASU; 25-IX-2015].

UC82395. Flora of Lower California. *Phaseolus filiformis* Benth.. [Mexico, Baja California Norte]. San Benito Is. [28°18'N. 115°36'W]. TS Brandegee. March 28, 1897. [pas de numéro de collecte !]. /// *Phaseolus filiformis* Benth., det. GF Freytag, 22 Mar 1985. /// DGD: *filiformis*, 3 plantes, en floraison, jgo, go vertes, go sèches, 13 racèmes. [UC; 23-X-2003].

Plants of Baja California, Mexico, Distrito del Norte. *Phaseolus filiformis* Benth., det. OW Norvell, 1951. Vine trailing over ground; flowers pink. Small arroyo; *Larrea* and *Prosopis* association; southern edge of Llano de Buenos Aires. 11 km southeast of San Augustin [sic!] on road to Cataviña. [29°50'N. 114°48'W]. Annetta Carter 1875, Annie M Alexander, Louise Kellog. November 7, 1947. Herbarium of the University of California. /// DGD: *filiformis*, 4 racèmes, en floraison, go sèches, plante en rosette avec racine pivotante herbacée. [BM; 9-VIII-1985].

UC1348050. Plants of Baja California, Mexico, Distrito del Norte. *Phaseolus filiformis* Benth., det. OW Norvell, 1951. Vine trailing over ground; flowers pink. Small arroyo; *Larrea* and *Prosopis* association; southern edge of Llano de Buenos Aires. 11 km southeast of San Augustin [sic!] on road to Cataviña. [29°50'N. 114°48'W]. Annetta Carter 1875, Annie M Alexander, Louise Kellog. November 7, 1947 [7 novembre 1947]. Herbarium of the University of California. /// DGD: *filiformis*, une plante en forte rosette, 12 racèmes, en floraison, jgo, go vertes. [UC; 24-X-2003].

US2539866. Plants of Baja California, Mexico. Distrito del Norte. *Phaseolus filiformis* Benth., det. O.W. Norvell, 1951. Vine trailing over ground, flowers pink. Small arroyo, *Larrea* and *Prosopis* association; southern edge of Llano de Buenos Aires, 11 km southeast of San Augustin on road to Cataviña. [29°50'N. 114°48'W]. Annetta Carter 1875, Annie M Alexander, Louise Kellog. November 7, 1947. Herbarium of the University of California. /// United States National Herbarium. *Phaseolus filiformis* Benth., det. James Lackey, Jan 1980. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 17 Aug 1984. /// DGD: *filiformis*, 3+3 racèmes, en floraison, jgo, go verte, go sèches, deux plantes entières avec racine herbacée pivotante et rosette de tiges grêles, hétérophylie. [US; 2-IX-2009].

UC23862. Dudley Herbarium, Stanford University. Plants of Baja California [Norte], Mexico. *Phaseolus filiformis* Benth.. Canyon del Diablo, to the north and west of Picacho del Diablo, Cerro La Encantada, eastern flank of Sierra San Pedro Martir. Approxim. Lat. 31°5'N Long. 115°23'W. In sand near the stream 0.5 mi up canyon from its mouth. Kenton L Chambers 529. 13 June 1954. /// *Phaseolus filiformis* Benth., det. GF Freytag, 22 Mar 1985. /// DGD: *filiformis*, 1 plante avec racine fibreuse pivotante, 1 racème, 1 jgo, 'scrappy'. [UC; 24-X-2003].

UCR41028. /// Herbarium of the University of California, Riverside. Plants of Baja California Norte, Mexico. *Phaseolus filiformis* Benth., det. by A.C. Sanders, Nov. 1985. Cañon Carrizo, east side of Sierra de Juarez, the next major canyon N of C. de Guadalupe. [32° 16'N, 115° 52'W]. Vicinity of major southward bend in the canyon, a couple of miles above its mouth. Hillsides with *Encelia farinosa*, *Opuntia* & *Ferocactus*; canyon floor with *Prosopis*, *Washingtonia*, and *Phragmites*. A locally common pink-flowered vine. Date 30 Mar. 1985 [30 mars 1985]. Alt. ± 1000 ft. [305 m]. Coll. T Dallman & M Guzy. No. 22. /// Specimen data entered into UCR database. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F Freytag, Apr 6 1992. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 6 racèmes, en floraison, jgo, spécimen touffu. [UCR; 19-VIII-2014]

Plants of Mexico, Baja California [Norte]. *Phaseolus filiformis* Benth.. Habitat sandy soil. loc. So of Santa Catarina Landing. [29°43'N. 115°08'W]. April 16, 1949. Trailing vine, fls rose. Collected by Robert L

Dressler no. 600. Determined by HS Gentry. /// DGD: *filiformis*, 6 racèmes, jgo- govertes. [BRIT; 25-II-2002].

MO1718005. Plants of Mexico. Baja California. *Phaseolus filiformis* Benth.. Habitat: sandy soil. [Mexico, Baja California Norte]. Loc: SO of Santa Catarina Landing. [29°43'N. 115°08'W]. April 16 1949 [16 avril 1949]. Trailing vine, fls rose. Coll. Robert L Dressler no. 600, det. HS Gentry. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1985. /// TARS, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Jun 23 1986. /// DGD: *filiformis*, 1 plante, 8 racèmes, en floraison, go vertes, go sèches, 4 gr/ go. [MO; 7-VI-2002].

F2047891. Rancho Santa Ana Botanic Garden. Plants of Mexico: Baja California Norte. Fabaceae. *Phaseolus filiformis* [sic!] Benth.. vining perennial, flowers purple. 7 kilometers north of Guerrero Negro, along Route 1, 5 miles of La Pinta Hotel. [28°05'N. 114°00'W]. Desert with sandy and rocky soils. TS Elias 10855, D Arias & O Dorado. June 27, 1988 [27 juin 1988]. /// DGD: *filiformis*, folioles petites à lobes très prononcés, 9 racèmes, en floraison, jgo, go vertes. [F; 31-VII-2004].

UCR59333. /// Rancho Santa Ana Botanic Garden. Plants of Mexico: Baja California Norte. Fabaceae. *Phaseolus filiformis* [sic!] Benth.. Vining perennial, flowers purple. 7 kilometers north of Guerrero Negro, along Route 1, 5 miles of La Pinta Hotel. Desert with sandy and rocky soils. TS Elias 10855, D Arias & O Dorado. June 27, 1988. /// Specimen data entered into UCR database. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F Freytag, Apr 6 1992. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, une plante en rosette avec racine pivotante herbacée, 7 racèmes, en floraison, jgo, go verte, go sèches. [UCR; 19-VIII-2014].

F1279915. Hancock Pacific Expedition of 1939. Plants of Mexico. Baja California [norte] Region. *Phaseolus filiformis* Benth.. determined by HSG [Howard Scott Gentry; écrit à l'encre]. Isla Cedros. [28°03'N. 115°14'W]. March 14. Collected by Francis H Elmore no. A2. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Jan 12, 1987. /// DGD: *filiformis*, en floraison, 9 racèmes, jgo, go vertes, go sèches. [F; 31-VII-2004].

US1945310. /// United States National Museum. /// Hancock Pacific Expedition of 1939. Plants of Mexico. Baja California [Norte] Region. *Phaseolus filiformis* Benth., det. by HSG [Howard Scott Gentry]. Isla Cedros. [28°03'N. 115°14'W]. March 14 [14 mars 1939]. Collected by Francis H Elmore. No. A2. /// United States National Herbarium. *Phaseolus filiformis* Benth., det. James Lackey, Jan 1980. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 14 Aug 1984. /// DGD: *filiformis*, 5 racèmes, en floraison, jgo, jgo en transition à go vertes, go vertes, plante en rosette avec tiges grêles volubiles et racine pivotante herbacée, hétérophylie marquée. [US; 1-IX-2009].

UC580006. Plants of Lower California. *Phaseolus filiformis* Benth.. [Mexico, Baja California Norte], 2 miles E of Pozo Alemán near Calamallí Purísima. [28°03'N. 113°20'W]. C Epling, Wm Robison [s.n.]. Feb. 5, 1935 [5 février 1935]. University of California at Los Angeles. /// *Phaseolus filiformis* Benth., det. GF Freytag, 22 Mar 1985. /// DGD: *filiformis*, 5 racèmes, en floraison, jgo, go vertes. [UC; 24-X-2003].

F949798. Plants of Lower California. [Baja California Norte]. San Quintín. [30°34'N. 115°57'W]. *Phaseolus filiformis* Benth.. in cinders and pumice. Carl Epling, Wm Stewart. April 7, 1936. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Jan 12, 1987. /// DGD: *filiformis*, en floraison, 6 racèmes, 1 plante en rosette avec racine fibreuse; apparemment sans no. de collecte. [F; 31-VII-2004].

UC604953. Plants of Lower California. [Baja California Norte]. San Quintín. [30°34'N. 115°57'W]. *Phaseolus filiformis* Benth.. in cinders and pumice. Carl Epling, Wm Stewart. April 7, 1936. [pas de numéro

de collecte !]. /// *Phaseolus filiformis* Benth., det. GF Freytag, 20 Mar 1985. /// DGD: *filiformis*, 1 plante en rosette avec racine pivotante, 4 racèmes, en floraison, jgo, go verte. [UC; 24-X-2003].

US1739612. /// United States National Museum. /// Plants of Lower California. [Baja California Norte]. San Quintin. [30°34'N. 115°57'W]. *Phaseolus filiformis* Benth.. In cinders and pumice. Carl Epling, WM Stewart. April 7, 1936 [7 avril 1936]. /// United States National Herbarium. *Phaseolus filiformis* Benth., det. James Lackey, Jan 1980. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 17 Aug 1984. /// DGD: *filiformis*, 4 racèmes, en floraison, jgo, une plante entière avec racine herbacée pivotante et rosette de tiges grêles, début d'hétérophylie; pas de numéro de collecte. [US; 2-IX-2009].

UC1563744. Plants of Baja California [Norte]. *Phaseolus filiformis* Benth.. Mesa Cuerno de Borrego, ca 8 mi N of El Desengano, N of road to Bahía de Los Angeles at S end Sierra La Asamblea. [29°15'N. 114°03'W]. Cirio/ cardon/ elephant tree zone on granite; side canyon on W side of Mesa. Uncommon, flowers lavender. Barbara Ertter 8062 with Walter Appleby. 14 Jan 1989. University of California at Berkeley. /// DGD: *filiformis*, 4 racèmes, en jgo, go vertes, quelques folioles latérales ont une lobation comme chez *purpusii* ! [UC; 24-X-2003].

UCR86605. /// Rancho Santa Ana Botanic Garden. Plants of Baja California [Norte], Mexico. Fabaceae. *Phaseolus filiformis* Benth. Bahia de Los Angeles, south shore. Along inner road W of La Mona, near yard of house on N side of road. [28° 52'30"N, 113° 28'45"W]. Sandy soil. Occasional vine with light purple corolla. Bean. Peter Fritsch 1299, Lisa K Fritsch, Annie Henderson. 13 March 1992 [13 mars 1992]. /// Specimen data entered into UCR database. /// DGD: *filiformis*, 8 racèmes, en floraison, jgo, go vertes; 'mixed specimen' avec une autre légumineuse. [UCR; 19-VIII-2014].

Plants of Baja California. [Baja California Norte]. Collection of Howard Scott Gentry, determined by HSG. *Phaseolus filiformis* Benth. No. 4009. Loc: San Agustín [sic!]. [29°55'N. 114°58'W]. Nov 12, 1938 [12 novembre 1938]. Habitat: moist gravelly soil in arroyo. Vernacular: low herbaceous ground vine, sometimes forming low matted mounts in colonies. /// DGD: *filiformis*, en floraison. [ARIZ; 15-II-1979].

Plants of Baja California [Norte]. Collection of Howard Scott Gentry, determined by HSG. *Phaseolus filiformis* Benth. No. 4009. Loc: San Agustín [sic!]. [29°55'N. 114°58'W]. November 12, 1938. Hab: moist gravelly soil in arroyo. Vernacular: low herbaceous ground vine, sometimes forming low matted mounds in colonies. /// *Phaseolus filiformis* Benth. Ex num cit. Maréchal (1978). /// DGD: *filiformis*, en floraison, 4 racèmes. [K; 6-VIII-1985].

MO1159273. Plants of Baja California [Norte]. Collection of Howard Scott Gentry, determined by HSG. *Phaseolus filiformis* Benth. No. 4009. Loc: San Agustín. [29°55'N. 114°58'W]. Nov 12, 1938. Habitat: moist gravelly soil in arroyo. Vernacular: low herbaceous ground vine, sometimes forming low matted mounts in colonies. /// The University of Texas Herbarium, Systematic Revision of *Phaseolus*. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1985. /// TARS, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Jun 23 1986. /// DGD: *filiformis*, 2 plantes, 3+2 racèmes, en floraison, jgo. [MO; 7-VI-2002].

UC709184. Plants of Baja California [Norte]. Collection of Howard Scott Gentry, determined by HSG. *Phaseolus filiformis* Benth.. no. 4009. Loc. San Agustín [sic!]. [29°55'N. 114°58'W]. Nov. 12, 1938. Habitat: moist gravelly soil in arroyo. Vernacular: low herbaceous ground vine; sometimes forming low matted mounds in colonies. /// *Phaseolus filiformis* Benth., det. GF Freytag, 22 Mar 1985. /// DGD: *filiformis*, 2 plantes avec racine pivotante, développement hétéroblastique, en floraison, jgo, go vertes. [UC; 23-X-2003].

United States National Arboretum. Washington D.C. cachet à l'encre noire, sans numéro. /// Plants of Baja California, Mexico. *Phaseolus filiformis* Benth.. Locality: 5 miles S of Laguna del Gallo, Vizcaino Desert.

[28°07'N. 114°02'W]. [[Baja California Norte](#)]. April 24, 1952. Habitat: on sandy soils, very common, locally. Small annual ground vine with blue-purple fls. collected by [HS Gentry & WB Fox No. 11750](#). /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 29 Aug 1985. /// DGD: *filiformis*, 3 plantes avec racine pivotante herbacée fibreuse, en rosette, plus de 6 racèmes sur chacune, en floraison, j go, go vertes, go sèches. [NA; 21-VII-2006].

UCR7685. /// Fabaceae. Herbarium of the University of California, Riverside. *Phaseolus filiformis* Benth. [Baja California \[Norte\]](#), Mexico. 25.1 mi. S of San Felipe. Elev. 100-200 ft. [30-61 m]. [30° 42'30"N, 114° 44'W]. Creosote scrub. Collected by [H Haid](#) and L Gaston. March 1968 [? mars 1968]. #19915.8-29 [sic!]. Identified by Oscar Clark. /// Specimen data entered into UCR database. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F Freytag, Apr 6 1992. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, une grande plante en rosette avec racine pivotante herbacée, 6 racèmes, en floraison, go vertes, go sèches; pas de jour de collecte. [UCR; 19-VIII-2014].

Herbarium of the University of California. Cedros Island, Mexico. [[Baja California Norte](#)]. [28°04'N. 115°13'W]. *Phaseolus filiformis* Benth.. Coarse gravelly soil. One mile west of the village. Altitude 300 feet [90 m]. [AL Haines & George Hale](#). 11 February 1939. /// DGD: *filiformis*, en go sèches. [ARIZ; 15-II-1979].

Herbarium of the University of California. Cedros Island, Mexico. [[Baja California Norte](#)]. *Phaseolus filiformis* Benth. Arroyo southwest of village 0.5 mile. [28°04'N. 115°13'W]. Altitude 150 feet [45 m]. [AL Haines, George Hale](#). 14 March 1939. /// DGD: *filiformis*, 6 racèmes, en floraison, j go, go vertes, tige ascendante volubile dans partie terminale. [BM; 18-XII-2006].

US2130835. /// United States National Museum. /// Herbarium of the University of California. [[Baja California Norte](#)]. Cedros Island, Mexico. *Phaseolus filiformis* Benth.. Arroyo. Southwest of village 0.5 mile. [28°04'N. 115°13'W]. Altitude 150 feet [45 m]. [AL Haines, George Hale](#). 14 March 1939 [14 mars 1939]. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 14 Aug 1984. /// DGD: *filiformis*, 10 racèmes, en floraison, jgo, go vertes, une plante en rosette avec tiges grêles et racine herbacée pivotante; pas de numéro de collecte. [US; 1-IX-2009].

Herbarium of the University of California. Cedros Island, [[Baja California Norte](#)], Mexico. *Phaseolus filiformis* Benth.. Coarse gravelly soil. One mile west of the village. [28°04'N. 115°13'W]. Altitude 300 feet [90 m]. [AL Haines & George Hale](#). 11 February 1939. /// Herb. Horti Bot. Nat. Belg. (BR) BR-SP 802330 [code barre]. /// Loan from BR to TAA 449518 Sheet n°. 3. /// DGD: *filiformis*, 2 plantes avec racine fibreuse herbacée pivotante et un fragment, en floraison, jgo, go vertes, 3+2+5 racèmes. [BR; 29-VI-2005].

ISC211505 /// Herbarium of the University of California. Cedros Island, [[Baja California Norte](#)], Mexico. *Phaseolus filiformis* Benth.. Coarse gravelly soil. One mile west of the village. [28°04'N. 115°13'W]. Altitude 300 feet [90 m]. [AL Haines & George Hale](#). 11 February 1939 [11 février 1939]. /// DGD: *filiformis*, deux petites plantes en rosette avec racine fibreuse herbacée pivotante, 6 + 4 racèmes, en floraison, jgo, jgo en transition à go vertes, go vertes, go sèche, forte hétérophylie. [ISC; 20-IV-2010].

Herbarium of the University of California. Cedros Island, [[Baja California Norte](#)], Mexico. *Phaseolus filiformis* Benth.. arroyo, southwest of village 0.5 mile, altitude 150 feet [45 m]. [28°04'N. 115°13'W]. [AL Haines & George Hale \[s.n.\]](#). 14 March 1939. /// DGD: *filiformis*, plus de 12 racèmes, fleurs, go sèches. [BRIT; 25-II-2002].

IA89715 /// Herbarium of the University of California. Cedros Island, [[Baja California Norte](#)], Mexico. *Phaseolus filiformis* Benth.. Arroyo. Southwest of village 0.5 mile. [28°04'N. 115°13'W]. Altitude 150 feet. [A L Haines, George Hale](#). 14 March 1939. /// Poisoned [cachet à l'encre rouge]. /// DGD: *filiformis*, une

plante entière avec racine herbacée fibreuse, tiges très grêles volubiles dans parties terminales, 6 racèmes, en floraison, jgo, go vertes. [IA; 20-IV-2010].

ISC211503 /// Herbarium of the University of California. Cedros Island, [Baja California Norte], Mexico. *Phaseolus filiformis* Benth.. Arroyo. Southwest of village 0.5 mile. [28°04'N. 115°13'W]. Altitude 150 feet [45 m]. AL Haines, George Hale. 14 March 1939 [14 mars 1939]. /// DGD: *filiformis*, une plante en rosette avec racine fibreuse herbacée pivotante, 10 racèmes, en floraison, jgo, go verte, forte hétérophylie. [ISC; 20-IV-2010].

Herbarium of the University of California. Cedros Island, [Baja California Norte], Mexico. *Phaseolus filiformis* Benth. Arroyo. southwest of village 0.5 mile. Altitude 150 feet [45 m]. [28°04'N. 115°13'W]. AL Haines & George Hale [s.n.]. 14 March 1939. /// *Phaseolus filiformis* Benth. Ex num cit. Maréchal (1978). /// DGD: *filiformis*, en floraison, jgo, go vertes, go sèches, 12 racèmes. [K; 6-VIII-1985].

Lundell Herbarium. /// Herbarium of the University of California. Cedros Island, [Baja California Norte], Mexico. *Phaseolus filiformis* Benth. Arroyo. Southwest of village 0.5 mile. [28°04'N. 115°13'W]. Altitude 150 feet [45 m]. AL Haines, George Hale. 14 March 1939. /// Treated in 1968 with lauryl pentachlorophenate ! /// The University of Texas Herbarium, Systematic Revision of *Phaseolus*. *Phaseolus filiformis* Benth., Alfonso Delgado S. 1985. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, May 25 1988. /// code barre University of Texas – Austin (LL, TEX) 00273140. /// DGD: *filiformis*, plus de 10 racèmes, en floraison, j go, j go en transition à go vertes, go vertes, go sèche, folioles profondément lobées. [x 2]. [LL; 15-VIII-2008].

MEXU57673. Cedros Island, [Baja California Norte], Mexico. *Phaseolus filiformis* Benth. 2 km west of village. [28°04'N. 115°13'W]. AL Haines & George Hale [s.n.]. 11 February 1939. /// DGD: *filiformis*, en floraison, en go vertes. [MEXU; VII-1978].

MO5431890. Herbarium of the University of California. Cedros Island, [Baja California Norte], Mexico. *Phaseolus filiformis* Benth.. Coarse gravelly soil. One mile west of the village. Altitude 300 feet [90 m]. [28°04'N. 115°13'W]. AL Haines & George Hale. 11 February 1939 [11 février 1939]. /// DGD: *filiformis*, en floraison, jgo, go sèches; 2 plantes. [MO; 7-VI-2002].

Herbarium of the University of California. Cedros Island, Mexico. *Phaseolus filiformis* Benth. Coarse gravelly soil. One mile west of the village [28°04'N. 115°13'W]. Altitude 300 feet. AL Haines, George Hale [sans numéro]. 11 February 1939. /// University of Pennsylvania Herbarium. [cachet à l'encre noire]. /// DGD: *filiformis*, 2 plantes entières en rosette avec racines fibreuses pivotantes, en floraison, j go, go vertes, 4+6 racèmes. [PH; 11-IX-2007].

US2130836. /// United States National Museum. /// Herbarium of the University of California. Cedros Island, Mexico. [Baja California Norte]. *Phaseolus filiformis* Benth.. Coarse gravelly soil. One mile west of the village. [28°04'N. 115°13'W]. Altitude 300 feet [90 m]. AL Haines, George Hale. 11 February 1939. /// United States National Herbarium. *Phaseolus filiformis* Benth., det. James Lackey, Jan 1980. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 11 Aug 1984. /// DGD: *filiformis*, 8 racèmes, en floraison, jgo, go vertes, une plante en rosette avec tiges grêles et racine herbacée pivotante, hétérophylie; pas de numéro de collecte. [US; 1-IX-2009].

ASU224129. /// Specimen entered in ASU Database. /// ASU Vascular Plant Herbarium. Specimen Image Number, puis code barre ASU0024527. /// Fabaceae of Mexico. Baja California Norte. *Phaseolus filiformis* Benth. Eastern foothills of Sierra San Pedro Martir, west of main dirt road providing access to Canon de Guadalupe, ca. 2.3 miles from El Cajon Ranch, near Canon el Cajon, in vicinity of 30° 49.650' N, 115° 13.646' W, 640 meters. Flats and foothills of Sierra, with *Hyptis*, *Melilotus*, *Mimulus*, *Viguiera*, *Baccharis sarothroides*, *Prosopis glandulosa*, *Phacelia affinis*, *Bursera microphylla*, *Pachycereus pringlei*, *Larrea*,

Selaginella, *Ambrosia carduacea*, *Tessaria*, *Justicia californica*, *Tamarix*, *Acacia*, *Trixis*, *Vitis girdiana*, *Galvezia juncea*. Occasional herbaceous perennial vine, growing in *Typha* ticket by water, flowers pink. 14 March 1995 [14 mars 1995]. Jon Rebman, A Salywon, RP Martínez, G Reinhardt, Wendy Hodgson 8768. Herbarium of the Desert Botanical Garden (DES). /// DGD: *filiformis*, 5 racèmes, en jgo, go vertes, folioles peu lobées. [ASU; 25-IX-2015].

University of Arizona Herbarium. RR Humphrey et al. s.n. *Phaseolus filiformis* Benth., det. Jane A Reese, 1967. Mexico, Baja California N[orte], dune sand, Punta Estrella, 20 miles south of San Felipe. [30°54'N. 114°43'W]. March 4, 1967. /// DGD: *filiformis*, en floraison, go vertes, go sèches, 4 racèmes, plante en rosette. [ENCB; 11-14-VII-1978].

California Academy of Sciences. Expedition to the Gulf of California. San Francisquito Bay, Baja California [Norte]. [28°26'N. 112°52'W]. *Phaseolus filiformis* Benth. Very common in sandy soil. Flowers pink. Coll. Ivan M Johnston 3554. May 10, 1921 [10 mai 1921]. /// *Phaseolus filiformis* Benth. Ex num cit. Maréchal (1978). /// DGD: *filiformis*, en floraison, jgo, go vertes, go sèches, 4+6 racèmes, deux plantes entières avec racine fibreuse pivotante et aspect de rosette. [K; 6-VIII-1985].

US1316406. /// United States National Museum. /// California Academy of Sciences. Expedition to the Gulf of California. San Francisquito Bay, Baja California [Norte]. [28°26'N. 112°52'W]. *Phaseolus filiformis* Benth.. Very common in sandy soil. Flowers pink. Coll. Ivan M Johnston. 3554. May 10, 1921. /// United States National Herbarium. *Phaseolus filiformis* Benth., det. James Lackey, Jan 1980. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 17 Aug 1984. /// DGD: *filiformis*, 2+5 racèmes, en floraison, go vertes, go sèches, deux plantes entières avec racine herbacée pivotante et rosette de tiges grêles volubiles, hétérophylie. [US; 2-IX-2009].

California Academy of Sciences. Expedition to the Gulf of California. [Baja California Norte], Angel de la Guardia [sic!] Island. *Phaseolus filiformis* Benth. Opposite Pond Island. [29°03'N. 113°07'W]. Frequent in matted masses on a silty flat. Coll. Ivan M Johnston 4220. June 30, 1921. /// *Phaseolus filiformis* Benth. Ex num cit. Maréchal (1978). /// DGD: *filiformis*, en go vertes, go sèches, graines, plus de 20 racèmes. [K; 6-VIII-1985].

IM Johnston 4220. *Phaseolus filiformis* Benth.. Mexico, [Baja California Norte], Golfo de California, Angel de La Guardia [sic!]. [29°03'N. 113°07'W]. June 30, 1921 [30 juin 1921]. /// DGD: *filiformis*, en go sèches. [SI; 14-III-1985].

US1316647. /// United States National Museum. /// California Academy of Sciences. Expedition to the Gulf of California. Angel de La Guardia Island. [Baja California Norte]. *Phaseolus filiformis* Benth.. Opposite Pond Island. [29°03'N. 113°07'W]. Frequent in matted masses on a silty flat. Coll. Ivan M Johnston. 4220. June 30, 1921. /// United States National Herbarium. *Phaseolus filiformis* Benth., det. James Lackey, Jan 1980. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 24 Sep 1984. /// DGD: *filiformis*, plus de 12 racèmes, en go vertes, go sèches, graines, tiges grêles volubiles, spécimen touffu. [US; 1-IX-2009].

IW Knobloch 2365. *Phaseolus filiformis* Benth. Mexico, Lower California. [Baja California Norte]. On San Lorenzo Sur, in Gulf of California. [28°38'N. 112°49'W]. June 30, 1969. /// DGD: *filiformis*, en floraison. [MSC; 30-VI-1988].

UCR17423. /// Fabaceae. Herbarium of the University of California, Riverside. *Phaseolus filiformis* Benth. Baja California [Norte], Mexico. Puertecitos. [30° 20'N, 114° 39'50"W]. Sandy soil. Roy Kniffen. 27 Mar 1970 [27 mars 1970]. det. by A.C. Sanders Nov 1979. /// Specimen data entered into UCR database. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F Freytag, Apr 6 1992. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 4 racèmes, en floraison, go sèches; pas de numéro de collecte. [UCR; 19-VIII-2014].

UCR17786. /// Fabaceae. Herbarium of the University of California, Riverside. *Phaseolus filiformis* Benth. [Baja California \[Norte\]](#), Mexico. ± 1 mi NW of San Felipe, elev. 1000 ft [305 m], upper valley drains toward San Felipe. [31° 05'N, 114° 57'30"W]. [Roy Kniffen](#). 5 Dec 1972 [5 décembre 1972]. det. by A.C. Sanders 11/79. /// Specimen data entered into UCR database. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F Freytag, Apr 6 1992. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 3 racèmes, en floraison, jgo, folioles profondément lobées; pas de numéro de collecte. [UCR; 19-VIII-2014].

MO3854782. Plantas de México. [\[Baja California Norte\]](#). Islas del Golfo de California. Herbario Nacional de México (MEXU). Leguminosae. *Phaseolus filiformis* Benth., det. A Delgado, 1985. 4 ejem. Isla San Lorenzo sur. Cañón grande que da al S, lado SW de la isla. [28°38'N. 112°49'W]. Substrato piedra granítica gris palida. Matorral desértico, pendientes con *Pachycereus pringlei*, *Bursera microphylla*, *Jatropha cuneata*, chollas. Trepadora annual en las rocas de la playa, flores lilas, frutos inmaduros verdes. Col. [EJ Lott 2465 & TH Atkinson](#). 6 mayo 1985. /// DGD: *filiformis*, plus de 10 racèmes, en floraison, jgo, go vertes, 4 gr/ go. [MO; 7-VI-2002].

Plantas de México. Islas del Golfo de California. Herbario Nacional de México (MEXU). Leguminosae. *Phaseolus filiformis* Benth., det. A Delgado, 1985. 4 ejemplares. Isla San Lorenzo Sur. Cañón grande que da al S, lado SW de la isla. Substrato piedra granítica gris palida. Matorral desértico. Pendientes c/ *Pachycereus pringlei*, *Bursera microphylla*, *Jatropha cuneata*, chollas. Trepadora annual en las rocas de la playa, flores lilas, frutos inmaduros verdes. Col. [EJ Lott 2465 & TH Atkinson](#). Fecha: 6 mayo 1985. /// DGD: *filiformis*, 6 racèmes, en floraison, go vertes en transition à go sèches, plante en rosette avec racine herbacée pivotante. [NY; 19-II-2014].

F716238. California Academy of Sciences. Expedition to the Revillagigedo Islands, Mexico. [\[Baja California Norte\]](#). Cedros Island. [28°04'N. 115°13'W]. 1988. *Phaseolus filiformis* Benth. Small pink flowers. Coll. [HL Mason](#). June 3, 1925. /// The University of Texas Herbarium, Systematic Revision of *Phaseolus*. *Phaseolus filiformis* Benth., Alfonso Delgado Salinas, 1985. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Jan 12, 1987. /// DGD: *filiformis*, 3 plantes en rosette avec racines fibreuses, en floraison, go vertes. [F; 31-VII-2004].

US1490250. /// United States National Museum. /// California Academy of Sciences. Expedition to the Revillagigedo Islands, Mexico. [\[Baja California Norte\]](#). Cedros Island. [28°04'N. 115°13'W]. 1988. *Phaseolus filiformis* Benth.. Small pink flowers. Coll. [HL Mason](#). June 3, 1925 [3 juin 1925]. /// United States National Herbarium. *Phaseolus filiformis* Benth., det. James Lackey, Jan 1980. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 24 Sep 1984. /// DGD: *filiformis*, 10 racèmes, en floraison, jgo, go vertes, go sèches, une plante en rosette avec tiges grêles volubiles, racine pivotante herbacée. [US; 1-IX-2009].

53089. Herbarium. Arizona State University. /// Specimen entered in ASU Database. /// ASU Vascular Plant Herbarium. Specimen Image Number, puis code barre ASU0024519. /// Plants of Mexico. Herbarium of Arizona State University. Leguminosae. *Phaseolus grayanus* Woot. & Standl. [Baja California del Norte](#). Location: 7 mi northwest of El Rosarito on road to San Borja Mission. Habitat: wash edge. *Larrea*, *Viscainoa*, *Yucca*. Elev.: [blanc]. Date: 2-VII-1969 [2 juillet 1969]. Collector: [Lyle McGill 046](#). Det. Lehto. /// *Phaseolus filiformis* Benth., det. Buhrow & Nabhan [sic!], 1984. Annotation - Herbarium of Arizona State University. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 3 racèmes, en floraison, go sèche. [ASU; 24-IX-2015].

Herbario de la Escuela Nacional de Ciencias Biológicas. Instituto Politécnico Nacional, México, D.F.. Plantas Mexicanas. [Aurora Montufar L. 143](#). *Phaseolus filiformis* Benth., det. J. Rzedowski. Mexico, [Baja](#)

California N[orte]. Loc: "Las Palomas". [28°13'15"N. 113°24'W]. Hab: terreno aluvial. Alt. 500 msnm. 29 de marzo de 1975. /// DGD: *filiformis*, en floraison, go vertes, go sèches, 11 racèmes. [ENCB; 11-14-VII-1978].

UC15252. Herbarium of the University of California. Plants of Baja California [Norte], Mexico. *Phaseolis* [sic!] *filiformis*. Petals lavender; wings spreading. Arroyo north of village, Cedros Island. [28°05'N. 115°13'W]. Reid Moran 2959. 22 April 1948. /// *Phaseolus filiformis* Benth., det. GF Freytag, 22 Mar 1985. /// DGD: *filiformis*, 4 plantes en rosette avec racine pivotante, 5+1+1+2 racèmes, en floraison, jgo, go vertes. [UC; 24-X-2003].

51992. Herbarium of the University of California, Santa Barbara. Plants of Baja California. *Phaseolus filiformis* Benth. In broad sandy wash with: *Bursera microphylla*, *Jatropha cinerea*, *Solanum hindsianum*. 6.2 miles west of Bahía de Los Angeles on Mexico Hwy 1. [28° 58' 15"N, 113° 38' W]. Estado: Baja California Norte. Coll: K C Nixon, C P Cowan. Date: 16 Dec 1977. No. 898. /// DGD: *filiformis*, 6 racèmes, en floraison, jgo en transition à go verte, go verte, go sèche, folioles profondément lobées. [ANSM; 14-XII-2011].

Herbarium of the University of California, Santa Barbara. Plants of Baja California. *Phaseolus filiformis* Benth. In broad sandy wash with: *Bursera microphylla*, *Jatropha cinerea*, *Solanum hindsianum*. 6.2 miles west of Bahía de Los Angeles on Mexico Hwy 1. [28° 58' 15"N, 113° 38' W]. Estado: Baja California Norte. Coll: K C Nixon, C P Cowan. No. 898. Date: 16 Dec 1977 [16 décembre 1977]. /// code barre University of Texas – Austin (LL, TEX) 00418980. /// DGD: *filiformis*, plus de 10 racèmes, en floraison, j go, go vertes, go sèches, folioles profondément lobées, tiges grêles volubiles. [TEX; 15-VIII-2008].

IEB079267. Plants of Baja California. *Phaseolus filiformis* Benth. Flowers pinkins [sic!], keel twisted spirally; vine from woody root, scattered to common in sandy soil of wash with *Acacia greggii*, *Bebbia juncea*, *Ambrosia magdalenae*. Elev. 2400 feet [730 m]. Cañon La Borreguera, Sierra La Libertad, 9 miles east of Mision San Borja. 28° 50' N, 113° 40' W. Estado B.C. Norte. Col. Kevin C Nixon, Clark P Cowan, Mary L Sauls No. 1175. Date: 29 March 1978 [29 mars 1978]. /// DGD: *filiformis*, plus de 12 racèmes, en floraison, j go, go vertes, go sèches, graines. [IEB; 29-V-2008].

Plants of Baja California. *Phaseolus filiformis* Benth. Flowers pinkins [sic!], keel twisted spirally; vine from woody root, scattered to common in sandy soil of wash with *Acacia greggii*, *Bebbia juncea*, *Ambrosia magdalenae*. Elev. 2400 feet [730 m]. Cañon La Borreguera, Sierra La Libertad, 9 miles east of Mision San Borja. 28° 50' N, 113° 40' W. Estado B.C. Norte. Coll. Kevin C Nixon, Clark P Cowan, Mary L Sauls N°. 1175. Date: 29 March 1978 [29 mars 1978]. /// code barre University of Texas – Austin (LL, TEX) 00418980. /// DGD: *filiformis*, plus de 10 racèmes, en floraison, j go, j go en transition à go vertes, go vertes, go sèches, une grande plante en rosette avec racine herbacée pivotante diamètre 5 mm. [TEX; 15-VIII-2008].

Flora of Lower California. 1886. *Phaseolus filiformis* Benth. San Quentin. [30°34'N. 115°57'W]. Northern Lower California. CR Orcutt 332. April 22. /// Herbarium of AA Heller purchased 1901 [cachet]. /// *Phaseolus filiformis* Benth. Ex num cit. Maréchal (1978). /// DGD: *filiformis*, en floraison, jgo, go vertes, go sèches, 11 racèmes, une plante entière avec racine fibreuse pivotante et aspect de rosette. [K; 6-VIII-1985].

Herbarium Coloniale Florentinum Da Missouri Bot. St. Louis (USA) – 28/ III/ 1950 [cachet à l'encre noire]. /// Flora of Lower California. 1886. *Phaseolus filiformis* Benth. Near San Quentin, Northern Lower California. C R Orcutt, No. 1322. 4 mo., 22 day. /// Missouri Botanical Garden. Duplicate from the Mo. Bot. Gard. Herbarium. /// DGD: *filiformis*, 3 racèmes, en go verte, go sèches, partie supérieure d'une rosette de plante, folioles petites lobées avec hétérophylle marquée. [FI; 28-VII-2008].

Flora of Lower California. 1886. *Phaseolus filiformis* Benth. Northern Lower California. CR Orcutt N°. 1332. 22 April [22 avril 1886]. /// DGD: *filiformis*, plus de 10 racèmes, en floraison, go vertes, plante en rosette avec base pivotante un peu lignifiée. [BM; 9-VIII-1985].

MIN410220 /// Flora of Lower California. 1886. *Phaseolus filiformis* Bth.. Northern Lower California. CR Orcutt no. 1332. 4 mo., 22 day [22 avril 1886]. /// Herbarium of Alexander P. Anderson, presented to the Department of Botany, University of Minnesota by Mr J.P. Anderson, Mrs F. Chesley, Mrs R.M. Sargent and Mrs R.F. Hedin. 1946. /// DGD: *filiformis*, une plante entière en rosette avec racine fibreuse herbacée pivotante, 7 racèmes, en floraison, jgo, go vertes, go sèche, folioles petites; pas plus d'indications sur le lieu de collecte. [MIN; 16-IV-2010].

MO1731077. Flora of Lower California. 1886. *Phaseolus filiformis* Benth.. near San Quentín. [30°34'N. 115°57'W]. Northern Lower California. CR Orcutt no. 1332. April 22 [22 avril 1886]. /// The University of Texas Herbarium, Systematic Revision of *Phaseolus*. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1985. /// TARS, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Jun 23 1986. /// DGD: *filiformis*, plus de 10 racèmes, en go vertes, go sèches. [MO; 7-VI-2002].

Flora of Lower California. 1886. *Phaseolus filiformis* Benth.. Near San Quentín. Northern Lower California. CR Orcutt no. 1332. April 22. /// Herbarium of Parke, Davis & Company. Presented to the University of Michigan, 1933. /// Depauw University Herbarium. Cancelled. /// Truman G. Yuncker Herbarium of Depauw University (DPU) purchased by NY in 1987. /// DGD: *filiformis*, 4 racèmes, en go vertes, go sèches. [NY; 19-II-2014].

Flora of Lower California. 1886. *Phaseolus filiformis* Bth. San Quentin, [30°34'N. 115°57'W], northern Lower California. C R Orcutt, no. 1332. April 22. /// Herbarium of Thomas C. Porter. /// 730323 [numéro à l'encre noire]. /// DGD: *filiformis*, une plante en rosette avec racine fibreuse pivotante, 5 racèmes, en floraison, j go, go verte, go sèche. [PH; 11-IX-2007].

UC16255. Flora of Lower California. 1886. *Phaseolus filiformis* Bth.. [sic!]. Northern Lower California. CR Orcutt no. 1332. 22 April. /// *Phaseolus filiformis* Benth., det. GF Freytag 20 Mar 1985. /// DGD: *filiformis*, 1 plante avec racine fibreuse pivotante, aspect de rosette, 4 racèmes, en floraison, jgo, go vertes, développement hétéroblastique. [UC; 23-X-2003].

US942152. Flora of Lower California. 1886. *Phaseolus filiformis* Bth. Northern Lower California. CR Orcutt, N°. 1332. 4 mo, 22 day [22 avril 1886]. /// United States National Herbarium. *Phaseolus filiformis* Benth., det. James Lackey, Jan 1980. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 17 Sep 1984. /// DGD: *filiformis*, 4 racèmes, en floraison, go sèches, une plante en rosette avec racine herbacée pivotante. [US; 1-IX-2009].

US78204. Flora of Lower California. 1886. *Phaseolus filiformis* Bth. Northern Lower California [Baja California Norte]. San Quentin. [30°34'N. 115°57'W]. CR Orcutt, No. 1332. 4 mo, 22 day [22 avril 1886]. /// Herb. United States Department of Agriculture. *Phaseolus filiformis* Bth.. Locality: California. Collector: CR Orcutt. Apr. 22 1886. /// United States National Herbarium. *Phaseolus filiformis* Benth., det. James Lackey, Jan 1980. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 17 Aug 1984. /// DGD: *filiformis*, 4+4 racèmes, en floraison, jgo, deux plantes en rosette avec racine herbacée pivotante, tiges grêles et volubiles dans parties terminales. [x2]. [US; 1-IX-2009].

UC186774. Herb. United States Department of Agriculture. *Phaseolus filiformis* Benth.. Loc: N Lower California. Collector: CR Orcutt. 1886. Apr. /// *Phaseolus filiformis* Benth., det. GF Freytag, 20 Mar 1985. /// DGD: *filiformis*, 1 plante en rosette avec racine pivotante, 6 racèmes, en floraison, jgo, go vertes, go sèches, développement hétéroblastique. [UC; 24-X-2003].

Flora of Lower California. [Baja California Norte]. Cedros Island. [28°04'N. 115°13'W]. No. 727. *Phaseolus filiformis* Benth. Coll. D^r Edward Palmer. March 18-20, 1889. /// Recd 1 Nov. 90 [1890; cachet]. /// *Phaseolus filiformis* Benth. Ex num cit. Maréchal (1978). /// DGD: *filiformis*, en go sèches, 8 racèmes. [K; 6-VIII-1985].

Flora of Lower California. [Baja California Norte]. Cedros Island. [28°04'N. 115°13'W]. No. 733. *Phaseolus filiformis* Benth. Coll. D^r Edward Palmer. March 18-20, 1889. /// Rec^d 1 Nov. 90 [1890, cachet]. /// *Phaseolus filiformis* Benth. ex num cit. Maréchal (1978). /// DGD: *filiformis*, 5 racèmes, en floraison, jgo, go verte, go sèches, une petite plante avec racine pivotante fibreuse herbacée. [K; 6-VIII-1985].

55294. Herbarium. Arizona State University. /// Specimen entered in ASU Database. /// ASU Vascular Plant Herbarium. Specimen Image Number, puis code barre ASU0024514. /// Plants of Mexico. Herbarium of Arizona State University. Leguminosae. *Phaseolus grayanus* Woot. & Standl. County: Baja California. Location: 4.8 mi E of Rte 1 and of Rosario. Habitat: Cactus flats and hillsides. Elev.: [blanc]. Date: 2-VI-1973 [2 juin 1973]. Collector: McGill, Hensel, MacIntyre & DJ Pinkava 11156. Det.: [blanc]. /// *Phaseolus filiformis* Benth., det. R. Buhrow, 3-14 1984. Annotation - Herbarium of Arizona State University. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 6 racèmes, en go vertes, go sèches, spécimen à peu près défolié. [ASU; 24-IX-2015].

UC168481. Plantae Mexicanae Purpusianae. 102. *Phaseolus filiformis* Benth.. Calmallí. [28°07'N. 113°26'W]. Central Baja California, [Baja California Norte]. CA Purpus. Feb. [pas de jour, pas d'année!]. /// *Phaseolus filiformis* Benth., det. GF Freytag, 22 Mar 1985. /// DGD: *filiformis*, 3 plantes en rosette avec racine fibreuse, en floraison, go vertes, 6 racèmes. [UC; 23-X-2003].

ASU208210. /// Specimen entered in ASU Database. /// ASU Vascular Plant Herbarium. Specimen Image Number, puis code barre ASU0024523. /// Plants of Mexico. Arizona State University. *Phaseolus filiformis* Benth. State of Baja California: 114° 45'W, 30° 00'N. East of El Marmol on the road to Mina Olvidada & approx.. 12 miles east of Rte 1. Low valley and wash areas with *Pachycormus*, *Jojoba*, *Ocotillo*, *Cercidium*, *Mesquite*, *Opuntia molesta* & *Larrea*. 665 m. 16 Mar. 1993 [16 mars 1993]. Jon Rebman 1568, with José Delgadillo. /// DGD: *filiformis*, 6 racèmes, en floraison, jgo, go vertes. [ASU; 25-IX-2015].

UCR116388. /// Fabaceae of Mexico. Baja California Norte. *Phaseolus filiformis* Benth. Eastern foothills of Sierra San Pedro Martir, west of main dirt road providing access to Canon de Guadalupe, ca. 2.3 miles from El Cajon Ranch, near Canon el Cajon, in vicinity of 30° 49.650' N, 115° 13.646' W, 640 meters. Flats and foothills of Sierra, with *Hyptis*, *Melilotus*, *Mimulus*, *Viguiera*, *Baccharis sarothroides*, *Prosopis glandulosa*, *Phacelia affinis*, *Bursera microphylla*, *Pachycereus pringlei*, *Larrea*, *Selaginella*, *Ambrosia carduacea*, *Tessaria*, *Justicia californica*, *Tamarix*, *Acacia*, *Trixis*, *Vitis girdiana*, *Galvezia juncea*. Occasional herbaceous perennial vine, growing in *Typha* ticket by water, flowers pink. 14 March 1995 [14 mars 1995]. Jon Rebman, A Salywon, RP Martínez, G Reinhardt, Wendy Hodgson 8768. Herbarium of the Desert Botanical Garden (DES). /// Specimen data entered into UCR database. /// DGD: *filiformis*, 5 racèmes, en floraison, jgo, go vertes. [UCR; 19-VIII-2014].

UCR23848. /// Herbaria of Alfred R. Roos, M.D. and John C. Roos, M.D. *Phaseolus filiformis* Benth. 8 miles north of Puertocitos. [30° 26'N, 114° 41'40"W]. Assoc. with *Encelia farinosa* and *Bouteloua aristitoides*. Prostrate and climbing annual, with rose-colored fls. Baja California Norte, Mexico. Date 23 December 1961 [23 décembre 1961]. Alt. 100 ft. [30 m]. Coll. JC Roos. No. [blanc]. Det. by A.C. Sanders Aug. 1981. /// Specimen data entered into UCR database. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F Freytag, Apr 6 1992. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 6 racèmes, en floraison, jgo, go vertes, go sèches, plante avec racine pivotante; pas de numéro de collecte, spécimen touffu ! [UCR; 19-VIII-2014].

