



State of readiness for planting season & impact of Fall Armyworm (*FAW*)

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Grain SA

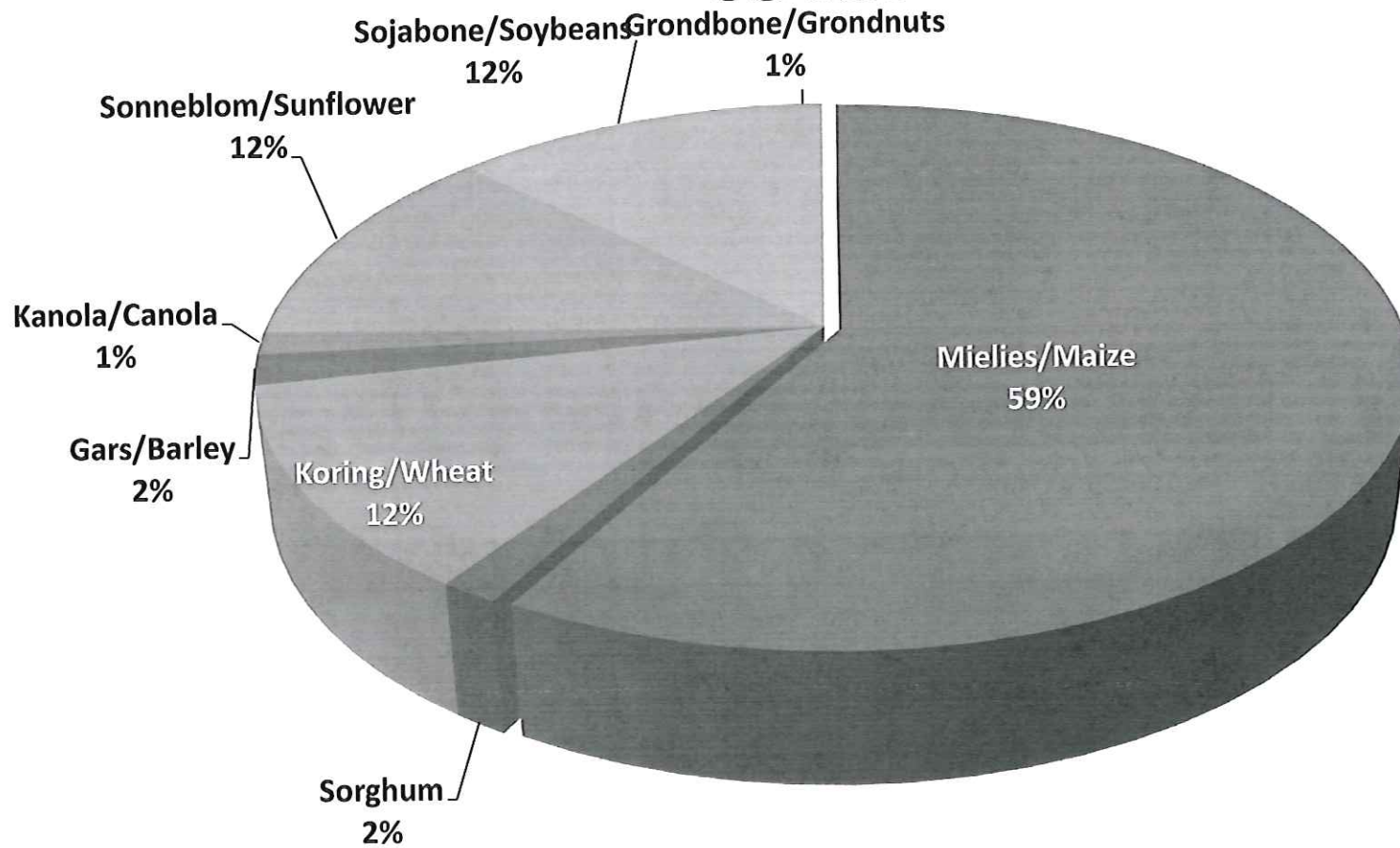
Portfolio Committee

24 October 2017

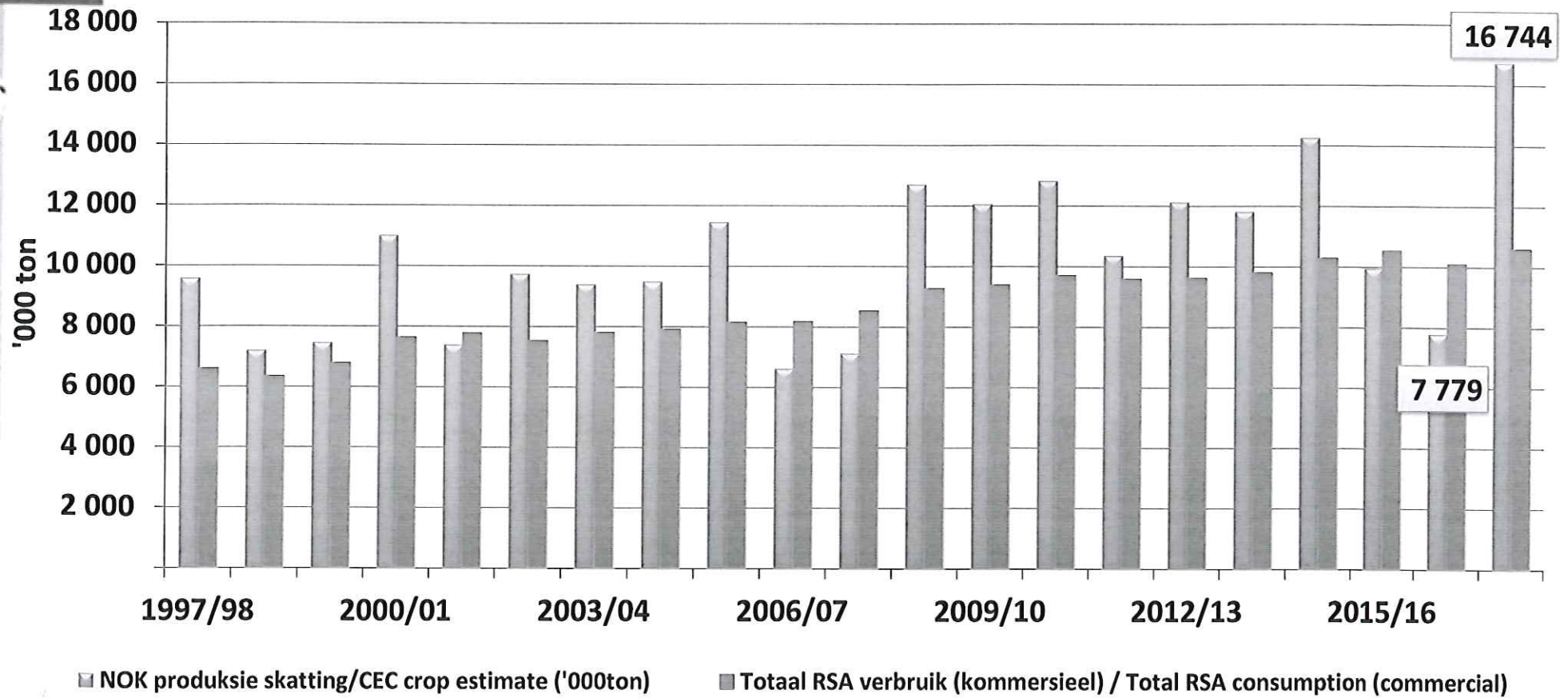




