

Aflatoxins in dairy cattle feed in Senegal



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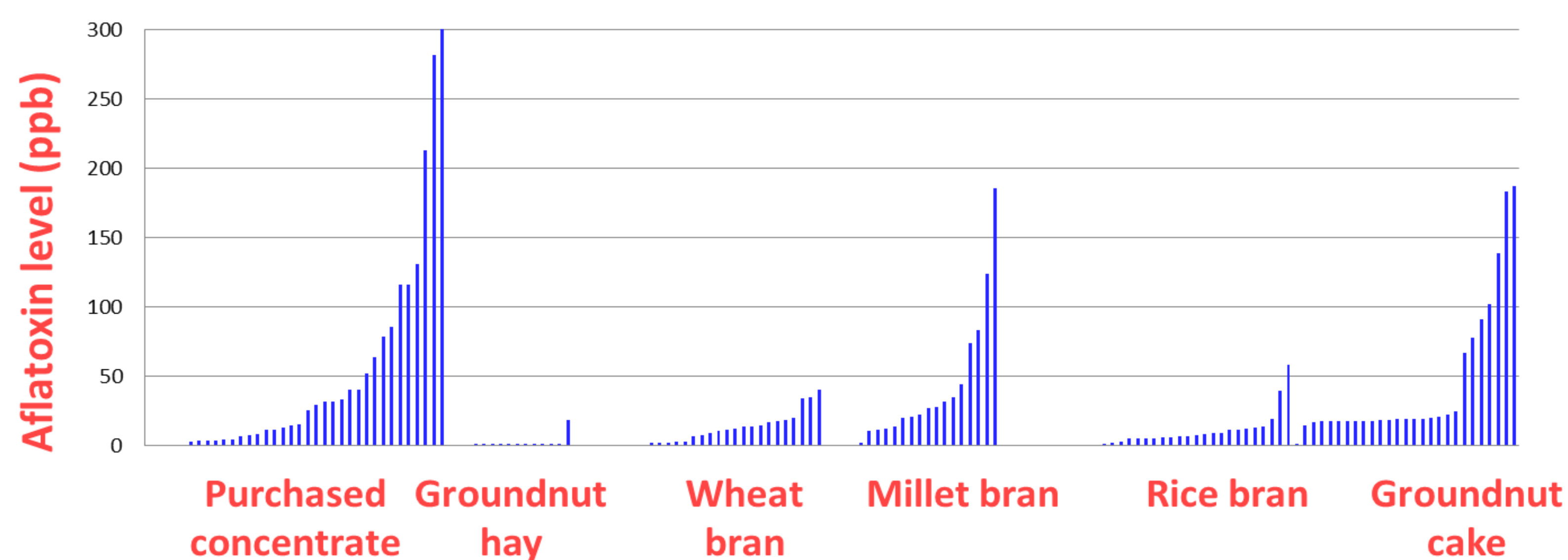
Aflatoxins and milk

- Aflatoxins are toxic compounds produced by certain moulds that grow on crops – they are a major food safety concern particularly in developing countries
- If lactating cows ingest aflatoxins through contaminated feed, they can excrete aflatoxin metabolites in their milk
- Human consumption of aflatoxins – including in contaminated cereals and milk - can lead to liver cancer and may increase the risk of childhood stunting



Aflatoxins levels in Senegal dairy cattle feed

- In this pilot work we measured aflatoxin BI levels in dairy cattle feeds sampled from smallholder farms in Senegal. Aflatoxin levels in individual samples of a feed-type varied, but tended to be higher for particular feeds (see graph)



- The percentage of feed samples that were above the WHO recommended limit for aflatoxin in animal feed (of 5ppb) was high in commonly used feeds, for example 96% for ground-nut cake, 80% for millet bran, and 69% for concentrate.

Implications

- Some feed samples had aflatoxin levels high enough to potentially affect milk safety and livestock productivity, indicating the need to further monitor both feeds and milk



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