US638240. /// United States National Museum. /// Plants of Lower California. [Baja California Norte]. Cruise of the US steamer Albatross, under the direction of D^r C.H. Townsend; botanical collections made by the cooperation of the New York Botanical Garden and the U.S. National Museum. *Phaseolus filiformis* Benth.. Cedros Island. [28°04'N. 115°13'W]. No. 16166. JN Rose, collector. March 12, 1911 [12 mars 1911]. /// United States National Herbarium. *Phaseolus filiformis* Benth., det. James Lackey, Jan 1980. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 11 Aug 1984. /// DGD: *filiformis*, 1+2+2+2+2 racèmes, en floraison, jgo, go vertes, cinq petites plantes en rosette avec tiges grêles et racine herbacée pivotante, hétérophylie. [US; 1-IX-2009].

US638265. /// United States National Museum. /// Plants of Lower California. Cruise of the US steamer Albatross, under the direction of D^r C.H. Townsend; botanical collections made by the cooperation of the New York Botanical Garden and the U.S. National Museum. *Phaseolus filiformis* Benth.. San Bertolomé [sic!] Bay. No. 16194. JN Rose, collector. March 13, 1911 [13 mars 1911]. /// United States National Herbarium. *Phaseolus filiformis* Benth., det. James Lackey, Jan 1980. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 14 Aug 1984. /// DGD: *filiformis*, 4 racèmes, en floraison, jgo, go verte, une plante en rosette avec tiges grêles et racine fibreuse herbacée pivotante, hétérophylie; trois petites plantes en rosette accompagnent l'échantillon. [US; 1-IX-2009].

UCR38399. /// Herbarium of the University of California, Riverside. Plants of Baja California Norte, Mexico. *Phaseolus filiformis* Benth. Ammonite Canyon at its junction with Arroyo Santa Catarina, 5.4 mi. E of Sta. Catarina Landing on the road to Rancho Sta. Catarina. (Approx. 115d 15'W, 29d 35'N). Silty soil with rocks, in canyon and along wash; assoc. with *Idria*, *Pachycormus*, *Machaerocereus*, *Opuntia*, *Atriplex julacea*, *A. polycarpa*, *Yucca valida*, *Larrea*, *Trixis*, *Lophocereus*, etc. A scarce annual vine in the wash. Date 29 Mar. 1985 [29 mars 1985]. Alt. 200 ft. [61 m]. Coll. AC Sanders, E Rodriguez, J West, et al. [sic!]. No. 5560. /// Specimen data entered into UCR database. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F Freytag, Apr 6 1992. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 6 racèmes, en go vertes, go sèches, une plante en rosette avec racine pivotante. [UCR; 19-VIII-2014].

US1749006. /// United States National Museum. /// 6908. Plants of Mexico. collected in Baja California [Norte]. *Phaseolus filiformis* Benth.. Loc: 20 mi W of Bahia Los Angeles. [29°01'N. 113°46'30"W]. Alt. [blanc]. Date Feb 21 1935 [21 février 1935]. Forrest Shreve. /// United States National Herbarium. *Phaseolus filiformis* Benth., det. James Lackey, Jan 1980. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 21 Sep 1984. /// DGD: *filiformis*, 5 racèmes, en floraison, jgo, go sèche, tige volubile grêle. [US; 1-IX-2009].

118296. /// Plants of Baja California, Mexico. *Phaseolus filiformis* Benth.. [Baja California Norte]. Isla Ventana. [28°59'50"N. 113° 30'40"W]. In upper south bay. Common between January and April. N°. 70. 24 January 1977 [24 janvier 1977]. Collected by Larry Spear. Determined by Larry Spear. Fide: Piero Delprete. Distributed by the Arboretum & Department of Botany, University of California, Davis. /// DGD: *filiformis*, une plante entière en rosette avec racine fibreuse herbacée, 8 racèmes, en floraison, j go, go vertes, go sèches, graines, petites folioles 10x12 mm, hétérophylie. [DAV; 19-IX-2008].

Plants of Mexico. R & M Spellenberg et al. 3321. *Phaseolus filiformis* Benth. [Mexico], Baja California [Norte], 15 miles south of Punta Prieta, along highway 1, shallow arroyo. [28°52'N. 114°07'W]. June 1, 1973. /// DGD: *filiformis*, en floraison, go vertes, go sèches, 6 racèmes, une plante avec racine pivotante herbacée. [ENCB; 11-14-VII-1978].

SN Stephenson 67-115. *Phaseolus filiformis* Benth.. Baja California Norte, 5 mi N of San Felipe. [31°05'N. 114°52'W]. Barren rocky slope with very little vegetation. Plant: a vine growing in crevices of rocks. April 16, 1967. /// DGD: *filiformis*, en go sèches. [MSC; 30-VI-1988].

[planche non numérotée]. Coll. United States Department of Agriculture. *Phaseolus filiformis*. Locality: Cerros Island [sic!; pour 'Isla Cedros' ?!; 28°04'N. 115°13'W]. Lower California [[Baja California Norte](#)]. Collector: D^r [J H Streets](#). 1876. /// United States National Herbarium. *Phaseolus filiformis* Benth., det. James Lackey, Jan 1980. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 20 Sep 1984. /// DGD: *filiformis*, un racème, en floraison, un petit fragment de plante; pas de numéro ni de jour ni de mois de collecte. [US; 1-IX-2009].

UC1731104. Plants of Mexico. Flora of the Baja Peninsula. *Phaseolis* [sic!] *filiformis* Benth. [Baja California Norte](#); vicinity of Bahia San Luís Gonz, ca 200 feet elevation. [29°46'N. 114°22'W]. [Dean Wm Taylor # 2292](#). 29 March 1973. /// DGD: *filiformis*, 12 racèmes, en floraison, go vertes, go sèches. [UC; 23-X-2003].

43919. Plantas de México. [Baja California Norte](#). Herbario Nacional de Mexico (MEXU). Instituto de Biología (UNAM). *Phaseolus acutifolius* A Gray. Loc. Puerto Refugio. Punta Norte de la Isla Angel de la Guarda. Mpio Ensenada. Alt. 50 msnm. 29 33 00 (N) 113 34 00 (W). hierba rastrera, abundante, fl lila, fr inmaduro. Veg. desierto sarco caulescente, primaria, suelo arenoso-pedregoso. Fecha 07 Feb 1986. Col. [Pedro Tenorio L.](#) no. 10857, C Romero de T.. Bajo el Patrocino de CONACyT. /// DGD: *filiformis*, 3 racèmes, en floraison, jgo, go verte, racine herbacée pivotante, hétérophylie, tiges volubiles dans parties terminales. [ANSM; 13-XII-2011].

IBUG94467. Plantas de México. [Baja California Norte](#). Herbario Nacional de Mexico (MEXU). Instituto de Biología (UNAM). *Phaseolus acutifolius* A Gray. Loc. Puerto Refugio. Punta Norte de la Isla Angel de la Guarda. Mpio Ensenada. Alt. 50 msnm. 29 33 00 (N) 113 34 00 (W). hierba rastrera, abundante, fl lila, fr inmaduro. Veg. desierto sarco caulescente, primaria, suelo arenoso-pedregoso. Fecha 07 Feb 1986 [7 février 1986]. Col. [Pedro Tenorio L.](#) no. 10857, C Romero de T.. bajo el Patrocino de CONACyT. /// DGD: *filiformis*, 2 racèmes, 1 go verte, 1 go sèche, exemplaire 'scrappy'. [IBUG; 30-X-2003].

Rancho Santa Ana Botanic Garden 492573. /// Plantas de Mexico: [Baja California Norte](#). Herbario Nacional de México (MEXU). Instituto de Biología, UNAM. *Phaseolus acutifolius* Gray. Loc. Puerto Refugio, Punta Norte de la Isla Angel de la Guarda, Mpio. Ensenada. Alt. 50 msnm. 029 33 00 (N), 113 34 00 (W). [29° 32'N. 113° 31'45"W]. Hierba rastrera, abundante, fl. lila, fr inmaduro. Veg. Desierto sarcocauléscente, primaria. Suelo arenoso-pedregoso. Fecha: 07 Feb 1986. Col. [Pedro Tenorio L.](#) no. 10857, C Romero de T. Bajo el Patrocinio de CONACyT. /// DGD: *filiformis*, 3 racèmes, en j go, go verte, go sèche, une petite plante avec racine herbacée pivotante. [RSA; 4-XI-2010].

Plantas de México. [Baja California Norte](#). Herbario Nacional de Mexico (MEXU). Instituto de Biología, UNAM. *Phaseolus filiformis* Benth.. Loc. Puerto Refugio. Punta Norte de la Isla Angel de la Guarda. Mpio Ensenada. Alt. 50 msnm. 29 33 00 (N) 113 34 00 (W). hierba rastrera, abundante, fl lila, fr inmaduro. Veg. desierto sarcocauléscente, primaria, suelo arenoso-pedregoso. Fecha 07 Feb 1986 [7 février 1986]. Col. [Pedro Tenorio L.](#) n°. 10857, C Romero de T.. Bajo el Patrocino de CONACyT. /// code barre University of Texas – Austin (LL, TEX) 00418980. /// DGD: *filiformis*, 4 racèmes, en floraison, j go, j go en transition à go vertes, petite plante en rosette avec racine herbacée pivotante. [TEX; 15-VIII-2008].

MO3596491. Plantas de México, [Baja California Norte](#). Herbario Nacional de Mexico (MEXU). *Phaseolus filiformis* Benth., det. A Delgado S., 1988. Loc: 21 km al E de Punta Prieta, carr. Bahia de Los Angeles. Mpio de Ensenada. Alt. 370 m. 28° 58'N. 114° 02'W. Enredadera abundante, fl lila, fr inmaduro. Veg. matorral espinoso con crasicaules, primaria. Suelo amarillo arenoso. Fecha 24 abr 1987 [24 avril 1987]. Col. [Pedro Tenorio L.](#) no. 13072, C Romero de T. Bajo el Patrocinio de CONACyT. /// DGD: *filiformis*, plus de 10 racèmes, en floraison, go vertes, 4-5 gr/ go. [MO; 7-VI-2002].

UC971536. Herbarium of the University of California. Cedros Island. [28°04'N. 115°13'W]. [[Baja California Norte](#)], Mexico. *Phaseolus filiformis* Benth.. Coarse gravelly soil. One mile west of the village. Altitude 300

feet. [AL Waines, George Hale](#). 11 February 1939. [pas de numéro de collecte !]. /// *Phaseolus filiformis* Benth., det. GF Freytag, 20 Mar 1985. /// DGD: *filiformis*, 2 plantes en rosette, racine pivotante, 4+12 racèmes, en floraison, jgo, go vertes. [UC; 24-X-2003].

UC971537. Herbarium of the University of California. Cedros Island. [28°04'N. 115°13'W]. [[Baja California Norte](#)], Mexico. *Phaseolus filiformis* Benth.. Arroyo. Southwest of village 0.5 mile. Altitude 150 feet. [AL Waines, George Hale](#). 14 March 1939. [pas de numéro de collecte !]. /// *Phaseolus filiformis* Benth., det. GF Freytag, 25 Mar 1985. /// DGD: *filiformis*, 14 racèmes, en floraison, jgo, go vertes, go sèches, graines. [UC; 24-X-2003].

73906. /// Plants of [Baja California Norte](#)], Mexico. *Phaseolus filiformis* Benth.. Desert scrub along W shore of Bahia de los Angeles, c 3-4 miles N of town, alt. 15-75 m, approx. 29° 00'N, 113° 34'W. Vine with prostrate branches, fls. purple. N°. [18150](#). 25 Mar. 1973 [25 mars 1973]. Collected by [GL Webster](#). Determined by K Steiner. Distributed by the Department of Botany, University of California, Davis. /// DGD: *filiformis*, une plante entière avec racine fibreuse pivotante herbacée, 5 racèmes, en floraison, j go, go verte, go sèches, folioles lobées 11x8 mm, hétérophylie. [DAV; 19-IX-2008].

74407. /// Plants of [Baja California Norte](#)], Mexico. *Phaseolus filiformis* Benth.. Volcanic slopes above the Golfo de California, W of Punta Willard, approx. 29° 50'N, 114° 24'W; common; prostrate, fls purple. N°. [18221](#). 28 Mar 1973 [28 mars 1973]. Collected by [GL Webster](#). Determined by S Lynch. Distributed by the Department of Botany, University of California, Davis. /// DGD: *filiformis*, 6 racèmes, en floraison, go vertes, go sèches, graines, folioles profondément lobées 13x9 mm. [DAV; 19-IX-2008].

93207. /// Plants of Mexico. *Phaseolus filiformis* Benth.. [Baja Cal\[i\]fornia Norte](#): sandy wash with cardón, *Larrea*, *Jatropha*, *Pedilanthus*, et al., c 15.5 mi by rd. NW of Bahía de los Angeles village, alt. 900 ft. [270 m], approx. 29° 00'N. 113° 45'W. Common, prostrate, fls pink. N°. [21586](#). 27 Mar 1977 [27 mars 1977]. Collected by [GL Webster](#). Determined by GLW. Distributed by the Department of Botany, University of California, Davis. /// DGD: *filiformis*, une plante entière en rosette avec racine herbacée pivotante, plus de 10 racèmes, en floraison, go vertes, go sèches, graines, folioles petites lobées 14x11 mm. [DAV; 19-IX-2008].

153889. /// Mexico-Baja California. UC Davis Herbarium. *Phaseolus filiformis* Benth.. [Baja California Norte](#)] Estado: Mpio Mexicali: sandy granitic boulders, desert scrub with *Pachycormus*, *Bursera*, *Viscainoa*, et al, near Cerro Frederico Guillermo; prostrate vine. Lat/ Long: 29° 58'N, 114° 34'W. El. c 100 meters. March 26, 1991 [26 mars 1991]. [Grady L Webster 28552](#). Det: [blanc]. /// DGD: *filiformis*, plus de 10 racèmes, en floraison, j go, go vertes, go sèches, graines, forte hétérophylie. [DAV; 19-IX-2008].

164529. /// Plants of [Baja California Norte](#)]. Mpio. Ensenada. Fabaceae. *Phaseolus filiformis* Benth.. Sandy plain with *Viscainoa*, *Larrea*. C. 11 mi by road N of Villa Cortez. Common decumbent vine; corolla reddish-purple. Lat. 29° 40'N. Long. 114° 25'W. elev. 100 m. [GL Webster](#) & P Richerson [33946](#). 25 Mar 2003 [25 mars 2003]. The UC Davis Herbarium. /// DGD: *filiformis*, une plante entière en rosette avec racine fibreuse herbacée, 8 racèmes, en floraison, j go, go vertes, go sèches, graines, petites folioles 12x10 mm. [DAV; 19-IX-2008].

US1739761. /// United States National Museum. /// Dudley Herbarium of Stanford University. # [4372](#). Plants of Baja California, Mexico. *Phaseolus filiformis* Benth.. Flowers reddish- lavender. Desert slopes and hills; vicinity of El Marmol. [Ira L Wiggins](#). March 6, 1930 [6 mars 1930]. /// United States National Herbarium. *Phaseolus filiformis* Benth., det. James Lackey, Jan 1980. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 14 Aug 1984. /// DGD: *filiformis*, 5 racèmes, en floraison, jgo, une plante en rosette avec tiges grêles volubiles et racine fibreuse herbacée pivotante, hétérophylie. [US; 1-IX-2009].

Dudley Herbarium of Stanford University. Plants of [Baja California Norte](#)], Mexico. [ILWiggins & D Demarée 4801](#). *Phaseolus filiformis* Benth. Mexico, Baja California, Mission, among bushes along Río

Santo Domingo, in canyon about 6 miles above Mission. [30°47'N. 115°56'W]. Corolla light magenta-red. September 12, 1930. /// DGD: *filiformis*, en floraison, go vertes, 7 racèmes. [ENCB; 11-14-VII-1978].

F733926. Dudley Herbarium of Stanford University. # 4801. Plants of [Baja California \[Norte\]](#), Mexico. *Phaseolus filiformis* Benth. Mexico, Baja California, Mission, among bushes along Río Santo Domingo, in canyon about 6 miles above the Mission. [30°47'N. 115°56'W]. Corolla light magenta-red. [IL Wiggins & D Demarée](#). September 12, 1930. /// The University of Texas Herbarium, Systematic Revision of *Phaseolus*. *Phaseolus filiformis* Benth., Alfonso Delgado Salinas, 1985. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Jan 12, 1987. /// DGD: *filiformis*, en floraison, jgo, go sèches, 5 racèmes, 1 plante en rosette. [F; 31-VII-2004].

US1587954. /// United States National Museum. /// Dudley Herbarium of Stanford University. # 4801. Plants of [Baja California \[Norte\]](#), Mexico. *Phaseolus filiformis* Benth.. Among bushes along Rio Santo Domingo, about 6 miles above the Mission. [30°47'N. 115°56'W]. Corolla magenta-red. [IL Wiggins & D Demaree](#). 12 Sept. 1930 [12 septembre 1930]. /// United States National Herbarium. *Phaseolus filiformis* Benth., det. James Lackey, Jan 1980. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 21 Sep 1984. /// DGD: *filiformis*, 6 racèmes, en floraison, jgo, go sèches, tige volubile grêle, spécimen touffu. [US; 1-IX-2009].

F1024299. Dudley Herbarium of Stanford University. 7734. Plants of [Baja California \[Norte\]](#), Mexico. *Phaseolus filiformis* Benth.. Coastal terrace along beach, 24 mi S of Punta Prieta. [28°44'N. 114°21'W]. [I L Wiggins](#). Feb 23, 1935 [23 février 1935]. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Jan 12, 1987. /// DGD: *filiformis*, en floraison, 8 racèmes, jgo, go vertes, 1 plante avec racine fibreuse. [F; 31-VII-2004].

UC651197. Dudley Herbarium of Stanford University. 7734. [Plants of Baja California \[Norte\]](#), Mexico. *Phaseolus filiformis* Benth.. Coastal terrace along beach, 24 mi S of Punta Prieta. [28°44'N. 114°21'W]. [Ira L Wiggins](#). Feb 23, 1935 [23 février 1935]. /// *Phaseolus filiformis* Benth., det. GF Freytag, 20 Mar 1985. /// DGD: *filiformis*, 1 plante avec racine fibreuse pivotante, 6 racèmes, en floraison, jgo, go vertes, net développement hétéroblastique. [UC; 23-X-2003].

US1806595. /// United States National Museum. /// Dudley Herbarium of Stanford University. 7734. Plants of [Baja California \[Norte\]](#), Mexico. *Phaseolus filiformis* Benth.. Coastal terrace along beach 24 mi S. of Punta Prieta. [28°44'N. 114°21'W]. [Ira L Wiggins](#). Feb. 23, 1935. /// United States National Herbarium. *Phaseolus filiformis* Benth., det. James Lackey, Jan 1980. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 17 Aug 1984. /// DGD: *filiformis*, 4 racèmes, en floraison, jgo, une petite plante entière avec racine herbacée pivotante et rosette de tiges grêles, début d'hétérophyllie. [US; 2-IX-2009].

UC718867. Dudley Herbarium of Stanford University. Plants of [Baja California](#), Mexico. 9961. *Phaseolus filiformis* Benth.. scrambling over stones and shrubs, bank of stream at Las Posas, 3 miles southwest of Portesuela, between Los Emes and San Antonio del Duarte, southwestern Sierra San Pedro Martir. [30°14'N. 115°26'W]. [Ira L Wiggins](#). May 14, 1941 [14 mai 1941]. /// *Phaseolus filiformis* Benth., det. GF Freytag, 22 Mar 1985. /// DGD: *filiformis*, 4 racèmes, en floraison, jgo, go vertes. [UC; 24-X-2003].

US1891951. /// United States National Museum. /// Dudley Herbarium of Stanford University. 9961. Plants of [Baja California \[Norte\]](#), Mexico. *Phaseolus filiformis* Benth.. Scrambling over stones and shrubs, bank of stream at Las Posas, 3 miles southwest of Portesuela [sic!], between Los Emes and San Antonio del Duarte, southwestern Sierra San Pedro Martir. [30°14'N. 115°26'W]. [Ira L Wiggins](#). May 14, 1941. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 1 Apr 1985. /// DGD: *filiformis*, 8 racèmes, en floraison, jgo, go vertes, tiges grêles volubiles, folioles lobées. [US; 2-IX-2009].

Dudley Herbarium of Stanford University. Plants of [Baja California \[Norte\]](#), Mexico. *Phaseolus filiformis* Benth., desert wash 1 mile south of sulphur mines (24 miles south of San Felipe). [30°43'N. 114°48'W].

Banner very pale rose, other petals deeper color. [Ira L. Wiggins & Dorothy B. Wiggins 15831](#). 19 March 1960. /// DGD: *filiformis*, go vertes et go sèches. [G; 12-II-2002].

MEXU106838. Plants of Baja California [\[Norte\]](#), Mexico. *Phaseolus filiformis* Benth., desert wash 1 mile south of sulphur mines (24 miles south of San Felipe). [30°43'N. 114°48'W]. Banner very pale rose, other petals deeper color. [Ira L. Wiggins & Dorothy B. Wiggins 15831](#). 19 March 1960. /// DGD: *filiformis*, en floraison, en go vertes. [MEXU; VII-1978].

238495. /// Dudley Herbarium of Stanford University. Plants of Baja California [\[Norte\]](#), Mexico, *Phaseolus filiformis* Benth.. Desert wash 1 mile south of sulphur mines (24 miles south of San Felipe). [30°43'N. 114°48'W]. Banner very pale rose, other petals deeper color. [Ira L Wiggins & Dorothy B. Wiggins 15831](#). 19 March 1960. /// The University of Texas Herbarium, Systematic Revision of Phaseolus. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS-USDA, Mayaguez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F Freytag, May 25, 1988. /// code barre University of Texas – Austin (LL, TEX) 00273128. /// DGD: *filiformis*, 8 racèmes, en floraison, j go, j go en transition à go vertes, go vertes, go sèche, folioles profondément lobées. [x 2]. [TEX; 15-VIII-2008].

US2522604. Dudley Herbarium of Stanford University. Plants of [Baja California \[Norte\]](#), Mexico. *Phaseolus filiformis* Benth. Desert wash 1 mile south of sulphur mines (24 miles south of San Felipe). [30°43'N. 114°48'W]. Banner very pale rose, other petals deeper color. [Ira L Wiggins & Dorothy B Wiggins 15831](#). 19 March 1960 [19 mars 1960]. /// California Academy of Sciences. Expedition to Baja California. April 18 – May 31, 1959. sponsored by the Belvedere Scientific Fund. /// United States National Herbarium. *Phaseolus filiformis* Benth., det. James Lackey, Jan 1980. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 14 Aug 1984. /// DGD: *filiformis*, 6 racèmes, en floraison, jgo, go vertes, tiges grêles, spécimen touffu mal pressé. [US; 1-IX-2009].

Dudley Herbarium of Stanford University. Plants of Baja California [\[Norte\]](#), Mexico. *Phaseolus filiformis* Benth., bottom of rocky wash about 8 miles south of Puertocito. [30°15'N. 114°40'W]. Plants prostrate, stems 2.5 m long. [Ira L. Wiggins & Dorothy B. Wiggins 15876](#). 22 March 1960. /// DGD: *filiformis*, go vertes et go sèches. [G; 12-II-2002].

MEXU106559. Plants of Baja California [\[Norte\]](#), Mexico, *Phaseolus filiformis* Benth., bottom of rocky wash about 8 miles south of Puertocito. [30°15'N. 114°40'W]. [Ira L. Wiggins & Dorothy B. Wiggins 15876](#). 22 March 1960 [22 mars 1960]. /// DGD: *filiformis*, en floraison, en go vertes. [MEXU; VII-1978].

238553. /// Dudley Herbarium of Stanford University. Plants of Baja California [\[Norte\]](#), Mexico, *Phaseolus filiformis* Benth.. Bottom of rocky wash about 8 miles south of Puertocito. [30°15'N. 114°40'W]. Plants prostrate, stems 2.5 m long. [Ira L Wiggins & Dorothy B. Wiggins 15876](#). 22 March 1960. /// California Academy of Sciences. Botanical Explorations in Baja California, sponsored by the Belvedere Scientific Fund. /// The University of Texas Herbarium, Systematic Revision of Phaseolus. *Phaseolus filiformis* Benth., Alfonso Delgado S. 1985. /// Tropical Agriculture Research Station, ARS-USDA, Mayaguez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, May 25 1988. /// code barre University of Texas – Austin (LL, TEX) 00273136. /// DGD: *filiformis*, 9 racèmes, en floraison, j go, j go en transition à go verte, go vertes, go sèches, forte hétérophylie. [x 2]. [TEX; 15-VIII-2008].

US2522617. Dudley Herbarium of Stanford University. Plants of [Baja California \[Norte\]](#), Mexico. *Phaseolus filiformis* Benth.. Bottom of rocky wash about 8 miles south of Puertocito. [30°15'N. 114°40'W]. Plants prostrate, stems 2.5 m long. [Ira L Wiggins & Dorothy B Wiggins 15876](#). 22 March 1960. /// California Academy of Sciences. Expedition to Baja California. April 18 – May 31, 1959. sponsored by the Belvedere Scientific Fund. /// United States National Herbarium. *Phaseolus filiformis* Benth., det. James Lackey, Jan 1980. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 17 Aug 1984. /// DGD: *filiformis*, 6 racèmes, en floraison, jgo, go vertes, go sèches. [US; 1-IX-2009].

US3034452. Dudley Herbarium of Stanford University. Plants of [Baja California \[Norte\]](#), Mexico. *Phaseolus filiformis* Benth.. Sandy hummocks and stabilized dunes at head of inner cove at Bahia de San Francisquito. [29°43'50"N. 114°20'W]. Alt. 10-50 ft. [10 m]. Associated plants: *Bursera microphylla*, *B. rhodolium*, *Atamisquea emarginata*, *Fouquieria peninsularis*, *Lycium brevipes*, *Viscainoa geniculata*, *Opuntia cholla*, *O. ciribe*, *Pachycereus pringlei*, *Machaerocereus gummosus*, *Euphorbia xantii*, *Pedilanthus macrocarpus*, *Jatropha cinerea*, *Atriplex canescens*, *Colubrina globosa*, *Jacquemontia eastwoodiana*, *Solanum hindsianum*, *Yucca valida*, *Encelia farinosa*. [Ira L Wiggins 16898](#). Feb 25, 1962 [25 février 1962]. /// California Academy of Sciences. Botanical Explorations in Baja California, sponsored by the Belvedere Scientific Fund. /// Tropical Agriculture Research Station, ARS, USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 17 1988. /// DGD: *filiformis*, 3+3+2 racèmes, en floraison, jgo, go vertes, 3 plantes avec racine herbacée pivotante et rosette de tiges grêles, hétérophylie marquée. [US; 2-IX-2009].

Dudley Herbarium of Stanford University. Plants of Baja California, Mexico. [Ira L Wiggins 17072](#). *Phaseolus filiformis* Benth. Mexico, [Baja California \[Norte\]](#), Pond Island, Isla de la Vivera. Lat 29°02.6'N. Long 113°06.7'W. March 17, 1962 /// DGD: *filiformis*, en floraison, go vertes, plus de 10 racèmes, petites folioles lobées. [ENCB; 11-14-VII-1978].

MEXU106726. Plants of Baja California, Mexico. [Ira L Wiggins 17072](#). *Phaseolus filiformis* Benth. Mexico, [Baja California \[Norte\]](#), Pond Island, Isla de la Vivera. Lat 29°02.6'N. Long 113°06.7'W. March 17, 1962 /// DGD: *filiformis*, en floraison, en go vertes. [MEXU; VII-1978].

MEXU107985. Plants of Baja California, Mexico. [Ira L Wiggins 17301](#). *Phaseolus filiformis* Benth. Mexico, [Baja California \[Norte\]](#), Isla Partida, N of Isla Rasa. [Lat 28°53'N. Long 113°03'W]. March 26, 1962 [26 mars 1962]. /// DGD: *filiformis*, en go vertes. [MEXU; VII-1978].

US3034420. Dudley Herbarium of Stanford University. Plants of Mexico. *Phaseolus filiformis* Benth.. Gulf of California. Isla Partida, north of Isla Rasa. [[Baja California Norte](#)]. Lat. 28 53.1, Long. 113 03.8 W. [Ira L Wiggins 17301](#). March 26, 1962. /// California Academy of Sciences. Botanical Explorations in Baja California, sponsored by the Belvedere Scientific Fund. /// Tropical Agriculture Research Station, ARS, USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 17 1988. /// DGD: *filiformis*, 5 racèmes, en floraison, jgo, go vertes, début d'hétérophylie. [US; 2-IX-2009].

Dudley Herbarium of Stanford University. Plants of [Baja California \[Norte\]](#), Mexico. [Ira L Wiggins 20874](#). *Phaseolus filiformis* Benth. Mexico, Baja California, in small lateral canyon leading west from Agua del Mezquitito waterhole, 31 miles south of Puertocitos. [29°59'N. 114°34'W]. Stems to 1.5 m long, flowers magenta. November 13, 1967. /// DGD: *filiformis*, en floraison, jgo, go vertes, go sèches, 12 racèmes, une plante en rosette. [ENCB; 11-14-VII-1978].

Baja California Sur (antes Territorio de Baja California)

University of North Carolina Herbarium NCU. 564280. /// R-358004. [Baja California \[Sur\]](#), Mexico. *Phaseolus atropurpureus* Sessé & Moc. Playa Ensenada Del Buero [sic!]. South of Mulege. [26° 55'N. 112° 00'W]. Odometer Reading 54436. K Anderson, K Thorne, [D Atwood 1073](#). 29 December 1993 [29 décembre 1993]. Herbarium of Brigham Young University. Provo, Utah. /// DGD: *filiformis*, une plante entière en rosette avec racine herbacée pivotante, 5 racèmes, en floraison, jgo, go sèche, hétérophylie. [NCU; 23-VIII-2011].

Voyage of HMS Sulphur. Capt. FW Beechey, 1836-37; Capt. E Belcher 1837-41. *Phaseolus filiformis* Benth. Lower California: Magdalena. [[Baja California Sur](#)]. [24°41'N. 111°50'W]. Oct. – Nov. 1839. Coll. [George W Barclay N° 3119](#). /// 3119. Leguminosae. H twiner. Flowers pink. Hab. Hills. Magdalena California. Barclay [étiquette probablement originale; écrite à la main à l'encre]. /// Syntype collection of *Phaseolus*

filiformis Benth. in Hinds, Bot. Voy. Sulphur: 13 (1844). /// DGD: *filiformis*, 5 racèmes, en floraison, j go, go vertes, spécimen pauvre, tiges rampantes ou ascendantes non volubiles. [BM; 18-XII-2006].

Baja California Sur, Mexico. *Phaseolus filiformis* Benth.. Leguminosae. **Baja California Sur**: Mpio La Paz, near Hotel El Presidente. [24°06'N. 110°20'40"W]. May 14-16, 1984. **J E Becvar, s.n.**. Ex Herb. UTEP. /// The University of Texas Herbarium, Systematic Revision of Phaseolus. *Phaseolus filiformis* Benth., Alfonso Delgado S. 1985. /// code barre University of Texas – Austin (LL, TEX) 00273148. /// DGD: *filiformis*, deux plantes entière avec racines fibreuses herbacées pivotantes, 2+5 racèmes, en floraison, go verte, go sèches. [TEX; 15-VIII-2008].

UCR81118. /// Rancho Santa Ana Botanic Garden. Plants of **Baja California Sur**, Mexico. Fabaceae. *Phaseolus filiformis* Benth. Vizcaino Desert, coastal terraces and hills near El Playon, 3 air mi. NW of Bahia Tortugas, 4.3 mi. W of road to Punta Eugenia. [27° 44'N, 114° 58'40"W]. Mostly barren hills w/ sparse stands of *Pachycormus*, *Fouqueria*. Elev. 0-25 m. Annual with twining stems, fls light blue. Common. **Steve Boyd 3375**, Tim Ross, Laurel Arnseth. 22 April 1989 [22 avril 1989]. /// Specimen data entered into UCR database. /// DGD: *filiformis*, 4 racèmes, en floraison, jgo, go vertes, une plante en rosette avec racine pivotante, hétérophylie. [UCR; 19-VIII-2014].

F2156822. Rancho Santa Ana Botanic Garden. Plants of **Baja California Sur**, Mexico. Fabaceae. *Phaseolus filifolius* [sic!] Benth. Arroyo San Bruno, SE of Santa Rosalia, 4.8 mi W of Hwy 1 on rd to San José de Magdalena. Near 27 deg 4'N, 112 deg 12'W [27°04'N. 112°12'W]. Elev. 400 m. steep sided cyn w/ *Olneya*, *Lysiloma*, *Acacia*, *Ruellia*, *Pachycereus*, *Cercidium*, *Fouquieria diguetii* on slopes above cyn. Common annual vine. **Steve Boyd 5808**, **Tim Ross**. April 3, 1991. /// DGD: *filiformis*, 12 racèmes, en floraison, jgo, go vertes, go sèches, graines. [F; 31-VII-2004].

UC137608. Flora of Lower California. *Phaseolus filiformis* Benth.. [**Mexico, Baja California Sur**], Sierra de La Laguna. [23°36'N. 113°00'W]. **TS Brandegee**. Oct. 2, 1899 [2 octobre 1899]. [pas de numéro de collecte !]. /// *Phaseolus filiformis* Benth., det. GF Freytag 22 Mar 1985. /// DGD: *filiformis*, 1 plante avec racine fibreuse herbacée, en rosette, en go sèches, 12 racèmes. [UC; 23-X-2003].

UC137609. Flora of Lower California. *Phaseolus filiformis* Benth.. La Chuparosa. **TS Brandegee**. Oct. 17, 1893. [pas de numéro de collecte !]. /// *Phaseolus filiformis* Benth., det. GF Freytag, 22 Mar 1985. /// DGD: *filiformis*, 2 plantes avec racine fibreuse, développement hétéroblastique, en floraison, jgo, go vertes, 6 racèmes. [UC; 23-X-2003].

Flora of Lower California [**Mexico, Baja California Sur**]. *Phaseolus filiformis* Benth. Magdalena Island. [24°56'N. 112°14'W]. **T S Brandegee**. Jan 22, 1889. /// Herbarium of Academy of Natural Sciences, Philadelphia. *Phaseolus filiformis* Benth.. /// DGD: *filiformis*, 3 jeunes plantes avec racines fibreuses pivotantes, en floraison, j go, go vertes, 3+4+3 racèmes. [PH; 11-IX-2007].

UC82393. Flora of Lower California. *Phaseolus filiformis* Benth.. [**Mexico, Baja California Sur**], Magdalena Island. [24°56'N. 112°14'W]. **TS Brandegee**. Jan 13, 1889. [pas de numéro de collecte !]. /// *Phaseolus filiformis* Benth., det. GF Freytag, 22 Mar 1985. /// DGD: *filiformis*, 1 plante, 2 racèmes, en floraison, net développement hétéroblastique. [UC; 23-X-2003].

US2311756. Flora of Lower California. [**Baja California Sur**]. *Phaseolus filiformis* Benth.. Magdalena Island. [24°56'N. 112°14'W]. **TS Brandegee**. Jan 22, 1889 [22 janvier 1889]. /// United States National Herbarium. *Phaseolus filiformis* Benth., det. James Lackey, Jan 1980. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 11 Aug 1984. /// DGD: *filiformis*, 4 racèmes, en floraison, go vertes avec stries violettes, hétérophylie; pas de numéro de collecte. [x2]. [US; 1-IX-2009].

UC82391. Flora of Lower California. *Phaseolus filiformis* Benth.. [Mexico, Baja California Sur], Boca de Santo Domingo. [25°30'N. 112°05'W]. TS Brandegee. Jan 29, 1889. [pas de numéro de collecte !]. /// *Phaseolus filiformis* Benth., det. GF Freytag, 22 Mar 1985. /// DGD: *filiformis*, 3 racèmes, en go vertes, go sèches, folioles peu lobées; exemplaire mal pressé ! [UC; 23-X-2003].

UC82392. Flora of Lower California. *Phaseolus filiformis* Benth.. [Mexico, Baja California Sur], Santa Margarita Island. [24°28'N. 111°50'W]. TS Brandegee. March 27, 1889. [pas de numéro de collecte !]. /// *Phaseolus filiformis* Benth., det. GF Freytag 22 Mar 1985. /// DGD: *filiformis*, 2 plantes entremêlées, racines fibreuses, 6 racèmes, en floraison, go verte, folioles très étroites. [UC; 23-X-2003].

Plants of Baja California [Sur], Mexico. Viscaino Desert. *Phaseolus filiformis* Benth., determined by HSG. Northeast of Scammon's Lagoon [Laguna Ojo de Liebre]. [27°43'N. 114°19'W], between 2 and 18 miles of shore and highway. At sea level, dunes. March 17, 1978 [17 mars 1978]. Dave Brown s.n. /// DGD: *filiformis*, en floraison, en go vertes. [DES; 11-II-1979].

Desierto Vizcaino. Plantas de México: Baja California Sur. Herbario Nacional de México. Instituto de Biología (MEXU). *Phaseolus filiformis* [sic!] Benth.. Altit: 80 msnm. Mpio Mulegé. Loc: Vizcaino – Arroyo San José de Castro. [27°38'N. 114°20'W]. Hierba anual. Veg: circundante, matorral subinerme, vegetación halófila. Suelo arcilloso – arenoso. En potrero. Junio 26 de 1983. Col. Jorge Cancino Hernández # 31. Det. R.S. Felger, 1983. /// DGD: *filiformis*, 4 plantes en rosette, 2-3 racèmes/ plante, en go sèches. [ENCB; 23-IX-2004].

MO3464395. Desierto Vizcaino. Plantas de México. Baja California Sur. Herbario Nacional de México (MEXU). *Phaseolus filiformis* Benth.. Alt. 80 m. Mpio Mulegé. Loc: Desierto Vizcaino – Arroyo San José de Castro. [27°38'N. 114°20'W]. Hierba anual. Veg. circundante matorral subinerme, veg. halofila. Suelo arcilloso-arenoso, en potrero. Junio 26 de 1983. Col. Jorge Cancino Hernández # 31. det. RS Felger, 1983. /// DGD: *filiformis*, en go vertes, go sèches. [MO; 7-VI-2002].

Plantas de México. Baja California Sur. Instituto de Biología. Herbario Nacional (MEXU). *Phaseolus filiformis* Benth.. Loc: Desierto de Vizcaino, Mpio Mulegé. Hierba annual. Matorral halófito. Suelo arenoso. Col. Jorge Cancino 106. 25 de mayo de 1984. /// code barre University of Texas – Austin (LL, TEX) 00273127. /// DGD: *filiformis*, une plante entière en rosette, racine fibreuse herbacée pivotante diamètre 3.5 mm, 5 racèmes, en floraison, j go , forte hétérophylie. [TEX; 15-VIII-2008].

Duke University Herbarium. 201454. /// Plants of Baja California, Mexico. Distrito del Sur. *Phaseolus filiformis* Benth., det. OW Norvell, 1951. Decumbent to semi-erect, banner dull grayish pink, wings lavender-pink. *Lysiloma* association, volcanic rock, canyon west of Bahía de La Concepción, 40.6 km south of Mulegé. [26°37'N. 111°50'W]. Annetta Carter 1989, Annie M Alexander, Louise Kellog. November 17 1947. Herbarium of the University of California. /// DGD: *filiformis*, deux plantes entières avec racine fibreuse pivotante, 5+3 racèmes, en floraison, jgo, go sèches, graines, hétérophylie. [DUKE; 15-VIII-2011].

MO1973377. Plants of Baja California, Mexico. Distrito del Sur. *Phaseolus filiformis* Benth., det. OW Norvell, 1951. Decumbent to semi-erect, banner dull grayish pink, wings lavender pink. *Lysiloma* association, volcanic rock, canyon west of Bahía de La Concepción, 40.6 km south of Mulegé. [26°37'N. 111°50'W]. Annetta Carter 1989, Annie M Alexander, Louise Kellog. November 17 1947. Herbarium of the University of California. /// The University of Texas Herbarium, Systematic Revision of *Phaseolus*. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Jun 23 1986. /// DGD: *filiformis*, 2 plantes, 6+6 racèmes, en floraison, jgo, go sèches. [MO; 7-VI-2002].

271136. /// Plants of Baja California, Mexico. Distrito del Sur. *Phaseolus filiformis* Benth., det. OW Norvell, 1951. Decumbent to semi-erect, banner dull grayish pink, wings lavender pink. *Lysiloma* association,

volcanic rock, canyon west of Bahía de La Concepción, 40.6 km south of Mulegé. [26°37'N. 111°50'W]. [Annetta Carter 1989](#), Annie M Alexander, Louise Kellog. November 17 1947. Herbarium of the University of California. /// The University of Texas Herbarium, Systematic Revision of Phaseolus. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, May 25 1988. /// code barre University of Texas – Austin (LL, TEX) 00273133. /// DGD: *filiformis*, deux jeunes plantes en rosette avec raciness herbacées pivotantes, 3+5 racèmes, en floraison, j go, go vertes, go sèche, forte hétérophylie. [TEX; 15-VIII-2008].

UC1348049. Plants of [Baja California](#), Mexico, Distrito del [Sur](#). *Phaseolus filiformis* Benth., det. OW Norvell, 1951. Decumbent to semi-erect; banner dull grayish pink, wings lavender-pink. *Lysiloma* association, volcanic rock; canyon west of Bahía de La Concepción, 40.6 km south of Mulegé. [26°37'N. 111°50'W]. [Annetta Carter 1989](#), [Annie M Alexander](#), [Louise Kellog](#). November 17, 1947. Herbarium of the University of California. /// DGD: *filiformis*, 2 plantes en rosette avec racine pivotante, 2+5 racèmes, en floraison, jgo, go vertes, go sèches, développement hétéroblastique. [UC; 24-X-2003].

MEXU116626. Plants of [Baja California](#), Mexico. Distrito del [Sur](#). *Phaseolus filiformis* Benth. Arroyo Hondo, north side of Cerro de la Giganta. 26°10'N. 111°35'W. Prostrate annual, corolla lavender, sandy basin below tinaja, bottom and sides of narrow rocky canyon. Alt. ca 630 m. [A Carter 2063](#), [A M Alexander](#), [L Kellogg](#). November 27, 1947. /// DGD: *filiformis*, en floraison, en go vertes. [MEXU; VI-1988].

Plants of [Baja California](#), Mexico. Distrito del [Sur](#). *Phaseolus filiformis* Benth. Arroyo Hondo, north side of Cerro de la Giganta. 26°10'N. 111°35'W. Prostrate annual, corolla lavender, sandy basin below tinaja, bottom and sides of narrow rocky canyon. Alt. ca 630 m. [A Carter 2063](#), [A M Alexander](#), [L Kellogg](#). November 27, 1947. /// DGD: *filiformis*, en go vertes. [MSC; 29-VI-1988].

271133. /// Plants of [Baja California](#), Mexico, Distrito del [Sur](#). *Phaseolus filiformis* Benth., det. OW Norvell, 1951. Prostrate annual, corolla lavender, sandy basin below “Tinaja”. Bottom and sides of narrow, rocky canyon, altitude ca 630 m. Arroyo Hondo, north side of Cerro de La Giganta. Lat. ca 26° 10'N. Long. 111° 35'W. [Annetta Carter 2063](#), Annie M Alexander, Louise Kellog. November 27, 1947. Herbarium of the University of California. /// The University of Texas Herbarium, Systematic Revision of Phaseolus. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F Freytag, May 25, 1988. /// code barre University of Texas – Austin (LL, TEX) 00273131. /// DGD: *filiformis*, 6 racèmes, en floraison, j go, j go en transition à go vertes, go verte, go sèche, forte hétérophylie, belle plante en rosette avec racine herbacée pivotante. [TEX; 15-VIII-2008].

UC1348044. Plants of [Baja California](#), Mexico, Distrito del [Sur](#). *Phaseolus filiformis* Benth., det. OW Norvell, 1951. Prostrate annual, corolla lavender, sandy basin below “Tinaja”. Bottom and sides of narrow, rocky canyon, altitude ca 630 m. Arroyo Hondo, north side of Cerro de La Giganta. Lat. ca 26° 10'N. Long. 111° 35'W. [Annetta Carter 2063](#), [Annie M Alexander](#), [Louise Kellog](#). November 27, 1947. Herbarium of the University of California. /// DGD: *filiformis*, une plante à racine pivotante, 4 racèmes, en jgo, go vertes, développement hétéroblastique. [UC; 24-X-2003].

F1680070. Plants of [Baja California](#), Mexico. Distrito del [Sur](#). *Phaseolus filiformis* Benth., det. OW Norvell, 1951. trailing vine, banner and wings pink, keel greenish. On steep northwest-facing slope with *Jatropha* and *Lemaireocereus thurberi*. steep northwest-facing slope in canyon 14.4 km southwest of Comondú. [25°59'N. 111°54'W]. [Annetta Carter 2121 with Annie M Alexander](#), [Louise Kellog](#). December 4, 1947. Herbarium of the University of California. /// The University of Texas Herbarium, Systematic Revision of Phaseolus. *Phaseolus filiformis* Benth., Alfonso Delgado Salinas, 1985. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Jan 12, 1987. /// DGD: *filiformis*, en floraison, jgo, go vertes, 4 racèmes. [F; 31-VII-2004].

Annetta Carter 2121. Plants of [Baja California](#), Mexico, Distrito del [Sur](#). *Phaseolus filiformis* Benth., det. O.W. Norvell 1951. Trailing vine, banner and wings pink, keel greenish; on steep northwest facing slope with *Jatropha* and *Lemaicereus thurberi*; steep northwest facing slope in canyon, 14.4 Km southwest of Comondú. [25°59'N. 111°54'W]. December 4 1947. Herbarium of the University of California. /// DGD: *filiformis*, début floraison. [G; 12-II-2002].

UC1348048. Plants of [Baja California](#), Mexico, Distrito del [Sur](#). *Phaseolus filiformis* Benth., det. OW Norvell, 1951. Trailing vine, banner and wings pink, keel greenish. On steep north-west facing slope with *Jatropha* and *Lemaireocereus thurberi*. Steep north-west facing slope [sic!], in canyon 14.4 km southwest of Comondú. [25°59'N. 111°54'W]. [Annetta Carter 2121](#), [Annie M Alexander](#), [Louise Kellog](#). December 4, 1947. Herbarium of the University of California. /// DGD: *filiformis*, 8 racèmes, en floraison, jgo, go vertes. [UC; 24-X-2003].

MEXU116678. Plants of [Baja California](#), Mexico, Distrito del [Sur](#). *Phaseolus filiformis* Benth., det. OW Norvell, 1951. Trailing vine, corolla rose pink. *Larrea*, *Jatropha*, *Pachycereus*, *Machaerocereus gunmosus* and *Opuntia cholla* association; Llano de Magdalena, 4.5 km north of Pozo Grande. [25°50'N. 112°04'W]. [Annetta Carter 2130](#), [Annie M Alexander](#), [Louise Kellog](#). December 6, 1947. Herbarium of the University of California. /// DGD: *filiformis*, en floraison, en go vertes [MEXU; VII-1978].