Hectares: % Contribution of crop to total



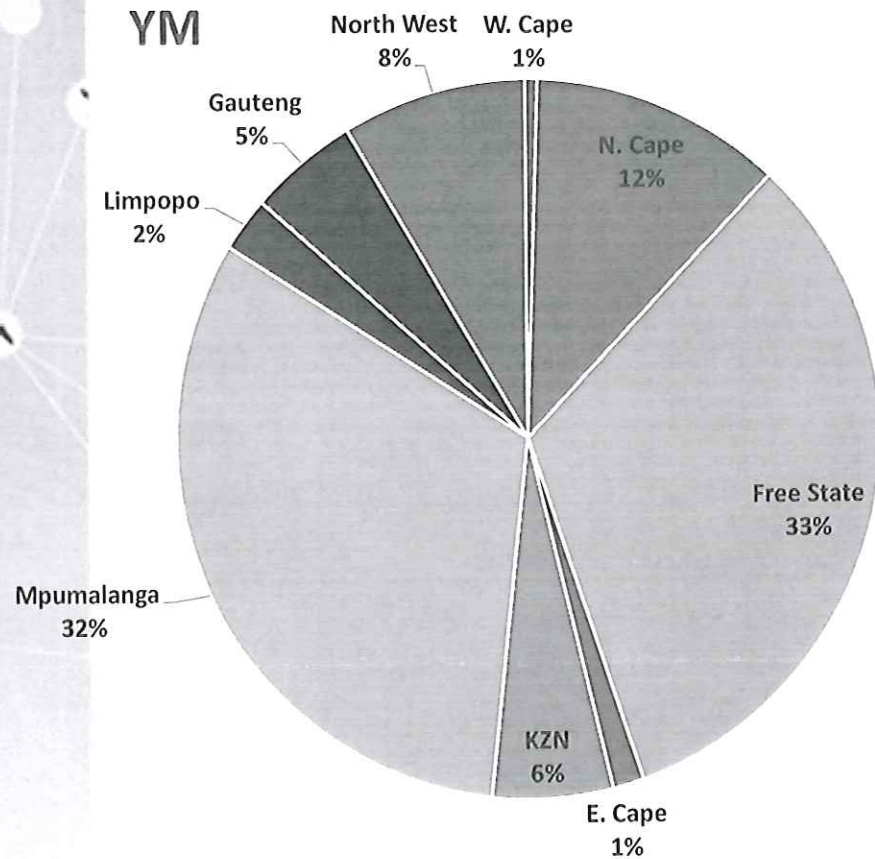
Total Maize: Production vs Consumption



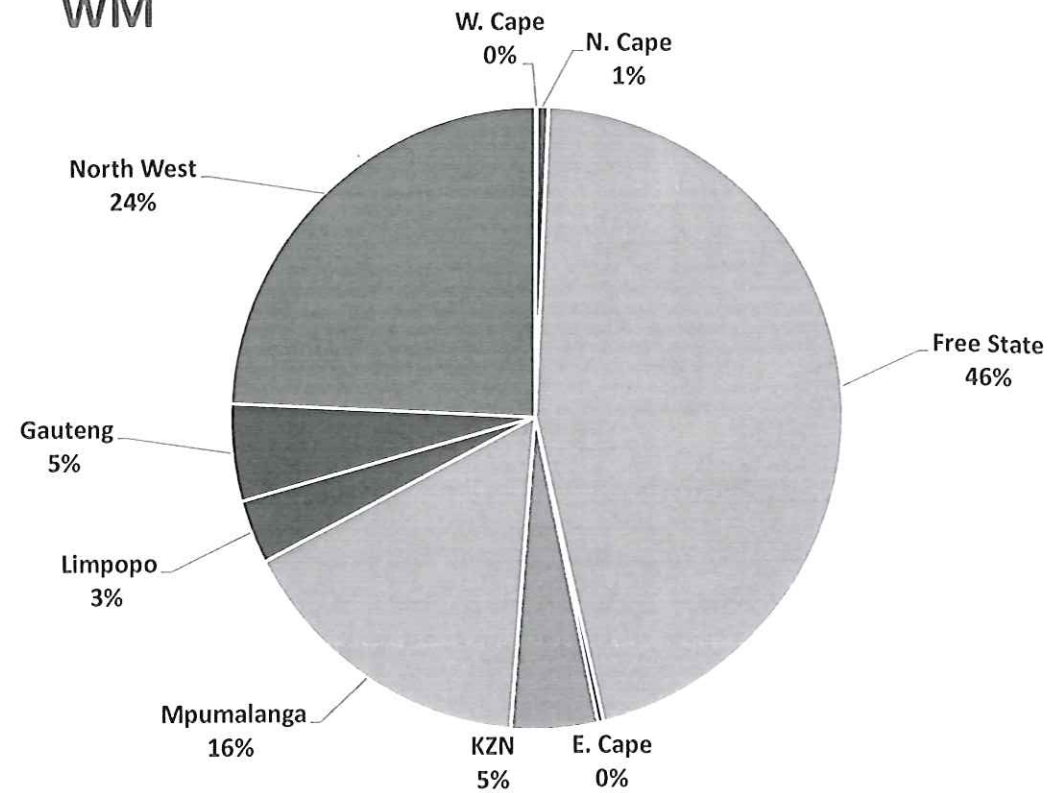


Maize: % Contribution of production (5 year average)