UC1348047. Plants of [Baja California](#), Mexico, Distrito del [Sur](#). *Phaseolus filiformis* Benth., det. OW Norvell, 1951. Trailing vine, corolla rose pink. *Larrea*, *Jatropha*, *Pachycereus*, *Machaerocereus gunmosus* and *Opuntia cholla* association; Llano de Magdalena, 4.5 km north of Pozo Grande. [25°50'N. 112°04'W]. [Annetta Carter 2130](#), [Annie M Alexander](#), [Louise Kellog](#). December 6, 1947. Herbarium of the University of California. /// DGD: *filiformis*, 1 plante en rosette avec racine pivotante, 6 racèmes, en floraison, go verte, net développement hétéroblastique. [UC; 24-X-2003].

LIL509883. [A Carter](#), [AM Alexander](#), [L Kellog](#) 2488. *Phaseolus filiformis* Benth. Mexico, [Baja California Sur](#), E of San Juanico Bay, 48 km NW of La Purísima. [26°16'N. 112°28'W]. January 6, 1948 [6 janvier 1948]. /// DGD: *filiformis*, en go sèches. [LIL; 1-IV-1985].

Lundell Herbarium. /// Plants of [Baja California](#), Mexico. Distrito del [Sur](#). *Phaseolus filiformis* Benth., depauperate [sic!]. det. O.V. [sic!] Norvell, 1951. Trailing vine, standard pinkish-rose inside, light purplish rose on back, wings pinkish rose, keel dull purplish rose coiled greenish yellow at tip. With *Fouquieira* and *Jatropha cinerea*; broad sandy arroyo, east side of San Juanico Bay 48 km northwest of La Purísima. [26°16'N. 112°28'W]. [Annetta Carter 2488](#), [Annie M Alexander](#), [Louise Kellog](#). January 6, 1948. Herbarium of the University of California. /// Treated in 1968 with lauryl pentachlorophenate ! /// The University of Texas Herbarium, Systematic Revision of *Phaseolus*. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F Freytag, May 25, 1988. /// code barre University of Texas – Austin (LL, TEX) 00273130. /// DGD: *filiformis*, 5 racèmes, en floraison, j go, j go en transition à go vertes, go vertes, go sèche, folioles petites et profondément lobées, spécimen pauvre. [LL; 15-VIII-2008].

MEXU116625. Plants of [Baja California](#), Mexico. Distrito del [Sur](#). *Phaseolus filiformis* Benth. Trailing vine, standard pinkish-rose inside, light purplish rose on back, wings pinkish rose, keel dull purplish rose coiled greenish yellow at tip. With *Fouquieira* and *Jatropha cinerea*; broad sandy arroyo, east side of San Juanico Bay, 48 km northwest of La Purísima. [26°16'N. 112°28'W]. [A Carter 2488](#), [A M Alexander](#), [L Kellogg](#). January 6, 1948. /// DGD: *filiformis*, en floraison, en go vertes. [MEXU; VII-1978].

Plants of [Baja California](#), Mexico. Distrito del [Sur](#). *Phaseolus filiformis* Benth. Trailing vine, standard pinkish-rose inside, light purplish rose on back, wings pinkish rose, keel dull purplish rose coiled greenish yellow at tip. With *Fouquieira* and *Jatropha cinerea*; broad sandy arroyo, east side of San Juanico Bay, 48

km northwest of La Purísima. [26°16'N. 112°28'W]. [A Carter 2488](#), [A M Alexander](#), [L Kellogg](#). January 6, 1948 [6 janvier 1948]. /// DGD: *filiformis*, en floraison. [MSC; 29-VI-1988].

UC1348045. Plants of [Baja California](#), Mexico. Distrito del [Sur](#). *Phaseolus filiformis* Benth. depauperate. det. O.V. Norvell [sic!], 1951. Trailing vine, standard pinkish-rose inside, light purplish rose on back, wings pinkish rose, keel dull purplish rose coiled greenish yellow at tip. With *Fouquieria* and *Jatropha cinerea*; broad sandy arroyo, east side of San Juanico Bay 48 km northwest of La Purísima. [26°16'N. 112°28'W]. [Annetta Carter 2488](#), [Annie M Alexander](#), [Louise Kellogg](#). January 6, 1948. Herbarium of the University of California. /// DGD: *filiformis*, en floraison, jgo, go vertes, 10 racèmes. [UC; 23-X-2003].

US2539864. Plants of [Baja California](#), Mexico. Distrito del [Sur](#). *Phaseolus filiformis* Benth., depauperate, det. O.W. Norvell, 1951. Trailing vine; standard pinkish-rose inside, light purplish-rose on back, wings pinkish-rose, keel dull purplish-rose, coiled, greenish-yellow at tip. With *Fouquieria* and *Jatropha cinerea*; broad, sandy arroyo, east side of San Juanico Bay, 48 km northwest of La Purísima. [26°16'N. 112°28'W]. [Annetta Carter 2488](#), [Annie M Alexander](#), [Louise Kellogg](#). January 6, 1948. Herbarium of the University of California. /// United States National Herbarium. *Phaseolus filiformis* Benth., det. James Lackey, Jan 1980. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 1 Apr 1985. /// DGD: *filiformis*, 4 racèmes, en floraison, jgo, go verte, go sèche, tiges grêles volubiles, forte hétérophylie. [US; 2-IX-2009].

UC1348046. [Baja California Sur](#), Mexico. Isla Carmen. *Phaseolus filiformis* Benth.. flowers pink. Abundant on north-facing slopes. With *Bursera microphylla*, *Jatropha cuneata*, *Lemaireocereus thurberi*, some *Pachycereus pringlei*; north-facing rocky slope near shore, Puerto Balandra. Lat. ca 26° 5' N. Long. 111° 10.5' W. [Annetta Carter](#), [Roxana Ferris 3759](#). 11 March 1960 [11 mars 1960]. Herbarium of the University of California and the Dudley Herbarium of Stanford University. /// California Academy of Sciences, Botanical Explorations in Baja California sponsored by the Belvedere Scientific Fund. /// DGD: *filiformis*, comme 'best guess' car fleurs un peu plus petites et folioles latérales lobées comme chez *purpusii* !, 8 racèmes, en floraison, jgo, go vertes, go sèches, les graines sont celles d'un *Rugosi*. [UC; 24-X-2003].

US2539865. [Baja California Sur](#), Mexico. Isla Carmen. *Phaseolus filiformis* Benth.. Flowers pink. Abundant on north-facing slopes. With *Bursera microphylla*, *Jatropha cuneata*, *Lemaireocereus thurberi*, some *Pachycereus pringlei*; north-facing rocky slope near shore, Puerto Balandra. Lat. ca. 26° .5' N, long. 111° 10.5' W. [Annetta Carter 3759](#), [Roxana Ferris](#). 11 March 1960. Herbarium of the University of California and the Dudley Herbarium, Stanford University. /// California Academy of Sciences. Botanical Explorations in Baja California, sponsored by the Belvedere Scientific Fund. /// United States National Herbarium. *Phaseolus filiformis* Benth., det. James Lackey, Jan 1980. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 14 Aug 1984. /// DGD: *filiformis*, 8 racèmes, en floraison, jgo, jgo en transition à go vertes, go vertes, go sèche, tiges grêles volubiles, qq folioles aux lobes très marqués. [US; 1-IX-2009].

MO1973376. [Baja California Sur](#), Mexico. Sierra de La Giganta. *Phaseolus filiformis* Benth.. Trailing vine, flowers flesh to deep rose, pods with brownish markings. With *Lysiloma candida*, *Mimosa purpurascens*, *Bursera microphylla*, *Sapium biloculare*, *Jatropha cuneata*, *Pachycereus pringlei*, *Ruellia peninsularis*; open flat above bed of Arroyo Volqueco east of Rancho El Horno (northeast of San Javier). Alt. ca 600 m. Lat. ca 25° 54.5' N. Long. 111° 31' W. [Annetta Carter & Roxana Ferris 3848](#). 16 March 1960. /// The University of Texas Herbarium, Systematic Revision of *Phaseolus*. *Phaseolus filiformis* Benth., Alfonso Delgado S. 1985. /// TARS, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Jun 23 1986. /// DGD: *filiformis*, plus de 10 racèmes, en floraison, go vertes, go sèches, 4 gr/ go. [MO; 7-VI-2002].

UC1348041. [Baja California Sur](#), Mexico. Sierra de La Giganta. *Phaseolus filiformis* Benth.. Trailing vine; flowers flesh to deep rose; pods with brownish markings. With *Lysiloma candida*, *Mimosa purpurascens*, *Bursera microphylla*, *Sapium biloculare*, *Jatropha cuneata*, *Pachycereus pringlei*, *Ruellia peninsularis*; open flat above bed of Arroyo Volqueco, east of Rancho El Horno (northeast of San Javier). Altitude ca 600 m.

Lat. ca 25° 54.5'N. Long. 111° 31'W. [Annetta Carter 3848](#), [Roxana Ferris](#). 16 March 1960. Herbarium of the University of California and the Dudley Herbarium of Stanford University. /// California Academy of Sciences, Botanical Explorations in Baja California sponsored by the Belvedere Scientific Fund. /// DGD: *filiformis*, 1 plante en rosette avec racine pivotante diam. 3-5 mm, 6 racèmes, en floraison, jgo, go vertes, go sèches, développement hétéroblastique. [UC; 24-X-2003].

[Baja California Sur](#), Mexico. Sierra de La Giganta. *Phaseolus filiformis* Benth.. Annual vine, flowers pink, south-facing steep slope ridges and mesas northwest of Portezuelo de la Cuesta de los Dolores (westerly from the north end of Isla de San José). Altitude ca 700 m, ca Lat. 25° 07'N. Long. 110° 57-58'W. [Annetta Carter 4792](#). 19 October 1964. Herbarium of the University of California, Berkeley. /// DGD: *filiformis*, 3 racèmes, en floraison, j go, go verte, base de la plante pivotante herbacée. [BM; 9-VIII-1985].

UC1348040. [Baja California Sur](#), Mexico. Sierra de La Giganta. *Phaseolus filiformis* Benth.. Annual vine, flowers pink, south-facing steep slope ridges and mesas northwest of Portezuelo de la Cuesta de los Dolores (westerly from the north end of Isla de San José). Altitude ca 700 m, ca Lat. 25° 07'N. Long. 110° 57-58'W. [Annetta Carter 4792](#). 19 October 1964. Herbarium of the University of California, Berkeley. /// California Academy of Sciences, Botanical Explorations in Baja California sponsored by the Belvedere Scientific Fund. /// DGD: *filiformis*, 6 racèmes, en floraison, jgo, go vertes, développement hétéroblastique. [UC; 24-X-2003].

UC1348042. [Baja California Sur](#), Mexico. Sierra de La Giganta. *Phaseolus filiformis* Benth.. Spreading annual, flowers deep pink. Mesa de San Gerónimo, northerly from Rancho Viejo (on road from Loreto to San Javier). altitude ca 1020 m. ca Lat. ca 25° 58' - 26° N Long. 111° 32.5' - 34'W. [Annetta Carter 5020](#). 22 September 1965. Herbarium of the University of California, Berkeley. /// DGD: *filiformis*, 2 plantes à racine pivotante, une encore avec ses éophylles cordiformes, 3+5 racèmes, en floraison, jgo, go vertes, développement hétéroblastique. [UC; 24-X-2003].

UC1348043. [Baja California Sur](#), Mexico. Sierra de La Giganta. *Phaseolus filiformis* Benth.. Spreading vine; banner erect, lavender-pink wings, spreading, the deeper lavender coiled. Small meadow like flat on west facing slope near summit of Cerro Teombó, north of Portezuelo Gabilán [sic!]. altitude ca 1080 m. ca Lat. ca 25° 51'N. Long. 111° 25'W. [Annetta Carter 5072](#). 1 October 1965 [1^{er} octobre 1965]. Herbarium of the University of California, Berkeley. /// DGD: *filiformis*, une plante à racine pivotante en rosette, 8 racèmes, en floraison, jgo, go vertes, go sèches, graines, développement hétéroblastique. [UC; 24-X-2003].

US2539863. [Baja California Sur](#), Mexico. Sierra de La Giganta. *Phaseolus filiformis* Benth.. Spreading vine; banner erect, lavender-pink wings, spreading, the deeper lavender coiled. Small meadow like flat on west facing slope near summit of Cerro Teombó, north of Portezuelo Gabilán [sic!]. altitude ca. 1080 m. ca Lat. ca 25° 51'N. Long. 111° 25'W. [Annetta Carter 5072](#). 1 October 1965. Herbarium of the University of California, Berkeley. /// Collector's note. Cerro Teombó is comprised of two jagged peaks connected by a knife-edge ridge. The south and east faces are precipitous to vertical. The west side is comprised of a mesa-like ridge, steep at the higher elevations and sloping gradually lower down. Near the summit (1,100 m) are: *Hechtia montana*, *Pithecolobium confine*, *Bursera epinnata*, *Bernardia*, *Jatropha vernicosa*, *Karwinskia humboldtiana*, *Opuntia ciribe*, *Lemaireocereus thurberi*, *Pachycereus*, *Alvordia*, and *Viguiera*. /// California Academy of Sciences. Botanical explorations in Baja California. Sponsored by the Belvedere Scientific Fund. /// United States National Herbarium. *Phaseolus filiformis* Benth., det. James Lackey, Jan 1980. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 17 Aug 1984. /// DGD: *filiformis*, 9 racèmes, en floraison, jgo, go vertes, une plante entière avec racine herbacée pivotante et tiges grêles, hétérophylie. [US; 1-IX-2009].

[Baja California Sur](#), Mexico. Sierra de La Giganta. *Phaseolus filiformis* Benth.. Plants annual, spreading over rock in moist arroyo bottom, flowers rosy pink. With *Acacia brandegeana*, *A. peninsularis*, *Olnya tesota*, *Sabium biloculare*. Cañón de San Telmo, 8 km west of Loreto on road to San Javier. Altitude ca 100 m, ca Lat. 25° 59'N Long. 111° 25'W. [Annetta Carter 5930](#). 14 November 1977. Herbarium of the University of California, Berkeley. /// Herbarium of the University of California, Berkeley. Collector's note: see "Seedhead

News” 8: 6 (winter) 1984. re resistance of this species to golden or yellow mosaic disease and results of hybridization of seeds from this collection with *Phaseolus vulgaris*. Published by Native Seeds/ SEARCH 3959 w New York Dr Tucson, Az 85745 /// DGD: *filiformis*, 8 racèmes, en floraison, jgo, go vertes, go sèches; le petit article de GP Nabhan sur l’usage de cette collecte est collé en haut à gauche. [BM; 19-XII-2006].

Baja California Sur, Mexico. Sierra de la Giganta. *Phaseolus filiformis* Benth.. Plants annual, spreading over rock in moist arroyo bottom, flowers rosy pink. With *Acacia brandegeana*, *A. peninsularis*, *Olneya tesota*, *Sabium biloculare*. Cañón de San Telmo, 8 km west of Loreto on road to San Javier. Altitude ca 100 m, ca Lat. 25° 59’N, Long. 111° 25’W. [Annetta Carter 5930](#). 14 November 1977. Herbarium of the University of California, Berkeley. /// Grown at CIAT facilities [cachet à l’encre bleue]. /// DGD: *filiformis*, 10 racèmes, en floraison, jgo, go vertes, go sèche, graines; rangé dans les grands formats, carton sans le cachet de Kew. [K; 2-III-2018].

MO3526020. **Baja California Sur**, Mexico. Sierra de La Giganta. *Phaseolus filiformis* Benth.. Plants annual spreading over rocks in moist arroyo bottom, flowers rosy pink with *Acacia brandegeana*, *A. peninsularis*, *Olneya tesota*, *Sabium biloculare*. Cañón de San Telmo, 8 km W of Loreto on road to San Javier. Alt. ca 100 m. ca Lat. 25° 59’N long. 111° 25’W. [Annetta Carter 5930](#). 14 november 1977 [14 novembre 1977]. /// DGD: *filiformis*, plus de 5 racèmes, en floraison, jgo, go vertes, 4 gr/ go. [MO; 7-VI-2002].

Baja California Sur, Mexico. Sierra de La Giganta. *Phaseolus filiformis* Benth.. Plants annual, spreading over rock in moist arroyo bottom, flowers rosy pink. With *Acacia brandegeana*, *A. peninsularis*, *Olneya tesota*, *Sabium biloculare*. Canon [sic !] de San Telmo, 8 km west of Loreto on road to San Javier. Altitude ca 100 m, ca Lat. 25° 59’N, Long. 111° 25’W. [Annetta Carter 5930](#). 14 November 1977. Herbarium of the University of California, Berkeley. /// Herbarium of the University of California, Berkeley. Collector’s note: see “Seedhead News” 8: 6 (Winter) 1984 re resistance of this species to golden or yellow mosaic disease and results of hybridization of seeds from this collection with *Phaseolus vulgaris*. Published by Native Seeds/ SEARCH 3950 W. New York Dr., Tucson, AZ 85745. /// DGD: *filiformis*, 5 racèmes, en floraison, go vertes, go sèches, graines; le petit article de GP Nabhan sur l’usage de cette collecte est collé dans le coin supérieur gauche de la planche. [NY; 19-II-2014].

UC1560507. **Baja California Sur**, Mexico. Sierra de La Giganta. *Phaseolus filiformis* Benth.. Plants annual, spreading over rock in moist arroyo bottom, flowers rosy pink. With *Acacia brandegeana*, *A. peninsularis*, *Olneya tesota*, *Sabium biloculare*. Cañón de San Telmo, 8 km west of Loreto on road to San Javier. Altitude ca 100 m, ca Lat. 25° 59’N Long. 110° 25’W. [Annetta Carter 5930](#). 14 November 1977. Herbarium of the University of California, Berkeley. /// DGD: *filiformis*, 1 plante en rosette avec racine pivotante, 8 racèmes, en floraison, jgo, go vertes, go sèches, fort développement hétéroblastique; copie de l’article de Gary Paul Nabhan dans la pochette + graines. [UC; 24-X-2003].

US3244568. **Baja California Sur**, Mexico. Sierra de La Giganta. *Phaseolus filiformis* Benth.. Plants annual, spreading over rock in moist arroyo bottom, flowers rosy pink. With *Acacia brandegeana*, *A. peninsularis*, *Olneya tesota*, *Sabium biloculare*. Canon [sic !] de San Telmo, 8 km west of Loreto on road to San Javier. Altitude ca 100 m, ca Lat. 25° 59’N, Long. 111° 25’W. [Annetta Carter 5930](#). 14 November 1977. Herbarium of the University of California, Berkeley. /// Herbarium of the University of California, Berkeley. Collector’s note: see “Seedhead News” 8: 6 (Winter 1984 re resistance of this species to golden or yellow mosaic disease and results of hybridization of seeds from this collection with *Phaseolus vulgaris*. Published by Native Seeds/ SEARCH 3959 W. New York Dr. Tucson, AZ 85745. /// DGD: *filiformis*, 10 racèmes, en floraison, jgo, go vertes, go sèches, graines; le petit article de GP Nabhan sur l’usage de cette collecte est collé dans le coin supérieur gauche de la planche. [US; 1-IX-2009].

IBUG35142. Universidad de Guadalajara, Instituto de Botánica, Jalisco, México. Plantas mexicanas. *Phaseolus*. Fam. Leguminosae. 30 km al NW de La Paz. Edo. **Baja California Sur**. Fecha 5/III/1980. Campos

de cultivo. Col. [VM Castillo Girón](#) [pas de numéro de collecte]. /// *P. aff. filiformis* Benth. L.M.V. de Puga, 30/IX/1982 [écrit au crayon noir sur la planche]. /// *Phaseolus filiformis* Benth., det. Alfonso Delgado S. 1986. /// DGD: *filiformis*, 4 racèmes, en floraison, jgo, go vertes, go sèche, folioles étroites très petites lobées. [IBUG; 30-X-2003].

UCR42207. /// Herbarium of the University of California, Riverside. Plants of [Baja California Sur](#), Mexico. *Phaseolus filiformis* Benth. Flora of the San Francisco Mountains. Rare roadside plant collected 10 miles west of rancho San Francisco on basalt Capped highlands, east of Guerrero Negro and Scammon's lagoon Viscaino Desert, common plants included: *Lemareocereus*, *Lophocereus schottii*, *Calliandra californica*, *Echinocereus brandegii*, *Yucca valida*, *Plantago*. Date March 29, 1986 [29 mars 1986]. [27° 28'N, 113° 13'W]. Alt. 5000 ft. [1,524 m]. Coll. [David Charlton](#). No. 94. /// Specimen data entered into UCR database. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F Freytag, Apr 6 1992. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 4 racèmes, en floraison, go verte, une plante en rosette avec racine pivotante. [UCR; 19-VIII-2014].

124746. Herbarium. Arizona State University. /// Specimen entered in ASU Database. /// ASU Vascular Plant Herbarium. Specimen Image Number, puis code barre ASU0024511. /// Plants of Mexico. Herbarium of Arizona State University. [espace laissé blanc pour le nom de l'espèce]. [Baja California Sur](#): rocky hillsides above Playa El Coyote on W side of Bahia Concepcion, 18.5 mi. S of Mulege. With *Rhizophora*, *Stegnosperma*, *Lycium*, and *Maytenus* on beach and *Bursera*, *Lysiloma*, *Ruellia*, and *Stenocereus* on the hillsides. Vine-like herb; corolla purplish; only plant seen. 8 January 1982 [8 janvier 1982]. [TF Daniel 1923](#). /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Dec 2 1991. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 3 racèmes, en floraison, une petite plante avec racine herbacée pivotante. [ASU; 24-IX-2015].

128039. Herbarium. Arizona State University. /// Specimen entered in ASU Database. /// ASU Vascular Plant Herbarium. Specimen Image Number, puis code barre ASU0024524. /// Plants of Mexico. Arizona State University. *Phaseolus filiformis* Benth. [Baja California Sur](#): low hills 7.8 mi. S of Mulege along Hwy. 1 With *Pachycereus*, *Cercidium*, *Bursera*, *Lysiloma*, and *Fouquieria*. Elev. ca. 300 ft. [90 m]. Vine; corolla pinkish. 7 January 1983 [7 janvier 1983]. [TF Daniel 2378](#). /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 4 racèmes, en floraison, jgo, go verte, hétérophylie. [ASU; 25-IX-2015].

128100. Herbarium. Arizona State University. /// Specimen entered in ASU Database. /// ASU Vascular Plant Herbarium. Specimen Image Number, puis code barre ASU0024525. /// Plants of Mexico. Herbarium of Arizona State University. *Phaseolus filiformis* Benth. [Baja California Sur](#): Rancho El Coyote on W side of Bahia Concepción, 17.1 mi. S of Mulege. Desert hills with *Pachycereus*, *Lycium*, *Maytenus*, *Bursera*, *Lysiloma*, *Ruellia*, and *Stenocereus*. Elev. sea level to 200 ft. [0- 60 m]. Vine ; corolla pinkish. 7 January 1983 [7 janvier 1983]. [TF Daniel 2388](#). /// Third ASU Herbarium expedition to Baja California. Participants: M. Butterwick, T. Daniel, M. Gallagher, D. Keil, M. Mohlenbrock. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 5 racèmes, en floraison, jgo, go verte, hétérophylie. [ASU; 25-IX-2015].

F1286471. Hancock Pacific Expedition of 1940. Plants of Mexico. Gulf of Baja California region. *Phaseolus filiformis* Benth.. determined by HSG [Howard Scott Gentry]. Puerto Escondido, Baja California [[Baja California Sur](#)] [25°48'N. 111°19'W]. February 11 [11 février 1940]. Collected by [Dawson no. 1085](#). /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Jan 12, 1987. /// DGD: *filiformis*, 1 plante en rosette, semble-t-il à la reprise de croissance, 4 racèmes, en go sèches, plutôt 'scrappy'. [F; 31-VII-2004].

Herbario de la Escuela Nacional de Ciencias Biológicas. Instituto Politécnico Nacional, México, D.F.. Plantas Mexicanas. [CL Díaz Luna 4099](#). *Phaseolus filiformis* Benth., det. J. Rzedowski. Mexico, [Baja California Sur](#). Loc: El Coyote, 40 km al sur de Mulegé. [26°34'N. 111°48'W]. Hab: acantilados a la orilla del mar. Alt. 100 msnm. Observ: enredadera. 17 de abril de 1973. /// DGD: *filiformis*, en floraison, go vertes, 6 racèmes. [ENCB; 11-14-VII-1978].

MEXU183194. Plantas Mexicanas. [CL Díaz Luna 4099](#). *Phaseolus filiformis* Benth., det. J. Rzedowski. Mexico, [Baja California Sur](#). Loc: El Coyote, 40 km al sur de Mulegé. [26°34'N. 111°48'W]. Hab: acantilados a la orilla del mar. Alt. 100 msnm. Observ: enredadera. 17 de abril de 1973. /// DGD: *filiformis*, en floraison, en go vertes. [MEXU; VII-1978].

Herb. Mus. Paris. *Phaseolus*. Plantes de la Basse Californie [classé par erreur dans une farde 'Etats-Unis']. M Léon [Diguët](#). Reçu en Février 1893. /// DGD: *filiformis*, 2 plantes avec racine fibreuse herbacée pivotante, développement hétéroblastique, une fleur, très 'scrappy'. [P; 9-II-2004].

F1891153. Mexico. Field Museum of Natural History. [Baja California Sur](#). *Phaseolus filiformis* Benth. ca 16 mi SE of Guerrero Negro. [27°50'N. 113°45'W]. Alkaline flats dominated by *Frankenia palmeri*. Annual herb, flws purple. 26 Mar 1981 [26 mars 1981]. [Michael Dillon 1939 w/ E Rodríguez, J West, C Sternburg & M Behl](#). /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Jan 12, 1987. /// DGD: *filiformis*, en floraison, jgo, go vertes, plus de 12 racèmes, 1 plante en rosette avec racine fibreuse pivotante. [F; 31-VII-2004].

Mexico. Field Museum of Natural History. [Baja California Sur](#). *Phaseolus filiformis* Benth. Ca 16 mi SE of Guerrero Negro. Alkaline flats dominated by *Frankenia palmeri*. Annual herb, flws purple. 26 Mar 1981. [Michael Dillon 1939 w/ E Rodríguez, J West, C Sternburg & M Behl](#). /// DGD: *filiformis*, une plante entière en rosette avec racine herbacée pivotante, 6 racèmes, en floraison, go vertes, go sèche. [NY; 19-II-2014].

Mexico. Field Museum of Natural History. [Baja California Sur](#). *Phaseolus filiformis* Benth. ca 16 mi SE of Guerrero Negro. [27°50'N. 113°45'W]. Alkaline flats dominated by *Frankenia palmeri*. Annual herb, flws purple. 26 Mar 1981 [26 mars 1981]. [Michael Dillon 1939 w/ E Rodríguez, J West, C Sternburg & M Behl](#). /// code barre University of Texas – Austin (LL, TEX) 00418980. /// DGD: *filiformis*, 8 racèmes, en floraison, j go, j go en transition à go vertes, go vertes, go sèches, une grande plante en rosette avec racine herbacée pivotante diamètre 2.5 mm, forte hétérophylie et folioles dans partie supérieure profondément lobées. [TEX; 15-VIII-2008].

UCR29710. /// Mexico. Field Museum of Natural History. [Baja California Sur](#). *Phaseolus filiformis* Benth. Ca. 16 mi SE of Guerrero Negro. Alkaline flats dominated by *Frankenia palmeri*. Annual herb, flws. purple. 26 Mar 1981. [Michael Dillon 1939 w/ E Rodríguez, J West, C Sternburg & M Behl](#). /// Specimen data entered into UCR database. /// DGD: *filiformis*, 4 racèmes, en floraison, jgo, go vertes, une plante en rosette avec racine pivotante, hétérophylie. [UCR; 19-VIII-2014].

F1891122. Mexico. Field Museum of Natural History. [Baja California Sur](#). *Phaseolus filiformis* Benth. ca 14 mi S of Mulegé. [26°35'N. 111°48'W]. Hillsides around Bahia Concepción. Annual herb vining, flws purple to blue. 27 Mar 1981 [27 mars 1981]. [Michael Dillon 1962 w/ \[with\] E Rodríguez, J West, C Sternburg & M Behl](#). /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Jan 12, 1987. /// DGD: *filiformis*, 9 racèmes, en go vertes, go sèches. [F; 31-VII-2004].

Plantas de México. [Baja California Sur](#). Herbario Nacional de Mexico (MEXU). Instituto de Biología, UNAM. *Phaseolus filiformis* Benth., det. A. Delgado S. 1987. Loc: 2 km al NE de la Bahía la Amortajada. Isla San José. Alt. 300 msnm. 24 53 00 N, 110 37 00 W. Hierba trepadora, algo abundante, fl rosas, fr vainas

inmaduras. Ladera de cerros, rocoso, rojiza. Fecha: 12 Ene 1987 [12 janvier 1987]. Col. [Gabriel Flores F.](#) n°. 414. Bajo el Patrocinio de CONACyT. /// code barre University of Texas – Austin (LL, TEX) 00273124. /// DGD: *filiformis*, 7 racèmes, en floraison, j go, go vertes, go sèches, forte hétérophylie petit lobe rond externe à la base de certaines folioles latérales, tiges grêles. [TEX; 15-VIII-2008].

Plantas de México. [Baja California Sur](#). Herbario Nacional de Mexico (MEXU). Instituto de Biología, UNAM. *Phaseolus filiformis* Benth., det. A. Delgado S. 1987. Loc: Isla San José, a 2 km de la playa del lado O de la isla. Alt. 100 msnm. 25 00 00 N, 110 35 00 W. Hierba trepadora, abundante, fl rosas, fr vaina madura. Veg. matorral bajo espinoso, cañada. Fecha: 13 Ene 1987 [13 janvier 1987]. Col. [Gabriel Flores F.](#) n°. 435. Bajo el Patrocinio de CONACyT. /// code barre University of Texas – Austin (LL, TEX) 00273122. /// DGD: *filiformis*, plus de 10 racèmes, en floraison, j go, go vertes, go sèches, forte hétérophylie petit lobe rond externe à la base de certaines folioles latérales, tiges grêles et volubiles. [TEX; 15-VIII-2008].

Plantas de México. [Baja California Sur](#). Herbario Nacional de Mexico (MEXU). Instituto de Biología, UNAM. *Phaseolus filiformis* Benth., det. A. Delgado S., 1987. Loc: Isla del Carmen, 3-4 km al lado SE. [25°56'N. 111°12'W]. Hierba rastrera- trepadora, poco abundante, fl rosas. Veg. matorral bajo espinoso, faldas de un cerro. Fecha: 17 Ene 1987 [17 janvier 1987]. Col. [Gabriel Flores F.](#) n°. 494. Bajo el Patrocinio de CONACyT. /// code barre University of Texas – Austin (LL, TEX) 00273121. /// DGD: *filiformis*, comme 'best guess', 4 racèmes, en j go, go sèches, deux plantes entières avec racine herbacée pivotante diamètre 1 mm, forte hétérophylie petit lobe rond externe à la base de certaines folioles latérales, tiges très grêles et volubiles. [TEX; 15-VIII-2008].

Plantas de México. [Baja California Sur](#). Herbario Nacional de Mexico (MEXU). Instituto de Biología, UNAM. *Phaseolus filiformis* Benth., det. A. Delgado S. 1987. Loc: Isla Tortuga, al SE de la isla, 100 a 500 m de la playa. Alt. 13 msnm. Hierba rastrera, poco abundante, fl rosa, fr inmaduros. Veg. matorral bajo espinoso. Suelo: arcilloso arenoso café claro, con abundante roca volcánica. Fecha: 23 Ene 1987 [23 janvier 1987]. Col. [Gabriel Flores F.](#) n°. 505. Bajo el Patrocinio de CONACyT. /// code barre University of Texas – Austin (LL, TEX) 00273123. /// DGD: *filiformis*, deux petites plantes en début de croissance, en rosette, racines fibreuses herbacées pivotantes, 2+1 racèmes, en floraison, début de l'hétérophylie. [TEX; 15-VIII-2008].

IBUG122609. Plantas de México. Herbario Nacional de Mexico. Instituto de Biología (MEXU). [Baja California Sur](#). *Phaseolus filiformis* Benth.. Cercanías Colina Coyote, Isla Magdalena, 5 msnm. [24°47'N. 112°16'W]. Col. [WL Forment C.](#) Suelo arenoso. 28 Enero 1975 [28 janvier 1975]. Det. A Delgado S. [pas de numéro de collecte]. /// DGD: *filiformis*, 5 racèmes, en floraison, jgo, go vertes, go sèche. [IBUG; 30-X-2003].

UC757213. Plants of [Baja California \[Sur\]](#), Mexico. Desierto Viscaíno Region. Allan Hancock Foundation Expedition. *Phaseolus filiformis* Benth., determined by HSG. Loc: sand hills of the Viscaíno Depression south and west of Scammon's Lagoon [Laguna Ojo de Liebre]. [27°43'N. 114°19'W]. March 9 and 16, 1947 [9-16 mars 1947]. Hab: widely dispersed shrubs in fog desert, active linear dunes. Prostrate and clamboring [sic!] on shrubs. Fls. lav. [flowers lavender]. Coll. [Howard Scott Gentry](#) no. 7365. /// *Phaseolus filiformis* Benth., det. GF Freytag, 22 Mar 1985. /// DGD: *filiformis*, 2 plantes avec racine pivotante pratiquement défoliées, 6+6 racèmes, en go sèches, 'scappy'. [UC; 24-X-2003].

US2811086. Plants of [Baja California \[Sur\]](#). *Phaseolus filiformis* Benth.. Locality: 8-12 miles east of Ojo de Liebre [sic!], Vizcaíno Desert; March 14, 1950 [14 mars 1950]. Habitat: scattered sand dunes with *Encelia - Franseria* over silt lands with *Atriplex - Lycium*; elev. 50-100 feet [21 m]. Collected by [HS Gentry](#) & Franck Cech no. 8829. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 17 Aug 1984. /// DGD: *filiformis*, 2+2+2 racèmes, en floraison, jgo, go vertes, trois plantes en rosette avec racine herbacée pivotante et tiges grêles. [US; 1-IX-2009].

Texas Research Foundation, Renner Texas [cachet à l'encre noire]. /// Plants of [Baja California \[Sur\]](#), Mexico. *Phaseolus*. Locality: 5 miles S of Laguna del Gallo, Vizcaino Desert. April 24, 1952. Habitat: on sandy soils, very common, locally. Small annual ground vine with blue-purple fls. Collected by [HS Gentry](#) & WB Fox N°. [11750](#). /// Treated in 1967 with lauryl pentachlorophenate ! /// The University of Texas Herbarium, Systematic Revision of *Phaseolus*. *Phaseolus filiformis* Benth., Alfonso Delgado S. 1985. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, May 25 1988. /// code barre University of Texas – Austin (LL, TEX) 00273138. /// DGD: *filiformis*, deux plantes en rosette avec racines herbacées pivotantes, 6+8 racèmes, en floraison, j go, j go en transition à go vertes, go vertes, go sèches, folioles profondément lobées. [LL; 15-VIII-2008].

US1896112. /// United States National Museum. /// [211](#). California Academy of Sciences. Flora of [Baja California \[Sur\]](#). *Phaseolus filiformis* Benth.. In coarse granite sand on bluff overlooking La Paz Bay, about 15 mi west of La Paz. [24°17'N. 110°36'40"W]. Flowers pink. [Betty J Hammerly](#). October 7 1941 [7 octobre 1941]. /// United States National Herbarium. *Phaseolus filiformis* Benth., det. James Lackey, Jan 1980. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 17 Aug 1984. /// DGD: *filiformis*, 2 racèmes, en floraison, une petite plante entière avec racine herbacée pivotante et rosette de tiges grêles, spécimen pauvre. [US; 2-IX-2009].

UC56264. Herbarium of the San Diego Society of Natural History. *Phaseolus filliformis* [sic!] Benth.. Loc: Purísima, Baja California [\[Sur\]](#), Mexico. [26°11'N. 112°05'W]. Sept. 19, 1955 [19 septembre 1955]. Coll. [Charles F Harbison \[s.n. !\]](#). /// *Phaseolus filiformis* Benth., det. GF Freytag, 22 Mar 1985. /// DGD: *filiformis*, 3 racèmes, en floraison, jgo, 'scrappy'. [UC; 23-X-2003].

Duke University Herbarium. 195547. /// Rancho Santa Ana Botanic Garden. Plants of [Baja California](#), Mexico. No. [2216](#). *Phaseolus filiformis* Benth. 16 km north of La Paz, 2 km north of Pichilingue; [24°16'45"N. 110°19'20"W].; to 2 ft. high in sandy washes; flowers lavender and white. Common with *Coreocarpus*, *Perityle*, *Pectis*, etc. 150 ft. [45 m]. March 12, 1966 [12 mars 1966]. [James Henrickson](#). /// DGD: *filiformis*, 6 racèmes, en floraison, j go, go vertes, go sèches, une plante en rosette avec racine fibreuse pivotante. [DUKE; 15-VIII-2011].

133471. Herbarium. Arizona State University. /// Specimen entered in ASU Database. /// ASU Vascular Plant Herbarium. Specimen Image Number, puis code barre ASU0024513. /// Plants of Mexico. *Phaseolus filiformis* Benth. State of [Baja California Sur](#). 2.1 miles north of San Ignacio, off Route 1. Frequent vine, growing with *Opuntia cholla*, *O. invicta*, *O. molesta*, *Yucca valida*, *Pachycereus*, *Pedilanthus*, *Jatropha*, *Machaerocereus*. 8 January 1984 [8 janvier 1984]. [Wendy Hodgson 3073](#), Donald Pinkava. Herbarium of Desert Botanical Garden (DES). /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 6 racèmes, en floraison, jgo, go verte, go sèches. [ASU; 24-IX-2015].

93126. /// Herbarium of the University of California, Davis. Dune plants of the pacific coast of Baja California, Mexico. *Phaseolus filiformis* Benth.. Back dunes of beach opposite the town of Todos Santos, [Baja California Sur](#). Lat. 23°38'N. Long. 110°20'W. Collected by [Ann F Johnson 66](#). Date: December 1972 [? décembre 1972]. /// DGD: *filiformis*, 5 racèmes, en floraison, j go en transition à go verte, go vertes, une racine fibreuse herbacée pivotante; pas d'indication de jour de collecte. [DAV; 19-IX-2008].

F705913. [24141](#). Flora of Mexico. Flora of Lower California [\[Baja California Sur\]](#). *Phaseolus atropurpureus*. Todos Santos. [23°26'N. 110°14'W]. Feb. 18, 1928 [18 février 1928]. Collected by [Marcus E Jones AM](#). /// Type collection [cachet à l'encre rouge]. /// [24141](#). *Phaseolus filiformis* Benth. Isotype of *P. sanctorum* Jones, det. Oliver W Norvell, 11/22/49 [22 novembre 1949; écrit au crayon noir par OW Norvell lui-même]. /// Field Museum of Natural History negative no. 61225. /// Isotype of: *Phaseolus sanctorum*

Jones. Contr. W. Bot. 15: 140. 1929. = *Phaseolus filiformis* Benth., Alfonso Delgado S., 1985. [étiquette bordée de bleu]. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det George F Freytag, Jan 12, 1987. Jan 20, 1987. [sic!: George a mis deux cachets de date avec tampon auto-dateur]. /// DGD: *filiformis*, 7 racèmes, en go vertes, go sèches, plutôt ‘scrappy’ pour un type; à vérifier 18 pour 19 dans le livre; c’est l’**isotype** de *sanctorum*. [F; 2-VIII-2004].

Flora of Mexico. 24279. Flora of Lower California. [Baja California Sur]. *Phaseolus filiformis*. Todos Santos [23°26’N. 110°14’W]. Feb. 14, 1923 [14 février 1923]. Collected by Marcus E Jones A.M. /// DGD: *filiformis*, en go sèches. [ARIZ; 15-II-1979].

F705914. Flora of Mexico. Flora of Lower California. [Baja California Sur]. 24279. *Phaseolus filiformis*. Todos Santos [23°26’N. 110°14’W]. Jan 31, 1928 [31 janvier 1928]. Collected by Marcus E Jones A.M. /// The University of Texas Herbarium, Systematic Revision of Phaseolus. *Phaseolus filiformis* Benth., Alfonso Delgado Salinas, 1985. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Jan 12, 1987. /// DGD: *filiformis*, en floraison, 8 racèmes, jgo, go vertes, 1 plante en rosette avec racine fibreuse, folioles avec acumen prononcé pointu et lobées latéralement. [F; 31-VII-2004].

US Natl Arb 93833. /// 24279. Flora of Mexico. Flora of Lower California. [Baja California Sur]. *Phaseolus filiformis*. Todos Santos [23°26’N. 110°14’W]. Feb. 14, 1928 [14 février 1928]. Collected by Marcus E Jones, A.M. /// Poisoned [cachet à l’encre noire]. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 29 Aug 1985. /// DGD: *filiformis*, 6 racèmes, en floraison, j go, go sèches, graines. [NA; 21-VII-2006].

UC400435. Flora of Mexico. 24279. Flora of Lower California. [Baja California Sur]. *Phaseolus filiformis*. Todos Santos [23°26’N. 110°14’W]. Feb. 14, 1923. Collected by Marcus E Jones A.M. /// *Phaseolus filiformis* Benth., det. GF Freytag, 22 Mar 1985. /// DGD: *filiformis*, 1 plante en rosette, net développement hétéroblastique, 6 racèmes, en jgo, go vertes, go sèches. [UC; 23-X-2003].

MO970192. Flora of Mexico. Flora of Lower California. [Baja California Sur]. *Phaseolus filiformis*. La Paz. [24°07’N. 110°20’W]. Feb 9 1928 [9 février 1928]. Coll. Marcus E Jones AM 24280. /// The University of Texas Herbarium, Systematic Revision of Phaseolus. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1985. /// TARS, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Jun 23 1986. /// DGD: *filiformis*, 9 racèmes, en floraison, jgo, go vertes, go sèches, 5 gr/ go. [MO; 7-VI-2002].

US Natl Arb 93822. /// 24280. Flora of Mexico. Flora of Lower California. [Baja California Sur]. *Phaseolus filiformis*. La Paz, Feb. 8, 1928. [24°07’N. 110°20’W]. Collected by Marcus E Jones, A.M. /// Poisoned [cachet à l’encre noire]. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 29 Aug 1985. /// DGD: *filiformis*, 5 racèmes, en floraison, j go, go vertes, folioles petites, forte hétérophylie. [NA; 21-VII-2006].

MO1034369. Flora of Lower California. *Phaseolus filiformis* Benth. [Mexico, Baja California Sur], Arroyo Undo Ranch, Loreto. [26°00’N. 111°24’W]. Oct 26 1930 [26 octobre 1930]. Coll. Marcus E Jones AM 27180. /// The University of Texas Herbarium, Systematic Revision of Phaseolus. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1985. /// TARS, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Jun 23 1986. /// DGD: *filiformis*, 6 racèmes, en floraison, go vertes, 4-5 gr/ go. [MO; 7-VI-2002].

Plants of Mexico. The University of Texas Herbarium. Leguminosae. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1982. Estado Baja California Sur: on a dirt road which leads east from the road between Villa Insurgentes and Santo Domingo (just N of Colonia Purisima). [25°31’N. 111°48’30’’W]. Bajada vegetation with *Larrea*, *Fouquieria*, *Opuntia* (cholla), *Pachycereus*. Elev: less than 30 m (100’). 19 V 1978 [19 mai 1978]. Meredith A Lane 2345 (with Joan Fryxell) 1 only. /// The University of Texas Herbarium, Systematic

Revision of *Phaseolus*. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F Freytag, May 25 1988. /// code barre University of Texas – Austin (LL, TEX) 00273131. /// DGD: *filiformis*, 3 racèmes, en floraison, j go en transition à go verte, petit fragment de plante ‘scrappy’ à folioles profondément lobées. [TEX; 15-VIII-2008].

IBUG122641. Centro de Investigaciones Biológicas de Baja California Sur. Herbario CIB. Fam. Leguminosae. Altitud 450 msnm. Selva baja caducifolia. Abundancia baja. Nombre común “frijolito”. Fecha colecta 2 nov. / 86 [2 novembre 1986]. Loc: Rancho ‘Casa Vieja’, NW Santiago, [BCS](#). [23°30’N. 109°45’W]. Col. [JL León # 2211](#). /// Herbario Nacional de Mexico (MEXU). *Phaseolus filiformis* Benth., det. Alfonso Delgado S., 1992. /// DGD: *filiformis*, 2 racèmes, en floraison. [IBUG; 30-X-2003].

CS77516. /// Centro de Investigaciones Biológicas de Baja California Sur, A.C. Herbario CIB. NC *Phaseolus*. Fam. Leguminosae. Alt. 25 mts. Veg: desierto sarcocaulé. Abundancia baja. N común : frijolillo. Fecha : 6 de octubre 89 [1989]. Loc : carretera San José del Cabo - La Rivera, Km 12, Mpio Los Cabos. [[Baja California Sur](#)]. Lat. 23°05’N, 109°36’W. Fisiogr: loma, ladera. Forma biol: anual. Col. [José Luis León 4201](#). Det. [blanc]. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Apr 30, 1998. /// DGD : *filiformis*, 6 racèmes, en floraison, j go, go sèches, petites folioles 20x14 mm, hétérophylie; original. [CS; 18-VIII-2008].

Harvard University, Gray Herbarium (GH). Plants of [Baja California Sur](#), Mexico. *Phaseolus filiformis* Benth. Fabaceae. Small, creeping vine, locally common, flowers purple. Growing in a flat, windy and sandy open desert plain with *Atriplex* sp., *Camissonia crassifolia*, *Dyssodia anthemidifolia*, *Frankenia palmeri*, *Mesembryanthemum crystallinum* and *Plantago ovata*. To the E side of Guerrero Negro, about 0.2 mi W of Mexico Rt. 1. Elev. probably around 30 ft. [9 m]. 27° 58’ 05”N, 114° 01’ 10”W. UTM 11 793213E, 3097243N (NAD83/WGS84). Coll. [José Luis León de la Luz #06105](#), with Doug Goldman. 21 March 2005. /// DGD: *filiformis*, 10 racèmes, en floraison, jgo, go vertes, go sèches, forte hétérophylie. [NY; 19-II-2014].

ARIZ360536. /// CIB. Centro de Investigaciones Biológicas del Noroeste, S.C. Herbario HCIB. “Annetta M. Carter”. *Phaseolus micranthus* Hook et Arn. Leguminosae. Veg: Matorral xerófilo. Loc: Isla La Ballena. Ubicación: lomerío. Mpio.: La Paz. [[Baja California Sur](#)]. 24° 28’N 110° 23’W. Alt: 30 msnm. F.Vida: Ha. Distrib: costa Sin., Nay., Jal. [José León de la Luz 7969](#). 26 Septiembre 1996. Det. José Luis León de la Luz. /// DGD: *filiformis*, 3 plantes entières avec racine herbacée pivotante, en tt début de floraison, 1+0+0 racèmes, forte hétérophylie. [ARIZ; 21-IX-2012].

Phaseolus or segregate genus. [Baja California Sur](#), 62 km SE of San Pedro on road to San José del Cabo, ca 3 km S of San Bartolo. Sandy roadside slope. 360 m, 23°42’N 109°49’W. A common weedy species in the Cape region. Prostrate, taprooted herb. Foliage dark bottle green. Leaflet shape variable some leaflets with white marking along main vein on upper surface. Petals mauvish pink, tip of twisted keel greenish. Fruits green with purple-black markings, valves twist strongly after dehiscence. Dupl.. MEXU, K, MO, NY, TEX. [GP Lewis 2037](#), [CE Hughes & JL Contreras](#). 19.1.1992 [19 janvier 1992]. /// ex Herb. Hort. Bot. Reg. Kew. /// *Phaseolus filiformis* Benth., det GP Lewis, 19-4-1992. /// DGD: *filiformis*, 7 racèmes, en floraison, j go, go vertes, go sèches, base de plante herbacée pivotante. [BM; 19-XII-2006].

Phaseolus or segregate genus. [Baja California Sur](#), 62 km SE of San Pedro on road to San José del Cabo, ca 3 km S of San Bartolo, sandy roadside slope, 360 m, 23°42’N 109°49’W. A common weedy species in the Cape region. Prostrate, taprooted herb. Foliage dark bottle green. Leaflet shape variable some leaflets with white marking along main vein on upper surface. Petals mauvish pink tips of twisted keel greenish. Fruits green with purple-black markings, valves twist strongly after dehiscence. Dupl.. MEXU, BM, MO, NY, TEX. [GP Lewis](#), [CE Hughes & JL Contreras](#) 2037. 19.1.1992 [19 janvier 1992]. /// *Phaseolus filiformis* Benth., det GP Lewis, 19-4-1992. /// Herb. Hort. Kew. [cachet]. /// DGD: *filiformis*, 8 racèmes, en go vertes,

go sèches, graines, lobe central des folioles triangulaire, une plante à racine herbacée pivotante. [x 2]. [K; 8-III-2005].

MO4247473. Ex Herb Hort Bot Reg Kew. *Phaseolus*, [Baja California Sur](#), 62 km SE of San Pedro on road to San José del Cabo, ca 3 km S of San Bartolo, sandy roadside slope, 360 m, 23°42'N 109°49'W. A common weedy species in the Cape region. Prostrate, taprooted herb. Foliage dark bottle green. Leaflet shape variable some leaflets with white marking along main vein on upper surface. Petals mauvish pink tips of twisted keel greenish. Fruits green with purple-black markings, valves twist strongly after dehiscence. Dupl.. MEXU, BM, K, NY, TEX. [GP Lewis, CE Hughes & JI Contreras 2037](#), 19.1.1992. /// DGD: *filiformis*, en floraison, go vertes, 1 go sèche, folioles entières à profondément lobées, no. ovules/ go ne fait pas penser à *carteri*. [MO; 27-V-2002].

Phaseolus or segregate genus. [Baja California Sur](#), 62 km SE of San Pedro on road to San José del Cabo, ca 3 km S of San Bartolo. Sandy roadside slope. 360 m, 23°42'N 109°49'W. A common weedy species in the cape region. Prostrate, tap-rooted herb. Foliage dark bottle-green. Leaflet shape variable some leaflets with white marking along main vein on upper surface. Petals mauvish pink, tip of twisted keel greenish. Fruits green with purple-black markings, valves twist strongly after dehiscence. Dupl.. MEXU, BM, K, MO, TEX. [GP Lewis 2037](#), CE Hughes & JL Contreras. 19.1.1992. /// ex Herb. Hort. Bot. Reg. Kew. /// *Phaseolus filiformis* Benth., det GP Lewis, 19-4-1992. /// DGD: *filiformis*, 6 racèmes, en floraison, j go, go vertes, go sèches, forte hétérophylie. [NY; 19-II-2014].

Phaseolus or segregate genus. [Baja California Sur](#), 62 km SE of San Pedro on road to San José del Cabo, ca 3 km S of San Bartolo. Sandy roadside slope. 360 m, 23°42'N 109°49'W. A common weedy species in the Cape region. Prostrate, taprooted herb. Foliage dark bottle green. Leaflet shape variable some leaflets with white marking along main vein on upper surface. Petals mauvish pink, tip of twisted keel greenish. Fruits green with purple-black markings, valves twist strongly after dehiscence. Dupl.. MEXU, K, MO, NY, TEX. [GP Lewis 2037](#), CE Hughes & JL Contreras. 19.1.1992. /// ex Herb. Hort. Bot. Reg. Kew. /// *Phaseolus filiformis* Benth., det GP Lewis, 19-4-1992. /// code barre University of Texas – Austin (LL, TEX) 00273117. /// DGD: *filiformis*, 9 racèmes, en floraison, j go en transition à go vertes, go vertes, go sèches, une plante entière avec racine herbacée pivotante diamètre 1.5 mm, forte hétérophylie. [TEX; 15-VIII-2008].

University of North Carolina Herbarium. 501537. /// Plantas de México: [Baja California Sur](#). Herbario Nacional de México Instituto de Biología (MEXU). *Phaseolus phyliformis* L. [sic!]. 4 km al SE de la Punta Norte Isla Magdalena. [25° 02'N. 112° 13' 40"W]. Enredadera. Det. Fco. Ramos. Col. [William López F. 617](#). Feb 9 1978. /// DGD: *filiformis*, 2 racèmes, en jgo, go vertes. [NCU; 24-VIII-2011].

22231. Herbarium. Arizona State University. /// Specimen entered in ASU Database. /// ASU Vascular Plant Herbarium. Specimen Image Number, puis code barre ASU0024517. /// San Diego Museum of Natural History. Insular Floras of the Gulf of California, Mexico. *Phaseolus filiformis* Benth. Few seen. South end of Ildefonso Island, [B. Cfa](#). Near 26° 37'N, 111° 27'W. Elevation ca. 10 m. 2 April 1962 [2 avril 1962]. [Reid Moran 9057](#). /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 4 racèmes, en floraison, go verte, go sèches. [ASU; 24-IX-2015].

UC1504300. [Baja California Sur](#), Mexico. Sierra de La Giganta. Cerro Mechudo and vicinity. *Phaseolus filiformis* Benth.. Flowers pink, common. Stony, gentle west slope with *Lysiloma candida*, *Pachycereus pringlei*; La Sabanilla. Altitude ca 675 m. ca 24°49'N, 110°44'W. [Reid Moran 18863](#). 1 November 1971. San Diego Natural History Museum. /// DGD: *filiformis*, 10 racèmes, en floraison, j go, go vertes, une plante avec racine fibreuse herbacée. [UC; 23-X-2003].

US2796863. San Diego Museum of Natural History. [Baja California \[Sur\]](#), Mexico. *Phaseolus filiformis* Benth.. Corolla pink. Common, Picachos de Santa Clara, B.Cfa.Sur [sic!]. Near 27° 09'N, 113° 40'W.

Elevation ca. 350 m. [Reid Moran 19648](#) & James L Reveal. 3 February 1973 [3 février 1973]. /// United States National Herbarium. *Phaseolus filiformis* Benth., det. James Lackey, Jan 1980. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 17 Sep 1984. /// DGD: *filiformis*, 7 racèmes, en floraison, jgo, go vertes, go sèches, une plante entière avec racine herbacée pivotante et rosette de tiges grêles. [US; 2-IX-2009].

US2796864. San Diego Museum of Natural History. [Baja California Sur](#), Mexico. *Phaseolus filiformis* Benth.. Corolla deep pink. Common on sandy flat with *Frankenia*, 4 miles NE of Abreojos, B.Cfa.Sur [sic!]. Near 26° 45'N, 113° 34'W. Elevation ca. 5 m. [Reid Moran 19727](#) & James L Reveal. 4 February 1973 [4 février 1973]. /// United States National Herbarium. *Phaseolus filiformis* Benth., det. James Lackey, Jan 1980. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 1 Apr 1985. /// DGD: *filiformis*, 9 racèmes, en floraison, jgo, go vertes, go sèches, une plante entière avec racine herbacée pivotante et rosette de tiges grêles, folioles peu lobées. [US; 2-IX-2009].

US565542. /// United States National Museum. Deposited by the U.S. Department of Agriculture. /// Plants of Mexico. Lower California. [Baja California Sur](#). From El Paraiso to El Triunfo. [23°44'50"N. 110°07'W]. Alt. 1700 ft. [520 m]. No. [7473](#). [EW Nelson](#), collector; EA Goldman, assistant. January 30, 1906. /// United States National Herbarium. *P. filiformis* Benth., Oliver W. Norvell, 11/29/49 [29 novembre 1949; écrit à l'encre bleue par O.W. Norvell]. /// United States National Herbarium. *Phaseolus filiformis* Benth., det. James Lackey, Jan 1980. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 17 Aug 1984. /// DGD: *filiformis* comme 'best guess', 5 racèmes, en floraison, jgo, go vertes, go sèches, graines, tige volubile, lobation des folioles rappelle celle de *grayanus*, les go sont à 6 graines par go et avec un bec plus court, mais les graines sont petites et rugueuses comme chez *filiformis*. [US; 1-IX-2009].

Flora of Lower California. Lagoon Head. No. [819](#). *Phaseolus filiformis* Benth. very common. Coll. D^r [Edward Palmer](#). March 6-15, 1889. /// Smithsonian Institution. From the United States National Herbarium. /// Herbier du Jardin Botanique de l'Etat. Bruxelles. /// DGD: *filiformis*, 3 petites plantes, 1+1+1 racèmes, en go verte. [x 2]. [BR; 29-VI-2005].

Flora of Lower California. Lagoon Head. No. [819](#). *Phaseolus filiformis*. Coll. D^r [Edward Palmer](#). March 6-15, 1889. /// *Phaseolus filiformis* Benth. ex num cit. Maréchal (1978). /// DGD: *filiformis*, en floraison, jgo, go verte, go sèche, deux petites plantes à racine herbacée pivotante, 6 cm haut, 2 + 1 racèmes. [K; 6-VIII-1985].

MEXU s.n.. Flora of Lower California. Lagoon Head. No. [819](#). *Phaseolus filiformis* Benth.. Coll. D^r [Edward Palmer](#). March 11, 1889. /// DGD: *filiformis*, en floraison, en go vertes. [MEXU; VII-1978].

UC16256. Flora of Lower California. Lagoon Head. No. [819](#). *Phaseolus filiformis* Benth.. Coll. D^r [Edward Palmer](#). March 6-15, 1889. /// *Phaseolus filiformis* Benth., det. GF Freytag 22 Mar 1985. /// DGD: *filiformis*, 2 petites plantes en rosette, en floraison, jgo, go sèche. [UC; 23-X-2003].

ASU178459. /// Specimen entered in ASU Database. /// ASU Vascular Plant Herbarium. Specimen Image Number, puis code barre ASU0024509. /// Plants of Mexico. Arizona State University. *Phaseolus filiformis* Benth. Estado de [Baja California Sur](#): 16 miles west of Vizcaino junction on the road to Bahia Tortugas. Dominant plants include *Opuntia* sp. and *Cenchrus palmeri*. 7 Jan. 1991 [7 janvier 1991]. [Jon P Rebman 1027](#), with Bob Johnson. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Dec 2 1991. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 6 racèmes, en floraison, jgo. [ASU; 24-IX-2015].

ASU178515. /// Specimen entered in ASU Database. /// ASU Vascular Plant Herbarium. Specimen Image Number, puis code barre ASU0024510. /// Plants of Mexico. Arizona State University. *Phaseolus filiformis* Benth. Estado de [Baja California Sur](#): approxim. 1 mile west of km marker 31 on the dirt road that goes north to Bahia Asunción to Rancho San Miguel. Other plants include *Bursera*, *Solanum*, *Errazurizia*, *Ferocactus*,

Rhus lentii, *Cardiospermum*, and *Euphorbia*. 7 Jan 1991 [7 janvier 1991]. [Jon P Rebman 1048](#), with Bob Johnson. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Dec 2 1991. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 5 racèmes, en floraison, jgo, go verte. [ASU; 24-IX-2015].

UCR112656. /// San Diego Natural History Museum. Plants of [Baja California Sur](#), Mexico. Fabaceae. *Phaseolus filiformis* Benth. vine; flowers lavender. Sierra San Francisco: north of San Ignacio: Cañon Santa Teresa, near Rancho Santa Teresa; northwest of the ranch San Francisco de la Sierra. 27° 36'45" N, 113° 04'00" W. Elev. ca. 600 m. *Opuntia cholla*, *Stenocereus thurberi*, *Prosopis* sp., deep volcanic canyon. [Jon Rebman 4480](#). 22 October 1997 [22 octobre 1997]. /// Lindblad Binational Expedition, October-November 1997. Sierra San Francisco and Sierra Guadalupe. Baja California Sur, Mexico. /// Specimen data entered into UCR database. /// DGD: *filiformis*, 4 racèmes, en floraison, jgo, go vertes, hétérophylie, racine pivotante herbacée. [UCR; 19-VIII-2014].

Rancho Santa Ana Botanic Garden 753557. /// San Diego Natural History Museum. Plants of [Baja California Sur](#), Mexico. Fabaceae. *Phaseolus filiformis* Benth. Along main gravel road between San Juanico and San Jose de Gracia; 2.8 miles north of San Juanico. 26.2974° N [sic!], 112.487° W [sic!]. Elev. 55 m. Geology: whitish old sea bed substrates. Vegetation: Vizcaino Desert vegetation with *Jatropha cinerea*, *J. cuneata*, *Fouquieria diguetii*, *Encelia palmeri*, *Atriplex julacea*, and *Frankenia palmeri*. Annual, flowers pink; uncommon. [Jon Rebman 18541](#) with: Jose Delgadillo. 21 October 2009 [21 octobre 2009]. /// Specimen data entered into RSA-POM database. /// DGD: *filiformis*, 5 racèmes, en floraison, j go. [RSA; 4-XI-2010].

UCR227967. /// San Diego Natural History Museum. Plants of [Baja California Sur](#), Mexico. Fabaceae. *Phaseolus filiformis* Benth. Along main gravel road between San Juanico and San Jose de Gracia; 2.8 miles north of San Juanico. 26.2974° N [sic!], 112.487° W [sic!]. Elev. 55 m. Geology: whitish old sea bed substrates. Vegetation: Vizcaino Desert vegetation with *Jatropha cinerea*, *J. cuneata*, *Fouquieria diguetii*, *Encelia palmeri*, *Atriplex julacea*, and *Frankenia palmeri*. Annual, flowers pink; uncommon. [Jon Rebman 18541](#) with: Jose Delgadillo. 21 October 2009 [21 octobre 2009]. /// Specimen data entered into UCR database. /// DGD: *filiformis*, 5 racèmes, en floraison, jgo, go vertes, folioles profondément lobées. [UCR; 19-VIII-2014].

University of Arizona Herbarium. Baja California, Mexico. *Phaseolus filiformis* Benth. [Baja California Sur](#): rocky hills about 6 miles west of Hwy # 1 on the road to San Xavier Mission. [26°00'N. 111°24'W]. Common herbaceous vine, flowers red-purple. Elevation 75 m. March 24, 1979. [John R Reeder 7073](#), [Charlotte G Reeder](#). /// DGD: *filiformis*, 1 plante en rosette, base de la tige herbacée, 8 racèmes, en floraison, 1 jgo, go sèches. [ENCB; 23-IX-2004].

UC1425769. University of Arizona Herbarium. Baja California, Mexico. *Phaseolus filiformis* Benth.. [Baja California Sur](#). Rocky hills about 6 miles west of Hwy # 1 on the road to San Xavier Mission. [26°00'N. 111°24'W]. Common herbaceous vine; flowers red-purple. Elevation 75 m. March 24, 1979. [John R Reeder 7073](#), [Charlotte G Reeder](#). /// *Phaseolus filiformis* Benth., det. GF Freytag, 22 Mar 1985. /// DGD: *filiformis*, 1 plante avec racine fibreuse pivotante, 6 racèmes, en floraison, jgo, go vertes, go sèches, développement hétéroblastique. [UC; 24-X-2003].

Rancho Santa Ana Botanic Garden. Flora of [Baja California Sur](#), Mexico. Fabaceae. *Phaseolus filiformis* Benth. Vizcaino Desert: ca 13.7 road miles NW of Bahia Asuncion (on the way toward the E-W Vizcaino – Bahia Tortugas Rd) where intersected by the rd SW to Punta San Pablo; approximately 2.5 (air) miles S of peak of cerro El Elefante. Vegetation visually dominated by *Pachycormus discolor*, *Fouquieria digueti*, *Ambrosia camphorata*, *Viguiera* cf. *deltoidea*, *Solanum hindsianum*, *Eriogonum pondii*, *E. fasciculatum*, etc. Locally common annual, prostrate or twining on lower herbs & shrubs. Flowers purplish-violet. Alt. ca 100-120m. Near 27° 15' 40"N, 114° 22' 30" W. [Tim Ross 6981](#), Walter Appleby, Steve Boyd. 1 May 1993. ///

DGD: *filiformis*, deux plantes entières avec racines pivotante, 5+6 racèmes, en floraison, jgo, go vertes, go sèches, forte hétérophylie. [NY; 19-II-2014].

US2635032. Mexico. *Phaseolus filiformis* Benth.. [Baja Calif.\[ornia\]](#) [Sur](#): NW of La Paz, about km 60. [24°39'N. 110°44'W]. Sprawling plant. Flowers purple. [3394](#). [VE Rudd](#). 13 Feb 1972 [13 février 1972]. /// United States National Herbarium. *Phaseolus filiformis* Benth., det. James Lackey, Jan 1980. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 17 Aug 1984. /// DGD: *filiformis*, 7 racèmes, en floraison, jgo, go vertes, go sèches, une plante en rosette avec racine herbacée pivotante et tiges grêles. [US; 1-IX-2009].

US2635033. Mexico. *Phaseolus filiformis* Benth.. [Baja Calif.\[ornia\]](#) [Sur](#): Santa Maria Bay, near Cabo San Lucas. Sprawling on beach just above tide line. Flowers purple. [3396](#). [VE Rudd](#). 14 Feb 1972 [14 février 1972]. /// United States National Herbarium. *Phaseolus filiformis* Benth., det. James Lackey, Jan 1980. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 17 Aug 1984. /// DGD: *filiformis*, 4 racèmes, en floraison, go vertes, go sèche, une plante en rosette avec racine herbacée pivotante et tiges grêles. [US; 1-IX-2009].

Herbario de la Escuela Nacional de Ciencias Biológicas. Instituto Politécnico Nacional, México, D.F.. Plantas Mexicanas. Col. [Rzedowski no. 25552](#). *Phaseolus filiformis* Benth., det. J. Rzedowski. Mexico, [Baja California](#) [Sur](#), 104 km NW de La Paz, sobre la carretera a Santo Domingo. [24°22'N. 111°05'W]. Obs: flores moradas, planta rastrera, orilla de camino. Hab: ladera tocosa con vegetación de matorral xerófilo. 100 msnm. 17 de noviembre de 1968. /// DGD: *filiformis*, en floraison, go vertes, plus de 10 racèmes. [ENCB; 11-14-VII-1978].

[Rzedowski 25552](#). *Phaseolus filiformis* Benth. Mexico, [Baja California](#) [Sur](#). 104 km NW de La Paz, sobre la carretera a Santo Domingo. [24°22'N. 111°05'W]. 17/XI/1968. Ladera tocosa con vegetación de matorral xerófilo. Alt. 100 m. Planta rastrera, flores moradas, orilla de camino. /// DGD: *filiformis*, en floraison, go vertes, go sèches; # 25552 ?. [MSC; 30-VI-1988].

Herbario de la Escuela Nacional de Ciencias Biológicas. Instituto Politécnico Nacional, México, D.F.. Plantas Mexicanas. *Phaseolus filiformis* Benth. Fam. Leguminosae. Loc: Sebastián Vizcaino. Delegación de Mulegé. Edo. [Baja California](#) [Sur](#). Fecha 12.XI.1968 [12 novembre 1968]. Hab: terrenos aluviales arenosos planos con vegetación de matorral xerófilo. Alt. 50 m. Col. [Rzedowski no. 26497](#). Observ: cerca de un pozo. Det. A.O. Delgado. /// DGD: *filiformis*, plus de 10 racèmes, en floraison, jgo, go vertes, folioles extrêmement étroites et profondément lobées. [ENCB; 23-IX-2004].

MEXU187812. Plantas Mexicanas. *Phaseolus filiformis* Benth. Fam. Leguminosae. Loc: Sebastián Vizcaino. Delegación de Mulegé. [26°37'15"N. 111°34'20"W pour San Sebastián]. Edo. [Baja California](#) [Sur](#). Fecha 12.XI.1968 [12 novembre 1968]. Hab: terrenos aluviales arenosos planos con vegetación de matorral xerófilo. Alt. 50 m. Col. [Rzedowski no. 26497](#). Observ: cerca de un pozo. Det. A.O. Delgado. /// DGD: *filiformis*, en floraison, en go vertes. [MEXU; VII-1978].

Herbario de la Escuela Nacional de Ciencias Biológicas. Instituto Politécnico Nacional, México, D.F.. Plantas Mexicanas. *Phaseolus filiformis* Benth. Fam. Leguminosae. Loc: Sebastián Vizcaino. Delegación de Mulegé. Edo. [Baja California](#) [Sur](#). Fecha 12.XI.1968 [12 novembre 1968]. Hab: terrenos aluviales arenosos planos con vegetación de matorral xerófilo. Alt. 50 m. Col. [Rzedowski no. 26497](#). Observ: cerca de un pozo. Det. A.O. Delgado. /// DGD: *filiformis*, 4 racèmes, en floraison, go sèches, graines. [SI; 22-XI-2005].

UCR22725. /// Herbarium of the University of California, Riverside. *Phaseolus filiformis* Benth. [Baja California](#) [Sur](#), Mexico. Collected 8 miles NW of San Ignacio along the highway at the road junction to Punta Abreojos. [27° 18'N, 113° 08'W]. Stony volcanic area, rolling and cut by small arroyos. *Cercidium*, *Yucca palida*, *Pachycereus*, *Bursera hindsiana*, *Larrea*, *Opuntia*, *Jatropha*, and *Machaerocereus* were among the dominant plants. Fairly common along the roadside. [AC Sanders # 1179](#). 24 Mar. 1980 [24 mars

1980]. /// Specimen data entered into **UCR** database. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F Freytag, Apr 6 1992. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, trois petites plantes en floraison, 2+2+1 racèmes, hétérophylle. [UCR; 19-VIII-2014].

UCR22643. /// Fabaceae. Herbarium of the University of California, Riverside. *Phaseolus filiformis* Benth. **Baja California Sur**, Mexico. Collected on the low sandy flats adjacent to the Guerrero Negro airport. [27° 58'30"N, 114° 02'W]. *Frankenia palmeri* and *Gasoul crystallinum* were the dominant plant species. A very common annual. **AC Sanders # 1213**. 24 Mar. 1980 [24 mars 1980]. /// Specimen data entered into **UCR** database. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F Freytag, Apr 6 1992. Colorado State University Herbarium. /// DGD: *filiformis*, 4 petites plantes en rosette avec racine pivotante herbacée, 4+4+2+2 racèmes, en floraison, jgo, go vertes. [UCR; 19-VIII-2014].

119119. Herbarium. Arizona State University. /// Specimen entered in ASU Database. /// ASU Vascular Plant Herbarium. Specimen Image Number, puis code barre ASU0024515. /// Herbarium of the University of California, Riverside. *Phaseolus filiformis* Benth. **Baja California Sur**, Mexico. Collected on sandy flats among low sandy hills 40 miles (65 km) west of Hwy 1 at Viscaino Junction. (27° 27'N, 113° 57'W). Viscaino Peninsula. *Frankenia palmeri* was the dominant perennial. 24 Mar. 1980 [24 mars 1980]. **AC Sanders 1225**. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 4 petites plantes en rosette avec racine herbacée pivotante, 2+2+2+3 racèmes, en floraison, go vertes. [ASU; 24-IX-2015].

UCR28394. /// Herbarium of the University of California, Riverside. Plants of **Baja California Sur**, Mexico. *Phaseolus filiformis* Benth. El Caimancito, 5 km north of La Paz along Hwy. 11 towards Pichilingue. (Near 110° 17'W, 24° 15'N). Collected on rocky alluvium cut by arroyos at the foot of steep-sided volcanic hills overlooking the Bahia de La Paz, across the highway from the Hotel El Presidente. Clay soil, very wet and sticky at this time. Desert scrub vegetation of *Bursera*, *Pachycereus*, *Fouquieria*, *Euphorbia*, *Jatropha cinerea*, & etc. An uncommon vining annual with deep pink flowers. Date 12 Dec. 1982 [12 décembre 1982]. Alt. 10-50 ft. [3-15 m]. Coll. **AC Sanders** & J West. No. **3281**. /// Specimen data entered into **UCR** database. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F Freytag, Apr 6 1992. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 5 racèmes, en floraison, jgo, go verte, go sèches. [UCR; 19-VIII-2014].

US1749059. /// United States National Museum. /// **7100**. Plants of Mexico. collected in **Baja California [Sur]**. *Phaseolus filiformis* Benth.. Loc: Concepcion Bay. Alt. 30 mi south of Mulege [sic !]. [26°35'N. 111° 47' 30"W]. Date Mar 14 1935 [14 mars 1935]. **Forrest Shreve**. /// United States National Herbarium. *Phaseolus filiformis* Benth., det. James Lackey, Jan 1980. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 21 Sep 1984. /// DGD: *filiformis*, 9 racèmes, en floraison, jgo, go vertes, go sèches, hétérophylle, tige volubile. [US; 1-IX-2009].

IBUG90981. Plantas de México. **Baja California Sur**. Herbario Nacional de Mexico. Instituto de Biología (MEXU). *Phaseolus acutifolius* A Gray var. *acutifolius*, det. M Sousa S., 1987. Isla Sta. Catalina (25°35'N 110° 47'W), lado SW de la Isla, en una pequeña ladera a unos 500 m del mar. Suelo arenoso rocoso. Veg. matorral espinoso. Trepadora con flores moradas y frutos verdes. Col. **M Sousa Peña 109**. 6 de noviembre de 1986. /// DGD: *filiformis*, 1 jeune plante avec racine fibreuse herbacée, 5 racèmes, en floraison, jgo, folioles extrêmement étroites 2 mm large 4 cm long, folioles latérales lobées avec lobe à angle 10-45-85°, acumen rond inexistant, bractéole avec 1 nervure. [IBUG; 30-X-2003].

118285. /// Plants of Baja California, Mexico. *Phaseolus filiformis* Benth.. Isla Smith. Sandy beaches. N°. **71**. 18 February 1977 [18 février 1977]. Collected by **Larry Spear**. Determined by Larry Spear. Fide: Piero

Delprete. Distributed by the Arboretum & Department of Botany, University of California, Davis. /// DGD: *filiformis*, une plante entière en rosette avec racine fibreuse herbacée, 6 racèmes, en floraison, j go, go vertes, go sèches, graines, petites folioles 9x7 mm, hétérophylle. [DAV; 19-IX-2008].

MO3599705. Plantas de México, [Baja California Sur](#). Herbario Nacional de Mexico (MEXU). *Phaseolus filiformis* Benth., det. A Delgado S., 1987. Loc: 18 km al N de Todos Santos. [23°44'N. 110°14'W]. Mpio La Paz. Alt. 180 msnm. Hierba postrada de flores lila frutos inmaduros, abundante. Veg. matorral arborescente. Suelo arcilloso arenoso amarillo. Col. [P Tenorio L. # 10416](#) y [C Romero de T., JI Solis & J Agundes E.](#) Octubre 13 de 1985. /// DGD: *filiformis*, 1 plante, 2 racèmes, en floraison. [MO; 7-VI-2002].

Herb. Hort. Kew. [cachet à l'encre noire]. /// Plantas de México, [Baja California Sur](#). Herbario Nacional de Mexico (MEXU). Instituto de Biología, UNAM. *Phaseolus filiformis* Benth., det. A Delgado S., 1988. Loc: 4 km de la desviación a Punta Abrejos, de la carr. San Ignacio- Guerrero Negro, Mpio de Santa Rosalia. Alt. 120 msnm. 27° 16'N. 113° 04'W. Enredadera, abundante, fl. rosas, fr. inmaduro. Veg. Izotal abierto, primaria. Suelo amarillo limoso. Fecha: 17 Abr 1987. Col. [Pedro Tenorio L. no. 12894](#), [C Romero de T.](#) Bajo el Patrocinio de CONACyT. /// Royal Botanic Gardens Kew. Code barre K001041689. /// DGD: *filiformis*, une plante en rosette avec racine fibreuse herbacée, une tige avec 3 racèmes, en go verte, go sèche. [K; 10-VI-2011; 1-III-2018].

MO3599671. Plantas de México, [Baja California Sur](#). Herbario Nacional de Mexico (MEXU). *Phaseolus filiformis* Benth., det. A Delgado S., 1988. Loc : 4 km de la desviación a Punta Abrejos de la carr. San Ignacio – Guerrero Negro. Mpio Santa Rosalia. Alt. 120 msnm. 27°16'N. 113°04'W. Enredadera, abundante, fl rosas, fr inmaduros. Veg. Izotal abierto, primaria. Suelo amarillo limoso. Fecha 17 abr 1987 [17 avril 1987]. Col. [Pedro Tenorio L. no. 12894](#), [C Romero de T.](#) /// DGD: *filiformis*, 1 plante, en floraison, jgo, go vertes, 6 gr/ go. [MO; 7-VI-2002].

MO3599672. Plantas de México, [Baja California Sur](#). Herbario Nacional de Mexico (MEXU). *Phaseolus filiformis* Benth., det. A Delgado S., 1988. Loc: Punta Abrejos. Mpio Santa Rosalia. Alt. 10 msnm. [Lat] 26° 44'N. Long. 113° 35'W. Hierba anual abundante, fl rosa fr inmaduro. Veg. dunas, suelo amarillo arenoso. Fecha 17 abr 1987 [17 avril 1987]. Col. [Pedro Tenorio L. no. 12914](#), [C Romero de T.](#) /// DGD: *filiformis*, 6 plantes, en floraison, jgo, go vertes, 5 gr/ go. [MO; 7-VI-2002].

Herb. Hort. Kew. [cachet à l'encre noire]. /// Plantas de México, [Baja California Sur](#). Herbario Nacional de Mexico (MEXU). Instituto de Biología, UNAM. *Phaseolus filiformis* Benth., det. A Delgado S., 1988. Loc : 12 km al NE de Bahía de Tortugas, brecha a Viscaino. Mpio de Santa Rosalia. Alt. 20 msnm. 27° 42'N. 114° 54'W. Hierba postrada abundante, fl rosa fr inmaduro. Veg. desierto sarcocauléscente primaria, suelo amarillo arenoso. Fecha 21 abr 1987. Col. [Pedro Tenorio L. no. 12991](#), [C Romero de T.](#) Bajo el Patrocinio de CONACyT. /// Royal Botanic Gardens Kew. Code barre K001041688. /// DGD: *filiformis*, 5 plantes avec racine fibreuse pivotante, en floraison, jgo, go vertes, 1+3+4+4+2 racèmes. [K; 10-VI-2011; 1-III-2018].

MO3599683. Plantas de México, [Baja California Sur](#). Herbario Nacional de Mexico (MEXU). *Phaseolus filiformis* Benth., det. A Delgado S., 1988. Loc : 12 km al NE de Bahía de Tortugas, brecha a Viscaino. Mpio de Santa Rosalia. Alt. 20 msnm. 27° 42'N. 114° 54'W. Hierba postrada abundante, fl rosa fr inmaduro. Veg. desierto sarcocauléscente primaria, suelo amarillo arenoso. Fecha 21 abr 1987 [21 avril 1987]. Col. [Pedro Tenorio L. no. 12991](#), [C Romero de T.](#) Bajo el Patrocinio de CONACyT. /// DGD: *filiformis*, 5 plantes, en floraison, jgo, go vertes, 4 gr/ go. [MO; 7-VI-2002].

US2975956. Territorio [Sur](#) de [Baja California](#). MEXICO. *Phaseolus filiformis* Benth.. Cape Region. About 6 miles southwest-wardly from Santiago. Arroyo San Marteo [sic!] from Agua Caliente Springs and dam to about 0.25 mile upstream. [23° 26' 45"N. 109° 47'W]. Alt. about 750-950 feet [260 m]. Stream flowing at this season. Granitic boulders common. Fl. lavender. [7723. John H Thomas](#). April 30, 1959 [30 avril 1959]. /// California Academy of Sciences. Expedition to Baja California. April 18 – May 31, 1959. sponsored by

the Belvedere Scientific Fund. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 17 Sep 1984. /// DGD: *filiformis*, 6 racèmes, en floraison, go vertes, go sèche. [US; 1-IX-2009].

US2975941. Territorio [Sur](#) de [Baja California](#). MEXICO. *Phaseolus filiformis* Benth. Rancho about 3 mi SE of Todos Santos along road to La Burrera. [23° 25' 20"N. 110° 12' 20"W]. Alt. about 1000 feet [300 m]. Arroyo with cottonwoods and palms. Fl. blue, growing in moist sand. [7867A. John H Thomas](#). May 15, 1959 [15 mai 1959]. /// California Academy of Sciences. Expedition to Baja California. April 18 – May 31, 1959. sponsored by the Belvedere Scientific Fund. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 14 Aug 1984. /// DGD: *filiformis*, 4 racèmes, en floraison, jgo, tiges grêles, folioles profondément lobées. [US; 1-IX-2009].

Dudley Herbarium of Stanford University. Plants of Baja California, Mexico. [John H Thomas 8361](#). *Phaseolus filiformis* Benth. Mexico, [Baja California \[Sur\]](#), about 6 miles northwest from Cuarenta, between San Ignacio and La Purísima. [26°12'N. 112°03'W]. Altitude about 100 feet. Fl pink, stems prostrate with more or less decumbent tips. October 26, 1959 [26 octobre 1959]. /// DGD: *filiformis*, en floraison, jgo, go vertes, plus de 10 racèmes. [ENCB; 11-14-VII-1978].

US2574511. Dudley Herbarium of Stanford University. Plants of [Baja California \[Sur\]](#), Mexico. *Phaseolus filiformis* Benth. About 6 miles northward (as measured along the road) from Cuarenta on road between San Ignacio and La Purísima. [26°12'N. 112°03'W]. Altitude about 100 feet [30 m]. Sandy coastal plain. Fl. pink. Stems prostrate with more or less decumbent tips. [John H Thomas. 8361](#). October 26, 1959. /// California Academy of Sciences. Expedition to Baja California. April 18 – May 31, 1959. sponsored by the Belvedere Scientific Fund. /// United States National Herbarium. *Phaseolus filiformis* Benth., det. James Lackey, Jan 1980. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 14 Aug 1984. /// DGD: *filiformis*, 4 racèmes, en floraison, plante en rosette avec tiges grêles et racine herbacée pivotante. [US; 1-IX-2009].

UCR131560. /// Herbarium of U.C. Riverside (UCR). Plants of [Baja California Sur](#), México. *Phaseolus filiformis* Benth., det. by A.C. Sanders. FAB. 25 miles north of La Paz, vicinity of El reposo/ El Porvenir. (approx. 24° 05'N, 110° 38'W). Alt.: 200-300 m/ 656-984 ft. [Tim Thomas 577B](#). 4 Feb 1983 [4 février 1983]. Entered into UCR Database (24759UCR1). /// Specimen data entered into UCR database. /// DGD: *filiformis*, 7 racèmes, en floraison, jgo, go vertes. [UCR; 19-VIII-2014].

UCR245398. /// San Diego Natural History Museum. Plants of [Baja California Sur](#), Mexico. Fabaceae. *Phaseolus filiformis* Benth. Mpio. Ensenada: Cañoncito de la Yegua. Southern Sierra San Pedro Martir, just past Rancho La Yegua. 30.4386° N [sic!], - 115.23° W. Elev. 0 to 1118 m. Vegetation: open semi desert above and riparian vegetation with Blue fan palms. [Sula Vanderplank 121018-5](#) with: Alan Harper, Josue Campos, Charlie de la Rosa. 18 October 2012 [18 octobre 2012]. /// Specimen data entered into UCR database. /// DGD: *filiformis*, 6 racèmes, en floraison, jgo, go vertes, go sèches. [UCR; 19-VIII-2014].

159591. /// Plants of Baja California. Estado de [Baja California Sur](#). Fabaceae. *Phaseolus filiformis* Benth. Mpio Santa Rosalia: Sierra San Francisco, Cañón San Pablo; floodplain with palm groves, scrub on rocky slopes. Prostrate vine, not common; corolla pink. Lat. 27° 43'N. Long. 113° 10'W. elev. 350-400. [Grady L Webster 31403](#). 21 Mar 1996 [21 mars 1996]. Herbarium, University of California, Davis (DAV). /// DGD: *filiformis*, 8 racèmes, en floraison, j go, go vertes, go sèches, graines. [DAV; 19-IX-2008].

Plants of Baja California. Estado de [Baja California Sur](#). Fabaceae. *Phaseolus filiformis* Benth.. Mpio Santa Rosalia: Sierra San Francisco, Cañón San Pablo; floodplain with palm groves, scrub on rocky slopes. Prostrate vine, not common; corolla pink. Lat. 27° 43' N, Long. 103° 10' W; elev. 350-400. [Grady L Webster 31403](#). 21 Mar 1996 [21 mars 1996]. Herbarium, University of California, Davis (DAV). /// code barre University of Texas – Austin (LL, TEX) 00418980. /// DGD: *filiformis*, 6 racèmes, en floraison, j go, go vertes, folioles profondément lobées. [TEX; 15-VIII-2008].

MEXU106722. Plants of [Baja California \[Sur\]](#), Mexico. *Phaseolus filiformis* Benth.. East facing slope of volcanic rhyolite arroyo, about 1 mile south of Mission Los Dolores. Altitude to 250 feet. Near Lat. 25° 05' N Long. 110° 54' W. Flowers lavender-pink. [Ira L Wiggins, Annetta Carter and WR Ernst 239](#). December 4, 1959. /// DGD: *filiformis*, en floraison, en go vertes. [UC; 24-X-2003].

UC224916. Dudley Herbarium of Stanford University. Plants of [Baja California \[Sur\]](#), Mexico. *Phaseolus filiformis* Benth.. East facing slope of volcanic rhyolite arroyo, about 1 mile south of Mission Los Dolores. Altitude to 250 feet [75 m]. Near Lat. 25° 05' N Long. 110° 54' W. Associates: *Jatropha spatulata*, *J. cinerea*, *Ruellia californica*, *Euphorbia* sp., *Melochia tomentosa*, *Cercidium peninsularis*, *Pachycereus thurberi*, *P. pringlei*, *Cassia covesii*, *Prosopis palmeri*, *Randia*, *Maximowiczia*, and *Hyptis laniflora*. Flowers lavender-pink. [Ira L Wiggins, Annetta Carter and WR Ernst 239](#). 4 December, 1959. /// California Academy of Sciences, Botanical Explorations in Baja California sponsored by the Belvedere Scientific Fund. /// DGD: *filiformis*, 2 plantes en rosette avec racine pivotante, 8 racèmes, en floraison, jgo, go vertes, développement hétéroblastique. [UC; 24-X-2003].

Dudley Herbarium of Stanford University. # [4801](#). Plants of Baja California, Mexico. *Phaseolus filiformis* Benth.. Among bushes along the Río Santo Domingo about 6 miles above the Mission. [25°31' N. 111°53' W]. Corolla light magenta-red. [IL Wiggins & D Demarée](#). 12 Sept. 1930. /// DGD: *filiformis*, en go vertes. [ARIZ; 15-II-1979].

UC524353. Dudley Herbarium of Stanford University. # [4801](#). Plants of Baja California [\[Sur\]](#), Mexico. *Phaseolus filiformis* Benth.. Among bushes along the Río Santo Domingo about 6 miles above the Mission. [25°31' N. 111°53' W]. Corolla light magenta-red. [IL Wiggins & D Demarée](#). 12 Sept. 1930 [12 septembre 1930]. /// *Phaseolus filiformis* Benth., det. GF Freytag, 20 Mar 1985. /// DGD: *filiformis*, 5 racèmes, en floraison, jgo, go vertes, go sèches; x2, aussi comme UC866114. [UC; 23-X-2003].

UC660706. Dudley Herbarium of Stanford University. [5533](#). Plants of [Baja California \[Sur\]](#), Mexico. *Phaseolus filiformis* Benth.. Between Medano and Venancio along dry washes. [24°30' N. 111°30' W]. [Ira L Wiggins](#). April 29, 1931. /// *Phaseolus filiformis* Benth., det. GF Freytag, 20 Mar 1985. /// DGD: *filiformis*, une plante en rosette à racine pivotante, 4 racèmes, en floraison, jgo, go sèches, 'scrappy'. [UC; 24-X-2003].

US1824150. /// United States National Museum. /// Dudley Herbarium of Stanford University. # [5533](#). Plants of [Baja California \[Sur\]](#), Mexico. *Phaseolus filiformis* Benth.. Between Medano and Venancio [24°30' N. 111°30' W]; along dry washes. [IL Wiggins](#). April 29, 1931 [29 avril 1931]. /// United States National Herbarium. *Phaseolus filiformis* Benth., det. James Lackey, Jan 1980. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 17 Aug 1984. /// DGD: *filiformis*, 6 racèmes, en floraison, go vertes, go sèches, une plante en rosette avec racine fibreuse pivotante. [US; 1-IX-2009].

Dudley Herbarium of Stanford University. Plants of [Baja California \[Sur\]](#), Mexico. *Phaseolus filiformis* Benth., Viscaino Desert 9.5 miles south of El Solito. In sandy *Yucca valida* association, Lat. 27°52' N, Long. 113°49' W. [Ira L. Wiggins 15123](#), 21 October 1959. /// DGD: *filiformis*, en go vertes. [ARIZ; 15-II-1979].

Dudley Herbarium of Stanford University. Plants of Baja California, Mexico. [Ira L Wiggins 15123](#). *Phaseolus filiformis* Benth. Mexico, [Baja California \[Sur\]](#), 9.5 miles south of El Solito, in sandy *Yucca valida* association, Viscaino Desert. Lat 27°52' N. Long 113°49' W. October 21, 1959. /// DGD: *filiformis*, en floraison, go vertes, 3 plantes en rosette. [ENCB; 11-14-VII-1978].

Dudley Herbarium of Stanford University. Plants of [Baja California \[Sur\]](#), Mexico. *Phaseolus filiformis* Benth.. Viscaino Desert 9.5 miles south of El Solito. In sandy *Yucca valida* association, Lat. 27°52' N, Long. 113°49' W. [Ira L. Wiggins 15123](#). 21 October 1959. /// DGD: *filiformis*, go vertes et go sèches. [G; 12-II-2002].

Dudley Herbarium of Stanford University. Plants of [Baja California \[Sur\]](#), Mexico. *Phaseolus filiformis* Benth. Viscaino Desert, 9.5 miles south of El Solito. In sandy *Yucca valida* association. Lat. N. 27°52', Long. 113°49'W. [Ira L Wiggins 15123](#). October 21, 1959. California Academy of Sciences. Botanical Explorations in Baja California sponsored by the Belvedere Scientific Fund. /// Herb. Hort. Bot. Reg. Kew. /// *Phaseolus filiformis* Benth. Ex num cit. Maréchal (1978). /// DGD: *filiformis*, en floraison, jgo, go vertes, 3 plantes en rosette avec racine herbacée pivotante, 3+6+8 racèmes. [K; 6-VIII-1985].

MEXU107940. Plants of [Baja California \[Sur\]](#), Mexico. *Phaseolus filiformis* Benth.. Viscaino Desert 9.5 miles south of El Solito. In sandy *Yucca valida* association, Lat. 27°52'N, Long. 113°49'W. [Ira L. Wiggins 15123](#). 21 October 1959. /// DGD: *filiformis*, en floraison, en go vertes. [MEXU; VII-1978].

200838. /// Dudley Herbarium of Stanford University. Plants of [Baja California \[Sur\]](#), Mexico. *Phaseolus filiformis* Benth.. Viscaino Desert, 9.5 miles South of El Solito. In sandy *Yucca valida* association. Lat. 27°52'N Long. 113°49'W. [Ira L Wiggins 15123](#). 21 October 1959. /// California Academy of Sciences. Botanical Explorations in Baja California, sponsored by the Belvedere Scientific Fund. /// The University of Texas Herbarium, Systematic Revision of Phaseolus. *Phaseolus filiformis* Benth. Alfonso Delgado S. 1985. /// Tropical Agriculture Research Station, ARS-USDA, Mayaguez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, May 25 1988. /// code barre University of Texas – Austin (LL, TEX) 00273141. /// DGD: *filiformis*, deux jeunes plantes en rosette avec racines herbacées pivotantes, 3+4 racèmes, en floraison, j go, go vertes, forte hétérophylie. [TEX; 15-VIII-2008].

UC210654. Dudley Herbarium of Stanford University. Plants of [Baja California \[Sur\]](#), Mexico. *Phaseolus filiformis* Benth.. Viscaino Desert, 9.5 miles South of El Solito. In sandy *Yucca valida* association. Lat. 27°52'N, Long. 113°49'W. [Ira L Wiggins 15123](#). 21 October 1959 [21 octobre 1959]. /// *Phaseolus filiformis* Benth., det. GF Freytag 20 Mar 1985. /// DGD: *filiformis*, 3 petites plantes en rosette avec racine pivotante, 6 racèmes, en jgo, go vertes, go sèches. [UC; 23-X-2003].

US2592474. A. Ex Herb. Calif. Acad. Sci. [cachet à l'encre noire]. Dudley Herbarium of Stanford University. Plants of [Baja California \[Sur\]](#), Mexico. *Phaseolus filiformis* Benth.. Viscaino Desert, 9.5 miles south of El Solito. In sandy *Yucca valida* association. Lat. N 27° 52', Long. 113° 49'W. [Ira L Wiggins 15123](#). October 21, 1959. /// California Academy of Sciences. Botanical Explorations in Baja California, sponsored by the Belvedere Scientific Fund. /// United States National Herbarium. *Phaseolus filiformis* Benth., det. James Lackey, Jan 1980. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 14 Aug 1984. /// DGD: *filiformis*, 2+3+0 racèmes, en floraison, jgo, go vertes, 3 petites plantes avec racine herbacée pivotante et rosette de tiges grêles, hétérophylie. [US; 2-IX-2009].

200676. /// Dudley Herbarium of Stanford University. Plants of [Baja California \[Sur\]](#), Mexico. *Phaseolus filiformis* Benth.. Vicinity of old pearl culture tanks. Bahia de San Gabriel, Isla Espiritú Santo. Lat. 24° 25'N. Long. 110° 25'W. [Ira L Wiggins 15229](#). November 1, 1959. /// California Academy of Sciences. Botanical Explorations in Baja California, sponsored by the Belvedere Scientific Fund. /// The University of Texas Herbarium, Systematic Revision of Phaseolus. *Phaseolus filiformis* Benth. Alfonso Delgado S. 1985. /// Tropical Agriculture Research Station, ARS-USDA, Mayaguez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, May 25 1988. /// code barre University of Texas – Austin (LL, TEX) 00273139. /// DGD: *filiformis*, trois jeunes plantes en rosette avec racines herbacées pivotantes, 0+4+4 racèmes, en floraison, j go, go verte, go sèches, forte hétérophylie. [TEX; 15-VIII-2008].