YM

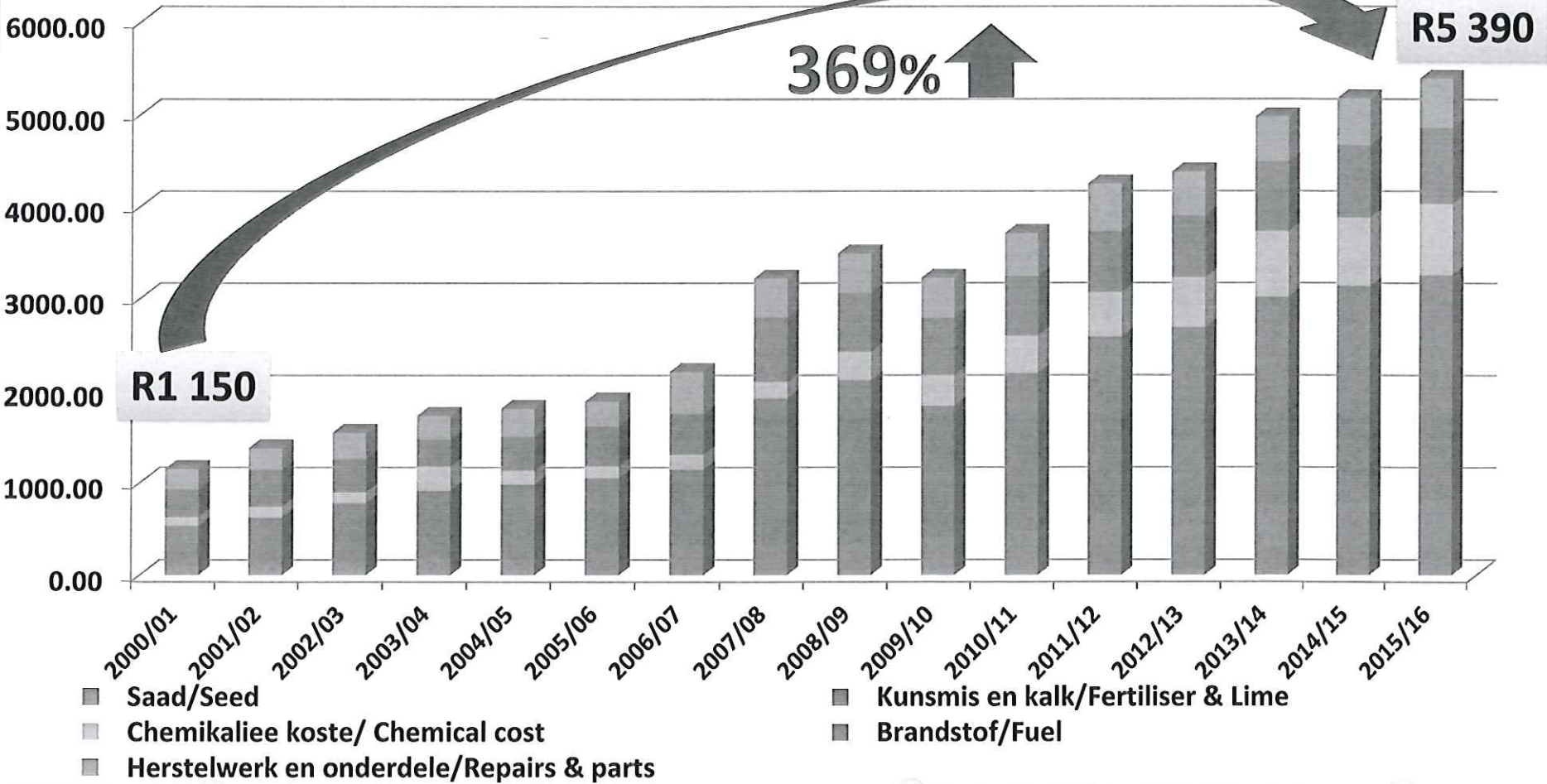


WM





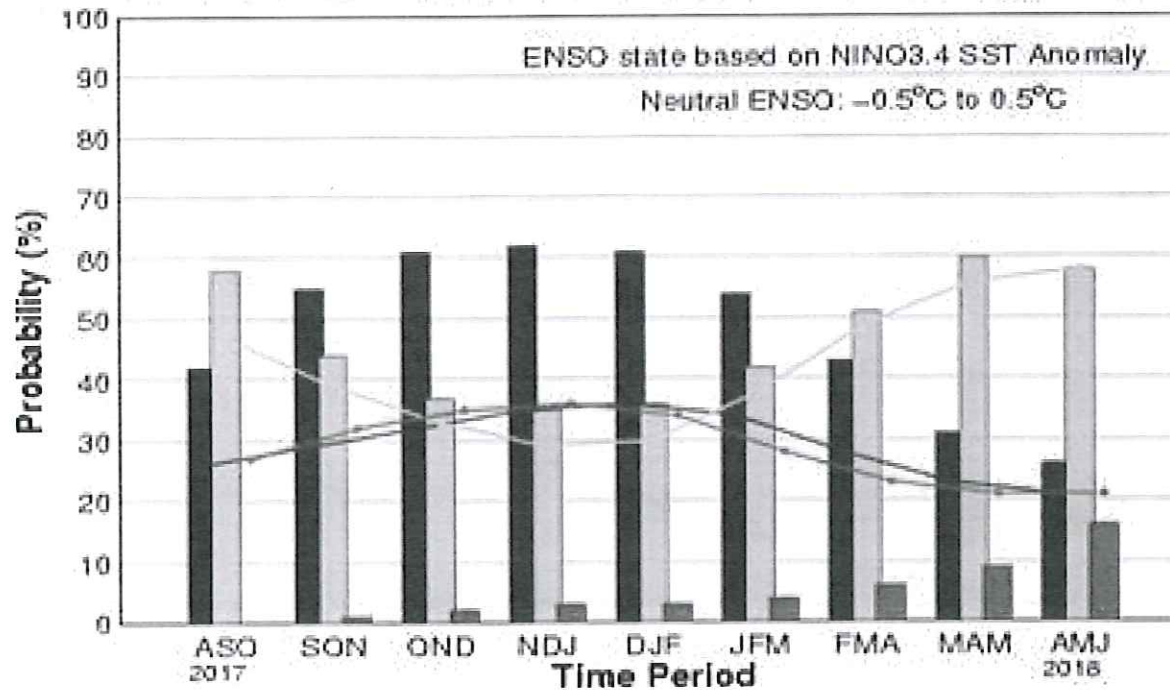
Input cost increases





Weather forecasting

Early-Sep CPC/IRI Official Probabilistic ENSO Forecast



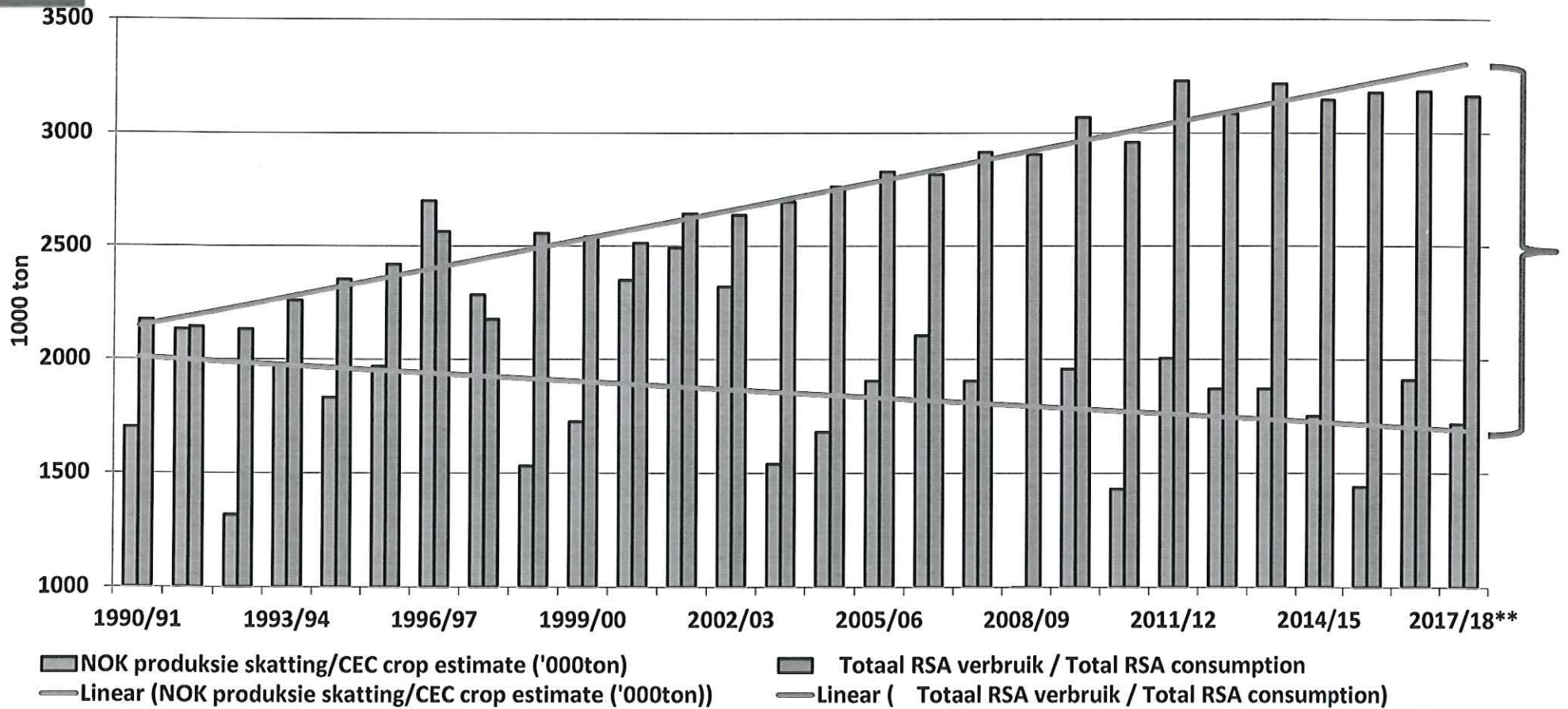
El Niño (red)
La Niña (blue)
Neutral (green)