UC210787. Dudley Herbarium of Stanford University. Plants of [Baja California \[Sur\]](#), Mexico. *Phaseolus filiformis* Benth.. Vicinity of old pearl culture tanks. Bahia de San Gabriel, Isla Espiritú Santo. Lat. 24° 25'N. Long. 110° 25'W. [Ira L Wiggins 15229](#). November 1, 1959. /// *Phaseolus filiformis* Benth., det. GF Freytag, 22 Mar 1985. /// DGD: *filiformis*, 1 plante en rosette avec racine pivotante, 4 racèmes, en floraison, jgo, go verte. [UC; 24-X-2003].

MEXU106639. Plants of [Baja California \[Sur\]](#), Mexico. *Phaseolus filiformis* Benth.. Island San Ildefonso. [Lat. 26°38'N, Long. 111°26'W]. [Ira L. Wiggins 17418](#). 2 April 1962 [2 avril 1962]. /// DGD: *filiformis*, en floraison, en go vertes. [MEXU; VII-1978].

US3034465. Dudley Herbarium of Stanford University. Plants of Mexico. [\[Baja California Sur\]](#). *Phaseolus filiformis* Benth.. Gulf of California. Near south end of Isla Coronado. Lat. N 26 07.3, Long. 111 17 W. [Ira L Wiggins 17482](#). April 3, 1962 [3 avril 1962]. /// California Academy of Sciences. Botanical Explorations in Baja California, sponsored by the Belvedere Scientific Fund. /// Tropical Agriculture Research Station, ARS, USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 17 1988. /// DGD: *filiformis*, 7 racèmes, en jgo, go vertes, go sèches, spécimen mal pressé. [US; 2-IX-2009].

US2521845. Dudley Herbarium of Stanford University. Plants of Bahia de la Concepcion, [Baja California \[Sur\]](#), Mexico. *Phaseolus filiformis* Benth.. Gravelly hillside 200 m N of lighthouse, Mulege. [26°53'50"N. 111°57'W]. With *Jatropha cuneata*, *Lycium exsertum*, *Perityle emoryi*, *Krammeria grayi* Rose & Painter. [Ira L Wiggins & Dorothy B Wiggins 18072](#). 20 Oct 1962 [20 octobre 1962]. Sponsored by the Belvedere Scientific Fund. /// United States National Herbarium. *Phaseolus filiformis* Benth., det. James Lackey, Jan 1980. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 14 Aug 1984. /// DGD: *filiformis*, 7 racèmes, en floraison, jgo, jgo en transition à go vertes, go vertes, tiges grêles volubiles. [US; 1-IX-2009].

US83959. No. [23](#). *Phaseolus filiformis* Benth. (sed puberulus) [mal écrit à l'encre noire]. Cape St. Lucas & c. Lower California [\[Baja California Sur\]](#). Coll. [LJ Xantus](#). Aug. 1859 – Jan. 1860. /// Herbarium of the US Dept. Agriculture, 1888. [cachet à l'encre carmin]. /// United States National Herbarium. *Phaseolus filiformis* Benth., det. James Lackey, Jan 1980. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 20 Sep 1984. /// DGD: *filiformis*, 1+3 racèmes, en floraison, jgo, go verte, go sèche, un fragment peu fourni et une jeune plante avec racine herbacée pivotante. [US; 1-IX-2009].

ASU176360. /// Specimen entered in ASU Database. /// ASU Vascular Plant Herbarium. Specimen Image Number, puis code barre ASU0024512. /// The Colorado College Herbarium. Colorado Springs, Colorado 80903. Coll. No.: [428](#). County: [Baja CA Sur](#). State: Mexico. Family: Fabaceae. (*Phaseolus filiformis* Benth.). Habitat: vining on Sandy ground dampened by irrigation, full sun, Cabo San Lucas. Elevation: 100 feet [30 m]. Date: 5 March 1981 [5 mars 1981]. Collector: [Ann Zwinger](#). /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Dec 2 1991. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 5 racèmes, en jgo, go vertes, go sèche. [ASU; 24-IX-2015].

Chihuahua

F409658. Plants of Mexico. State of [Chihuahua](#). Sierra Madre. Mex. NW RR kilometer 85. Lat 30°38'N. Long 107°52'W. *Phaseolus wrightii* ? collected by [Bronson Barlow](#). 2 Oct., 1911 [2 octobre 1911]. /// *P. grayanus* W & S CVP 10/21/-4 [écrit au crayon sur la planche]. /// *P. filiformis* Benth., OW Norvell 11/22/49 [écrit au crayon sur la planche]. /// The University of Texas Herbarium, Systematic Revision of *Phaseolus*. *Phaseolus filiformis* Benth., Alfonso Delgado Salinas, 1985. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Jan 12, 1987. /// DGD: *filiformis*, 2 plantes entremêlées à racines fibreuses, en go vertes, go sèches, graines, 6 racèmes, port en rosette. [F; 31-VII-2004].

Coahuila

Lundell Herbarium. /// Mexico: western [Coahuila](#). *Phaseolus* [*wrightii* Gray, écrit au crayon noir par après]. Sierra de San Antonio, canyon at San Antonio de los Alamos. [27°36'N, 103°18'W]. Gravelly bed, sunny open canyon, prostrate. [I M Johnston](#), C H Muller n°. [901](#). Sept 2-3, 1940 [2-3 septembre 1940]. /// Treated in 1967 with lauryl pentachlorophenate ! /// The University of Texas Herbarium, Systematic Revision of *Phaseolus*. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F Freytag,

May 25, 1988. /// code barre University of Texas – Austin (LL, TEX) 00273143. /// DGD: *filiformis*, 7 racèmes, en floraison, j go, go vertes, go sèches. [LL; 15-VIII-2008].

40103. Herbario de la Universidad Autónoma Agraria Antonio Narro. Plantas de Coahuila, México. Mpio. de Torreón. 25-VIII-88. *Phaseolus filiformis* Benth.. Leguminosae. Sierra de Jimulco, proximidades al ejido de la Trinidad. 25° 08'N y 103° 22'W. Matorral de *Agave lechuguilla*, *Bouteloua ramosa*, *Caesalpinia sessilifolia*, *Jatropha dioica*, *Yucca rigida*. Ladera rocosa, 1900-2000 m. Col. JA Villareal 4418, MA Carranza y A Rodríguez. Det. Alfonso [sic!] Delgado Salinas. /// DGD: *filiformis*, 6 racèmes, en floraison, jgo, jgo en transition à go verte, go vertes, go sèches, hétérophylle. [ANSM; 14-XII-2011].

40104. Herbario de la Universidad Autónoma Agraria Antonio Narro. Plantas de Coahuila, México. Mpio. de Torreón. 25-VIII-88. *Phaseolus filiformis* Benth.. Leguminosae. Sierra de Jimulco, proximidades al ejido la Trinidad. 25° 08'N y 103° 22'W. Matorral de *Agave lechuguilla*, *Bouteloua ramosa*, *Caesalpinia sessilifolia*, *Jatropha dioica*, *Yucca rigida*. Ladera rocosa, 1900-2000 m. Col. JA Villareal 4418, MA Carranza y A Rodríguez. Det. Alfonso [sic!] Delgado Salinas. /// DGD: *filiformis*, 4 racèmes, en floraison, go vertes, go sèches, folioles lobées. [ANSM; 14-XII-2011].

ASU157286. /// Specimen entered in ASU Database. /// ASU Vascular Plant Herbarium. Specimen Image Number, puis code barre ASU0024518. /// Herbario de la Universidad Autónoma Agraria Antonio Narro. Plantas de Coahuila, México. Mpio. de Torreón. 25-VIII-88. *Phaseolus filiformis* Benth.. Leguminosae. Sierra de Jimulco, proximidades al ejido la Trinidad. 25° 08'N y 103° 22'W. Matorral de *Agave lechuguilla*, *Bouteloua ramosa*, *Caesalpinia sessilifolia*, *Jatropha dioica*, *Yucca rigida*. Ladera rocosa, 1900-2000 m. Col. JA Villareal 4418, MA Carranza y A Rodríguez. Det. Alfonso [sic!] Delgado Salinas. /// Tropical Agriculture Research Station, ARS-USDA, Mayaguez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 3 racèmes, en floraison, go vertes, go sèche. [ASU; 24-IX-2015].

CHAPA s.n. Plantas de Coahuila, Mexico. Mpio de Torreón. 25-VIII-88 [25 août 1988]. *Phaseolus filiformis* Benth.. Leguminosae, Sierra de Jimulco, proximidades al ejido La Trinidad. 25°08'N y 103°22'W. Matorral de *Agave lechuguilla*, *Bouteloua ramosa*, *Caesalpinia sessilifolia*, *Jatropha dioica*, *Yucca rigida*. Ladera rocosa. 1900-2000 m. Col. JA Villareal 4418, MA Carranza y A Rodríguez. Det. Alfonso Delgado Salinas. Herbario de la Universidad Autónoma Agraria Antonio Narro. /// DGD: *filiformis*, spécimen avec seulement un racème et une jgo, plante entière au début de floraison, racine fibreuse, développement hétéroblastique marqué, folioles partie supérieure lobées. [CHAPA; 8-VII-2004].

Instituto de Biología. Herbario Nacional. Mexico [cachet à l'encre rouge]. /// 545606 [cachet à l'encre noire]. /// Herbario de la Universidad Autónoma Agraria Antonio Narro. Plantas de Coahuila, Mexico. Mpio de Torreón. 25-VIII-88. *Phaseolus filiformis* A. Delgado [sic!]. Leguminosae. Sierra de Jimulco, proximidades al ejido La Trinidad. 25°08'N y 103°22'W. Matorral de *Agave lechuguilla*, *Bouteloua ramosa*, *Caesalpinia sessilifolia*, *Jatropha dioica*, *Yucca rigida*. Ladera rocosa. 1900-2000 m. Col. JA Villareal 4418, MA Carranza y A Rodríguez. Det. A. Delgado S. 1992. /// Base de datos Phaseolinae [cachet à l'encre bleue]. /// DGD: *filiformis*, 3 racèmes, en floraison, j go, j go en transition à go verte, go vertes, tiges volubiles, folioles lobées, lobes ronds et un peu 'squarish', la taille et la forme des go vertes ne laissent pas de doute que c'est *filiformis*, une carte indique par une étoile rouge le lieu de collecte à l'extrême SW de l'état de Coahuila. [MEXU; 28-I-2011].

Herbario de la Universidad Autónoma Agraria Antonio Narro. Plantas de Coahuila, México. Mpio. de Torreón. 25-VIII-88. *Phaseolus filiformis* Benth.. Leguminosae. Sierra de Jimulco, proximidades al ejido la Trinidad. 25° 08'N y 103° 22'W. Matorral de *Agave lechuguilla*, *Bouteloua ramosa*, *Caesalpinia sessilifolia*, *Jatropha dioica*, *Yucca rigida*. Ladera rocosa, 1900-2000 m. Col. JA Villareal 4418, MA Carranza y A Rodríguez. Det. Alfonso [sic!] Delgado Salinas. /// DGD: *filiformis*, 5 racèmes, en floraison, go vertes, go sèche; mixed specimen! [x2]. [NY; 19-II-2014].

53105. Herbario de la Universidad Autónoma Agraria Antonio Narro. Plantas de **Coahuila**, México. Mpio. de Ramos Arizpe. *Phaseolus filiformis* Benth. Leguminosae. Sierra de La Paila, Ejido El Cedral, camino hacia el valle de parreños. 25° 57'N y 101° 33'W. Bosque esparcido de *Quercus glaucoides*, *Juniperus flaccida*, *Pinus arizonica* y *P. cembroides*. 1800-1900 m. Suelo cálcico. 4 Oct. 1989. Col. **JA Villareal 5326**, MA Carranza y A Rdz [sic!; Aaron Rodríguez?]. Det. M.A. Carranza. /// DGD: *filiformis*, un seul racème, en début de floraison, racine fibreuse herbacée, hétérophylle. [ANSM; 13-XII-2011].

Durango

79586. Herbario CIIDIR. Plantas de **Durango**. Leguminosae. *Phaseolus grayanus* Wooton & Standl. ejotillo. Mexico, Durango, Mpio Mapimí. Reserva de la Biosfera de Mapimí, pileta de escurrimiento. 26° 40'31" N, 103° 44' 44" W, 1215 m. Matorral xerófilo (*Larrea*, *Opuntia* spp., *Jatropha*, *Tecoma*). Enredadera, abundante localmente, flor rosa. **A García 2786**. 1/9/1997. Det. A. García. Inecol. Bajo el patrocinio de CONABIO. /// DGD: *filiformis*, 7 racèmes, en floraison, jgo, jgo en transition à go vertes, go vertes, go sèches, folioles lobées, tiges grêles volubiles. [x 2]. [ANSM; 14-XII-2011].

IEB183201. Herbario CIIDir. Plantas de Durango. Leguminosae. *Phaseolus grayanus* Wooton & Standl. ejotillo. Mexico, **Durango**, Mpio Mapimí. Reserva de la Biosfera de Mapimí, pileta de escurrimiento. 26° 40'31" N, 103° 44' 44" W, 1215 m. Matorral xerófilo (*Larrea*, *Opuntia* spp., *Jatropha*, *Tecoma*). Enredadera, abundante localmente, flor rosa. **A García 2786**. 1/9/1997 [1^{er} septembre 1997]. Det. A. García. Inecol. Bajo el patrocinio de CONABIO. /// DGD: *filiformis*, en floraison, j go, go vertes, go sèches, graines (rugueuses typiques), folioles moyennes lobées, 8 racèmes. [IEB; 29-V-2008].

Instituto de Biología. C.S.L. Herbario Nacional. Mexico [cachet à l'encre rouge]. /// 1169006 [cachet à l'encre noire]. /// Herbario CIIDir. Plantas de Durango. Leguminosae. *Phaseolus grayanus* Wooton & Standl. ejotillo. Mexico, **Durango**, Mpio Mapimí. Reserva de la Biosfera de Mapimí, pileta de escurrimiento. 26° 40'31" N, 103° 44' 44" W, 1215 m. Matorral xerófilo (*Larrea*, *Opuntia* spp., *Jatropha*, *Tecoma*). Enredadera, abundante localmente, flor rosa. **A García 2786**. 1/9/1997. Det. A. García. Inecol. Bajo el patrocinio de CONABIO. /// Base de datos Phaseolinae [cachet à l'encre bleue]. /// Herbario Nacional (MEXU). *Phaseolus filiformis* Benth. det. Alfonso Delgado salinas, 200 [sic!]. /// DGD: *filiformis*, 5 racèmes, en floraison, j go, j go en transition à go verte, go vertes, tiges volubiles, folioles lobées, lobes ronds et un peu 'squarish', la taille et la forme de la go ne laissent pas de doute que c'est *filiformis*. [MEXU; 28-I-2011].

79583. Herbario CIIDIR. Plantas de **Durango**. Leguminosae. *Phaseolus grayanus* Wooton & Standl. ejotillo. Mexico, Durango, Mpio Mapimí. Reserva de la Biosfera de Mapimí, Arroyo El Puma. 26° 40'13" N, 103° 44' 19" W, 1265 m. Matorral xerófilo. Enredadera. **A García 3035**. 18/9/1998 [18 septembre 1998]. Det. A. García. Inecol. Bajo el patrocinio de CONABIO. /// DGD: *filiformis*, 2 racèmes, en floraison, go sèche, racine herbacée pivotante, hétérophylle. [ANSM; 14-XII-2011].

79660. Herbario CIIDIR. Plantas de **Durango**. Leguminosae. *Phaseolus grayanus* Wooton & Standl. ejotillo. Mexico, Durango, Mpio Mapimí. Reserva de la Biosfera de Mapimí, pileta de escurrimiento. 26° 40'31" N, 103° 44' 44" W, 1215 m. Matorral xerófilo. Herbácea. **A García 3800**. 23/9/1999 [23 septembre 1999]. Det. A. García. Bajo el patrocinio de CONABIO. /// DGD: *filiformis*, 2 racèmes, en go sèches. [ANSM; 14-XII-2011].

Sonora

Lundell Herbarium. University of Texas, Austin. /// Herbarium of the University of California. Mexico. State of **Sonora**. *Phaseolus*. Rocky, sandy desert around fishing club settlement at Cholla Bay, ca 7 miles northwest of Puerto Penasco. [31°24'N. 113°39'W]. **C Ritchie Bell 17552**. 7-8 April 1963. /// The University of Texas Herbarium, Systematic Revision of *Phaseolus*. *Phaseolus filiformis* Benth, Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS-USDA, Mayaguez, Puerto Rico 00708. *Phaseolus*

filiformis Benth., det. George F. Freytag, May 25 1988. /// code barre University of Texas – Austin (LL, TEX) 00273134. /// DGD: *filiformis*, plus de 10 racèmes, en floraison, j go, jo go en transition à go vertes, go vertes, go sèche, folioles profondément lobées. [x 2]. [LL; 15-VIII-2008].

UC1506201. Herbarium of the University of California. Mexico. State of [Sonora](#). *Phaseolus*. Rocky, sandy desert around fishing club settlement at Cholla Bay, ca 7 miles northwest of Puerto Penasco. [Lat 31°24'N. Long 113°39'W]. [C Ritchie Bell 17552](#). 7-8 April 1963. /// Annotation. *Phaseolus filiformis* Benth.. Duane Isely, 1948. /// DGD: *filiformis*, 1 plante en rosette avec racine pivotante, 15 racèmes, en floraison, jgo, go vertes, go sèches, développement hétéroblastique. [UC; 24-X-2003].

CAS533874. /// Plants of Mexico. Estado de [Sonora](#). *Phaseolus filiformis* Benth. Vine; flowers pink; steep rocky wash, Sierra de las Tenajas Altas near Mexican Highway #2, 58 miles east of San Luis Río Colorado. [32°12'20"N. 113°57'30"W]. Elevation 900 feet [270 m]. [D E Breedlove 15995](#). 29 February 1968 [29 février 1968]. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., Det George F Freytag, Mar 14 1989. /// DGD: *filiformis*, 9 racèmes, en floraison, j go, go verte, go sèche. [CAS; 25-IX-2008].

Instituto de Biología. Herbario Nacional. Mexico [cachet à l'encre rouge]. /// 385939 [cachet à l'encre noire]. /// University of Arizona Herbarium. [Sonora](#), Mexico. *Phaseolus filiformis* Benth. North end of Sierra Cirio (Sierra Bacha). Upper end of valley 1.5 km east of Punta Cirio. 29° 50'N lat, 112° 38'W long. Elev. ca. 100 m. Granitic alluvium. Scrub with *Bursera microphylla*, *B. hindsiana*, *Pachycereus pringlei*, *Jatropha cuneata*, *Opuntia bigelovii*. Occasional annual vine, often growing from bases of cactus. Twining. Petals pinkish- lavender. [TL Burgess 6423](#), RM Turner, G Byers. 11 January 1984. /// Base de datos Phaseolinae [cachet à l'encre bleue]. /// DGD: *filiformis*, 4 racèmes, en floraison, folioles profondément lobées à lobes ronds. [MEXU; 28-I-2011].

Instituto de Biología. Herbario Nacional. Mexico [cachet à l'encre rouge]. /// 296450 [cachet à l'encre noire]. /// University of Arizona Herbarium. [Sonora](#), Mexico. *Phaseolus filiformis* Benth.. Growing among rocks near shore; near San Agustín Bay. Lat. 28.3° N Long. 111.4° W [sic!]. March 22, 1978. [Marshall Burke 79-31](#). /// Base de datos Phaseolinae [cachet à l'encre bleue]. /// DGD: *filiformis*, 6 racèmes, en floraison, j go, j go en transition à go vertes, go vertes, go sèche, petites folioles profondément lobées, tiges grêles. [MEXU; 28-I-2011].

UC1488885. University of Arizona Herbarium. [Sonora](#), Mexico. *Phaseolus filiformis* Benth.. Growing among rocks near shore; near San Agustín Bay. Lat. 28.3° N Long. 111.4° W [sic!]. March 22, 1978. [Marshall Burke 79-31](#). /// *Phaseolus filiformis* Benth., det. GF Freytag, 22 Mar 1985. /// DGD: *filiformis*, 8 racèmes, en jgo, go vertes. [UC; 23-X-2003].

Instituto de Biología. Herbario Nacional. Mexico [cachet à l'encre rouge]. /// 920661 [cachet à l'encre noire]. /// Flora de la Región Sur de Hermosillo, [Sonora](#), México. Fabaceae. *Phaseolus filiformis* Benth., det. A. Búrquez 1992. Nombre común: frijol. Loc. 2.5 km al sur de Hermosillo, Son. Cerros graníticos con rocas masivas y planicies arenosas. Area de exhibición y áreas circundantes del Centro Ecológico de Sonora. 29° 1'N, 110° 57'W, 250 m. Forma biológica: herbacea. Obs. Hierba anual, común en áreas perturbadas. Col. [A Búrquez](#). No. colecta: 92-[259](#). 25/3/1992 [25 mars 1992]. /// Base de datos Phaseolinae [cachet à l'encre bleue]. /// DGD: *filiformis*, 7 racèmes, en floraison, j go, go vertes, go sèche, tiges grêles volubiles, petites folioles lobées. [MEXU; 28-I-2011].

Instituto de Biología. Herbario Nacional. Mexico [cachet à l'encre rouge]. /// 157875 [cachet à l'encre noire]. /// Herbarium Los Angeles County Museum. *Phaseolus filiformis* Benth. Location: Punta Penasco. [31° 17' 40"N. 113° 33'W]. Habitat: [blanc]. State: [Sonora](#). County: [sic!] Mexico. Elevation: 50'. Coll. [C Cunningham](#) No. [blanc]. Date: March 27, 1940. /// Los Angeles County Museum of Natural History Herbarium. Accession No. 6432. 75016. Cancelled [cachet à l'encre noire]. /// Base de datos Phaseolinae

[cachet à l'encre bleue]. /// DGD: *filiformis*, plus de 10 racèmes, en floraison, j go, j go en transition à go vertes, go vertes, go sèches, spécimen très touffu, plante entière avec base de racine pivotante herbacée; pas de numéro de collecte. [MEXU; 28-I-2011].

DS275290. /// Field Museum Expedition to Sonora and Southwestern United States, 1939-1940. Flora of [Sonora](#). 3875. *Phaseolus filiformis* Benth.. Sprawling on moist sand, shore of tidal pond at Miramar Beach, Guaymas. [27°55'N. 110°57'W]. 5 December 1939. [Francis Drouet](#) & Donald Richards. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., Det George F Freytag, Mar 14 1989. /// DGD: *filiformis*, deux plantes entières avec racines fibreuses pivotantes, 1+3 racèmes, en go sèches, spécimen pauvre. [CAS; 25-IX-2008].

F1013751. Field Museum Expedition to Sonora and Southwestern United States, 1939-1940. Flora of [Sonora](#). 3875. *Phaseolus filiformis* Benth.. sprawling on moist sand, shore of tidal pound at Miramar Beach, Guaymas. [Lat 27°55'N. Long 110°57'W]. 5 december 1939. [Francis Drouet](#) & [Donald Richards](#). /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Jan 12, 1987. /// DGD: *filiformis*, en floraison, 5 racèmes, go vertes, go sèches, 1 plante avec racine fibreuse pivotante. [F; 31-VII-2004].

US Natl Arb 113851. /// Field Museum Expedition to Sonora and Southwestern United States, 1939-1940. Flora of [Sonora](#). 3875. *Phaseolus filiformis* Benth.. Sprawling on moist sand, shore of tidal pound at Miramar Beach, Guaymas. [Lat 27°55'N. Long 110°57'W]. 5 December 1939. [Francis Drouet](#) & [Donald Richards](#). /// Poisoned [cachet à l'encre noire]. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 29 Aug 1985. /// DGD: *filiformis*, une plante avec racine pivotante herbacée fibreuse, en rosette, 5 racèmes, en floraison, j go, go sèches, forte hétérophilie. [NA; 21-VII-2006].

DS273421. /// Field Museum Expedition to Sonora and Southwestern United States, 1939-40. Flora of [Sonora](#). 4016. *Phaseolus filiformis* Benth.. On rocky hillside by beach 4 km east of Guaymas. [27°56'N. 110°47'W]. 16 December 1939. [Francis Drouet](#) & Donald Richards. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., Det George F Freytag, Mar 14 1989. /// DGD: *filiformis*, quatre plantes entières avec racines fibreuses pivotantes, 0+1+1+2 racèmes, en j go, go vertes, sèches, spécimen pauvre. [CAS; 25-IX-2008].

F1014212. Field Museum Expedition to Sonora and Southwestern United States, 1939-40. Flora of [Sonora](#). 4016. *Phaseolus filiformis* Benth.. on rocky hillside by beach 4 km east of Guaymas. [Lat 27°56'N. Long 110°47'W]. 16 december 1939. [Francis Drouet](#) & [Donald Richards](#). /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Jan 12, 1987. /// DGD: *filiformis*, 1 plante à racine fibreuse, folioles petites étroites à lobes très prononcés, 6 racèmes, fleurs, jgo, go vertes, go sèche, graines. [F; 31-VII-2004].

Instituto de Biología. C.S.L. Herbario Nacional. Mexico [cachet à l'encre rouge]. /// 790541 [cachet à l'encre noire]. /// Plantas de México: [Sonora](#). Colecciones Biológicas Nacionales. Herbario Nacional (MEXU). *Phaseolus filiformis* Benth. Loc. Tinaja Suvuk, 31° 46'N, 113° 28'W, al E del Pinacate, Sonora. Litosol. [M Equihua](#). 4 abril 1983. Det. R.S. Felger. /// Base de datos Phaseolinae [cachet à l'encre bleue]. /// DGD: *filiformis*, 3 racèmes, en floraison, j go, j go en transition à go vertes, go vertes; pas de numéro de collecte. [MEXU; 28-I-2011].

Instituto de Biología. A.R.D. Herbario Nacional. Mexico [cachet à l'encre rouge]. /// 730038 [cachet à l'encre noire]. /// Plantas de México: [Sonora](#). Colecciones Biológicas Nacionales. Herbario Nacional (MEXU). *Phaseolus filiformis* Benth. Loc. Tinaja Suvuk, 31° 46'N, 113° 28'W, Pinacate, Sonora. Litosol. [Exequiel Ezcurra](#). 28 octubre 1982. Det. R.S. Felger. /// Base de datos Phaseolinae [cachet à l'encre bleue]. /// DGD: *filiformis*, 8 racèmes, en floraison, j go, j go en transition à go vertes, go vertes, go sèches; pas de numéro de collecte. [MEXU; 28-I-2011].

Instituto de Biología. Herbario Nacional. Mexico [cachet à l'encre rouge]. /// 386314 [cachet à l'encre noire]. /// Plantas de México: [Sonora](#). Colecciones Biológicas Nacionales. Herbario Nacional (MEXU). *Phaseolus filiformis* Benth. Loc. Meseta basáltica al NW del Ejido Valle del Pinacate, 31° 38'N, 113° 29'W, Pinacate, Sonora. Litosol. [E Ezcurra](#). 30 octobre 1982. Det. R.S. Felger. /// Base de datos Phaseolinae [cachet à l'encre bleue]. /// DGD: *filiformis*, 6 racèmes, en floraison, j go, j go en transition à go verte, go vertes, go sèches, hétérophylie; pas de numéro de collecte. [MEXU; 28-I-2011].

Instituto de Biología. A.R.D. Herbario Nacional. Mexico [cachet à l'encre rouge]. /// 729986 [cachet à l'encre noire]. /// Plantas de México: [Sonora](#). Herbario Nacional de México. Instituto de Biología (MEXU). *Phaseolus filiformis* Benth. Loc. meseta basáltica al NW del ejido Valle del Pinacate, 31° 38' N, 113° 29' W, Pinacate Sonora. Litosol, sobre cauce. [Exequiel Ezcurra](#). 30 octobre 1982. det. R. S. Felger. /// Base de datos Phaseolinae [cachet à l'encre bleue]. /// DGD: *filiformis*, 6 racèmes, en floraison, j go en transition à go verte, go vertes, go sèches; pas de numéro de collecte. [MEXU; 27-I-2011].

Instituto de Biología. Herbario Nacional. Mexico [cachet à l'encre rouge]. /// 401776 [cachet à l'encre noire]. /// Plantas de México: Sonora. Colecciones Biológicas Nacionales. Herbario Nacional (MEXU). *Phaseolus filiformis* Benth. Loc. Tinaja Suvuk, 31° 46'N, 113° 28'W, Pinacate, [Sonora](#). Fluvisol. [Exequiel Ezcurra s.n.](#) 1 abril 1983. Det. R.S. Felger. /// Base de datos Phaseolinae [cachet à l'encre bleue]. /// DGD: *filiformis*, plus de 10 racèmes, en floraison, j go, j go en transition à go vertes, go verte, spécimen mal pressé; pas de numéro de collecte. [MEXU; 28-I-2011].

Arizona State University (ASU). Code barre. 268116. Vascular Plant Herbarium. /// Specimen entered in ASU Database. /// ASU Vascular Plant Herbarium. Specimen Image Number, puis code barre ASU0024520. /// University of Arizona Herbarium (ARIZ). Plants of [Sonora](#), Mexico. *Phaseolus filiformis* Benth. Municipio de Guaymas. Estero Soldado, east of Bahía San Carlos. Strand between estero and sea. On an extensive shell midden that is nearly barren except for *Fagonia*, *Cryptandra angustifolia*, and *Marina parryi*. Sand soil. Locally common. [Richard S Felger 85-682](#), with Jean Russell. 13 March 1985. Duplicates to: ASU, TEX, USON. /// DGD: *filiformis*, 7 racèmes, en floraison, jgo, go vertes, go sèches, spécimen à peu près défolié. [ASU; 25-IX-2015].

University of Arizona Herbarium (ARIZ). Plants of [Sonora](#), Mexico. *Phaseolus filiformis* Benth. Municipio de Guaymas. Estero Soldado, east of Bahía San Carlos. [Lat 27°57'30"N. Long 110°58'45"W]. Strand between estero and sea. On an extensive shell midden that is nearly barren except for *Fagonia*, *Cryptandra angustifolia*, and *Marina parryi*. Sand soil. Locally common. [Richard S Felger 85-682](#), with Jean Russell. 13 March 1985 [13 mars 1985]. Duplicates to: ASU, TEX, USON. /// DGD: *filiformis*, 7 racèmes, en j go, go vertes, go sèches, spécimen mal pressé. [TEX; 15-VIII-2008].

Instituto de Biología. G.Q.F.. Herbario Nacional. Mexico [cachet à l'encre rouge]. /// 812709 [cachet à l'encre noire]. /// University of Arizona Herbarium. Plants of [Sonora](#), Mexico. *Phaseolus filiformis* Benth. Base of small rocky hill adjacent to Estero Soldado, ca 9 km NW of Guaymas. Vicinity 27°57'42"N, 110°58'42"W. [Richard S Felger 85-1444](#), Barbara Straub. 21 November 1985. /// Base de datos Phaseolinae [cachet à l'encre bleue]. /// DGD: *filiformis*, plus de 12 racèmes, en floraison, j go, j go en transition à go vertes, go vertes, go sèches, tiges grêles volubiles. [MEXU; 27-I-2011].

University of Arizona Herbarium. Plants of [Sonora](#), Mexico. *Phaseolus filiformis* Benth. Base of small rocky hill adjacent to Estero Soldado, ca 9 km NW of Guaymas. Vicinity 27°57'42"N, 110°58'42"W. [Richard S Felger 85-1444](#), Barbara Straub. 21 November 1985. /// code barre University of Texas – Austin (LL, TEX) 00273146. /// DGD: *filiformis*, 6 racèmes, en floraison, j go, go vertes, go sèches, folioles profondément lobées. [TEX; 15-VIII-2008].

Instituto de Biología. Herbario Nacional. Mexico [cachet à l'encre rouge]. /// 558046 [cachet à l'encre noire].
 /// University of Arizona Herbarium. Plants of **Sonora**, Mexico. *Phaseolus filiformis* Benth. Pinacate Region, southeast slope of Pinacate Peak, loose cinder soil, ca 1200 m elevation. Abundant. **Richard S Felger 86-457**, Gene E Joseph. 13 October 1986. /// Base de datos Phaseolinae [cachet à l'encre bleue]. /// DGD: *filiformis*, 8 racèmes, en floraison, go vertes, go sèches, hétérophylie, une plante en rosette avec racine fibreuse pivotante et branche détachée, folioles profondément lobées à lobes ronds. [MEXU; 28-I-2011].

MO4267106. University of Arizona Herbarium. Plants of **Sonora**, Mexico. *Phaseolus filiformis*. Pinacate Region, southeast slope of Pinacate Peak. Loose cinder soil. ca 1200 m elevation. [Lat 31°46'N. Long 113°30'W]. Abundant. **Richard S Felger 86-457**, Gene E Joseph. 13 October 1986. /// DGD: *filiformis*, 1 plante, 6 racèmes, en floraison, jgo, go vertes, 6 gr/ go. [MO; 7-VI-2002].

Instituto de Biología. Herbario Nacional. Mexico [cachet à l'encre rouge]. /// 558065 [cachet à l'encre noire].
 /// University of Arizona Herbarium. Plants of **Sonora**, Mexico. *Phaseolus filiformis* Benth. Pinacate Region, Tinaja de los Papagos. Common along brushy arroyo banks, corolla pink. **Richard S Felger 86-476**, Gene E Joseph. 14 October 1986. /// Base de datos Phaseolinae [cachet à l'encre bleue]. /// DGD: *filiformis*, 4 racèmes, en floraison, go verte en transition à go sèche, folioles profondément lobées à lobes ronds. [MEXU; 28-I-2011].

University of Arizona Herbarium. Plants of **Sonora**, Mexico. *Phaseolus filiformis* Benth. Pinacate Region, Tinaja de los Papagos. Common along brushy arroyo banks, corolla pink. **Richard S Felger 86-476**, Gene E Joseph. 14 October 1986. /// code barre University of Texas – Austin (LL, TEX) 00273143. /// DGD: *filiformis*, un seul petit racème, en tt début de floraison, forte hétérophylie. [TEX; 15-VIII-2008].

114765. Herbarium. Arizona State University. /// Specimen entered in ASU Database. /// ASU Vascular Plant Herbarium. Specimen Image Number, puis code barre ASU0024516. /// University of Arizona Herbarium. **Sonora**, Mexico. *Phaseolus filiformis* Benth.. Playa sediment, east playa of Molina Crater, Pinacate region, northwestern Sonora. *Cercidium floridum*, *Prosopis*, *Franseria deltoidea* and dense growth of ephemerals. Very common vining ephemeral. Growing over shrubs and other ephemerals. Flowers pink. **Richard S Felger 10636** & Edward P Lincoln. 29 September 1964. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 4 racèmes, en floraison, jgo, go vertes. [ASU; 24-IX-2015].

University of Arizona Herbarium. **Sonora**, Mexico. *Phaseolus filiformis* Benth.. playa sediment, east playa of Molina Crater, Pinacate region, northwestern Sonora. [Lat 31°50'N. Long 113°45'W]. *Cercidium floridum*, *Prosopis*, *Franseria deltoidea* and dense growth of ephemerals. Very common vining ephemeral. Growing over shrubs and other ephemerals. Flowers pink. Coll. **Richard S Felger 10636** & Edward P Lincoln. Date: 29 September 1964 [29 septembre 1964]. /// DGD: *filiformis*, 10 racèmes, en floraison, jgo. [ENCB; 23-IX-2004].

Instituto de Biología. Herbario Nacional. Mexico [cachet à l'encre rouge]. /// 294711 [cachet à l'encre noire].
 /// University of Arizona Herbarium. Sonora, Mexico. *Phaseolus filiformis* Benth.. Playa sediment, east playa of Molina Crater, Pinacate region, northwestern **Sonora**. [Lat 31°50'N. Long 113°45'W]. *Cercidium floridum*, *Prosopis*, *Franseria deltoidea* and dense growth of ephemerals. Very common vining ephemeral. Growing over shrubs and other ephemerals. Flowers pink. **Richard S Felger 10636** & Edward P Lincoln. 29 September 1964. /// The University of Texas Herbarium. Systematics of Phaseolus. *Phaseolus filiformis* Benth. Alfonso Delgado S. 1985. /// Base de datos Phaseolinae [cachet à l'encre bleue]. /// DGD: *filiformis*, 5 racèmes, en floraison, j go, j go en transition à go vertes, go vertes, go sèches, folioles avec lobes un peu 'squarish' et lobes ronds, tiges grêles volubiles; une carte indique avec une étoile rouge le lieu de collecte à l'ouest de Sonoyta. [MEXU; 28-I-2011].

University of Arizona Herbarium. Plants of **Sonora**, Mexico. *Phaseolus filiformis* Benth. Isla San Esteban, north side of island. [Lat 28°43'N. Long 112°35'W]. Arroyo bottom; abundant. [R S Felger 15413](#), J M Cooper. 21-22 December 1966. /// code barre University of Texas – Austin (LL, TEX) 00273147. /// DGD: *filiformis*, 6 racèmes, en floraison, j go, go sèches, folioles profondément lobées, racine fibreuse herbacée. [TEX; 15-VIII-2008].

38286. Plants of Tiburon Island, **Sonora**, Mexico. *Phaseolus filiformis* Benth. Tordillitos, vicinity of 28° 48'N Latitude, 112° 31'W Longitude. Col. [Richard S. Felger](#) no. [15505](#) & John Miller Cooper. Date 22 December 1966. Det. RSF. /// DGD: *filiformis*, 4 racèmes, en floraison, jgo, jgo en transition à go verte, forte hétérophylie. [ANSM; 13-XII-2011].

CHAPA s.n. Plants of Tiburón Island, **Sonora**, Mexico. *Phaseolus filiformis* Benth.. Tordillitos, vicinity of 28°48'N latitude, 112°31'W longitude. Coll. RSF & John Miller Cooper. [Richard S Felger](#) no. [15505](#). Date 22 december 1966 [22 décembre 1966]. Det. RSF. /// DGD: *filiformis*, 3 racèmes, en floraison, jgo, go vertes, plutôt 'scrappy'; une carte de l'île Tiburon indique le site de collecte sur la côte au SW de l' île. [CHAPA; 8-VII-2004].

Instituto de Biología. Herbario Nacional. Mexico [cachet à l'encre rouge]. /// 453517 [cachet à l'encre noire]. /// Plants of Tiburon Island, **Sonora**, Mexico. *Phaseolus filiformis* Benth. Tordillitos, vicinity of 28° 48'N latitude, 112° 31'W longitude. Col. [Richard S. Felger](#) no. [15505](#) & John Miller Cooper. Date 22 December 1966. Det. RSF. /// Base de datos Phaseolinae [cachet à l'encre bleue]. /// DGD: *filiformis*, 8 racèmes, en floraison, j go, j go en transition à go vertes, go vertes, go sèches, tiges grêles; une carte avec un point rouge indique le lieu de collecte au SW de l'île. [MEXU; 28-I-2011].

Los Angeles County Museum of Natural History. Plants of Tiburon Island, **Sonora**, Mexico. *Phaseolus filiformis* Benth.. vicinity of El Monumento, south east corner of island near 28°461/4' N lat. 112°15'W long. Coll. [Richard S Felger 15523](#) & [John Miller Cooper](#). Date: 22 December 1966 [22 décembre 1966]. /// DGD: *filiformis*, plus de 10 racèmes, en floraison, jgo, go sèches, graines. [x 2]. [ENCB; 23-IX-2004].

UCR46390. /// Los Angeles County Museum of Natural History. Plants of Tiburon Island, **Sonora**, Mexico. *Phaseolus filiformis* Benth.. Vicinity of El Monumento, south east corner of island near 28°461/4' N Lat., 112°15'W Long. Coll. RSF & John Miller Cooper. [Richard S Felger](#) No. [15523B](#). Date: 22 December 1966. DET: RSF. /// Specimen data entered into UCR database. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F Freytag, Apr 6 1992. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 7 racèmes, en floraison, jgo, go sèches. [UCR; 19-VIII-2014].

University of Arizona Herbarium. [RS Felger et al. 19734](#). *Phaseolus filiformis* Benth. Mexico, **Sonora**, near Emilia Tank, Pinacate region. Rugged lava hills and arroyo surrounding the tinajas. 400 masl. Vicinity Lat 31°47'N. Long 113°27 ½ 'W. April 20, 1970. /// DGD: *filiformis*, en floraison, go vertes, 3 racèmes. [ENCB; 11-14-VII-1978].

University of Arizona Herbarium. [RS Felger 20018](#). *Phaseolus filiformis* Benth. Mexico, **Sonora**, Sykes Crater, NW part of Pinacate. [Lat 31°58'N. Long 113°37'W]. Playa sediments, crater floor. Elev. 155 masl. December 8, 1970. /// DGD: *filiformis*, en floraison, go vertes, 4 racèmes, important dimorphisme foliaire. [ENCB; 11-14-VII-1978].

ASU249627. /// Specimen entered in ASU Database. /// ASU Vascular Plant Herbarium. Specimen Image Number, puis code barre ASU0024526. /// University of Arizona Herbarium (ARIZ). Plants of **Sonora**, Mexico. Fabaceae. *Phaseolus filiformis* Benth.. Municipio de Puerto Peñasco. Cerro Prieto, volcanic hill on the coast ca 12 km northwest of Puerto Peñasco. 31° 23' 14.6", 113° 36' 12.2"W. Elev.: 83 m (GPS; WGS 84). Near top of high dune at southeast side of hill. [Richard S Felger 03-470](#), with Joseph W McShane. 25

October 2003 [25 octobre 2003]. Duplicates to: USON, MEXU, ASU. /// DGD: *filiformis*, une plante entière avec racine herbacée pivotante, 2 racèmes, en floraison, go verte. [ASU; 25-IX-2015].

CHAPA s.n. Universidad de Sonora. DICTUS Herbario USON. Flora de [Sonora](#). Leguminosae. *Phaseolus filiformis* Benth.. Bejuco de 2-3 m, flores morado pálido, frutos verdes, frecuente. Loc: Sierra El Aguaje, Aguaje Robinson, unos 10 km al NW de San Carlos, Mpio de Guaymas, Son.. 28°03'30"N. 111°06'42"W. Alt. 150 msnm. Fecha 29/11/97 [20 novembre 1997]. Hab: matorral xerófilo con elementos de bosque tropical caducifolio: *Acacia*, *Larrea*, *Fouquieria*, *Ficus*, *Ipomoea*, *Bursera*, *Croton*, *Agave*. Suelo litosol café claro. Col. [Agustín Flores M. 5093](#) y Oscar Gutiérrez R.. Det. Agustín Flores M., 1997. /// DGD: *filiformis*, 4 racèmes, en go verte, go sèches. [CHAPA; 8-VII-2004].

University of Arizona Herbarium. Plants of Mexico. *Phaseolus filiformis* Benth. Sandy coastal hills, in Ocotillo- *Jatropha*- *Encelia* association, altitude near sea level. Cholla Bay near and north of Punta Penasco. [Sonora](#). [Lat 31°21'N. Long 113°38'W]. [Frank W Gould 4137](#). January 27, 1947. /// DGD: *filiformis*, en go vertes. [ARIZ; 15-II-1979].

CAS341819. /// University of Arizona Herbarium. Plants of Mexico. *Phaseolus filiformis* Benth. Sandy coastal hills, in ocotillo- *Jatropha*- *Encelia* association, altitude near sea level. Cholla Bay near and north of Punta Penasco. [31°21'N. 113°38'W]. [Sonora](#). [Frank W Gould 4137](#). January 27, 1947. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., Det George F Freytag, Mar 14 1989. /// DGD: *filiformis*, une plante entière avec racine fibreuse pivotante, 10 racèmes, en floraison, j go, j go en transition à go vertes, go vertes, go sèches, forte hétérophylie. [CAS; 25-IX-2008].

UC773459. University of Arizona Herbarium. Plants of Mexico. *Phaseolus filiformis* Benth. Sandy coastal hills, in Ocotillo- *Jatropha*- *Encelia* association, altitude near sea level. Cholla Bay near and north of Punta Penasco. [Sonora](#). [Lat 31°21'N. Long 113°38'W]. [Frank W Gould 4137](#). January 27, 1947. /// *Phaseolus filiformis* Benth., det. GF Freytag 22 Mar 1985. /// DGD: *filiformis*, 11 racèmes, en floraison, jgo, go vertes, go sèches, développement hétéroblastique. [UC; 23-X-2003].

CAS318053. /// Dudley Herbarium of Stanford University. [23](#). Plants of [Sonora](#), Mexico. *Phaseolus filiformis* Benth.. South side of the rocky point at Punta Penasco [sic!]. [31°20'N. 113°34'W]. [BJ Hammerly](#). 3/26/41. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., Det George F Freytag, Mar 14 1989. /// DGD: *filiformis*, 7 racèmes, en floraison, j go, go vertes, go sèche, forte hétérophylie. [x 2]. [CAS; 25-IX-2008].

US Natl Arb 298989. /// Dudley Herbarium of Stanford University. [23](#). Plants of [Sonora](#), Mexico. *Phaseolus filiformis* Benth. South side of the rocky point at Punta Penasco. [Lat 31°20'N. Long 113°34'W]. [B J Hammerly](#). 3/26/41. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 29 Aug 1985. /// DGD: *filiformis*, 5 racèmes, en floraison, j go, go vertes, go sèches, graines; le '23' est le numéro du collecteur. [NA; 21-VII-2006].

UC718786. Dudley Herbarium of Stanford University. [23](#). Plants of [Sonora](#), Mexico. *Phaseolus filiformis* Benth.. South side of the rocky point at Punta Penasco. [Lat 31°20'N. Long 113°34'W]. [BJ Hammerly](#). 3/26/41 [26 March 1941]. /// *Phaseolus filiformis* Benth., det. GF Freytag, 22 Mar 1985. /// DGD: *filiformis*, 7 racèmes, en floraison, jgo, go vertes, go sèches, développement hétéroblastique. [UC; 23-X-2003].

ASU183863. /// Specimen entered in ASU Database. /// ASU Vascular Plant Herbarium. Specimen Image Number, puis code barre ASU0024506. /// Fabaceae of Mexico. *Phaseolus filiformis* Benth. [Sonora](#): Parque Nacional el Pinacate, along trail to saddle of cerro to east and Carnegie Peak to northwest, 113° 30' E longitude, 31° 47'N latitude, 600 meters. West edge of hoy-hoy lava flow, towards Carnegie Peak, with *Encelia farinosa*, *Jatropha cardiophylla*, *Bursera microphylla*, *Asclepias albicans*, *Lophocereus schottii*,

Fouquieria splendens; further up trail towards Carnegie Peak and a' - a' lava [sic!] found *Viguiera deltoidea*, *Bebbia juncea*, *Mirabilis bigelovii*, *Opuntia bigelovii*, *Hyptis emoryi*. Growing in patches, in *Justicia californica*, east side of Carnegie Peak. Wendy Hodgson 5361, Caroline Wilson, Gary Nabhan. 10 December 1988 [10 décembre 1988]. Herbarium of Desert Botanical Garden (DES). /// DGD: *filiformis*, 3 racèmes, en go sèches à déhiscence spiralee. [ASU; 24-IX-2015].