Neutral conditions or (weak) La Niña conditions are favoured over El Niño for the rest of 2017

Source: Image credit: IRI-CPC



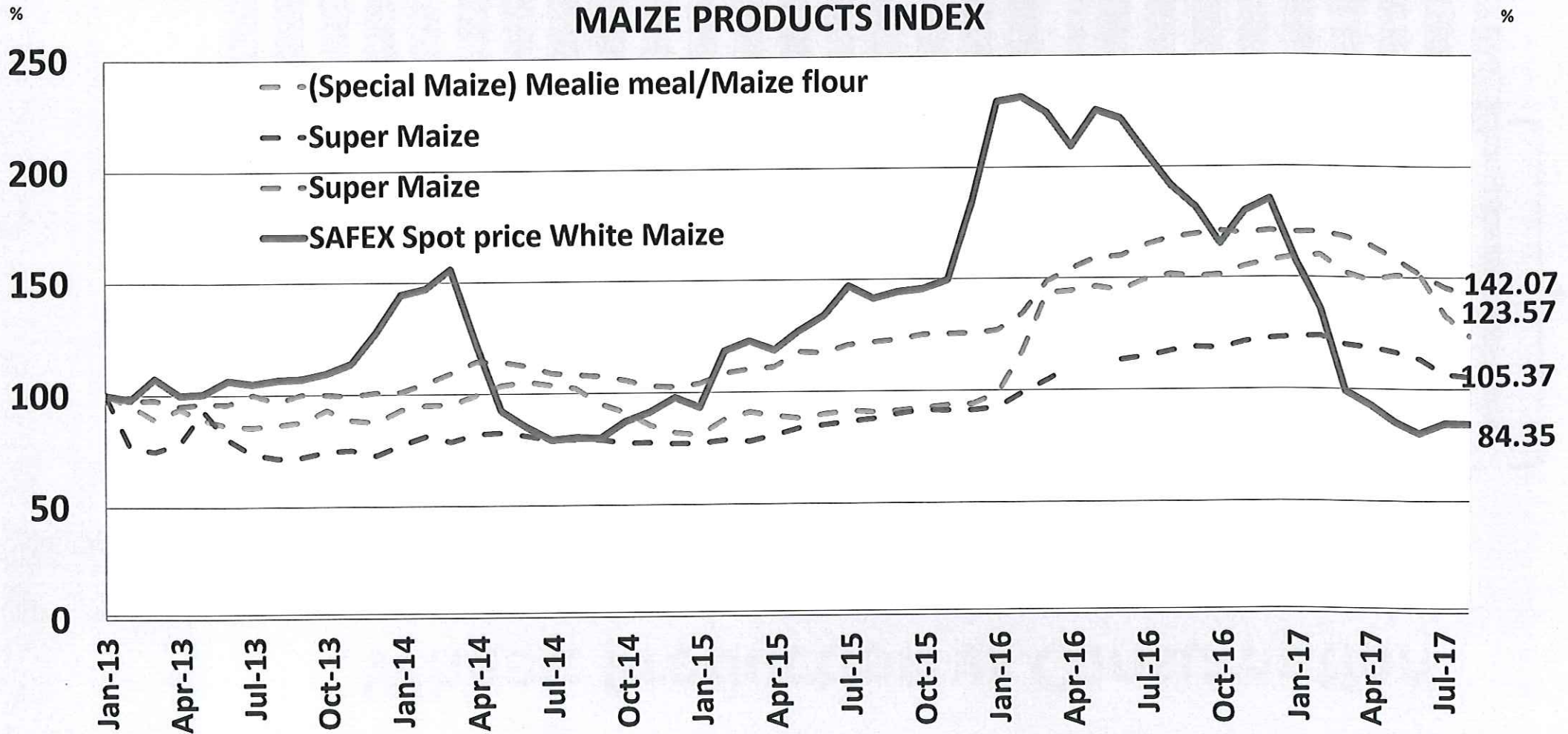
Wheat: Production vs Consumption





Food Prices: Maize

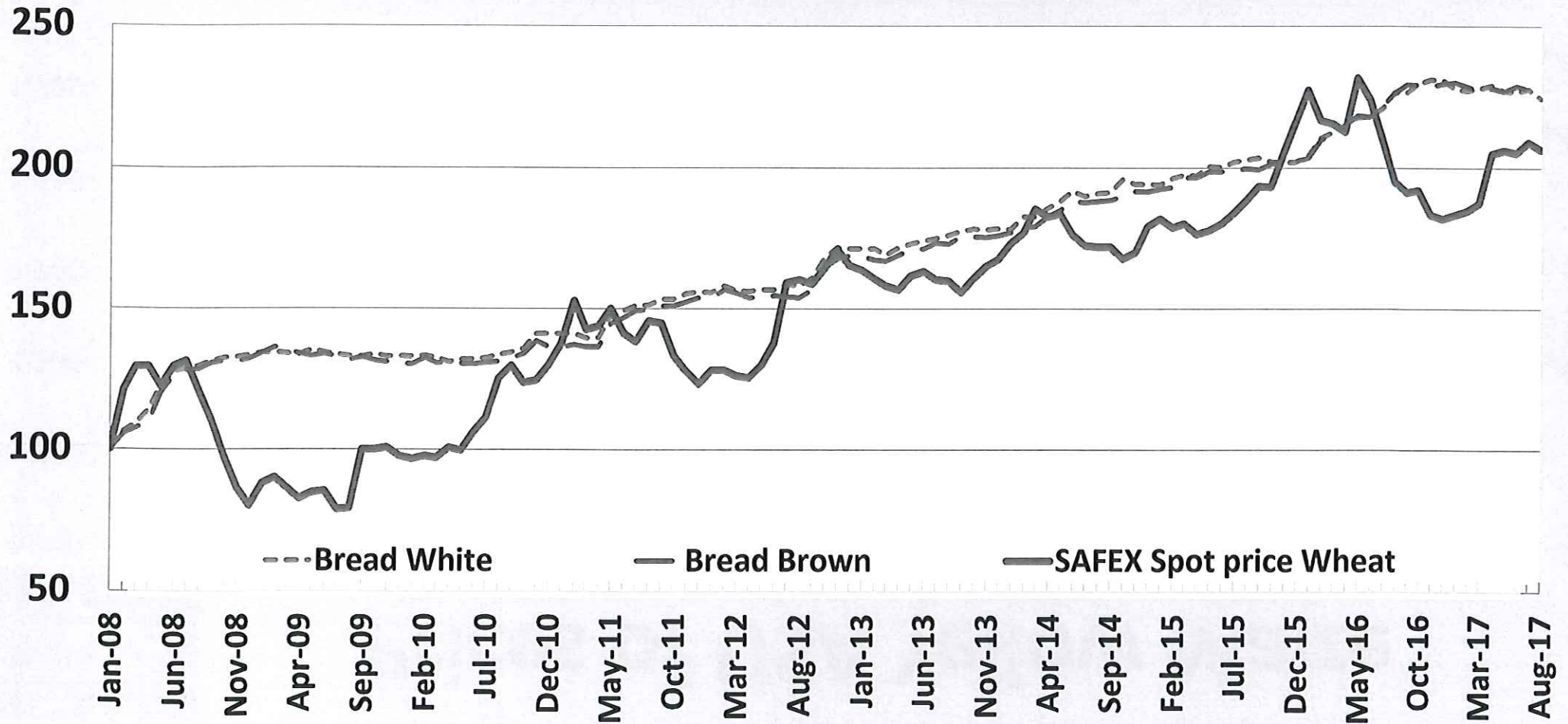
MAIZE PRODUCTS INDEX





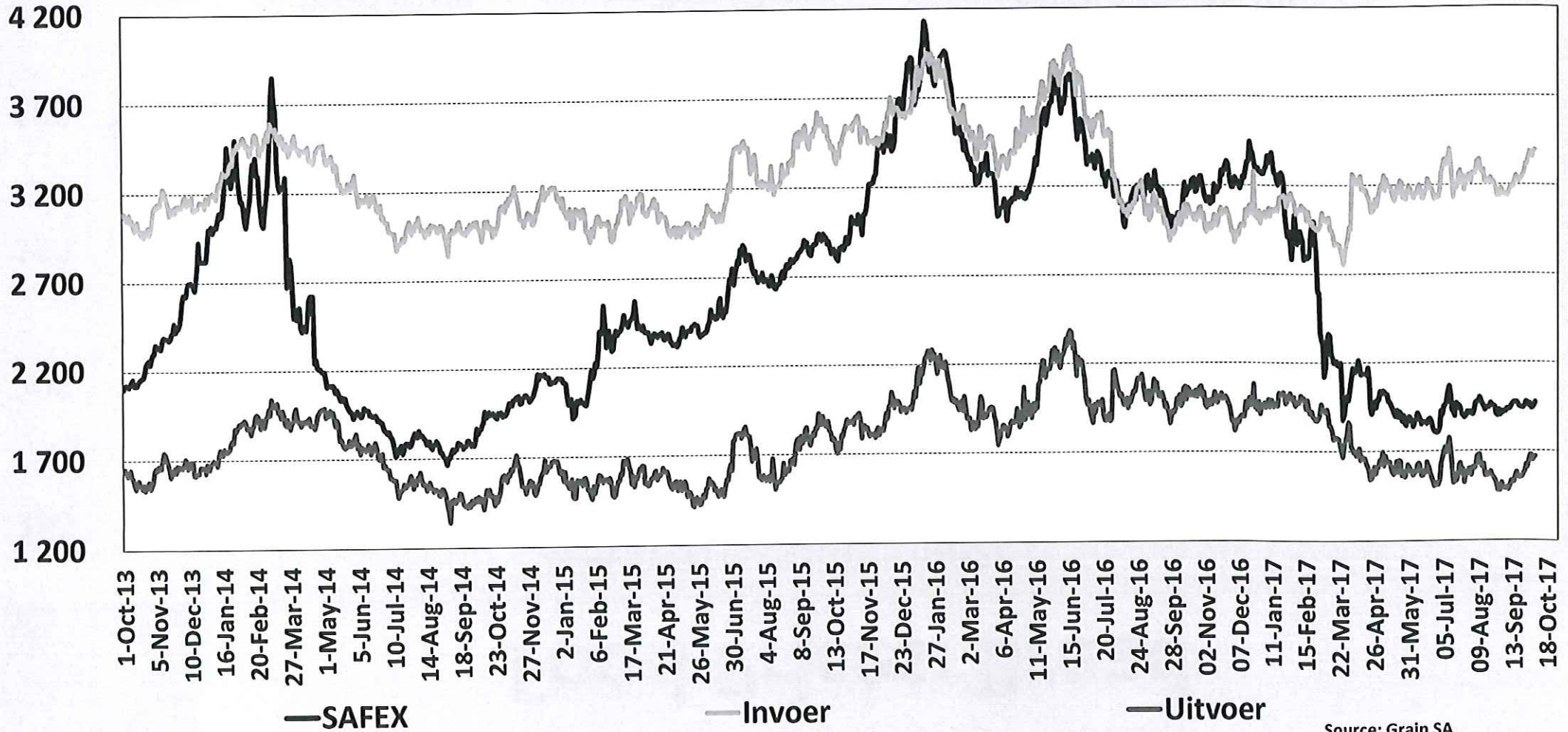
Food Prices: Bread

WHEATEN PRODUCTS INDEX

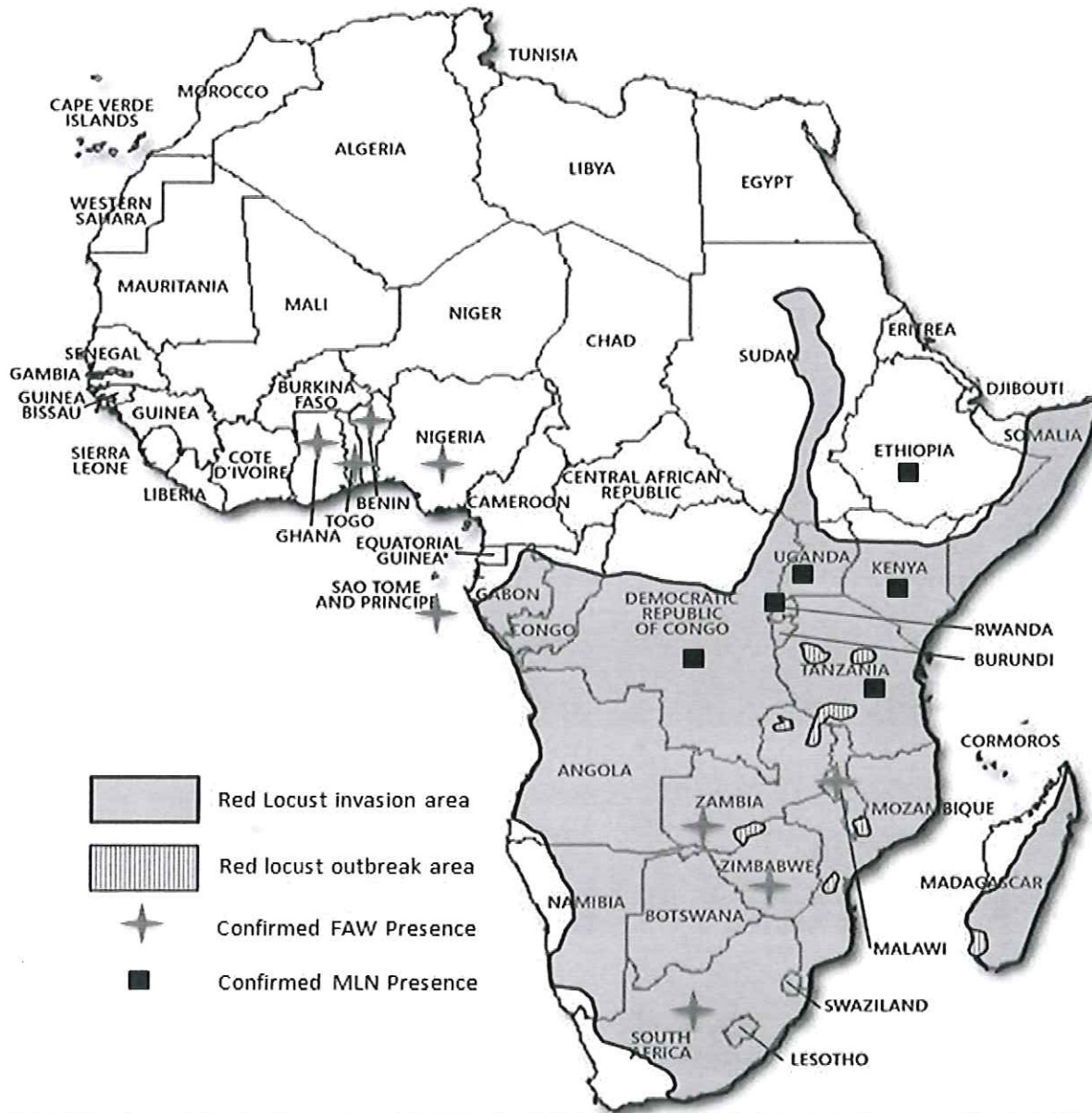




Prices of USA Yellow Maize



Source: Grain SA



- Red Locust invasion area
- Red locust outbreak area
- Confirmed FAW Presence
- Confirmed MLN Presence

Crop Biosecurity concerns