CAS61756. /// California Academy of Sciences. Expedition to the Gulf of California. Guaymas, Sonora. *Phaseolus filiformis* Benth.. On island in bay in shade of cliff. [27°53'20"N. 110°50'03"W]. Coll. Ivan M Johnston 3089. April 14, 1921 [14 avril 1921]. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., Det George F Freytag, Mar 14 1989. /// DGD: *filiformis*, 4 racèmes, en go verte, go sèches, graines. [CAS; 25-IX-2008].

UCR35745. /// University of Arizona Herbarium. Sonora, Mexico. *Phaseolus filiformis* Benth. Annual vine in washes and on rocky slopes ; Red Cone Camp, about 4 miles east of Pinacate Peak; Pinacate Mountains. [31° 43'N, 113° 13'W]. G Joseph. 24 February 1984 [24 février 1984]. /// Specimen data entered into UCR database. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F Freytag, Apr 6 1992. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 8 racèmes, en floraison, jgo, folioles profondément lobées; pas de numéro de collecte. [UCR; 19-VIII-2014].

DS356691. /// Herbarium of Francia Chisaki and Peter Kamb. Plants of Sonora, Mexico. *Phaseolus angustissimus* Gray. Twining, climbing perennial; corolla pink. Among shrubs up to 3 feet high. Open sandy flats. *Larrea-Franseria* scrub with *Carnegie gigantea*, *Cercidium floridum*, *Acacia*, and *Hilaria rigida*. Bottom of north-eastern caldera of Molina Crater, crater region north-west of Sierra Pinacate. [31°50'N. 113°45'W]. Altitude ca 950 feet. Peter Kamb 2011. 29 April 1951. /// California Academy of Sciences. *Phaseolus filiformis* Benth., R. Buhrow, 10-18-85. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., Det George F Freytag, Mar 14 1989. /// DGD: *filiformis*, 5 racèmes, en floraison, j go, j go en transition à go verte, go vertes. [CAS; 25-IX-2008].

ISC211513 /// Distributed by the Herbarium of the University of California. /// Herbarium of Francia Chisaki and Peter Kamb. Plants of Sonora, Mexico. *Phaseolus angustissimus* Gray. Twining, climbing perennial, corolla pink. Among shrubs up to 3 feet high. Open sandy flats. *Larrea - Franseria* scrub with *Carnegie gigantea*, *Cercidium floridum*, *Acacia*, and *Hilaria rigida*. Bottom of north-eastern caldera of Molina Crater, crater region northwest of Sierra Pinacate. [31°50'N. 113°45'W]. Altitude ca 950 feet [290 m]. Peter Kamb 2011. 29 April 1951 [29 avril 1951]. /// DGD: *filiformis*, 4 racèmes, en floraison, jgo, go vertes, go sèche, folioles profondément lobées à lobes ronds. [ISC; 20-IV-2010].

UC972310. Herbarium of Francia Chisaki and Peter Kamb. Plants of Sonora, Mexico. *Phaseolus angustissimus* Gray. Twining, climbing perennial, corolla pink. Among shrubs up to 3 feet high. Open sandy flats. *Larrea-Franseria* scrub with *Carnegie gigantea*, *Cercidium floridum*, *Acacia*, and *Hilaria rigida*. Bottom of north-eastern caldera of Molina Crater, crater region north-west of Sierra Pinacate. [Lat 31°50'N. Long 113°45'W]. Altitude ca 950 feet [290 m]. Peter Kamb 2011. 29 April 1951. /// *Phaseolus filiformis* Benth., det. GF Freytag, 25 Mar 1985. /// DGD: *filiformis*, 6 racèmes, en floraison, jgo, go vertes, go sèches, 1 plante en forte rosette avec racine pivotante un peu lignifiée. [UC; 24-X-2003].

DS679819. /// Carnegie Institution of Washington, Division of Plant Biology. Plants of Mexico. State of Sonora, district of Altar. *Phaseolus filiformis* Benth.. Passo San Emeterio, Sierra de San Emeterio, 6 mi N of Quitovac on road to Sonoyta. [31°51'N. 113°48'W]. Elev. ca 600 m (1950 ft). In sandy wash; rare. Climbing through *Bebbia juncea* to a height of 1 m. Biennial to perennial, petals rose-pink, the banner paler than the wings and whitish dorsally. March 13, 1936. Collected by David D Keck n°. 4120. /// Gift of the Carnegie Institution of Washington, Department of Plant Biology, Stanford, California. December 1970. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det

George F Freytag, Mar 14 1989. /// DGD: *filiformis*, une plante entière avec racine fibreuse pivotante, plus de 10 racèmes, en floraison, j go, go vertes, go sèches. [x 3]. [CAS; 25-IX-2008].

F1585902. Carnegie Institution of Washington, Division of Plant Biology. Plants of Mexico. State of **Sonora**, district of Altar. *Phaseolus filiformis* Benth.. Passo San Emeterio, Sierra de San Emeterio, 6 mi N of Quitovac on road to Sonoyta. [Lat 31°51'N. Long 113°48'W]. Elev. ca 595 m (1950 ft). in sandy wash climbing thru *Bebbia juncea* to a height of 1 m. rare. Biennial to perennial, petals rose-pink, the banner paler than the wings and whitish dorsally. March 13, 1936. Collected by **David D Keck no. 4120**. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Jan 12, 1987. /// DGD: *filiformis*, 6 racèmes, en go vertes, go sèches, graines. [F; 31-VII-2004].

MO1210128. Carnegie Institution of Washington. Division of Plant Biology. Plants of Mexico. State of **Sonora**, district of Altar. *Phaseolus filiformis* Benth.. Passo [sic!] San Emeterio, sierra de San Emeterio, 6 mi N of Quitovac on road to Sonoyta. [Lat 31°51'N. Long 113°48'W]. Elev. ca 595 m (1950 ft.). In sandy wash. Climbing thru *Bebbia juncea* to a height of 1 m. Rare biennial or perennial. Petals rose pink, the banner paler than the wings and whitish dorsally. March 13 1936. Coll. **David D Keck 4120**. /// The University of Texas Herbarium, Systematic Revision of Phaseolus. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Jun 23 1986. /// DGD: *filiformis*, 2 plantes, en floraison, jgo, go vertes, 3 gr/ go. [MO; 7-VI-2002].

UC586800. Carnegie Institution of Washington. Division of Plant Biology. Plants of Mexico. State of **Sonora**, district of Altar. *Phaseolus filiformis* Benth.. Passo [sic!] San Emeterio, Sierra de San Emeterio, 6 mi N of Quitovac on road to Sonoyta, elev. ca 595 m (1950 ft.). [Lat 31°51'N. Long 113°48'W]. In sandy wash. Climbing thru *Bebbia juncea* to a height of 1m. Rare. Biennial or perennial. Petals rose pink, the banner paler than the wings and whitish dorsally. March 13, 1936 [13 mars 1936]. Collected by **David D Keck no. 4120**. /// *Phaseolus filiformis* Benth., det. GF Freytag, 20 Mar 1985. /// DGD: *filiformis*, 7 racèmes, en floraison, jgo, go vertes, go sèches. [UC; 23-X-2003].

US1726695. /// United States National Museum. /// Carnegie Institution of Washington, Division of Plant Biology. Plants of Mexico. State of **Sonora**, district of Altar. *Phaseolus filiformis* Benth.. Passo [sic !] San Emeterio, Sierra de San Emeterio, 6 mi N of Quitovac on road to Sonoyta, elev. ca. 595 m (1950 ft.). [31°51'N. 113°48'W]. In sandy wash. Climbing thru *Bebbia juncea* to a height of 1 m. Rare. Biennial or perennial. Petals rose-pink, the banner paler than the wings and whitish dorsally. March 13, 1936. Collected by **David D Keck**, no. 4120. /// United States National Herbarium. *Phaseolus filiformis* Benth., det. James Lackey, Jan 1980. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 14 Aug 1984. /// DGD: *filiformis*, 9 racèmes, en floraison, jgo, go vertes, go sèches, graines, tiges grêles volubiles. [US; 1-IX-2009].

Beal-Darlington Herbarium. Michigan State University. **IW Knobloch 2513**. *Phaseolus acutifolius* Asa Gray. Mexico, **Sonora**, W of Hermosillo, Bahia Kino (Nuevo), east facing hillside near airstrip and below a reservoir. [Lat 28°52'N. Long 112°00'W]. July 15, 1973 [15 juillet 1973]. /// Instituto de Biología. *Phaseolus filiformis* Benth., det. Alfonso O. Delgado S., 1980. /// DGD: *filiformis*, en floraison, go vertes, go sèches, 5 racèmes. [ENCB; 11-14-VII-1978].

Instituto de Biología. Herbario Nacional. Mexico [cachet à l'encre rouge]. /// 183431 [cachet à l'encre noire]. /// Plants of Mexico. *Phaseolus acutifolius* S. Wats. [sic!]. east-facing hillside nr [sic!] airstrip and below a reservoir. Bahia Kino (Nuevo), **Sonora**, W of Hermosillo. July 15, 1973. **IW Knobloch 2513**. Beal-Darlington Herbarium. Michigan State University. /// Herbario Nacional del Instituto de Biología. *Phaseolus filiformis* Benth., Alfonso O. Delgado S., 1980. /// Base de datos Phaseolinae [cachet à l'encre bleue]. /// DGD: *filiformis*, 6 racèmes, en floraison, j go, j go en transition à go verte, folioles avec lobes un peu 'squarish', tiges grêles volubiles. [MEXU; 28-I-2011].

IW Knonloch 2513. *Phaseolus acutifolius* A Gray. Mexico, **Sonora**, Bahia Kino (Nuevo), W of Hermosillo. [Lat 28°52'N. Long 112°00'W]. East facing hillside N airstrip and below reservoir. July 15, 1973. /// DGD: *filiformis*, en floraison; erreur typographique: Knobloch !?. [MSC; 29-VI-1988].

Instituto de Biología. Herbario Nacional. Mexico [cachet à l'encre rouge]. /// 595391 [cachet à l'encre noire]. /// San Diego Natural History Museum. Plants of **Sonora**, Mexico. Fabaceae. *Phaseolus filiformis* Benth.. Twining over shrubs; corolla pink. Mun. Pitiquito: 62.7 miles (101 km) (road) northwest of Morelos on highway to Puerto de la Libertad, ca 4.5 km southeast of the turnoff to San Ignacio. 29° 36'N, 112° 16'W. Elev. ca. 200 m. Wash in Sonoran desert scrub. Between volcanic hills. **Geoffrey A Levin 2188**. 16 April 1992 [16 avril 1992]. /// Base de datos Phaseolinae [cachet à l'encre bleue]. /// DGD: *filiformis*, 7 racèmes, en floraison, j go en transition à go vertes, go vertes, go sèches, tiges grêles. [MEXU; 28-I-2011].

UCR84152. /// San Diego Natural History Museum. Plants of **Sonora**, Mexico. Fabaceae. *Phaseolus filiformis* Benth.. Twining over shrubs; corolla pink. Mun. Pitiquito: 62.7 miles (101 km) (road) northwest of Morelos on highway to Puerto de la Libertad, ca 4.5 km southeast of the turnoff to San Ignacio. 29° 36'N, 112° 16'W. Elev. ca. 200 m. Wash in Sonoran desert scrub. Between volcanic hills. **Geoffrey A Levin 2188**. 16 April 1992. /// Specimen data entered into UCR database. /// DGD: *filiformis*, 4 racèmes, en floraison, jgo, go vertes, go sèches, spécimen peu folié, folioles profondément lobées. [UCR; 19-VIII-2014].

US1268772. /// United States National Museum. /// Plants of Mexico. *Phaseolus* sp. 2 miles from Libertad, **Sonora**. [29°53'20"N. 112°38'50"W]. **Frances Long 2**. March 23, 1926 [23 mars 1926]. /// United States National Herbarium. *P. filiformis* Benth., Oliver W. Norvell, 11/30/49 [30 novembre 1949; écrit au crayon noir par O.W. Norvell]. /// United States National Herbarium. *Phaseolus filiformis* Benth., det. James Lackey, Jan 1980. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 14 Aug 1984. /// DGD: *filiformis*, 4 racèmes, en floraison, go sèches, tiges grêles volubiles, spécimen très pauvre. [US; 1-IX-2009].

US574256. /// United States National Museum. /// 48. Plants of Mexico. *Phaseolus wrightii* A Gray. Papago Tanks, **Sonora**. Nov. 17, 1907 [17 novembre 1907]. **D T MacDougal**. /// United States National Herbarium. *P. filiformis* Benth., Oliver W. Norvell, 11/29/49 [29 novembre 1949; écrit au crayon noir par O.W. Norvell]. /// United States National Herbarium. *Phaseolus filiformis* Benth., det. James Lackey, Jan 1980. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 14 Aug 1984. /// DGD: *filiformis*, 2 racèmes, en tt début de floraison, une plante en rosette avec tiges grêles volubiles et racine fibreuse herbacée pivotante. [US; 1-IX-2009].

Flora de Guaymas, **Sonora**, Mex. [Lat 27°55'N. Long 110°54'W]. D^r **Edward Palmer**. 1887. no. 250. *Phaseolus filiformis* Benth.. /// DGD: *filiformis*, en floraison. [ARIZ; 15-II-1979].

Flora of Guaymas, [**Sonora**], Mex. [Lat 27°55'N. Long 110°54'W]. D^r **Edward Palmer**. Oct. 1-22/ 1887 [1-22 octobre 1887]. N^o. 250. *Phaseolus filiformis* Benth. /// DGD: *filiformis*, 3 racèmes, en floraison, go sèche, racine fibreuse pivotante. [BM; 9-VIII-1985].

Flora of Guaymas, [**Sonora**], Mex. [Lat 27°55'N. Long 110°54'W]. D^r **Edward Palmer**, 1887. No 250. *Phaseolus filiformis* Benth. /// *Phaseolus filiformis* Benth. Ex num cit. Maréchal (1978). /// DGD: *filiformis*, en floraison, go verte, go sèches, 4 racèmes. [K; 6-VIII-1985].

Instituto de Biología. Herbario Nacional. Mexico [cachet à l'encre rouge]. /// 155078 [écrit à l'encre noire]. /// Flora of Guaymas, [**Sonora**], Mex. [Lat 27°55'N. Long 110°54'W]. D^r **Edward Palmer**. Oct. 1-22/ 1887 [1-22 octobre 1887]. N^o. 250. *Phaseolus filiformis* Benth. /// Base de datos Phaseolinae [cachet à l'encre bleue]. /// DGD: *filiformis*, 4 racèmes, en floraison, go sèches, folioles lobées à lobes ronds. [MEXU; VII-1978; 28-I-2011].

UC82390. Flora de Guaymas, Mex. [Lat 27°55'N. Long 110°54'W]. Dr [Edward Palmer](#). 1887. no. 250. *Phaseolus filiformis* Benth.. /// *Phaseolus filiformis* Benth., det. GF Freytag 22 Mar 1985. /// DGD: *filiformis*, en floraison, jgo, go vertes, 3 racèmes. [UC; 23-X-2003].

CHAPA s.n. University of Arizona Herbarium. [Sonora](#), Mexico. *Phaseolus filiformis* Benth.. Bahia Kino. [Lat 28°49'N. Long 111°56'W]. [James Patton](#), [Oscar Soulé](#). 29 December 1966. det. R.S. Felger. /// DGD: *filiformis*, 7 racèmes, en floraison, jgo, go vertes, go sèches, graines; certaines folioles à lobes très découpés rappelant *purpusii* ou *polymorphus*; une étoile rouge sur une carte de Sonora et BC indique le site à 1' W de Hermosillo; pas de numéro de collecte. [CHAPA; 8-VII-2004].

35854. Herbarium. Arizona State University. /// Specimen entered in ASU Database. /// ASU Vascular Plant Herbarium. Specimen Image Number, puis code barre ASU0024508. /// Plants of Mexico. Herbarium of Arizona State University. Leguminosae. *Phaseolus filiformis* Benth. County: State of [Sonora](#). Location: Cholla Bay. Habitat: south slope of a sand dune. Elev.: [blanc]. Collector: [Jean Redden](#). Date: 15-I-66 [15 janvier 1966]. Det.: [blanc]. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 2 racèmes, en go sèches à déhiscence spiralée; pas de numéro de collecte. [ASU; 24-IX-2015].

MO3538265. J Ricketson Herbarium. Plants of Mexico. *Phaseolus filiformis* Benth.. Petals pink-lavender, seed light with dark splotches; abundant perennial with *Atriplex*, *Tiquilia*, *Tribulus* and *Dalea*. [Sonora](#): collected along sandy beach (Norse Beach), between Pelican Point and Playa Hermosa at Puerto Peñasco (Rocky Point). [Lat 31°18'N. Long 113°32'W]. Dec 17 1984. 10 ft. [J Ricketson 2237](#). /// DGD: *filiformis*, 2 racèmes, en go vertes, 4 gr/ go. [MO; 7-VI-2002].

Instituto de Biología. Herbario Nacional. Mexico [cachet à l'encre rouge]. /// 358774 [cachet à l'encre noire]. /// Herbarium of the University of California, Riverside. Plants of [Sonora](#), Mexico. *Phaseolus filiformis* Benth.. North end of the Sierra El Viejo in the large canyon containing the Mina Santa Cruz, 25 mi SW of Caborca. (near 112°22'W, 30°22'N). Rocky canyon bottom near mine and steep, mostly limestone ridges above. Dominants include: *Cercidium microphyllum*, *Sapium*, *Encelia farinose*, *Carnegiea*, *Fouquieria splendens*, *Croton sonora*, *Opuntia bigelovii*. An uncommon pink-flowered annual growing along the wash. Date 8 Mar 1983. Alt. 1800 ft. Coll. [A C Sanders](#), M Dimmitt, G Montgomery et al. N°. 3542. /// Base de datos Phaseolinae [cachet à l'encre bleue]. /// DGD: *filiformis*, 3 racèmes, en floraison, j go, go verte, racine herbacée pivotante. [MEXU; 28-I-2011].

Herbarium of the University of California, Riverside. Plants of [Sonora](#), Mexico. *Phaseolus filiformis* Benth.. North end of the Sierra El Viejo in the large canyon containing the Mina Santa Cruz, 25 mi SW of Caborca. (near 112°22'W. 30°22'N). Rocky canyon bottom near mine and steep, mostly limestone ridges above. Dominants include: *Cercidium microphyllum*, *Sapium*, *Encelia farinose*, *Carnegiea*, *Fouquieria splendens*, *Croton sonora*, *Opuntia bigelovii*. An uncommon pink-flowered annual growing along the wash. Date 8 Mar 1983 [8 mars 1983]. Alt. 1800 ft. [550 m]. Coll. [A C Sanders](#), M Dimmitt, G Montgomery et al. N°. 3542. /// The University of Texas Herbarium, Systematic Revision of *Phaseolus*. *Phaseolus filiformis* Benth., Alfonso Delgado S. 1985. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, May 25 1988. /// code barre University of Texas – Austin (LL, TEX) 00273144. /// DGD: *filiformis*, une plante entière avec racine fibreuse herbacée pivotante, 5 racèmes, en j go, go vertes, go sèche. [TEX; 15-VIII-2008].

UCR30114. /// Herbarium of the University of California, Riverside. Plants of [Sonora](#), Mexico. *Phaseolus filiformis* Benth.. North end of the Sierra El Viejo in the large canyon containing the Mina Santa Cruz, 25 mi SW of Caborca. (near 112°22'W, 30°22'N). Rocky canyon bottom near mine and steep, mostly limestone ridges above. Dominants include: *Cercidium microphyllum*, *Sapium*, *Encelia farinose*, *Carnegiea*, *Fouquieria splendens*, *Croton sonora*, *Opuntia bigelovii*. An uncommon pink-flowered annual growing along the wash.

Date 8 Mar 1983. Alt. 1800 ft. Coll. [A C Sanders](#), M Dimmitt, G Montgomery et al. N°. 3542. /// Specimen data entered into UCR database. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F Freytag, Apr 6 1992. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 5 racèmes, en floraison, jgo, go verte, plante avec racine pivotante, hétérophylle. [UCR; 19-VIII-2014].

UCR41145. /// Herbarium of the University of California, Riverside. Plants of [Sonora](#), Mexico. *Phaseolus filiformis* Benth.. Mpio. de Puerto Penasco: NE slopes of Cerro del Pinacate at and above Red Cone Camp, WSW of Sonoyta and N of Puerto Penasco. (near 113d 30'W, 31d 50'N). Sonoran desert scrub with *Larrea*, *Encelia*, *Carnegiea*, *Cercidium*, *Opuntia*, *Fouquieria*, etc. on basalt flows and other volcanics. Date: 24 Apr. 1985 [24 avril 1985]. Alt. \pm 1800 ft. [549 m]. Coll. [AC Sanders](#) & KR Neisess. No. 5692. /// Specimen data entered into UCR database. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F Freytag, Apr 6 1992. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 6 racèmes, en floraison, jgo, go sèches, hétérophylle. [UCR; 19-VIII-2014].

New Mexico State University 52766 Data-Based. /// 754. *Phaseolus filiformis* Benth. FAB. [R. Soreng](#) & R. Spellenberg. 4/2/1980 [2 avril 1980]. Mexico, [Sonora](#), sea cliffs, 6 mi S of Puerto Libertad, Sea of Cortez. On steep granitic cliffs in craigs on N end of range. In vicinity of *Idria columnaris*, *Galezia*, *Frankenia*, *Hoffmeisteria*, *Jatropha cuneata*, *J. cinerea*, *Bursura* [sic!], *Euphorbia misera*, *Mamillaria microcarpa*, *Agave*, *Ditaxis*, *Solanum*. /// DGD: *filiformis*, une plante en rosette avec racine herbacée pivotante, forte hétérophylle, 4 racèmes, en floraison, go vertes. [NMC; 29-VIII-2017].

25824. University of Arizona Herbarium. [Sonora](#), Mexico. *Phaseolus filiformis* Benth.. Locally common annual on south facing slope of micro-ondas near Guaymas with *Bursera microphylla*, *Ipomoea arborescens* and *Acacia willardii*. [27°55'N. 110°54'W]. [G Starr 680](#). 30 October 1983. /// DGD: *filiformis*, une plante avec racine tubéreuse pivotante, hétérophylle, 7 racèmes, en floraison, jgo en transition à go vertes, go vertes, go sèche, graines. [ANSM; 14-XII-2011].

University of Arizona Herbarium. [Sonora](#), Mexico. *Phaseolus filiformis* Benth.. Locally common annual on south facing slope of micro-ondas near Guaymas with *Bursera microphylla*, *Ipomoea arborescens* and *Acacia willardii*. [Lat 27°55'N. Long 110°54'W]. [Coll.] [G Starr 680](#). 30 October 1983. /// DGD: *filiformis*, 1 plante, 6 racèmes, en floraison, jgo, go vertes. [ENCB; 23-IX-2004].

Instituto de Biología. T.C.C. Herbario Nacional. Mexico [cachet à l'encre rouge]. /// 1226155 [cachet à l'encre noire]. /// Plantas de la Bahía de Guaymas, [Sonora](#), México. Familia: Fabaceae. *Phaseolus filiformis* var ND [sic!]. Col. [Carmen Gabriela Suarez Gracida](#). Fecha: 28/09/2006 [28 septembre 2006]. No. ejemplar: CGSG-2006-148. Isla: Alma Grande. 27° 54' 51"N, 27° 54' 29"N, 110° 52' 32"W, 110° 52' 10"W [sic!]. Exposición: W. sustrato: rocoso. Vegetación: mezcla heterogenea de matorral sarcocaulé con matorral crassicaule con dominancia de *Pachycereus pringlei* y *Jatropha cuneata*. El litoral salino y arenoso y todas las pendientes, basálticas muy rocosas. Det. Alberto Búrquez Montijo. /// Base de datos Phaseolinae [cachet à l'encre noire]. /// DGD: *filiformis*, 4 racèmes, en floraison, j go. [MEXU; 27-I-2011].

Instituto de Biología. Herbario Nacional. Mexico [cachet à l'encre rouge]. /// 316915 [cachet à l'encre noire]. /// University of Arizona Herbarium. Plants of Mexico. *Phaseolus filiformis* Benth. Vine, in sandy soils. 45 mi (by road) west Sonoita, [Sonora](#), Mexico, on San Luis road. [32° 04'N. 113° 43'W]. March 13, 1959 [13 mars 1959]. [RM Turner 59-5](#), CH Lowe Jr. 2954. /// Base de datos Phaseolinae [cachet à l'encre bleue]. /// DGD: *filiformis*, 10 racèmes, en floraison, j go, j go en transition à go vertes, go vertes, tiges grêles volubiles, folioles profondément lobées à lobes ronds. [MEXU; 28-I-2011].

CHAPA s.n. University of Arizona Herbarium. [Sonora](#), Mexico. *Phaseolus filiformis* Benth., det. C. Breslin, 1979. Annual vine on *Frankenia*, *Haplopappus sonorensis* and *Prosopis juliflora*; behind barrier dune. Kino

Bay. [Lat 28°49'N. Long 111°56'W]. December 30, 1979. [TR van Devender](#), [S Hunt](#). /// DGD: *filiformis*, 7 racèmes, en floraison, jgo, go verte, go sèches, graines; pas de numéro de collecte. [CHAPA; 8-VII-2004].

UCR35732. /// University of Arizona Herbarium. [Sonora](#), Mexico. *Phaseolus filiformis* Benth. (det. R. Buhrow, 1984). 4.1 miles northwest of Kino Bay on road to Punta Chueca [28° 58'20"N, 112° 05'W]; abundant sprawling vine; roadside; flower pink-purple. [RK VanDevender 83-93](#), TR VanDevender. 27 December 1983 [27 décembre 1983]. /// Specimen data entered into UCR database. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F Freytag, Apr 6 1992. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 6 racèmes, en floraison, jgo, go sèches, folioles profondément lobées. [UCR; 19-VIII-2014].

Instituto de Biología. C.S.L. Herbario Nacional. Mexico [cachet à l'encre rouge]. /// 1146724 [cachet à l'encre noire]. /// Flora of [Sonora](#), Mexico. *Phaseolus filiformis* Benth., det. A. Delgado Salinas, 2004. 27.4 km south of Restaurant Los Arrieros, 4.4 km north of Pemex El Caballo (toll road turnoff north of Guaymas) km 143 on Mex 15; Central Gulf Coast desert scrub\ coastal thornscrub transition dominated by *Fouquieria diguetii*; 28° 04' 54"N, 110° 57' 18"W. Occasional herbaceous vine in gravel in wash; flowers pink. [TR Van Devender 98-26](#), AL Reina G., B Skye, MA Dimmitt. Municipio de Guaymas. 12 January 1998. /// Base de datos Phaseolinae [cachet à l'encre bleue]. /// DGD: *filiformis*, 2 racèmes, en floraison, spécimen mal pressé. [MEXU; 28-I-2011].

101191. /// Plants of Mexico. *Phaseolus filiformis* Benth.. [Sonora](#): Pinacate region, El Elegante crater, desert scrub on slopes of rim, alt. 250-300 m, 31.56 N, 113.34 W; stems viny. 21 Mar 1978 [21 mars 1978]. N°. [22359](#). Collected by [Grady L Webster](#). Determined by GLW. Distributed by the Department of Botany, University of California, Davis. /// DGD: *filiformis*, 3 racèmes, en floraison, j go, go verte. [DAV; 19-IX-2008].

86104. /// Plants of [Sonora](#), Mexico. *Phaseolus filiformis* Benth.. Sierra Bacha, SE of Punta Cirió, 1-2 km inland up arroyo with *Idria*, approx. 29° 50'N, 112° 37-38'W, alt. 50-150 m; vine with pink fls. N°. [22432](#). 24 Mar 1978 [24 mars 1978]. Collected by [Grady L Webster](#). Distributed by the Department of Botany, University of California, Davis. /// DGD: *filiformis*, une plante entière en rosette avec racine herbacée pivotante, plus de 10 racèmes, en floraison, j go, go vertes, go sèches, graines, forte hétérophylie, folioles petites profondément lobées 13x10 mm. [DAV; 19-IX-2008].

Instituto de Biología. G.Q.F.. Herbario Nacional. Mexico [cachet à l'encre rouge]. /// 792472 [cachet à l'encre noire]. /// Plants of Mexico. *Phaseolus filiformis* Benth.. [Sonora](#): Sierra Bacha, SE of Punta Cirió, 1-2 km inland up arroyo with *Idria*, c. 29° 50'N, 112° 37-38'W, alt. 50-150 m; vine with pink fls. 24 Mar 1978. N°. [22432](#). Collected by [Grady L Webster](#). Determined by GLW. Distributed by the Department of Botany, University of California, Davis. /// Base de datos Phaseolinae [cachet à l'encre bleue]. /// DGD: *filiformis*, 7 racèmes, en floraison, j go, go verte, tiges grêles volubiles. [MEXU; 27-I-2011].

DS288853. /// Flora of the Sonoran Desert. Plants of [Sonora](#), Mexico. Distributed by the Dudley Herbarium of Stanford University. *Phaseolus filiformis* Benth. Fls. magenta; sandy flats 1.5 miles north of the village of Kino Bay. [28°52'30"N. 111°55'10"W]. [Ira L Wiggins](#) & Reed C Rollins [164](#). 29 August 1941 [29 août 1941]. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., Det George F Freytag, Mar 14 1989. /// DGD: *filiformis*, deux plantes entières en rosette avec racines fibreuses pivotantes, 1+2 racèmes, en floraison, hétérohylie. [CAS; 25-IX-2008].

DS510818. /// Dudley Herbarium of Stanford University. Plants of [Sonora](#), Mexico. *Phaseolus filiformis* Benth. West side of Isla Tiburon, just north of Punta Willard. [28°53'10"N. 112°32'W]. [Ira L Wiggins 17152](#). March 19, 1962 [19 mars 1962]. /// California Academy of Sciences. Botanical Explorations in Baja California Sponsored by the Belvedere Scientific Fund. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., Det George F Freytag, Mar 14 1989. ///

DGD: *filiformis*, une plante entière avec racine fibreuse pivotante, 8 racèmes, en floraison, j go, j go en transition à go verte, go vertes, go sèches, forte hétérophylie. [CAS; 25-IX-2008].

United States

Arizona

ASU174765. /// Fabaceae of [Arizona](#). Pinal County. *Phaseolus wrightii* Gray. T3S R13E S27; 2,600 feet elevation [785 m]. N of Kearny, 3 k SE of Granite Mountain. It was with *Simmondsia chinensis*, *Acacia greggii*, *Cercidium microphyllum*, *C. floridum*, *Ambrosia ambrosioides* and *Baccharis sarothrodes*. Climbing; flower violet; leaves with gray-green central blotch. [Marc Baker 7989](#) with David Shaari. 6 September 1990 [6 septembre 1990]. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 4 racèmes, en floraison. [ASU; 23-IX-2015].

UCR68374. /// Flora of Tucson Mountains, [Arizona](#). *Phaseolus filiformis* Benth. Saguaro National Monument, base of north-facing cliffs on the middle of Safford Peak ; T12S R12E S31, NE1/4; elevation 3000 feet [914 m]. Rare (one) vine. [CD Bertelsen 90-135](#). Pima County. 15 April 1990 [15 avril 1990]. /// Specimen data entered into **UCR** database. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F Freytag, Apr 6 1992. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 3 racèmes, en floraison, jgo en transition à go vertes, folioles lobées, hétérophylie. [UCR; 18-VIII-2014].

UCR69408. /// Flora of Tucson Mountains, Arizona. *Phaseolus filiformis* Benth. Saguaro National Monument, in bottom of Safford Canyon; T12S R12E S32, SW1/4; elevation 2600 feet [792 m]. Uncommon annual; flowers pink. [CD Bertelsen 90-173](#). Pima County. 11 August 1990 [11 août 1990]. /// Specimen data entered into **UCR** database. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F Freytag, Apr 6 1992. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 4 racèmes, en floraison, jgo en transition à go verte, folioles lobées, hétérophylie, plante entière avec racine herbacée pivotante. [UCR; 18-VIII-2014].

Desert Botanical Garden Phoenix, Arizona. *Phaseolus wrightii* Gray. Locality: Hidden Water, Boulder Creek. Maricopa County, [Arizona](#). [33° 49' N. 111° 29' W]. 15 October 1951. Coll. [E R Blakley no. 766](#). /// DGD: *filiformis*, en go vertes. [DES; 11-II-1979].

CS78310. /// Mexico and Guatemala, USDA Plant Explorations, Tropical Agriculture Research Station/ ARS, USDA, and the University of Puerto Rico, Mayagüez, PR, in collaboration with INIA/SARH, Mexico and ICTA, Guatemala. Grown in screenhouse at Mayagüez, PR from seed of NI 960 (= TARS # 55, collected in [AZ](#), USA by [Buhrow, R. OPWR](#), Sep. – Dec. 1985 as Study Collection, Freytag GF # SC-55 (US, WIS, CSU), identified by GF Freytag as *Phaseolus filiformis* Benth. /// DGD : *filiformis*, 3 racèmes, en floraison, j go en transition à go verte, go vertes, go sèches, graines, deux éophylles collées. [CS; 18-VIII-2008].

University of North Carolina Herbarium. 504406. /// University of Arizona Herbarium. Plants of [Arizona](#). *Phaseolus wrightii* A. Gray (det. by G. Nabhan, 1978). Among rocks and cliffs on south slope; Ragged Top, Silver bell Mountains; with *Haplophyton crooksii*, *Simmondsia chinensis*, *Opuntia bigelovii* and *Abutilon californicum*. R8 east; T 11 south. Elevation 2800-3000 feet. [32° 27'N. 111° 29' 30"W]. 20 March 1978 [20 mars 1978]. Pima County. [Russ Buhrow](#). /// DGD: *filiformis*, 5 racèmes, en floraison, j go, folioles avec lobes ronds à la base 23x23 mm; pas de numéro de collecte! [NCU; 23-VIII-2011].

ARIZ209019. /// University of Arizona Herbarium. Plants of [Arizona](#). *Phaseolus wrightii* A. Gray (det. by G. Nabhan – 1978). Among rocks and cliffs on south slope. Ragged Top, Silver Bell Mountains. With *Haplophyton crooksii*, *Simmondsia chinensis*, *Opuntia bigelovii* and *Abutilon californicum*. R8 east; T11 south. Elevation 2800-3000 feet [850-915 m]. 20 March 1978. Pima County. [Russ Buhrow 30](#). /// DGD: *filiformis*, 8 racèmes, en floraison, jgo, go verte. [ARIZ; 20-IX-2012].

116819. Herbarium. Arizona State University. /// United States Department of the Interior. Bureau of Land Management. Phoenix District Herbarium. *Phaseolus wrightii* Gray. Date: 5 May, 1980 [5 mai 1980]. [[Arizona](#)]. County: Yavapai, AZ. Qud: Arrastra Mt NE 7.5'. Locality: People's Canyon in the vicinity of South People's Spring. Sec 14 SW ¼ Twp. 12N Rge. 10 W Elev. 2700' [815 m]. Substrate: basalt w/ volcanic ash outcrops. Abundance & association: Locally common with *Populus fremontii*, *Salix*, *Platanum wrightii*. Collector: [Butterwick](#)/ Hillyard [6339](#). Det. Butterwick at ASU. /// *P. filiformis* Benth. Det. Nabhan 1984. Annotation – Herbarium of Arizona State University. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 7 racèmes, en floraison, jgo, go vertes. [ASU; 23-IX-2015].

ASU153008. /// Plants of [Arizona](#). USDI Bureau of Land Management. *Phaseolus wrightii* Gray. Pima Co.: unnamed canyon at N end of Sikort Chuapo Mts., ca. 2 miles S of Coffeepot Mt., T11S, R4W, Sec. 24E ½ . Sikort Chuapo Mts. 15' Quad. With *Simmondsia chinensis*, *Cercidium microphyllum*, *Larrea divaricata*, *Lycium* sp. 2700' elev. [815 m]. Andesite/ rhyolite substrate. Uncommon. April 22, 1981 [22 avril 1981]. [M Butterwick 7405](#), with D Hillyard. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 6 racèmes, en floraison, jgo, go vertes. [ASU; 23-IX-2015].

ASU214384. /// California Academy of Sciences. Plants of [Arizona](#). *Phaseolus wrightii* Gray. Pima Co.: Ajo NW 7.5' Quad., T12S, R6W, Sec. 6 SE1/4. A minor wash on E side of Childs Mt., near Ajo. Sonoran Desert Scrub with *Cercidium microphyllum*, *Cereus giganteus*, *Encelia farinosa*. Volcanic substrate. Occasional in wash. Elevation 1650 ft. [M Butterwick 7936](#). March 9, 1982. /// DGD: *filiformis*, 4 racèmes, en floraison, jgo, go vertes. [ASU; 23-IX-2015].

CAS934729. /// California Academy of Sciences. Plants of [Arizona](#). *Phaseolus wrightii* Gray. Pima Co.: Ajo NW 7.5' Quad., T12S, R6W, Sec. 6 SE1/4. A minor wash on E side of Childs Mt., near Ajo. [32°22'18"N. 112°51'39"W]. Sonoran Desert Scrub with *Cercidium microphyllum*, *Cereus giganteus*, *Encelia farinosa*. Volcanic substrate. Occasional in wash. Elevation 1650 ft. [500 m]. [M Butterwick 7936](#). March 9, 1982 [9 mars 1982]. /// DGD: *filiformis*, 5 racèmes, en floraison, j go, j go en transition à go verte, go vertes, hétérophylie. [CAS; 23-IX-2008].

ASU197685. /// Flora of [Arizona](#). Maricopa County. *Phaseolus filiformis* Benth. Along AZ 87 ca. 1.5 rd-mi. N of road to Four Peaks. Granitic boulders. 2700 ft. [815 m]. 22 Feb 1992 [22 février 1992]. [Charlotte M Christy 889c](#), [with] Kathleen Pigg. Arizona State University Herbarium (ASU). /// DGD: *filiformis*, 7 racèmes, en floraison, jgo. [ASU; 23-IX-2015].

35783. Herbarium. Arizona State University. /// Plants of [Arizona](#). Herbarium of Arizona State University. Leguminosae. *Phaseolus wrightii* Gray. County: Maricopa. Location: Fish Creek Hill, 8 mi E Tottilla [sic!] Flat, Apache Trail. Habitat: rocky desert hills, in cut, growing in crevices between boulder and ground. Elev.: [blanc]. Date: 20-III-1960 [20 mars 1960]. Collector: [FS Crosswhite 473](#). Det.: [blanc]. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 6 racèmes, en floraison, jgo, go vertes, folioles peu lobées. [ASU; 23-IX-2015].

Plants of [Arizona](#). Herbarium of Arizona State University. *Phaseolus wrightii* Gray. Rocky desert hills. Maricopa Co., Apache Trail, Ariz. 88 Hwy Fish Creek Hill, 8 mi E Tortilla Flat. [33° 31' 35"N. 111° 23' W]. [Crosswhite & Sands 831](#). May 1, 1960. /// DGD: *filiformis*, 4 racèmes, floraison, go vertes, exemplaire pauvre. [NY; 12-VI-2003].

Lundell Herbarium [cachet à l'encre noire]. /// Plants of [Arizona](#). Lundell Herbarium, Texas Research Foundation. *Phaseolus*. Pinal Co.: Superstition Wilderness Area, Superstition Mtns. Charlie Boy Springs. Center of Superstition Mtns. [33° 30' N. 111° 23' W]. Wet area at springs. Trailing vine growing over rocks. Flowers pink. [John R Crutchfield](#). N°. 282. June 23, 1965. /// Treated in 1967 with lauryl pentachlorophenate !
/// The University of Texas Herbarium. Systematics of *Phaseolus*. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS, USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, May 25, 1988. /// DGD: *filiformis*, 6 racèmes, en floraison, j go, j go en transition à go vertes, go verte, hétérophylie. [LL; 12-VIII-2008].

Plants of [Arizona](#). Lundell Herbarium, Texas Research Foundation. *Phaseolus wrightii* Gray. Pinal Co.: Superstition Wilderness Area, Superstition Mtns. Charlie Boy Springs. [33° 30' N. 111° 23' W]. Center of Superstition Mtns., wet area at springs. Trailing vine growing over rocks, flowers pink. June 23, 1965. [John R Crutchfield](#) no. 282. det. J Grimes, 1981. /// DGD: *filiformis*, 3 racèmes, en floraison, jgo, go vertes, 1 plante avec racine herbacée pivotante. [NY; 12-VI-2003].

ASU235933. /// Flora of [Arizona](#). Location: Tonto National Forest. Maricopa Co. Family: Fabaceae. *Phaseolus filiformis* Benth. Common name: slimjim bean [sic!]. Habit: annual/ perennial vine forb. Habitat notes: T2N, R10E, Sect. 7/8. Ca. 2 miles north of Tortilla Flat off Rt. 88. Ca. 60 cm tall. Magenta flowers with green fruits forming. Growing at bottom of east-facing slope, near roadside with sharp cliff on the east side (Tortilla Creek at the bottom). Associated plants: *Dodonaea viscosa*, *Prosopis velutina*, *Bebbia juncea*, *Baccharis sarothroides*. Elev. ca. 3000'. Origin: native. Collector: [D Damrel](#) #V55. Date: 5 Mar 2001. Determined y: D Damrel Mar. 2001. Terrestrial Ecosystems Survey. /// DGD: *filiformis*, 10 racèmes, en floraison, j go, go vertes, go sèches, hétérophylie. [ASU; 23-IX-2015].

Oxford University Herbaria. Daubeny Herbarium (FHO). Dept. of Plant Sciences. 009960. [cachet à l'encre noire]. /// Flora of [Arizona](#). Location: Tonto National Forest. Maricopa Co. Family: Fabaceae. Botanical name: *Phaseolus filiformis* Benth. Symbol PHFI3. Common name: slimjim bean. Hab: annual/ perennial vine forb. Hab: T2N R10E sect 7/8. Ca 2 miles north of Tortilla Flat off R¹ 88. [33° 32' N. 111° 23' 23"W]. Ca 60 cm tall. Magenta flowers with green fruits forming. Growing at bottom of east-facing slope, near roadside with sharp cliff on the east side Tortilla Creek at the bottom. Associated plants: *Dodonaea viscosa*, *Prosopis velutina*, *Bebbia juncea*, *Baccharis sarophrodies*. Elev. ca 3000' [905 m]. Origin: native. Coll. [D Damrel](#) #V55 [sic!]. Date: 5 Mar 2001 [5 mars 2001]. det. D. Damrel, Mar 2001. Terrestrial Ecosystems Survey. /// DGD: *filiformis*, plus de 12 racèmes, spécimen très fourni, en floraison, j go, go vertes. [FHO; 31-I-2007].

Desert Botanical Garden, Phoenix, Arizona. *Phaseolus wrightii* Gray. Locality: Usury Mountains County, Park, N of Ramadas. Maricopa County, [Arizona](#). 10 March 1975. Coll. [W H Earle s.n.](#) /// DGD: *filiformis*, en go vertes. [DES; 11-II-1979].

Desert Botanical Garden, Phoenix, Arizona. *Phaseolus wrightii* Gray. Locality: Verde River, 2 mi below Bartlett Dam. Maricopa County, [Arizona](#). [33° 32' N. 111° 23' W]. May 4, 1975. Coll. [RG Engard](#) no. 459. /// DGD: *filiformis*, en go sèches. [DES; 11-II-1979].

Desert Botanical Garden, Phoenix, Arizona. *Phaseolus wrightii* Gray. Locality: Rt 88, 3 mi north of Tortilla Flat. Maricopa County, [Arizona](#). [33° 32' N. 111° 23' 23"W]. November 10, 1973. Coll. [RG Engard & J Harry Lehr](#) no. 1151. /// DGD: *filiformis*, en go vertes. [DES; 11-II-1979].

Desert Botanical Garden Phoenix, Arizona. Ref. K & P Ariz Flora Family Leguminosae vol. & page 1964 ed. p. 484. Collection date: 10 Nov. 1973 [10 novembre 1973]. Botanical name: *Phaseolus wrightii* Gray. Locality: Rt 88, 3 mi north of Tortilla Flats, Maricopa County, [Arizona](#). [33° 32' N. 111° 23' 23"W]. Cover type: Arizona upland. Abundance: infrequent. Coll. [RG Engard & J Harry Lehr](#) no. 1151. /// The University of Texas Herbarium. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1982. /// Annotation *Phaseolus maculatus* Duane Isely, 1995 (ISC). /// DGD: *filiformis*, 1 plante, état végétatif, racine pivotante diam. 2 mm,

folioles légèrement lobées au travers de toute la plante, peu de développement de l'hétérophylie. [NY; 10-VI-2003].

Plants of [Arizona](#). Herbarium of Desert Botanical Garden. *Phaseolus wrightii* Gray. County: Pima. Location: Ajo Mountain Drive, 1/8 mi N of Estes Canyon, Ajo Mtns. [32°00'N. 112°42'W]. Habitat: occasional in densely vegetated wash. Date: 16 April 1983. Collector: [R Engard & W Hodgson](#). elev. ca 2000' [610 m]. no. [H2039](#). /// DGD: *filiformis*, plus de 10 racèmes, en floraison, jgo, go vertes, go sèches. [NY; 12-VI-2003].

ASU197813. /// University of Arizona Herbarium (ARIZ). Plants of [Arizona](#). *Phaseolus filiformis* Benth. Yuma County: Cabeza Prieta National Wildlife Refuge. West Pinta Sands, ca 1 km south of Camino del Diablo and 1 km west of Pinacate Lava Flow; vicinity of 32° 07'N, 113° 34'W, 780 ft. [235 m]. Sand flats and low, stable dunes; *Prosopis* cf *glandulosa* var. *torreyana*, *Larrea divaricata*, *Stillingia linearifolia*, and many ephemerals. [Richard S Felger 92-780](#), Peter Gierlach. 15 September 1992. /// DGD: *filiformis*, 7 racèmes, en floraison, une plante en rosette avec racine herbacée pivotante. [ASU; 23-IX-2015].

ASU208869. /// ASU Vascular Plant Herbarium. Specimen Image Number. Barre code. ASU0024521. /// University of Arizona Herbarium (ARIZ). Plants of [Arizona](#). *Phaseolus filiformis* Benth. Yuma County: East side of Pinacate Lava flow and east Pinta Sands, Cabeza Prieta National Wildlife Refuge; low dunes encroaching lava field, 32° 05' 56"N, 113° 18' 45"W, 240 m. *Larrea divaricata*, *Ambrosia dumosa*, *Opuntia kunzei*, *Pleuraphis rigida*, *Abronia villosa*, *Plantago insularis*, and *Dalea mollis*. [Richard S Felger 93-436](#) & Jeffrey A Seminoff. 11 April 1993 [11 avril 1993]. /// DGD: *filiformis*, 8 racèmes, en floraison, jgo, go vertes, folioles profondément lobées. [ASU; 23-IX-2015].