- Maize Lethal Necrosis (MLN)
- Fall armyworm (FAW)
- Red locusts etc.
- * due to global Climate Change ?



Spodoptera frugiperda Fall Armyworm (FAW)

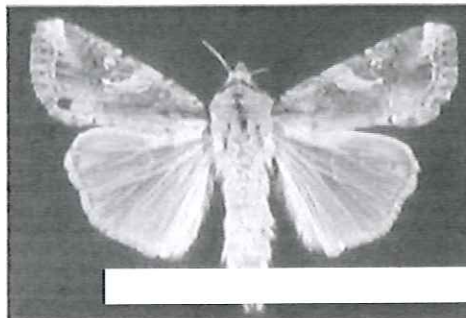


Figure 5. Typical adult male fall armyworm, *Spodoptera frugiperda* (J.E. Smith).
Photograph by John L. Capinera, University of Florida.

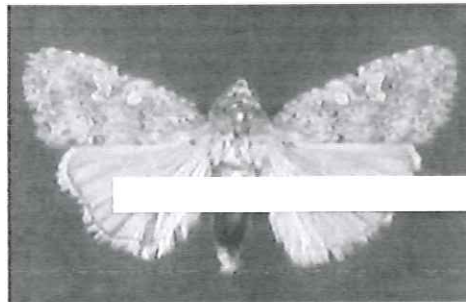
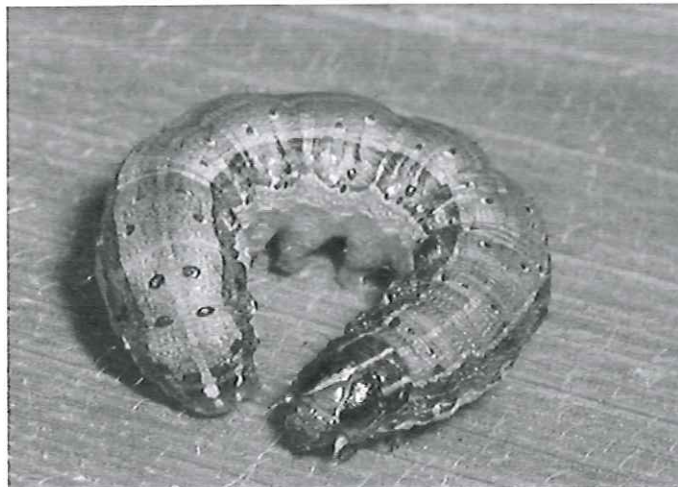


Figure 6. Typical adult female fall armyworm, *Spodoptera frugiperda* (J.E. Smith).
Photograph by John L. Capinera, University of Florida.



Compiled by: JH Venter
October 2017



Latest global outbreaks host and damage