US1826600. /// United States National Museum. /// Gray Herbarium. Plants of [Arizona](#). N°. [85](#). March 10, 1938 [10 mars 1938]. *Phaseolus*. East side of Fish Creek Hill, Apache Trail, Maricopa Co.. [33° 30'N. 111° 15'W]. [RC Foster](#), JF Arnold. /// ex Herb. Gray. /// California Academy of Sciences. *P. wrightii* Gray, determined by T.H. Kearney (1948). /// *P. filiformis* Benth., Oliver W. Norvell, 11/29/49 [29 novembre 1949; écrit au crayon noir sur la planche par O.W. Norvell]. /// Tropical Agriculture Research Station, ARS, USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 17 1988. /// DGD: *filiformis*, 3 racèmes, en floraison, jgo, spécimen pauvre. [US; 1-IX-2009].

US1601999. /// United States National Museum. /// Herbarium of the Arizona State Teachers College at Tempe. *Phaseolus*. [Arizona](#). Pinal County. Plateau between Cañon Lake and Roosevelt. Oct. 11, 1931 [11 octobre 1931]. Collector [John W Gillepsie](#). No. [8559](#). Alt. 2800 feet [850 m]. /// California Academy of Sciences. *P. wrightii* Gray, towards *P. filiformis* Benth., determined by T.H. Kearney (1948). /// United States National Herbarium. *P. filiformis* Benth., Oliver W. Norvell, 11/29/49 [29 novembre 1949; écrit au crayon noir par O.W. Norvell]. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 1 Apr 1985. /// DGD: *filiformis*, 2 racèmes, en jgo, spécimen pauvre en parties fertiles. [US; 1-IX-2009].

Plants of Arizona. # [213-45](#). *Phaseolus*. Rocky draws, Quiotoa Mts [Quijotoa], Pima Co., [Ariz.](#) [32°06'N. 112°10'W]. Oct. 19, 1945 [19 octobre 1945]. Coll. [Leslie N. Goodding](#). /// *Phaseolus angustissimus* A Gray, det. JA Lackey, April 1980. /// DGD: *filiformis*, en go sèches, spécimen mal séché, la plupart des feuilles sont chiffonnées ! [NY; 10-VI-2003].

Plants of [Arizona](#). Herbarium of Arizona State University. Maricopa. *Phaseolus wrightii* Gray. Growing on the slopes of Superstition Mountain ten miles east of Apache Junction in rocky soil. [33°24'N. 111°30'W]. Desert area with an elevation of 2000 feet [610 m]. [Win Green # 79](#). 3/20/61 [20 mars 1961]. /// DGD: *filiformis*, 4 racèmes, en floraison, go sèches, partie de plante en rosette avec racine herbacée fibreuse pivotante. [BM; 18-XII-2006].

ASU249721. /// Plants of [Arizona](#). Arizona State University. *Phaseolus filiformis* Benth. Family: Fabaceae. Det.: R. Gutierrez, 2004. USA, Arizona, Maricopa County; Tonto National Forest. South edge of Canyon Lake on the South side of Apache Trail (State Road 88) ca. 0.2 miles east of the eastern-most bridge crossing over Canyon Lake. N 33° 32.284', W 111° 26.38'; 1731 ft. [522 m]. Associated spp: *Maurandella antirrhinoiflora*, *Phaseolus filiformis*, *Sarcostemma cynanchoides*, *Dodonaea viscosa*, *Hedeoma nana*. [R Gutierrez 691](#). 2 Apr 2004 [2 avril 2004]. /// DGD: *filiformis*, 4 racèmes, en floraison. [ASU; 23-IX-2015].

ASU250672. /// Plants of Arizona. Arizona State University. *Phaseolus filiformis* Benth., det. R. Gutierrez, 2004. Family: Fabaceae. USA, [Arizona](#), Maricopa County: Tonto National Forest; Superstition Mountains ca 6 miles east of Canyon Lake along Apache Trail (SR 88). N 33° 32.205', W 111° 18.66'; 2148 ft. [648 m]. Associated spp: *Keckiella antirrhinoides*, *Plantago patagonica*, *Dodonaea viscosa*, *Penstemon eatonii*, *Castilleja chromosa*, *Gallium stellatum*, *Erigeron lobatus*, *Uropappus linearifolia*, *Phlox tenuifolia*, *Trifolium wildenovii*, *Senecio lemmoni*. [R Gutierrez 701](#), with: PLB 591: Local Spring Flora. [sic!]. 2 Apr 2004 [2 avril 2004]. /// DGD: *filiformis*, 7 racèmes, en floraison, jgo, go vertes. [ASU; 23-IX-2015].

UCR51592. /// Herbarium of the University of California, Riverside. Plants of Pima Co., [Arizona](#). *Phaseolus filiformis* Benth. Det. by A.C. Sanders, Sept. 1987. Organ Pipe National Monument, Ajo Mountains, Alamo Wash. [32° 06'30"N, 112° 50'W]. Date 11 Sept 1946 [11 septembre 1946]. Alt. [blanc] ft. Coll. [H Haskell](#) & HL Lint. No. [1092](#). /// Specimen data entered into UCR database. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F Freytag, Apr 6 1992. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 6 racèmes, en floraison, jgo en transition à go verte, go vertes, go sèches, folioles lobées, forte hétérophylie, plante entière avec racine herbacée pivotante. [UCR; 18-VIII-2014].

ASU158742. /// Maricopa County, [Arizona](#). *Phaseolus wrightii* Gray. 5 miles south of Sunflower along hwy 87; sandy soil; oak-pinyon *Juniperus* community. 28 March 1973. [Larry C Higgins 6436](#). Herbarium of West Texas State University, Canyon, Texas. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 3 plantes en rosette avec racine pivotante, 3 racèmes, en floraison, hétérophylie. [ASU; 23-IX-2015].

Maricopa County, [Arizona](#). *Phaseolus wrightii* Gray. 5 miles south of Sunflower along hwy 87, sandy soil; oak-pinyon *Juniperus* community. [33°54'N. 111°29'W]. [Larry C Higgins 6436](#). 28 March 1973. Herbarium of West Texas State University, Canyon, Texas. /// The University of Texas Herbarium. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1982. /// DGD: *filiformis*, plante entière, racine légèrement renflée diam. 3 mm, plante avec aspect de rosette, en tt début floraison, 3 racèmes, fort développement de l'hétérophylie: à la base feuilles non lobées, aux extrémités feuilles lobées, plante à tiges peu ou pas volubiles. [NY; 10-VI-2003].

Fabaceae of [Arizona](#). *Phaseolus filiformis* Benth.. Maricopa County: Goldfield Mountains, Cottonwood Springs, Tonto National Forest. T2S R8E section 23, 2100 feet, 640 meters. [33°30'N. 111°30'W]. Arizona upland desert riparian, area supposedly not grazed for 8 years, with creek, *Cercidium*, *Carnegiea*, *Calliandra eriophylla*, *Simmondsia chinensis* as dominants on dry slopes. Occasional perennial in arroyo and on slopes, flowers deep pink. 8 April 1986. [Wendy Hodgson 4061](#). Herbarium of Desert Botanical Garden (DES). /// DGD: *filiformis*, en floraison, jgo, go vertes, go sèches, 13 racèmes, folioles petites lobulées, avec variéation. [NY; 10-VI-2003].

92522. Herbarium. Arizona State University. /// Herbarium of the New York Botanical Garden. *Phaseolus wrightii* Gray, det. J Kallunki. [[Arizona](#)]. Yuma Co.: Kofa Mountains, mouth of Palm Canyon, 22.5 airline miles south-southeast of Quartzite. T1S R18W sec 10. Elevation 2100 feet. Locally frequent among rocks in wash bottom. [Noel H Holmgren 6584](#), Patricia K Holmgren. March 30, 1973. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F.

Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, deux petites plantes en rosette avec racine herbacée pivotante, 3+3 racèmes, en floraison, jgo, go vertes. [ASU; 23-IX-2015].

University of North Carolina Herbarium. 489359. /// Herbarium of the New York Botanical Garden. *Phaseolus wrightii* A. Gray, det. J. Kallunki. [Arizona]. Yuma Co.: Kofa Mountains, mouth of Palm Canyon, 22.5 airline miles south-southeast of Quartzite. T1S, R18W, Sec 10. [33°20'N. 114°06'W]. Elevation 2100 feet. Locally frequent among rocks in wash bottom. Noel H Holmgren 6584, Patricia K Holmgren. 30 March 1973. /// DGD: *filiformis*, trois plantes en rosette avec racine fibreuse herbacée pivotantes, 2+1+1 racèmes, en floraison, hétérophylie. [NCU; 23-VIII-2011].

New Mexico State University 48185 Data-Based. /// Herbarium of the New York Botanical Garden. Plants of Arizona. *Phaseolus wrightii* A. Gray, det. J. Kallunki. Yuma Co.: Kofa Mountains, mouth of Palm Canyon, 22.5 airline miles south-southeast of Quartzite. T1S, R18W, Sec 10. Elevation 2100 feet. Locally frequent among rocks in wash bottom. Noel H Holmgren 6584, Patricia K Holmgren. March 30, 1973. /// U. of Texas, Austin. *Phaseolus filiformis* Benth. Det. Alfonso O. Delgado S. 1982. /// DGD: *filiformis*, deux plantes en rosette avec racine herbacée pivotante, 6+3 racèmes, en jgo, go vertes, forte hétérophylie. [NMC; 29-VIII-2017].

Herbarium of the New York Botanical Garden. Plants of Arizona. *Phaseolus wrightii* Gray, det. J. Kallunki. Yuma Co.: Kofa Mountains, mouth of Palm Canyon, 22.5 airline miles south-southeast of Quartzite. T1S R18W sec 10. [33°20'N. 114°06'W]. Elevation 2100 feet [640 m]. Locally frequent among rocks in wash bottom. Noel H Holmgren 6584, Patricia K Holmgren. March 30, 1973 [30 mars 1973]. /// Annotation *Phaseolus filiformis* Benth., Duane Isely, 1995 (ISC). /// DGD: *filiformis*, en floraison, go vertes, 8 racèmes, folioles lobulées, léger développement de l'hétérophylie. [NY; 10-VI-2003].

ASU221613. /// Plants of Arizona. Arizona State University. *Phaseolus filiformis* Benth. Yuma County: Kofa National Wildlife Refuge, Kofa Mountains, Palm Canyon, about 50 m to the right from parking lot, common throughout desert floor. Lower Sonoran, *Cercidium* community with *Encelia farinosa*, *Phacelia*, *Mohavea*, *Lycium*. Twining vine, flowers purple, papilionaceous. 6 March 1998 [6 mars 1998]. S Ickert-Bond 508, with R Bond, Marlene Bond. Arizona State University Herbarium (ASU). /// DGD: *filiformis*, 4 racèmes, en floraison, jgo, go verte, hétérophylie. [ASU; 23-IX-2015].

Arizona State University (ASU). Code barre. 284783. Vascular Plant Herbarium. /// Specimen entered in ASU Database. /// Plants of Arizona. Fabaceae. *Phaseolus wrightii* Gray. Maricopa County, Picadilla Creek, in the NW corner of wilderness. Riparian habitat in wash, chaparral plants on N-facing slope, Sonoran desert scrub plants on S-facing slope. 33.721. -111.445 [sic!]. Elevation 1000 meters. Steve Jones 865. 10 Apr 1989 [10 avril 1989]. Common in wash & S-facing slopes. Fl purple-white. Associated species: *Cheilanthes fendleri*, *Bromus tectorum*, *Avena fatua*, *Eragrostis intermedia*, *Rhus ovata*, *Daucus pusillus*, *Gilia flavocincta*, *Anisacanthus thurberi*, *Tradescantia occidentalis*, *Phaseolus wrightii*, *Hyptis emoryi*, *Amorpha fruticosa*, *Keckiella antirrhinoides*. /// *Phaseolus filiformis* Benth., Steve Jones 2011. /// DGD: *filiformis*, une plante entière en rosette avec racine herbacée pivotante, 5 racèmes, en floraison, go vertes, go sèches à déhiscence spiralee. [ASU; 23-IX-2015].

35803. Herbarium. Arizona State University. /// Plants of Arizona. Herbarium of Arizona State University. Leguminosae. *Phaseolus wrightii* Gray. County: Maricopa. Location: 0.8 miles S.W. of Canyon Lake Lookout along Apache Trail. Habitat: rocky desert hillside. Elev.: [blanc]. Collector: David Keil 1175. Date: 8-IV-1967 [8 avril 1967]. Det.: David Keil. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 5 racèmes, en jgo, go vertes, go sèches. [ASU; 23-IX-2015].

35797. Herbarium. Arizona State University. /// Plants of [Arizona](#). Herbarium of Arizona State University. Leguminosae. *Phaseolus wrightii* Gray. County: Maricopa. Location: 0.7 miles S of Fish Creek Hill on the Apache Trail. Habitat: rocky desert hillside, desert chaparral transitions. Elev.: [blanc]. Date: 8-IV-1967. Collector: [David Keil 1254](#). Det. David Keil. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 5 racèmes, en floraison, jgo, go vertes, hétérophylle. [ASU; 23-IX-2015].

Plants of [Arizona](#). Herbarium of Arizona State University. Leguminosae. *Phaseolus wrightii* Gray. County: Maricopa, location: 0.7 miles S of Fish Creek Hill on the Apache Trail. [33° 32' N. 111° 23' W]. Collector [David Keil 1254](#). Date 8-IV-1967 [8 avril 1967]. /// DGD: *filiformis*, en go sèches. [DES; 11-II-1979].

143044. Herbarium. Arizona State University. /// Plants of [Arizona](#). Herbarium of Arizona State University. Leguminosae. *Phaseolus wrightii* Gray. County: Maricopa. Location: 0.8 miles south of Fish Creek Bridge on Apache Trail. Habitat: growing out of Cliffside. Elev.: [blanc]. Date: 8-IV-1967 [8 avril 1967]. Collector: [David Keil 1325](#). Det.: Elinor Lehto. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 3 racèmes, en go verte, go sèches à déhiscence spiralée. [ASU; 23-IX-2015].

US1786163. /// United States National Museum. /// Plants of Arizona. *Phaseolus wrightii* var. *grayanus* (Woot. & Standl.) Kearney & Peebles. ., violet; petioles blue [sic!]. Maricopa Co.; Tortilla Flats, 1730 ft. [525 m]. [EP Killip 32715](#). Oct. 6, 1939 [6 octobre 1939]. /// California Academy of Sciences. *P. wrightii* Gray, determined by T.H. Kearney (1948). /// United States National Herbarium. *P. filiformis* Benth., Oliver W. Norvell, 11/29/49 [29 novembre 1949; écrit au crayon noir par O.W. Norvell]. /// The University of Texas Herbarium. Systematics of *Phaseolus*. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS, USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 17 1988. /// DGD: *filiformis*, 6 racèmes, en floraison, go vertes, tiges volubiles grêles. [US; 1-IX-2009].

ASU212261. /// Plants of [Arizona](#). Arizona State University. *Phaseolus filiformis* Benth. Maricopa County: Tonto National Forest. Ca. 3.5 mi W of Tortilla Flat between mile posts 210 & 209 on Hwy. 88 (Apache Trail). 33° 32'N, 111° 26'W. At base of steep rocky N facing slope. Herb along road just W of bridge; flowers bluish. 1700 ft. [513 m]. 30 Mar 1997 [30 mars 1997]. [LR Landrum 8925](#), with SS Landrum. (FAM: Fabac). /// DGD: *filiformis*, 10 racèmes, en floraison, j go, go vertes, go sèches. [ASU; 23-IX-2015].

ASU210958. /// Plants of Arizona. Arizona State University. *Phaseolus filiformis* Benth. Maricopa County: Tonto National Forest ca. 3.3 mi W of Tortilla Flat near mile post 210 on Hwy. 88 (Apache Trail). 33° 32'N, 111° 26'W. At base of steep rocky N facing slope. Vine with purple flowers. 1700 ft. [513 m]. 8 Apr 1997 [8 avril 1997]. [LR Landrum 8933](#), with S Bond, A Henry & M Rossow. (FAM: Fabac). /// DGD: *filiformis*, 8 racèmes, en jgo, go vertes, go sèches, hétérophylle. [ASU; 23-IX-2015].

ASU212256. /// Plants of [Arizona](#). Arizona State University. *Phaseolus filiformis* Benth. Maricopa County: Tonto National Forest. Mile post 216, 1.6 mi E of Tortilla Flat, on Hwy. 88 (Apache Trail). 33° 32'N, 111° 26'W. Upland Sonoran Desert with *Cercidium*, *Opuntia*, *Encelia*. Vine near road. 1700 ft. [513 m]. 8 Apr 1997 [8 avril 1997]. [LR Landrum 8961](#), with S Bond, A Henry & M Rossow. (FAM: Fabac). /// DGD: *filiformis*, 12 racèmes, en floraison, j go, jgo en transition à go vertes. [ASU; 23-IX-2015].

ASU 247733. /// Plants of [Arizona](#). Arizona State University. *Phaseolus filiformis* Benth. Family: Fabaceae. Arizona, Maricopa; South Mountain Park; southwestern area of park at base of steep cliff on N facing slope. N 33° 19.16', W 112° 5.35'; 1770 ft. (540 m). Habitat: rocky N facing slope. Associated spp: *Parkinsonia microphylla*, *Zizyphus*, *Aloysia*, *Crossosoma*, *Phaseolus filiformis*, *Forestiera*. Notes: ephemeral herb;

flowers purple, fruits green. [LR Landrum 10892](#), with D Lafferty. 2 Nov 2003 [2 novembre 2003]. /// DGD: *filiformis*, 3 racèmes, en jgo, jgo en transition à go vertes. [ASU; 23-IX-2015].

35799. Herbarium. Arizona State University. /// Plants of [Arizona](#). Herbarium of Arizona State University. Leguminosae. *Phaseolus wrightii* Gray. County: Pinal. Location: Le Barge Canyon in Superstition Mtns. Habitat: dry hillsides near stream. Elev.: ca. 2340' [706 m]. Date: 28-IV-63 [28 avril 1963]. Collector: [Elinor Lehto 1847](#). Det.: [blanc]. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 4 racèmes, en floraison, jgo, go verte. [ASU; 23-IX-2015].

35784. Herbarium. Arizona State University. /// Plants of [Arizona](#). Herbarium of Arizona State University. Leguminosae. *Phaseolus wrightii* Gray. County: Yuma. Location: Kofa Canyon. Habitat: floor of a mountain canyon. Elev.: ca. 1600 ft. [483 m]. Collector: [Elinor Lehto 3648](#). Date: 14-XII-1963 [14 décembre 1963]. Det.: [blanc]. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* A. Gray, det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, deux petites plantes en rosette avec racine herbacée pivotante, un seul racème, en tt début de floraison, hétérophylie. [ASU; 23-IX-2015].

86072. Herbarium. Arizona State University. /// Plants of [Arizona](#). Herbarium of Arizona State University. Leguminosae. *Phaseolus acutifolius* Gray. County: Yuma. Location: Northwest end of Kofa Mts. near Budweiser Spring. Habitat: bajada – canyon mouth. Elev.: [blanc]. Coll. T Reeves & [E Lehto L20038](#). Date: 19-V-1976 [19 mai 1976]. Det. E. Lehto. /// *Phaseolus filiformis* Benth., det. R. Buhrow 3-14-1984. Annotation – Herbarium of Arizona State University. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 4 racèmes, en floraison, jgo, go verte. [ASU; 23-IX-2015].

105181. Herbarium. Arizona State University. /// Plants of [Arizona](#). Leguminosae. *Phaseolus wrightii* Gray. County: Yuma. Location: Cabeza Prieta Game Range. S10, T13S, R15W. Cabeza Prieta Tank, Canyon. Habitat: [blanc]. Elev.: [blanc]. Coll.: [Elinor Lehto L23538](#), with J Phelps & C Edwards. Date: 6-IV-1979 [6 avril 1979]. Det.: E. Lehto. Herbarium of Arizona State University. /// *P. filiformis* Benth. Det. Nabhan, 1984. [sic!]. Annotation – Herbarium of Arizona State University. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 7 racèmes, en floraison, jgo. [ASU; 23-IX-2015].

Arizona State University (ASU). Code barre. 272417. Vascular Plant Herbarium. /// Specimen entred in ASU Database. /// Plants of Arizona. Fabaceae. *Phaseolus filiformis* Benth. USA. [Arizona](#). Maricopa County. Hummingbird Springs Wilderness, canyon at north face of Sugarloaf mountain. Plants collected between two points: (33 40.969N, 113 3.266W) and (33 40.808N, 113 3.208W). 33° 40.808'N, 113° 3.208'W. Elevation 849m – 964m. Assoc. Spp : *Acacia greggii*, *Larrea tridentata*, *Aloysia wrightii*, *Bouteloua curtipendula*, *Nicotiana obtusifolia*, *Desmodium procumbens*, *Aristida purpurea*, *Brickellia coulteri*, *Berberis haematocarpa*, *Quercus turbinella*, *Ziziphus obtusifolia*. Notes: [blanc]. 22 October 2007 [22 octobre 2007]. [Bethany Lester 815](#), with Frank Farruggia. Arizona State University Herbarium (ASU). /// DGD: *filiformis*, 5 racèmes, en floraison, go vertes, go sèches. [ASU; 23-IX-2015].

US1326860. /// United States National Museum. Deposited by the U.S. Department of Agriculture. /// Plants of Southern [Arizona](#). *Phaseolus grayanus* W. & S.. Picacho. [Pinal]. [32° 43'N. 111° 29'45"W]. N°. [734. HF Loomis](#), collector. 2/17-26 [17 février 1926]. /// California Academy of Sciences. *P. wrightii* Gray, determined by T.H. Kearney (1948). /// United States National Herbarium. *P. filiformis* Benth., Oliver W. Norvell, 11/29/49 [29 novembre 1949; écrit au crayon noir par O.W. Norvell]. /// *Phaseolus filiformis* Benth.,

det. G.F. Freytag, 1 Apr 1985. /// DGD: *filiformis*, 1 racème, en go vertes, spécimen pauvre en parties fertiles. [US; 1-IX-2009].

Plants of [Arizona](#). Herbarium of Southern Methodist University. *Phaseolus*. twining, flower pink. Gravelly wash, mouth of Canyon Diablo, near Picnic area, along Ajo Mtn. Drive, Organ Pipe National Monument, Pima County. [32°00'N. 112°42'W]. [William F Mahler & John W Thieret 5479](#). 20 Apr. 1969 [20 avril 1969]. /// The University of Texas Herbarium, Systematic Revision of *Phaseolus*. Determinavit *Phaseolus filiformis* Benth., Alfonso Delgado S., 1985. /// DGD: *filiformis*, en go vertes, 1 go sèche, 13 racèmes, tiges volubiles dans leur partie terminale, 1 base de vieille plante lignifiée 7-8 mmm de diamètre longueur 14 cm, plus d'une douzaine de tiges dont 4 lignifiées; 6 ovules par gousse sur 6 go examinées. [BRIT; 23-II-2002].

Plants of [Arizona](#). Fabaceae. *Phaseolus filiformis* Benth. USA Arizona. Maricopa County. Mesquite Wash, near confluence with Sycamore Creek; off Hwy 87; short perennial reach about 200m long [sic!]; dominant trees are willow and ash; scattered cottonwood and sycamore; infrequent perennial growing in lower branches of willow; flowers pinkish purple. 33.73101° [sic!], -111.51629° [sic!]. Elevation: 2036 ft, 620 m. Associated species: woody's [sic!]: *Salix gooddingii*, *Fraxinus velutina*, *Populus fremontii*, *Cephalanthus occidentalis*, *Lythrum californicum*, *Platanus wrightii*, *Celtis reticulata*. Herbaceous wetland flora: *Melilotus alba* [sic!], *Xanthium strumarium*, *Cynodon dactylon*, *Stemodia durantifolia*, *Eragrostis cilianensis*, *Panicum capillare*, *Cyperus odoratus*, *Calibrachoa parviflora*, *Polanisia dodecandra*, *Sorghum halepense*, *Juncus* spp., *Equisetum*, *Polygonum lapathifolium*, *Typha*, *Schoenoplectus*, *Polypogon monspeliensis*. [Liz Makings 3858](#) with Lane Butler. 2 November 2011. ASU Herbarium. /// DGD: *filiformis*, 4 racèmes, en floraison, go sèches. [NY; 18-II-2014].

CHAPA s.n. University of Arizona Herbarium. Plants of [Arizona](#). *Phaseolus wrightii* Gray. On Pinacate lava flow near edge of Pinta Sands, south side of Camino del Diablo, 2 miles west of junction 81 jeep trail (bench mark 681), 8 miles west of O'Neill Grave; R12W, T15S. [32°10'N. 113°31'W]. Yuma county. 5 March 1977 [5 mars 1977]. [CT Mason 3238](#), [G Cummins, J & C Reeder](#). /// *Phaseolus filiformis* Benth., determinó A Delgado S., 1979. Colegio de Postgraduados, Chapingo, México. /// DGD: *filiformis*, 1 plante en rosette, racine pivotante fibreuse, 4 racèmes, en floraison, jgo, go vertes. [CHAPA; 9-VII-2004].

University of Arizona Herbarium. Plants of [Arizona](#). *Phaseolus wrightii* Gray. On Pinacate lava flow near edge of Pinta Sands, south side of Camino del Diablo, 2 miles west of junction 81 jeep trail (bench mark 681), 8 miles west of O'Neill Grave R12W T15S. [32°10'N. 113°31'W]. Yuma County. 5 March 1977. [CT Mason 3238](#), [G Cummins, J & C Reeder](#). /// Escuela Nacional de Ciencias Biológicas. México, D.F.. *Phaseolus filiformis* Benth., det. Alfonso Delgado S., 1982. /// DGD: *filiformis*, 1 plante en rosette, racine pivotante fibreuse, 3 racèmes, en go vertes. [ENCB; 23-IX-2004].

Plants of [Arizona](#). Herbarium of Arizona State University. Leguminosae. *Phaseolus wrightii* Gray. County: Pima. Location: Organ Pipe Cactus National Monument along east loop, 3.3 mi from Rte. 87. Peaks encircled by East Loop. [32°02'N. 112°43'W]. Habitat: *Larrea-Ambrosia deltoidea* desert. Coll. [T Nash, RK Brown, W MacIntyre, LmcGill & DJ Pinkava 9973](#). Date 24-XI-1972 [24 novembre 1972]. Det. E Lehto. /// The University of Texas Herbarium. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1982. /// DGD: *filiformis*, en tt début floraison, 1 racème, scrappy, folioles lobées. [NY; 10-VI-2003].

US2736569. Plants of [Arizona](#). Herbarium of Arizona State University. Leguminosae. *Phaseolus wrightii* Gray. County: Pima. Loc: Organ Pipe Natl. Mon.. Along East Loop, 3.3 mi from Rte 87. Peaks encircled by East Loop. Hab: *Larrea, Ambrosia deltoidea* desert. Coll. [T Nash, RK Brown, W MacIntyre, L McGill and DJ Pinkava 9973](#). Date 24-XI-1972 [24 novembre 1972]. Det E Lehto. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 1 Apr 1985. /// DGD: *filiformis*, spécimen stérile, mais poils uncinulés, tiges grêles volubiles et aspect des folioles profondément lobées à lobes ronds font foi. [US; 1-IX-2009].

Pinal Co., [Arizona](#), USA. *Phaseolus wrightii* Gray. Superstition Mtns, milepost 206, Hwy 88, 9 mi NE of Apache Jct, ca 20 E of Phoenix. [33°24'N. 111°30'W]. 2200 ft elev. [670 m]. Rocky hillside, upland Sonoran desert shrub community. [E Neese, JL Neese 10069](#). 14 April 1981. Herbarium of Brigham Young University, Provo, Utah. /// Annotation *Phaseolus filiformis* Benth., Duane Isely, 1995 (ISC). /// DGD: *filiformis*, en floraison, jgo, go vertes, go sèches, tiges volubiles dans parties terminales, folioles lobées dans partie supérieure de la plante, fort développement de l'hétérophylie. [NY; 10-VI-2003].

University of Wyoming, Laramie. The Rocky Mountain Herbarium. Plants of [Arizona](#). no. 1771. May 5 1935. *Phaseolus fillicaulis* Aven Nelson sp. nov. [sic!]. "Fls rose". roadside Apache trail, east of Canyon Lake. [33°31'N. 111°26'W]. Collectors: [Aven Nelson, Ruth A. Nelson](#). /// DGD: *filiformis*, en floraison go vertes, 9 racèmes, 4-5 ovules par gousse. [BRIT; 23-II-2002].

[Aven Nelson & Ruth A Nelson 1771](#). *Phaseolus fillicaulis* Aven Nelson sp. nov.. Plants of [Arizona](#). Fls rose, roadside Apache Trail, east of Canyon Lake. [33°31'N. 111°26'W]. 5 May 1935. /// University of Wyoming, Laramie, The Rocky Mountain Herbarium. /// determinavit *Phaseolus filiformis* Benth., R. Maréchal, 1975. /// DGD: *filiformis*, fleurs et go vertes. [G; 12-II-2002].

University of Wyoming, Laramie. The Rocky Mountain Herbarium. Plants of [Arizona](#). No. 1771. May 5, 1935. *Phaseolus fillicaulis* Aven Nelson, sp. nov.. "Fls rose", roadside Apache Trail, east of Canyon Lake. [33°31'N. 111°26'W]. Collectors: [Aven Nelson, Ruth A Nelson](#). /// DGD: ressemble à *P. filiformis*, 7 racèmes, en floraison et jeunes gousses; farde bordée de rouge indiquée "TYPE"; jamais validement publié ! [K; 5-VIII-1985].

United States National Arboretum. Washington D.C. cachet à l' encre noire sans numéro. /// University of Wyoming, Laramie. The Rocky Mountain Herbarium. Plants of [Arizona](#). No. 1771. May 5, 1935. *Phaseolus fillicaulis* Aven Nelson, sp. nov.. "Fls rose", roadside Apache Trail, east of Canyon Lake. [33°31'N. 111°26'W]. Collectors: [Aven Nelson, Ruth A. Nelson](#). /// *Phaseolus fillicaulis* A. Nelson in exsiccata. US: Arizonia [sic!] Apache Trail, east of Canyon Lake A & RA Nelson 1771, 5 May 1935. Name has never been published and accordingly NOT A TYPE. (fide letter from G. Freytag, 12 Jan 1988). /// DGD: *filiformis*, 3 racèmes, en go vertes, folioles plutôt grandes 3.5 cm long 4 cm large et peu lobées. [NA; 17-VII-2006].

UC595563. University of Wyoming, Laramie. The Rocky Mountain Herbarium. Plants of [Arizona](#). No. 1771. May 5, 1935. *Phaseolus fillicaulis* Aven Nelson, sp. nov.. "Fls rose"; roadside Apache Trail, east of Canyon Lake. [33°31'N. 111°26'W]. Collectors: [Aven Nelson, Ruth A Nelson](#). /// *Phaseolus filiformis* Benth., det. GF Freytag, 22 Mar 1985. /// DGD: *filiformis*, 5 racèmes, en floraison, go vertes. [UC; 21-X-2003].

US1729596. /// United States National Museum. /// University of Wyoming, Laramie. The Rocky Mountain Herbarium. Plants of [Arizona](#). No. 1771. May 5, 1935. *Phaseolus fillicaulis* Aven Nelson, sp. nov. "Fls rose", roadside Apache Trail, east of Canyon Lake. [33°31'N. 111°26'W]. Collectors: [Aven Nelson, Ruth A Nelson](#). /// California Academy of Sciences. *P. wrightii* Gray, determined by T.H. Kearney (1948). /// United States National Herbarium. *P. filiformis* Benth., Oliver W. Norvell, 11/29/49 [29 novembre 1949; écrit au crayon noir par O.W. Norvell]. /// The University of Texas Herbarium. Systematics of *Phaseolus*. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS, USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 17 1988. /// DGD: *filiformis*, 5 racèmes, en floraison, jgo, go verte. [US; 1-IX-2009].

Arizona State University (ASU). Code barre. 265317. Vascular Plant Herbarium. /// Plants of Arizona. Fabaceae. *Phaseolus wrightii* Gray. USA. [Arizona](#). Maricopa County. BLM Eagletail mountains wilderness. North facing slope, steep canyon, running E/W. UTM12 28431 0E 3698862N. Elevation 2243 ft. [677 m]. Habitat: Sonoran desert upland. Assoc. spp: *Bernardia incana*, *Celtis pallida*, *Forestiera shrevei*, *Spheralcia* sp., *Viguiera deltoidea*. Notes: annual creeping vine. 12 March 2006 [12 mars 2006]. [Doug Newton 42](#), with

John Unruh. Arizona State University Herbarium (ASU). /// *Phaseolus filiformis* Benth., det. Doug Newton, 8/29/2007. Arizona State University (ASU). /// DGD: *filiformis*, 2 racèmes, en tt début de floraison. [ASU; 23-IX-2015].

35589. Herbarium. Arizona State University. /// Plants of [Arizona](#). Herbarium of Arizona State University. Leguminosae. *Phaseolus wrightii* Gray. County: Maricopa. Location: Banks of Fish Creek, Apache Trail. Habitat: [blanc]. Elev.: 2,300 ft. [694 m]. Date: III-1961 [? mars 1961]. Collector: [Nickerson](#), Richards, Crosswhite. Det.: [blanc]. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 3 racèmes, en floraison; pas de numéro ni de jour de collecte. [ASU; 23-IX-2015].

46533. Herbarium. Arizona State University. /// Plants of [Arizona](#). Herbarium of Arizona State University. Leguminosae. *Phaseolus wrightii* Gray. County: Pinal. Location: ½ mi W of Chuichu, AZ on St.hwy 93, tehn SSE 7.9 mi on PMC Mine/ White Horse Pass Road to Game & Fish Water-Catchment Tank # 632; Sec 16, T9S, R6E; Sawtooth Mts. Elev.: 1700 ft. Date: 18-XII-1971. Collector: [RB Oxford 357](#). Det.: Elinor Lehto. /// *P. filiformis* Benth., det. Nabhan 1984 [sic!]. Annotation – Herbarium of Arizona State University. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 7 racèmes, en floraison, jgo, go vertes, go sèches. [ASU; 23-IX-2015].

Plants of [Arizona](#). Herbarium of Arizona State University. Leguminosae. *Phaseolus wrightii* Gray. County: Pinal. Loc: ½ mi W of Chuichu, Az., on St. hwy 93, then SSE 7.9 mi on PMC Mine/ White Horse Pass road to Game & Fish Water – Catchment Tank # 632. Sec. 16 T9S, R6E. Sawtooth Mts. [32°45'N. 111°48'W]. Elev. 1700 ft. [510 m]. Coll. [RB Oxford 357](#). Date 18-XII-1971 [18 décembre 1971]. Det. Elinor Lehto. /// Escuela Nacional de Ciencias Biológicas. México, D.F.. *Phaseolus filiformis* Benth., det. Alfonso Delgado S., 1982. /// DGD: *filiformis*, 5 racèmes, en floraison, jgo, go vertes, go sèches. [ENCB; 23-IX-2004].

University of Arizona Herbarium. Plants of [Arizona](#). *Phaseolus wrightii* Gray. Trailing perennial. Rocky soil on cliff; *Encelia farinosa*, organ pipe cactus, *Opuntia*, *Sapium* association; north fork of Alamo Canyon, Ajo Mountains, Organ Pipe Cactus National Monument. [32°01'N. 112°43'W]. 2750 feet elevation [830 m]. Pima County. [KF Parker & CH Lowe 7747](#). October 7 1951. /// DGD: *filiformis*, en go sèches, 3 racèmes. [BRIT; 25-II-2002].

University of Michigan – Herbarium [cachet en relief]. /// May 21 1968. /// University of Arizona Herbarium. Plants of [Arizona](#). *Phaseolus wrightii* A. Gray. Trailing perennial. Rocky soil on cliff. *Encelia farinosa*, organ pipe cactus, *Opuntia*, *Sapium* association; north fork of Alamo Canyon, Ajo Mountains, Organ Pipe Cactus National Monument; 2,500 feet elevation. [32°01'N. 112°43'W]. Pima County. October 7, 1951. [K F Parker 7747](#), [C H Lowe](#). /// The University of Texas Herbarium. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1983. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F Freytag, Jan 28 1988. /// DGD: *filiformis*, 3 racèmes, en floraison, go vertes, folioles moyennes, lobées; une carte sur le côté gauche de l'étiquette indique par une étoile rouge la collecte dans le W du Pima County. [MICH; 17-IX-2007].

University of Arizona Herbarium. Plants of [Arizona](#). *Phaseolus wrightii* Gray. Twining perennial vine, in mesquite, palo verdes, and *Simmondsia chinensis*, sandy rocky soil. Dripping Springs, Puerto Blanco Mountains, Organ Pipe Cactus National Monument. [32°00'N. 112°54'W]. 2000 feet elevation [610 m]. Pima County. [KF Parker 7916](#). 15 April 1952. /// DGD: *filiformis*, 9 racèmes, en jgo, go vertes, 2 go sèches, graines, folioles à lobes arrondis. [BRIT; 25-II-2002].

University of Michigan – Herbarium [cachet en relief]. /// May 21 1968. /// University of Arizona Herbarium. Plants of [Arizona](#). *Phaseolus wrightii* A. Gray. Trailing perennial vine, in mesquites and palo verdes. Sandy,

rocky soil. *Simmondsia chinensis*, mesquite, foothill palo verde association; Dripping Springs Puerto Blanco Mountains, Organ Pipe Cactus National Monument; 2,000 feet elevation. [32°00'N. 112°54'W]. Pima County. April 15, 1952. [K F Parker 7916](#). /// The University of Texas Herbarium. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1983. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F Freytag, Jan 28 1988. /// DGD: *filiformis*, 5 racèmes, en go vertes, folioles moyennes, lobées; une carte sur le côté gauche de l'étiquette indique par une étoile rouge la collecte dans le W du Pima County. [MICH; 17-IX-2007].

US2130493. /// United States National Museum. /// University of Arizona Herbarium. Plants of [Arizona](#). *Phaseolus wrightii* Gray. Twining perennial vine, in mesquite, palo verdes, and *Simmondsia chinensis*. Sandy, rocky soil; Dripping Springs, Puerto Blanco Mountains, Organ Pipe Cactus National Monument; 2,000 feet elevation [610 m]. [32°00'N. 112°54'W]. Pima County. [KF Parker 7916](#). April 15, 1952 [15 avril 1952]. [une carte de l'Arizona figure avec une croix rouge indiquant la collecte dans l'extrême SW du Pima County près de la frontière avec le Mexique]. /// The University of Texas Herbarium. Systematics of *Phaseolus*. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS, USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 17 1988. /// DGD: *filiformis*, 8 racèmes, en floraison, jgo, go vertes, go sèche, tiges grêles volubiles. [US; 1-IX-2009].

US Natl Arb 76805. /// Plants of Southern [Arizona](#). *Phaseolus grayanus* W. & S. Superstition Mts. (Pinal Co.). [33°24'N. 111°00'W]. No. [372](#). [RH Peebles](#), [GJ Harrison](#), [TH Kearney](#), collectors. 3/22 – 27 [22 mars 1927]. /// Poisoned [cachet à l'encre noire]. /// *Ph. filiformis* Benth., Oliver W. Norvell, 1951 [écrit à l'encre noire par Norvell lui-même]. /// DGD: *filiformis*, 4 racèmes, en floraison, j go, go verte. [NA; 17-VII-2006].

US1326851. /// United States National Museum. Deposited by the U.S. Department of Agriculture. /// Plants of Southern [Arizona](#). *Phaseolus grayanus* W. & S. ?. San Tan Mts. N°. [648](#). [RH Peebles](#), [GJ Harrison](#), collectors. 12/27-25 [27 décembre 1925]. /// California Academy of Sciences. *P. wrightii* Gray, towards *P. filiformis* Benth., determined by T.H. Kearney (1948). /// United States National Herbarium. *P. filiformis* Benth., Oliver W. Norvell, 11/29/49 [29 novembre 1949; écrit au crayon noir par O.W. Norvell]. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 1 Apr 1985. /// DGD: *filiformis*, 3 racèmes, en go sèches, plante en rosette avec racine herbacée pivotante, forte hétérophylie. [x2]. [US; 1-IX-2009].

US1368255. /// United States National Museum. Deposited by the U.S. Department of Agriculture. /// Plants of Southern [Arizona](#). *Phaseolus grayanus* W. & S. Leaflets nearly entire. Fish Creek. No. [5230](#). [RH Peebles](#), [GJ Harrison](#), [TH Kearney](#). Apr. 1/28 [1^{er} avril 1928]. /// California Academy of Sciences. *P. wrightii* Gray, determined by T.H. Kearney (1948). /// United States National Herbarium. *P. filiformis* Benth., Oliver W. Norvell, 11/29/49 [29 novembre 1949; écrit au crayon noir par O.W. Norvell]. /// The University of Texas Herbarium. Systematics of *Phaseolus*. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS, USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 17 1988. /// DGD: *filiformis*, plus de 12 racèmes, en floraison, jgo, go vertes, go sèches, tiges volubiles grêles. [US; 1-IX-2009].

35802. Herbarium. Arizona State University. /// Plants of [Arizona](#). Herbarium of Arizona State University. Leguminosae. *Phaseolus wrightii* Gray. County: Maricopa. Location: 2.2 mi south of lower bridge at Canyon Lake, Apache Trail, Tonto National Forest. Habitat: roadside. Elev.: [blanc]. Date: 23-III-1967 [23 mars 1967]. Collector: Velasco & [DJ Pinkava 2711](#). Det.: Elinor Lehto. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, plus de 10 racèmes, en floraison, jgo, go vertes, go sèches, spécimen touffu. [ASU; 23-IX-2015].

52297. Herbarium. Arizona State University. /// Plants of [Arizona](#). Herbarium of Arizona State University. Leguminosae. *Phaseolus wrightii* Gray. County: Pima. Location: Organ Pipe Cactus National Monument

along East Loop, 3.3 mi from Rte 87. Peaks encircled by East Loop. Habitat: *Larrea- Ambrosia deltoidea* desert. Elev.: [blanc]. Date: 24-XI-1972 [24 novembre 1972]. Collector: T Nash, RK Brown, W MacIntyre, L McGill and DJ Pinkava 9973. Det. E. Lehto. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 2 racèmes, en jgo, folioles profondément lobées. [ASU; 23-IX-2015].

35624. Herbarium. Arizona State University. /// Plants of Arizona. Herbarium of Arizona State University. Leguminosae. *Phaseolus wrightii* Gray. County: Maricopa. Location: Fish Creek Hill. Habitat: [blanc]. Elev.: 3,000 ft. [905 m]. Collector: John Reed. Date: III-1954 [? mars 1954]. Det.: [blanc]. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 4 racèmes, en floraison, une plante en rosette avec racine pivotante un peu lignifiée diam. 7 mm; pas de numéro ni de jour de collecte. [ASU; 23-IX-2015].

ASU180130. /// Plants of Arizona. Arizona State University. *Phaseolus filiformis* Benth. Pinal County: Superstition Wilderness Area. Massacre Grounds. T1N R9E S5. Forest Rd. 77 ca. 3 mi. from turnoff to First Water trailhead from Az. Hwy. 88. Associated with *Dodonea viscosa*, *Ambrosia ambrosioides*, *Encelia farinosa*. Common annual upland herb. Flower reddish. 2400 ft. [724 m]. 21 Feb. 1991 [21 février 1991]. Kathleen C Rice 60, with Harry Spanglet. /// DGD: *filiformis*, 3 racèmes, en floraison. [ASU; 23-IX-2015].

ASU190287. /// Plants of Arizona. Arizona State University. *Phaseolus filiformis* Benth. Maricopa County: Tonto National Forest. Superstition Wilderness Area. Boulder Canyon Trailhead, across from Canyon Lake Marina on Az. Hwy. 88. T2N R9E S9. Trail 103. Associated with *Psilotrophe cooperi*, *Calliandra eriophylla*, *Ferocactus*, *Eriogonum* spp. Solitary perennial vine in canyon bottom. Flower violet. 2200 ft. [664 m]. 8 Sep 1991 [8 septembre 1991]. Kathleen C Rice 792, with M Chamberland & C Trivett. /// DGD: *filiformis*, 7 racèmes, en go vertes, go sèches. [ASU; 23-IX-2015].

ASU189402. /// Plants of Arizona. Arizona State University. *Phaseolus filiformis* Benth. Pinal County: Tonto National Forest. Superstition Wilderness Area. Heiroglyphic [sic!] Spring. NE of Hwy. 60 ca 3 mi. on turnoff to Gold Canyon Ranch. T1N R9E S27. Trail 101. Associated with *Ambrosia cordifolia*, *Simmondsia*, *Acacia greggii*, *Olneya tesota*. Permanent isolated, small spring. 3200 ft. [966 m]. 12 May 1992 [12 mai 1992]. Kathleen C Rice 1327, with LR Landrum & M Koops. /// DGD: *filiformis*, 9 racèmes, en floraison, go vertes, go sèches, graines. [ASU; 23-IX-2015].

ASU159575. /// Flora of the Castle Dome Mountains. Kofa National Wildlife Refuge. Yuma County, Arizona. Fabaceae. *Phaseolus wrightii* Gray. T3S, R18W, Sec 27; on soil "island" before wet tank at Little White Tanks; elev. 1560' [470 m]; rare along edge of wet tanks in Sonoran desert scrub. 14 FEB 1986 [14 février 1986]. Mary J Russo # 503. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 6 racèmes, en floraison, jgo, go vertes. [ASU; 23-IX-2015].

ASU159567. /// Flora of the Castle Dome Mountains. Kofa National Wildlife Refuge. Yuma County, Arizona. Fabaceae. *Phaseolus wrightii* Gray. T3S, R18W, Sec 27; along moist edge of lowest Little White Tank; elev. 1520' [458 m]; rare along edge of wet tanks in Sonoran desert scrub. 14 FEB 1986 [14 février 1986]. Mary J Russo # 508. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 5 racèmes, en floraison, jgo, go vertes. [ASU; 23-IX-2015].

ASU159572. /// Flora of the Castle Dome Mountains. Kofa National Wildlife Refuge. Yuma County, Arizona. Fabaceae. *Phaseolus wrightii* Gray. T3S, R18W, Sec 27; on gravel tallus slope N of dry wash/arroyo about ¼ mile above Figueroa Tank; elev. 1560' [470 m]; locally common in Sonoran Desert scrub. 15

FEB 1986. [Mary J Russo # 547](#). /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 4+4 racèmes, en floraison, jgo, go vertes, go sèches, deux plantes en rosette avec racine pivotante herbacée. [ASU; 23-IX-2015].

University of North Carolina Herbarium. 191825. /// Plants of [Arizona](#). Herbarium of Arizona State University. Leguminosae. *Phaseolus wrightii* Gray. Rocky desert hills, Maricopa Co. Apache Trail, Ariz. Hwy. 88. Fish Creek Hill. 8 mi E Tortilla Flat. [33° 32' 20"N. 111° 17' 40"W]. [Crosswhite Sands 81](#). 5/1/60 [1^{er} mai 1960]. /// The University of Texas Herbarium. *Phaseolus filiformis* Benth. Alfonso Delgado S. 1982. /// DGD: *filiformis*, 4 racèmes, en floraison, go sèches, spécimen pauvre. [NCU; 23-VIII-2011].

Herbarium – Department of Plant Biology, University of Illinois at Urbana – Champaign. Plants of [Arizona](#). *Phaseolus filiformis* Benth. (syn. *P. wrightii* A. Gray) (Fabaceae). 5 miles west of the boundary of Papago Indian res. On Hwy 86, Pima County. [32°00'45"N. 111°34'W]. Coll. [D S Seigler 10900](#). March 21, 1978. det. by Almut G. Jones, 1992. /// DGD: *filiformis*, 2 racèmes, en floraison, j go, j go en transition à go vertes. [TEX; 12-VIII-2008].

MO3203502. [Arizona](#). Maricopa County. UNICATE [cachet à l'encre rouge]. *Phaseolus* J Grimes '88 [écrit à l'encre noire]. West end of Saguaro Lake. Tonto National Forest. [33° 34'N. 111° 31'W]. Elev. ± 450 m. LEGUMINOSAE. Herbaceous vine. Flowers pink. [J. Solomon 380](#). 20 Dec. 1972 [20 décembre 1972]. Missouri Botanical Garden Herbarium. /// DGD: *filiformis*, 4 racèmes, en floraison, jgo, folioles à lobes ronds et profonds. [MO; 17-VI-2013].

35621. Herbarium. Arizona State University. /// Plants of Arizona. Herbarium of Arizona State University. Leguminosae. *Phaseolus wrightii* Gray. County: Maricopa. Location: Fish Creek, Horse Mesa Dam. Habitat: north slope, rock soil. Perennial, herbaceous. Elevation: 2,300 ft. [694 m]. Collector: [R Stephan](#). Date: [blanc]. Determiner: [blanc]. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 4 racèmes, en go vertes, hétérophylie; pas de numéro ni de date de collecte. [ASU; 23-IX-2015].

UCR32789. /// University of Arizona Herbarium. Plants of [Arizona](#). *Phaseolus wrightii* Gray. Annual in rocks; flower purple. Picacho Peak. [32° 37'40"N, 111° 23'20"W]. [TR Van Devender](#) & RS Thompson. Pinal County. 28 April 1983 [28 avril 1983]. /// Herbarium of the University of California, Riverside. *Phaseolus filiformis* Benth. Det. by Andrew C. Sanders. Date May 1984. /// Specimen data entered into **UCR** database. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F Freytag, Apr 6 1992. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 7 racèmes, en floraison, jgo, jgo en transition à go vertes, folioles lobées, hétérophylie; pas de numéro de collecte. [UCR; 18-VIII-2014].

UCR50261. /// University of Arizona Herbarium. Plants of [Arizona](#). *Phaseolus filiformis* Benth. Annual on moist sand in streambed, locally common; flower pink. Alamo Canyon, Organ Pipe Cactus National Monument. [32° 03'30"N, 112° 43'W]. [TR & RK Van Devender 87-6](#). Pima County. 7 March 1987 [7 mars 1987]. /// Specimen data entered into **UCR** database. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F Freytag, Apr 6 1992. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 4 racèmes, en floraison, jgo en transition à go verte, folioles lobées. [UCR; 18-VIII-2014].

United States National Arboretum. Washington D.C. cachet à l'encre noire sans numéro. /// Plants of [Arizona](#). Herbarium of Arizona State University. Leguminosae. *Phaseolus wrightii* Gray. County: Maricopa. Loc: 2.2 mi south of lower bridge at Canyon Lake, Apache Trail, Tonto National Forest. [33°31'N. 111°26'W]. Habitat: roadside. Coll. [Velasco & DJ Pinkava 2711](#). Date: 23-III-1967 [23 mars 1967]. Det.

Elinor Lehto. /// DGD: *filiformis*, plus de 10 racèmes, en floraison, j go, go vertes, spécimen abondant mais mal pressé, folioles petites. [NA; 18-VII-2006].

UCR27996. /// Herbarium of the University of California, Riverside. *Phaseolus filiformis* Benth. Grown in a UCR greenhouse from seed collected by J.G. Waines on 12 Sept. 1977 [12 septembre 1977] in Palm Canyon in the Kofa Game Preserve, Yuma Co., Arizona. Legume accession # L 299. Seeds planted 5 Feb 1982. A twining fibrous rooted annual with lavender-pink flowers. AC Sanders & R Manshardt 2447. 11 May 1982. /// Specimen data entered into UCR database. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F Freytag, Apr 6 1992. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 9 racèmes, en floraison, jgo, go vertes, folioles lobées. [UCR; 18-VIII-2014].

ASU211651. /// Flora of Barry M. Goldwater Air Force Range. Yuma County, Arizona. Fabaceae. Slimjim bean. *Phaseolus filiformis* Benth. (syn.= *Phaseolus wrightii* Gray). DMC ²62600/ ³⁵55700 [sic!]. Southern Cabeza Prieta National Wildlife Refuge, center of Pinacate Lava Flow, 1.5 km NNW of Monument Bluff. Scattered. Ascending perennial vine; 1-2 m long. Corolla: purple. Fruit a pod. Community: mesquite/paloverde shrubland. Topography: N-facing drainage, 2-25° slope. Substrate: volcanic, gravelly sandy loam. Associates: *Parkinsonia florida*, *Ambrosia psilostachya*, *Prosopis*, *Bouteloua* spp. 244 m. 12 Nov 1993 [12 novembre 1993]. JR Morrison, PJ Walter #614. Plant Inventory & Determination by Center of Ecological Management of Military Lands (CEMML), Department of Forest Sciences, Colorado State University, Fort Collins. /// DGD: *filiformis*, 7 racèmes, en floraison, jgo, go verte, go sèche. [ASU; 23-IX-2015].

88633. Herbarium. Arizona State University. /// Plants of Arizona. Herbarium of Arizona State University. Leguminosae. *Phaseolus wrightii* Gray. County: Maricopa. Location: off of road to Canyon Lake (N of Goldfield area) on Apache Trail. W-facing slope. Habitat: mountainside, volcanic tuff, some quartz. Elev.: ca 2200' [664 m]. Date: 27-II-1973 [27 février 1973]. Collector: Jannifer Wyatt #48 & Rose Duffield. Det.: Elinor Lehto. /// *Phaseolus filiformis* Benth. Det. Buhrow Nabhan 1984 [sic!]. Annotation - Herbarium of Arizona State University. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 1 1991. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 2 racèmes, en floraison, hétérophylie. [ASU; 23-IX-2015].

New Mexico

New Mexico State University 0079014 Data-Based. /// P.J. Alexander; det. E.M. Jercinovic. Plantae Novomexicanae [New Mexico]. County of Luna. *Phaseolus pedicellatus* Benth. var. *grayanus* (Woot. & Standl.) A. Delgado ex Isely. Fabaceae. Southern Florida Mountains, about halfway up False Box Canyon, ± 1.1 miles SE of South Peak, ± 4.2 miles E of the southern bend in NM Hwy 11, 32.0425° N [sic!], 107.6310° W [sic!] (WGS84), elev. 5300 ft. [1,615 m] SE slope on the W side of the canyon bottom, gravelly soil among rhyolitic boulders. With *Hybanthus verticillatus* (907), *Evolvulus alsinoides*, *Euphorbia exstipulata*, *Polanisia dodecandra*, *Bouteloua aristidoides*, *Bouteloua eripoda*, *Muhlenbergia porter*, *Heteropogon contortus*, *Opuntia engelmannii*, *Parthenium incanum*, *Janusia gracilis*, *Aloysia wrightii*, *Tecoma stans*. Common. #908. 25 Aug. 2008 [25 août 2008]. /// *Phaseolus filiformis* Benth. Annotated by: K. Allred. Date: 2012. /// DGD: *filiformis*, 5 racèmes, en floraison, jgo, go vertes, go sèche, forte hétérophylie, variégation le long des nervures centrales des folioles terminales et latérales, go à 6 graines. [NMC; 28-VIII-2017].

New Mexico State University 0084700 Data-Based. /// Fabaceae of New Mexico. *Phaseolus filiformis* Benth. Luna County: southwestern extremity of Florida Mountains, in rocky, gravelly, dry drainage bed of steep-walled canyon. Horizontal datum WGS84. N 32° 02.467', W 107° 38.522' Elevation 1495 m. With *Cevallia sinuata*, *Chamaesyce arizonica*. 26 September 2014 [26 septembre 2014]. Eugene M. Jercinovic 1415. /// DGD: *filiformis*, une plante entière avec racine herbacée pivotante, 8 racèmes, en floraison, jgo, go vertes, hétérophylie, folioles latérales avec lobe extérieur double, variégation le long des nervures centrales des folioles terminales et latérales, go à 5 graines. [NMC; 28-VIII-2017].

UCR40791. /// [New Mexico](#), U.S.A. *Phaseolus filiformis* Benth. Leguminosae. Luna Co.: Florida Mts., Spring Canyon State Park, mouth of Spring Canyon (NE1/4 sec. 12, T25S, R8W). 5000 ft. elev. [1,524 m], arroyo bottom, igneous substrate. Sept. 21, 1985 [21 septembre 1985]. [RD Worthington 13732](#). Ex Herb. UTEP. /// Specimen data entered into **UCR** database. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F Freytag, Apr 6 1992. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 9 racèmes, en floraison, jgo, go vertes, go sèches, une plante en rosette avec racine herbacée pivotante, forte hétérophylie. [UCR; 19-VIII-2014].

[New Mexico](#), USA. *Phaseolus filiformis* Benth. Leguminosae. Dona Ana Co: Organ Mts. SW tip of mts, at and about “Pena Blanca” (T24S, R3E, NE ¼ sec 14). [32°14’N. 106°36’W]. 1400 m. 27 Sep 1992 [27 septembre 1992]. [RD Worthington 21668](#). Ex Herb. UTEP. /// DGD: *filiformis*, 2 plantes avec racine herbacée pivotante, 2+6 racèmes, en floraison, go sèches. [M; 14-X-2005].

UCR87591. /// Flora of the Potrillo Mts., Dona Ana Co., [New Mexico](#). *Phaseolus filiformis* Benth. Leguminosae. NM: Dona Ana Co., Potrillo Mts., Mt. Riley, SE side (T27S, R2W, NE ¼ sec. 32). [31° 55’N, 107° 02’W]. 1450-1550 m, rocky slope, igneous substrate. Unusual spring germination in wet year. 23 Mar 1995 [23 mars 1995]. [RD Worthington 24203](#). Ex Herb. UTEP. /// Specimen data entered into **UCR** database. /// DGD: *filiformis*, 4 racèmes, en floraison, jgo, go vertes, go verte en transition à go sèche, forte hétérophylie. [UCR; 19-VIII-2014].

No. 108. *P. wrightii* A Gr. *P. n.sp.* Benth. [sic!, écrit au crayon noir sur l’étiquette principale]. Collected in Expedition from western Texas to El Paso, [New Mexico](#), May-October 1849, by [Charles Wright](#). /// Herbarium Hookerianum 1867 [cachet]. /// Royal Botanic Gardens. H922/76 5 Kew [cachet à l’encre verte]. /// DGD: 3 plantes en floraison et gousses à maturité, racine fibreuse pivotante, 6 racèmes, ressemble à *P. filiformis* par la lobulation des folioles, la forme de la gousse, pas de racine tubérisée; dans une farde à bord rouge indiquée “TYPE”. [K; 5-VIII-1985].

Texas

UC866121. Plants of [Texas](#). El Paso County. Franklin Mts., near El Paso. Altura Park. [31°45’N. 106°29’W]. Semi-desert ravines. *Phaseolus wrightii* Gray. Collected by [Bronson Barlow](#). 10 July 1911. /// The University of Texas Herbarium, *Phaseolus filiformis* Benth., Alfonso Delgado S. 1982. /// DGD: *filiformis*, 2 racèmes, en go sèches, 1 plante entière avec racine herbacée fibreuse pivotante, plusieurs tiges poussant aux premiers noeuds donnant l’aspect de rosette. [UC; 21-X-2003].

US1568283. /// United States National Museum. /// Plants of western [Texas](#). *Phaseolus grayanus* W & S. (new to Texas). Vicinity of El Paso. [31° 45’30”N. 106° 29’W]. No. 98. Bro. [Benedict](#), collector. /// United States National Herbarium. *P. filiformis* Benth., Oliver W. Norvell, 12/2/49 [2 décembre 1949; écrit au crayon noir par O.W. Norvell]. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 1 Apr 1985. /// DGD: *filiformis*, 4 racèmes, en début de floraison.[US; 1-IX-2009].

Plants of [Texas](#). *Phaseolus wrightii* Gray. Presidio Co.: Panther Canyon, north of Hwy 170 and Rio Grande River, in vicinity of Colorado Canyon. [29°19’13”N. 103°58’28”W]. Locally common among boulders. [Mary Butterwick B-1007](#) with S Strong. 25 June 1975. University of Texas at Austin. /// The University of Texas Herbarium. Systematic Revision of *Phaseolus*. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS, USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, May 25, 1988. /// code barre University of Texas – Austin (LL, TEX) 00404082. /// DGD: *filiformis*, 2 racèmes, en floraison, go verte, spécimen mal pressé et pauvre. [TEX; 11-VIII-2008].

The Lundell Herbarium. University of Texas. Plants of [Texas](#). *Phaseolus wrightii* Gray. Presidio Co.: infrequent vine growing on *Baccharis glutinosa* in vicinity of seep spring at Ojo Escondido, ca. 1 mile W of Big Bend Ranch headquarters. [29°29’52”N. 103°55’42”W]. September 26, 1975. [M Butterwick](#) & J Lamb #

1675. /// The University of Texas Herbarium. Systematic Revision of Phaseolus. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS, USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, May 25, 1988. /// Annotation ! Duane Isely 1993 (ISC). /// code barre University of Texas – Austin (LL, TEX) 00404081. /// DGD: *filiformis*, 5 racèmes, en floraison, j go, j go en transition à go verte, go verte, folioles moyennes lobées, tige volubile. [TEX pour le cachet; 11-VIII-2008].

The Lundell Herbarium. University of Texas. Plants of Texas. *Phaseolus wrightii* Gray. Presidio Co.: infrequent perennial vine encountered throughout the lower half of Palillos Canyon, in the southeastern portion of the Chinatis. Elevation ca. 4100 ft. [1,250 m]. [29°54'N. 104°27'W]. Corolla pink. June 16, 1977. M Butterwick & E Lott # 3881. /// The University of Texas Herbarium. Systematic Revision of Phaseolus. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS, USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, May 25, 1988. /// Annotation ! Duane Isely 1990. /// code barre University of Texas – Austin (LL, TEX) 00404085. /// DGD: *filiformis*, une plante entière avec racine fibreuse herbacée pivotante, 5 racèmes, en floraison, j go, j go en transition à go verte, go verte, go sèche, hétérophylie, tige volubile seulement dans partie terminale. [TEX pour le cachet; 11-VIII-2008].

Flora of Texas. *Phaseolus wrightii* Gray. Presidio Co.: stems twining; in shrubs (*Viguiera stenoloba*, etc) in stony soil along dry arroyo, N side of St. Rt. [state route] 170, ca. 2.5 mi NW of Fresno Canyon bridge, E of Madera Canyon. Big Bend Ranch SNA [State Natural Area]. Elev. ca. 2400 ft. [730 m]. Santana Mesa Quadrangle. 292712N, 1035330W. W R Carr # 10951 (with Pat McNeal). 2 Mar 1991 [2 mars 1991]. /// ! B.L. Turner, Flora of Texas, 1999/ 2000 [cachet à l'encre noire]. /// code barre University of Texas – Austin (LL, TEX) 00018035. /// DGD: *filiformis*, 9 racèmes, en floraison, j go, j go en transition à go vertes, go vertes. [TEX; 11-VIII-2008].

Lundell Herbarium. /// Leg. Pap. 128d. *Phaseolus wrightii* Gray. USA, Texas, Presidio Co.. Loc. between Madrill Ranch and the falls in upper Madera Canyon, Bofecillas Mountains on “Big Bend Ranch”. 29° 22' 30" N, 103° 53' W. Alt. 3500-3900 ft. [1,060-1,180 m] a local community of deciduous woods along creek, deeply encanyoned mountains of extrusive igneous rocks. Gravelly and grussy, somewhat calcareous alluvium. Assoc. *Fraxinus*, *Salix*, *Typha*, *Cladium*, *Eleocharis*, *Adiantum*, etc. 19 Oct. 1972 [19 octobre 1972]. Col. F Chiang, T Wendt and M C Johnston N°. 9709. /// The University of Texas Herbarium. Systematic Revision of Phaseolus. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS, USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, May 25, 1988. /// code barre University of Texas – Austin (LL, TEX) 00404079. /// DGD: *filiformis*, 8 racèmes, en floraison, j go, j go en transition à go vertes, go vertes. [LL; 11-VIII-2008].

Herbarium of Southern Methodist University. Plants of Texas, county: Brewster. *Strophostyles helvola* (L.) Ell., flowers pink, rich floor of Boot Canyon, Chisos Mountains. [29°15'N. 103°15'W]. date August 7, 1946. DS Correll 13706. Determin. VL Cory. /// The University of Texas Herbarium. Determinavit WR Ruff, not *Strophostyles*, August 1981. /// écrit à la main à l'encre noire “*Phaseolus wrightii*”. /// DGD: *filiformis*, début de la floraison, tiges grêles avec tendance volubile, 6 racèmes, base de la tige est lignifiée longueur 6 cm diamètre 4 mm. [BRIT; 23-II-2002].

Lundell Herbarium. /// Plants of Texas. Lundell Herbarium, Texas Research Foundation. *Phaseolus wrightii* Gray. Presidio Co.: in sand along dry wash, about 13 miles from Redford, on road to Lajitas. [29°19'20"N. 103°59'10"W]. Flowers pinkish. D S Correll N°. 23336. October 26, 1959. /// Treated in 1967 with lauryl pentachlorophenate ! /// Manual of the Vascular Plants of Texas. [blanc] determined by Marshall C. Johnston. /// The University of Texas Herbarium. Systematic Revision of Phaseolus. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS, USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, May 25, 1988. /// code barre University of Texas – Austin (LL, TEX) 00404078. /// DGD: *filiformis*, une plante entière avec une ébauche de rosette, et base de

racine herbacée fibreuse, 8 racèmes, en floraison, j go, go vertes, go sèches, hétérophylie marquée, qq folioles avec variéation centrale. [LL; 11-VIII-2008].

Lundell Herbarium. /// Plants of [Texas](#). Lundell Herbarium, Texas Research Foundation. *Phaseolus heterophyllus* Willd. Presidio Co.: Canyon in the Bofecillas Mts. about 25 miles south east of Redford. [29°16'N. 103°55'W]. Volcanic rocks. Petals pink; keel twisted clockwise 360° and mostly green in color. [D S Correll](#) & M C Johnston. N°. 24452. Date September 11, 1961. /// Treated in 1967 with lauryl pentachlorophenate ! /// Manual of the Vascular Plants of Texas. *Phaseolus wrightii* Gray, determined by Marshall C. Johnston, 1966. /// The University of Texas Herbarium. Systematic Revision of Phaseolus. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS, USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, May 25, 1988. /// Annotation ! Duane Isely 1993 (ISC). /// code barre University of Texas – Austin (LL, TEX) 00404084. /// DGD: *filiformis*, une plante entière avec ébauche de rosette avec base de tige lignifiée vers racine fibreuse pivotante, 6 racèmes, en floraison, j go, j go en transition à go vertes, go sèches. [LL; 11-VIII-2008].

Lundell Herbarium [cachet à l'encre noire]. /// Plants of [Texas](#). Lundell Herbarium, Texas Research Foundation. *Strophostyles*. Brewster Co.: Big Bend Park north of Burro Mesa along road. [29°15'N. 103°24'45"W]. Lechuguillachino hillside. Flowers pinkish. [D S Correll](#) & M C Johnston. N°. 24481. Date September 11, 1961. /// Treated in 1967 with lauryl pentachlorophenate ! /// Manual of the Vascular Plants of Texas. *Phaseolus wrightii* Gray, determined by Marshall C. Johnston, 1966. /// The University of Texas Herbarium. Systematic Revision of Phaseolus. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1985. /// Annotation ! Duane Isely 1993 (ISC). /// code barre University of Texas – Austin (LL, TEX) 00404089. /// DGD: *filiformis*, une plante entière à racine herbacée pivotante, hétérophylie, 6 racèmes, en floraison, j go, j go en transition à go vertes, go verte, go sèches, petites graines rugueuses dans la pochette. [LL; 12-VIII-2008].

Lundell Herbarium. /// Plants of [Texas](#). Lundell Herbarium, Texas Research Foundation. *Phaseolus wrightii* Gray. Presidio Co.: Tapia Canyon, about 12 miles east of Redford. [29°27'N. 103°59'W]. At springs of slope. [D S Correll](#) & Helen B Correll N°. 30555. Date November 8, 1964. /// Treated in 1967 with lauryl pentachlorophenate ! /// Manual of the Vascular Plants of Texas. *Phaseolus wrightii* Gray, determined by Marshall C. Johnston, 1966. /// The University of Texas Herbarium. Systematic Revision of Phaseolus. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS, USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, May 25, 1988. /// Annotation ! Duane Isely 1993 (ISC). /// code barre University of Texas – Austin (LL, TEX) 00404080. /// DGD: *filiformis*, 3 plantes entières avec racine fibreuse pivotante, 1+1+3 racèmes, en floraison, j go, j go en transition à go vertes, go vertes, hétérophylie marquée. [LL; 11-VIII-2008].

Lundell Herbarium. /// Plants of [Texas](#). Lundell Herbarium, Texas Research Foundation. *Phaseolus wrightii* Gray. Presidio Co.: Tapia Canyon, 12.4 miles E of Redford. [29°27'N. 103°58'55"W]. Flowers pink. [D S Correll](#) & Helen B Correll No. 30861. Date April 16, 1965. /// Treated in 1967 with lauryl pentachlorophenate ! /// Manual of the Vascular Plants of Texas. [blanc] determined by Marshall C. Johnston. /// The University of Texas Herbarium. Systematic Revision of Phaseolus. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS, USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, May 25, 1988. /// Annotation ! Duane Isely 1993 (ISC). /// code barre University of Texas – Austin (LL, TEX) 00404088. /// DGD: *filiformis*, une plante entière en rosette avec racine fibreuse pivotante, plus de 10 racèmes, en floraison, j go, j go en transition à go vertes, go vertes, go sèches, hétérophylie marquée. [LL; 11-VIII-2008].

Lundell Herbarium [cachet à l'encre noire]. /// Plants of [Texas](#). Lundell Herbarium, Texas Research Foundation. *Phaseolus wrightii* Gray. Brewster Co.: on talus slope, drainage area on south side of Burro Mesa, Big Bend Natl. Park. [29°14'55"N. 103°24'45"W]. Vine; flowers pinkish. [D S Correll](#) N°. 33850. September 23, 1966. /// Treated in 1967 with lauryl pentachlorophenate ! /// The University of Texas

Herbarium. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1982. /// Tropical Agriculture Research Station, ARS, USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, May 25, 1988. /// Annotation ! Duane Isely 1990. /// code barre University of Texas – Austin (LL, TEX) 00040239. /// DGD: *filiformis*, une plante entière avec racine fibreuse herbacée pivotante, 6 racèmes, en floraison, j go, j go en transition à go vertes, go vertes, go sèche, hétérophylie. [LL; 12-VIII-2008].

Lundell Herbarium. /// Plants of [Texas](#). Lundell Herbarium, Texas Research Foundation. *Phaseolus wrightii* Gray. Presidio Co.: boulder-covered mountain, 19 miles southeast of Redford on Camina [sic!] del Rio # 170. [29°25'N. 104°10'30"W]. Flowers pink. [D S Correll](#) N°. 33892. September 24, 1966. /// Treated in 1967 with lauryl pentachlorophenate ! /// The University of Texas Herbarium. Systematic Revision of *Phaseolus*. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1982. /// Tropical Agriculture Research Station, ARS, USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, May 25, 1988. /// Annotation ! Duane Isely 1990. /// code barre University of Texas – Austin (LL, TEX) 00018033. /// DGD: *filiformis*, 7 racèmes, en floraison, j go, j go en transition à go vertes, go vertes, hétérophylie marquée, qq folioles avec variégation centrale. [LL; 11-VIII-2008].

US138617. North American Plants. No. [23](#). *Phaseolus wrightii* Gray. Twining, 2-3 ° long [sic !], mottled leaves. Habitat Capote Creek, near Rancheria (S of Marfa), W [Texas](#). [V Havard](#), U.S.A. Oct. [18]83 [? octobre 1883]. /// United States National Herbarium. *P. filiformis* Benth., Oliver W. Norvell, 11/29/49 [29 novembre 1949; écrit au crayon noir par O.W. Norvell]. /// *Phaseolus filiformis* Benth., det. G.F. Freytag, 27 Mar 1985. /// DGD: *filiformis*, 6 racèmes, en floraison, jgo, go vertes, go sèches. [US; 1-IX-2009].

[42](#). *Phaseolus*. near Peña Colorada. W [Texas](#). [Brewster County]. [30°01'20"N. 103°20'22"W]. Sept. 80 [? septembre 1880; c'est l'étiquette originale de collecte, écrite au crayon]. /// Herbarium of Academy of Natural Sciences, Philadelphia. *Phaseolus*. /// *P. angustissimus* Gray (*P. dilatatus* Woot. & Standl.) CVP [écrit à l'encre noire directement sur la planche par CV Piper]. /// DGD: *filiformis*, 4 racèmes, en floraison, j go, go vertes, go sèches, folioles moyennes à grandes pour l'espèce profondément lobées; pas d'indications de collecteur mais l'écriture est la même que pour [V Havard](#) 41, c'est donc une collecte de [V Havard](#). [PH; 13-IX-2007].

Herbarium of the University of Texas. [[Texas](#)]. Plants of Presidio County and vicinity, Sierra Tierra Vieja. *Phaseolus wrightii* Gray, not observed elsewhere in area. Locality along trail up west ridge just below mouth of Musgrave Canyon. [30°20'N. 104°38'W]. Date: July 9, 1941. Coll. [LC Hinckley](#) 1943. altitude 1200 m. /// Determinavit *Phaseolus filiformis*. Alfonso Delgado S., 1985. /// DGD: *filiformis*, tout début de floraison, 1 bouton floral. [BRIT; 22-II-2002].

79149 /// Herbarium of the University of Texas. Plants of Trans-Pecos [Texas](#). Presidio County. N°. [1943](#). *Phaseolus wrightii* A. Gray. Locality Ridge just west of mouth of Musgrave Canyon. Tierra Vieja Mts. [30°20'N. 104°38'W]. Date July 9, 1941. Coll. [L C Hinckley](#). /// The University of Texas Herbarium. Systematic Revision of *Phaseolus*. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS, USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth. Det. George F. Freytag, May 25, 1988. /// code barre University of Texas – Austin (LL, TEX) 00404090. /// DGD: *filiformis*, un seul racème, en début de floraison, spécimen mal pressé. [TEX; 11-VIII-2008].

US Natl Arb 162602. /// Herbarium of the University of Texas. Plants of Presidio County and vicinity. No. [2238](#). *Phaseolus wrightii* Gray, det. F.J. Hermann, 1942. Thick on west slope of Capote Canyon on dry sedimentary rock (on volcanic ash) at the turn of the canyon. Locality: about 40 mi W Marfa. [30°15'N. 104°29'W]. Date: Nov. 1, 1941. Coll. [LC Hinckley](#). Altitude about 1050 m. /// *Ph. filiformis* Benth., Oliver W Norvell, 1951 [écrit à l'encre noire par Norvell lui-même]. /// Manual of the Vascular Plants of Texas. *Phaseolus wrightii* A Gray, determined by Marshall C. Johnston, 1966. /// treated in 1967 with lauryl pentachlorophenate ! /// DGD: *filiformis*, 10 racèmes, en go vertes, go sèches, spécimen abîmé. [NA; 18-VII-2006].

Herbarium of the University of Texas. Plants of Trans-Pecos [Texas](#), Presidio County. No. [2238](#). *Phaseolus wrightii* Gray. Thick on west canyon slope of Capote Creek; sedimentary rock Tierra Vieja. [30°15'N. 104°29'W]. Date: Nov. 1, 1941 [1^{er} novembre 1941]. 3,600 ft. [1,100 m]. Coll. [LC Hinckley](#). /// The University of Texas Herbarium. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1982. /// DGD: *filiformis*, en go vertes, go sèches, folioles lobées et tiges volubiles dans partie supérieure de la plante, développement de l'hétérophylie. [NY; 10-VI-2003].

Herbarium of the University of Texas. Plants of Trans-Pecos [Texas](#), Bofecillos Mts. No. [2300](#). *Phaseolus wrightii* Gray. In creek bed of Arroyo Primero from mouth up to old Madrid Ranch. [29°28'N. 104°00'W]. 3000-3200 ft. [970 m]. Date: Dec. 13, 1941. Coll. [LC Hinckley](#). /// The University of Texas Herbarium. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1982. /// DGD: *filiformis*, 2 plantes à racines fibreuses pivotantes, en floraison, go vertes, folioles lobées dans partie supérieure de la plante, développement de l'hétérophylie. [NY; 10-VI-2003].

Herbarium of the University of Texas. Plants of Presidio County and vicinity. [[Texas](#)]. Bofecillos Mountains. No. [2343](#). *Phaseolus wrightii* Gray. Bean similar to that found in bed of Mexican Canyon. Bed of Fresno Creek about 1 mi. below Smith mine. Date: Jan. 25, 1942 [25 janvier 1942]. Coll. [LC Hinckley](#). Altitude about 2700 ft. [820 m]. /// The University of Texas Herbarium. *Phaseolus filiformis* Benth., Alfonso Delgado S. 1982. /// DGD: *filiformis*, 2 racèmes, en go verte, go sèche, spécimen 'scrappy'. [NY; 18-II-2014].

Herbarium of the University of Texas. Plants of Trans-Pecos [Texas](#), Presidio County and vicinity. No. [3420](#). *Phaseolus wrightii* Gray. In canyon on south side Chinati Mts near Old Ross mine. [29°55'N. 104°28'W]. Date Oct. 21, 1944 [21 octobre 1944]. 5000 ft [1,520 m]. Coll. [LC Hinckley](#). /// The University of Texas Herbarium. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1982. /// DGD: *filiformis*, en floraison, jgo, go vertes, folioles lobées et tiges volubiles dans partie supérieure de la plante, développement de l'hétérophylie. [NY; 10-VI-2003].

Herbarium of the University of Texas. Plants of Presidio County, [Texas](#). *Phaseolus heterophyllus*. Lower slope of volcanic gravel west of Fresno Creek ca. 5.5 miles above the mouth ("Bluebonnet Hill"). Alt ca. 3000 ft. Locally frequent sprawling plants among clumps of cactus. Date March 1, 1959. Coll. [Johnston and Warnock](#) No. [3702](#). /// *Macroptilium heterophyllum* (Willd.) M. & B., det. J.A. Lackey. April 1980. /// The New York Botanical Garden. *Phaseolus filiformis* Benth. det. Alfonso Delgado Salinas, 11/2009. /// DGD: *filiformis*, plus de 12 racèmes, en floraison, jgo, go verte, hétérophylie. [NY; 18-II-2014].

Herbarium of the University of Texas. Plants of Presidio County, [Texas](#). *Phaseolus wrightii*, B.L. Turner, 1959. Lower slope of volcanic gravel west of Fresno creek ca. 5.5. miles above the mouth ("Bluebonnet Hill"). Alt. ca. 3000 ft. [910 m]. [29°16'54"N. 103°51'21"W]. Locally frequent sprawling plants among clumps of cactus. Date March 1, 1959. Coll. [Johnston and Warnock](#) N°. [3702](#). /// The University of Texas Herbarium. Systematic Revision of *Phaseolus*. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS, USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, May 25, 1988. /// Annotation ! Duane Isely 1993 (ISC). /// code barre University of Texas – Austin (LL, TEX) 00404091. /// DGD: *filiformis*, 5 racèmes, en floraison, j go, go verte, go sèche. [TEX; 11-VIII-2008].

The University of Michigan – 1817 – Artes Scientia Veritas [cachet à l'encre noire]. /// Sep 20 1993. /// Plants of Presidio County, [Texas](#). Fabaceae. *Phaseolus heterophyllus* Willd. 12.1 mi E on FR 170 from the elementary school in Redford. [29°25'10"N. 104°10'35"W]. Mesic to xeric creekside with igneous rock and alluvial soil. Associates *Lupinus*, *Omphalodes*, *Prosopis*, *Euphorbia*, *Cynodon*, *Nerisyrenia*, *Baileya*, *Machaeranthera*, *Lantana*, *Polypodon*, *Cyperus*, *Streptanthus*, *Poa*, *Minulus*, and *Perityle*. Elev. ca 2410 feet [730 m]. Flowers pink. Occasional. [S & G Jones](#) [8105](#). 18 March 1992. /// DGD: *filiformis*, 4 racèmes, en floraison, j go, go verte, folioles peu à modéremment lobées et variegation centrale. [MICH; 17-IX-2007].

Plants of [Texas](#). Zilker Botanical Garden. Collected as part of the Lianas & Vines of Texas Project. *Phaseolus filiformis* Benth. Leguminosae. Presidio Co.: Big Bend Ranch State Park, Bofecillos Canyon. 1250-1280 m. Collected from bank of dry creek bed “downstream” from Ojito Adentro. [29°29'34"N. 104°03'31"W]. [Alexander Krings 302](#). 6-8 October 1999. Collected under TX Parks & Wildlife Dept. Research Permit No. 54-99. /// ! B.L. Turner, Flora of Texas, 2005 [cachet à l'encre noire]. /// code barre University of Texas – Austin (LL, TEX) 00201583. /// DGD: *filiformis*, 3 racèmes, en j go en transition à go vertes, go verte, go sèche. [TEX; 11-VIII-2008].

Flora of Texas. Plant Resources Center (TEX-LL), University of Texas at Austin. Fabaceae: *Phaseolus filiformis* Benth., det. A. Delgado S., 2005. [Texas](#): Presidio Co.: Chinati Mtns. State Natural Area. Pelillos Canyon. Deep igneous-derived gravelbanks just upstream from the dam. 29° 51' 39" N, 104° 01' 35" W. Elev. 3775' [1,150 m]. Twining perennial w/ various branches from near base. Fls palest pink. [Emily J Lott](#) w/ S P Rankin, M L Butterwick & P R Manning [5358](#). September 18, 2004. /// code barre University of Texas – Austin (LL, TEX) 00441420. /// ! B.L. Turner 2006 [cachet à l' encre noire]. /// DGD: *filiformis*, 6 racèmes, en floraison, go vertes, go sèches. [TEX; 11-VIII-2008].

Flora of Texas. Plant Resources Center (TEX-LL), University of Texas at Austin. Fabaceae: *Phaseolus filiformis* Benth.. [Texas](#): Presidio Co.: Chinati Mtns. State Natural Area. Foothills at S end of Sa. Parda; seep in small drainage. 29° 53' 23" N, 104° 30' 35" W. Elev. 3830' [1,160 m]. Mixed Chihuahuan Desert Scrub w/ *Acacia neovernicosa*, *Larrea*, *Guaicum*, *Celtis pallida*, *Ephedra*, *Fouquiera*, *Yucca torr.*, *Viguiera steno.*, *Jatropha*, *Opuntia* spp., grasses. Twiner from perennial roots. Fls white, faded tp yellow-orange. Uncommon. [Emily J Lott](#) w/ S P Rankin, P R Manning [5418](#). March 24, 2005. /// code barre University of Texas – Austin (LL, TEX) 00441431. /// ! B.L. Turner 2006 [cachet à l' encre noire]. /// DGD: *filiformis*, une plante entière en rosette, avec racine pivotante fibreuse, plus de 12 racèmes, en floraison, go vertes, go sèches, hétérophylie marquée. [TEX; 11-VIII-2008].

Plants of [Texas](#). Herbarium of Southern Methodist University. *Phaseolus*. Presidio Co., 8 mi NE Candelaria, growing on rather steep talus slope. [30°07'N. 104°42'W]. [Harry M Ohlendorf 748](#). 29 August 1967. /// Determinavit WR Ruff, not *Strophostyles*, August 1981. /// The University of Texas Herbarium. Determinavit *Phaseolus filiformis* Benth. Alfonso Delgado S., 1982. /// DGD: *filiformis*, 1 racème avec 1 go sèche, 1 racème avec 1 bouton floral, petite plante avec racine herbacée et 4 tiges moins de 15 cm chacune. [BRIT; 22-II-2002].

Plants of [Texas](#). *Phaseolus acutifolius*, det. BLT. Brewster Co.: Canyon ca. 0.9 air mi. NNE of Rosillo peak in major drainage of peak, North Rosillos Mountain Preserve. [29°32'N. 103°14'35"W]. Rocky (igneous) dry streambed. With *Quercus*, *Fraxinus*, *Diospyros*. Locally common vine. Corolla rose-pink. [Jackie Poole 2706](#). 21 May 1985. University of Texas at Austin. /// code barre University of Texas – Austin (LL, TEX) 00404066. /// The University of Texas Herbarium (LL, TEX). *Phaseolus filiformis* Benth., Alfonso Delgado Salinas, 11/2005. /// DGD: *filiformis*, 8 racèmes, en floraison, j go, go vertes en transition à go sèches, tiges au départ robustes et érectes et ensuite très volubiles dans parties terminales, hétérophylie, folioles dans parties terminales linéaires 2-4 mm large 20-40 mm long; pourrait aussi être *angustissimus*, en tous les cas un *Rugosi* pour la graine rugueuse. [TEX; 12-VIII-2008].

Lundell Herbarium. /// The University of Texas Herbarium. Plants of [Texas](#). *Phaseolus wrightii* Gray. Presidio Co.: in Charro Canyon. Low vine; flowers pale cream and tinged purplish. [A M Powell 2764](#). 19 June 1974. /// The University of Texas Herbarium. Systematic Revision of *Phaseolus*. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS, USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, May 25, 1988. /// Annotation ! Duane Isely 1993 (ISC). /// code barre University of Texas – Austin (LL, TEX) 00404083. /// DGD: *filiformis*, une plante entière avec racine fibreuse pivotante, 4 racèmes, en j go, go verte, go sèche. [LL; 11-VIII-2008].

US502911. /// United States National Museum. /// Plants of [Texas](#). *Phaseolus wrightii*. Vicinity of El Paso. Canyons of Mt. Franklin. [31° 49' 30"N. 106° 29'W]. No. 169. [Elmer Stearns](#), collector. 1911. /// United States National Herbarium. *P. filiformis* Benth., Oliver W. Norvell, 11/29/49 [29 novembre 1949; écrit au crayon noir par O.W. Norvell]. /// The University of Texas Herbarium. Systematics of *Phaseolus*. *Phaseolus filiformis* Benth., Alfonso Delgado S. 1985. /// Tropical Agriculture Research Station, ARS, USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 17 1988. /// DGD: *filiformis*, 9 racèmes, en floraison, jgo, go vertes, go sèches. [US; 1-IX-2009].

US1725311. /// United States National Museum. /// 651. *Phaseolus*. Near Bobbs Hut on Pinnacle Mt.. Yellowish-white flower. Chisos Mountain area. Brewster County, [Texas](#). July 22, 1937 [22 juillet 1937]. collected by [BH Warnock](#) [semble être l'étiquette originale]. /// Plants of western Texas. *Phaseolus wrightii* Gray. No. 651. Omer E Sperry, collector. /// United States National Herbarium. *P. filiformis* Benth., Oliver W. Norvell, 11/29/49 [29 novembre 1949; écrit au crayon noir par O.W. Norvell]. /// The University of Texas Herbarium. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1982. /// Tropical Agriculture Research Station, ARS, USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Oct 17 1988. /// DGD: *filiformis*, 3 racèmes, en jgo, go vertes, go sèche. [US; 1-IX-2009].

Lundell Herbarium. /// Texas Research Foundation, Renner Texas [cachet à l'encre noire]. /// Plants of [Texas](#). Brewster. *Phaseolus acutifolius* A. Gray. Infrequent vine with pale pink flower; along highway 5 miles west of Study Butte; limestone soil. [29°19'15"N. 103°36'55"W]. Alt. 2200 [670 m]. [Barton H Warnock](#). N°. 13179. Date August 25, 1955. /// Treated in 1967 with lauryl pentachlorophenate ! /// Manual of the Vascular Plants of Texas. *Phaseolus wrightii* Gray, determined by Marshall C. Johnston. /// The University of Texas Herbarium. Systematic Revision of *Phaseolus*. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS, USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, May 25, 1988. /// Annotation ! Duane Isely 1993 (ISC). /// code barre University of Texas – Austin (LL, TEX) 00404086. /// DGD: *filiformis*, 4 racèmes, en floraison, j go, j go en transition à go vertes, go verte, go sèche. [LL; 12-VIII-2008].

Sul Ross State College Herbarium No. Cancelled. [cachet à l'encre noire]. /// Herbarium of Sul Ross State College. Plants of Presidio County, [Texas](#). 128-D. Alt. 2360 feet [720 m]. *Cologania*. Flowers purplish. Spare perennial; limestone soil; Panther Canyon near Big Hill, near Rio Grande. [29°19'15"N. 103°58'25"W]. October 1, 1961. 18199. [Barton H Warnock](#). /// *Phaseolus wrightii* Gray, R. Manshardt, 6 Oct. '82 [1982]. /// code barre University of Texas – Austin (LL, TEX) 00404087. /// The University of Texas Herbarium (LL, TEX). *Phaseolus filiformis* Benth., det. B L Turner, 29 Dec 1998. /// DGD: *filiformis*, 6 racèmes, en floraison, j go en transition à go vertes, go verte. [TEX; 11-VIII-2008].

University of Michigan – Herbarium [cachet en relief]. /// Herbarium of the University of Texas. No. [blanc]. *Phaseolus wrightii* A. Gray. [[Texas](#)]. Locality El Paso, Franklin Mts. [31° 49' 30"N. 106° 29'W]. Date 10/ 18/ 32 [18 octobre 1932]. Collected by [Eula Whitehouse](#). /// The University of Texas Herbarium. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1983. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, Jan 28 1988. /// DGD: *filiformis*, 4 racèmes, en floraison, j go, go verte, go sèches, folioles moyennes, lobées. [MICH; 17-IX-2007].

79148. /// Herbarium of the University of Texas. No. [blanc]. *Phaseolus wrightii* A. Gray. Locality El Paso – Franklin Mts. [[Texas](#)]. [31° 49' 30"N. 106° 29'W]. Date 10.18.32 [18 octobre 1932]. Collected by [Eula Whitehouse](#). /// The University of Texas Herbarium. Systematic Revision of *Phaseolus*. *Phaseolus filiformis* Benth., Alfonso Delgado S., 1985. /// Tropical Agriculture Research Station, ARS, USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F. Freytag, May 25, 1988. /// code barre University of Texas – Austin (LL, TEX) 00040243. /// Annotation ! Duane Isely 1993 (ISC). /// DGD: *filiformis*, une plante entière avec racine pivotante herbacée, 5 racèmes, en floraison, go vertes, go sèches,

graines petites rugueuses typiques, quelques lobes des folioles un peu 'squarish' comme chez *grayanus*. [TEX; 11-VIII-2008].

Texas, USA. *Phaseolus wrightii* Gray. Leguminosae. El Paso Co.: Franklin Mts., 0.7 air mi SE from the top of North Franklin Mountain. 31° 53' 47"N. 106° 29' 20" W. 5400 ft [1,645 m] elev.; growing from rock talus in canyon bottom. November 6, 1982 [6 novembre 1982]. [RD Worthington 9164](#). ex Herb. UTEP. /// DGD: *filiformis*, 4 racèmes, 2 plantes, de hauteur inférieure à 20 cm, go vertes, base de la tige herbacée. [NY; 12-VI-2003].

UCR28842. /// **Texas**, U.S.A. *Phaseolus wrightii* Gray. Leguminosae. El Paso Co.: Franklin Mts., 0.7 air mi SE from the top of North Franklin Mountain. (31° 53' 47"N. 106° 29' 20" W). 5400 ft. elev.; growing from rock talus in canyon bottom. November 6, 1982. [RD Worthington 9164](#). ex Herb. UTEP. /// Specimen data entered into **UCR** database. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F Freytag, Apr 6 1992. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 10 racèmes, en jgo, go vertes, 4 plantes en rosette avec racine herbacée pivotante, forte hétérophylie. [UCR; 19-VIII-2014].

Texas, USA. *Phaseolus wrightii* Gray, Leguminosae. El Paso Co., Franklin Mts, 1.2 air mi. W jct Trans-Mountain Rd. with Gateway South. 31° 53' 48"N - 106° 27' 32"W. 4800 ft. [1,460 m] elev.. Base of granite boulders. Nov. 20, 1982 [20 novembre 1982]. [RD Worthington 9224](#). /// Ex Herb. UTEP [DGD: le numéro 12055 a été imprimé sur la planche]. /// DGD: *filiformis*, en go vertes- go sèches, les graines de type rugueux ne laissent aucun doute. [BRIT; 23-II-2002].

Texas, USA. *Phaseolus wrightii* Gray. Leguminosae. El Paso Co.: Franklin Mts, 1.2 air mi W jct. Transmountain Rd. with Gateway South (31° 53' 48"N - 106° 27' 32"W). 4800 ft. elev. Base of granite boulders. Nov. 20, 1982. [RD Worthington 9224](#). ex Herb. UTEP. /// Annotation *Phaseolus filiformis* Benth., Duane Isely, 1995 (ISC). /// DGD: *filiformis*, en go vertes, go sèches, 7 racèmes, folioles lobées. [NY; 10-VI-2003].

UCR28877. /// **Texas**, U.S.A. *Phaseolus wrightii* Gray, Leguminosae. El Paso Co.: Franklin Mts., 1.2 air mi. W jct. Trans-Mountain Rd. with Gateway South. (31° 53' 48"N - 106° 27' 32"W). 4800 ft. elev.. base of granite boulders. November 20, 1982. [RD Worthington 9224](#). Ex Herb. UTEP. /// Specimen data entered into **UCR** database. /// Tropical Agriculture Research Station, ARS-USDA, Mayagüez, Puerto Rico 00708. *Phaseolus filiformis* Benth., det. George F Freytag, Apr 6 1992. Annotated at Colorado State University Herbarium. /// DGD: *filiformis*, 6 racèmes, en jgo, go verte, go sèches. [UCR; 19-VIII-2014].

Herb. Lugd. Bat. N°. 989.284 344. /// 501280 [cachet à l'encre noire]. /// **Texas**, U.S.A. *Phaseolus filiformis* Benth. (= *P. wrightii*) Leguminosae. EL PASO CO.: Franklin Mts., canyon and west slope of the Franklin Mts. 0.2-0.3 mi E of the jct. of Stanton and Mesa hills, 4800 ft. elev. [1,460 m], [31°54'N. 106°29'40"W], limestone substrate, annual. July 30, 1986. [R D Worthington 14441](#). Ex Herb. UTEP. /// DGD: *filiformis*, 5 racèmes, en floraison, go vertes; une carte des 'Franklin Mts.' indique par une flèche et un point rouges le site de collecte au SW de la chaîne montagneuse, folioles moyennes 44 x 38 mm lobées avec variéation le long de la nervure centrale. [L; 15-X-2007].

D.G. Debouck; actualisé le 7 mars 2018.