- **Kansas USA on wheat, 20 Oct 2017 - “We have been hearing about and seeing a mixture of both armyworms and fall armyworms on wheat and other host plants this fall”**
- **https://webapp.agron.ksu.edu/agr_social/eu_article.throck?article_id=1577**
- **Iowa USA on cereal rye, triticale and wheat cover crops , 16 October 2017- “In Iowa, fall armyworms can be pests in corn, hayfields and pastures, but this is the first time that I’ve seen them as a pest in cover crops”**
- **<https://crops.extension.iastate.edu/blog/rebecca-vittetoe/fall-armyworm-feeding-noted-cover-crops-sesc-iowa>**
- **Oklahoma USA on bermuda and fescue grasses 25 August 2017. – “I am beginning to get reports of fall armyworm caterpillars “loitering around” in bermudagrass and fescue pastures and roadside ditches. As wheat planting begins, producers should check fields regularly after seedling emergence”.**
 - **<http://agfax.com/2017/08/25/oklahoma-wheat-fall-armyworm-notice-after-planting-watch-your-fields/>**
 - **Pest categorisation *Spodoptera frugiperda*: EFSA:**
 - **<http://onlinelibrary.wiley.com/doi/10.2903/j.efsa.2017.4927/pdf>**
- **<http://www.landbou.com/nuus/kommandowurms-mars-alweer-in-namibie/>**

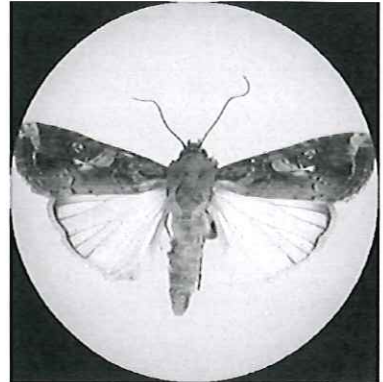
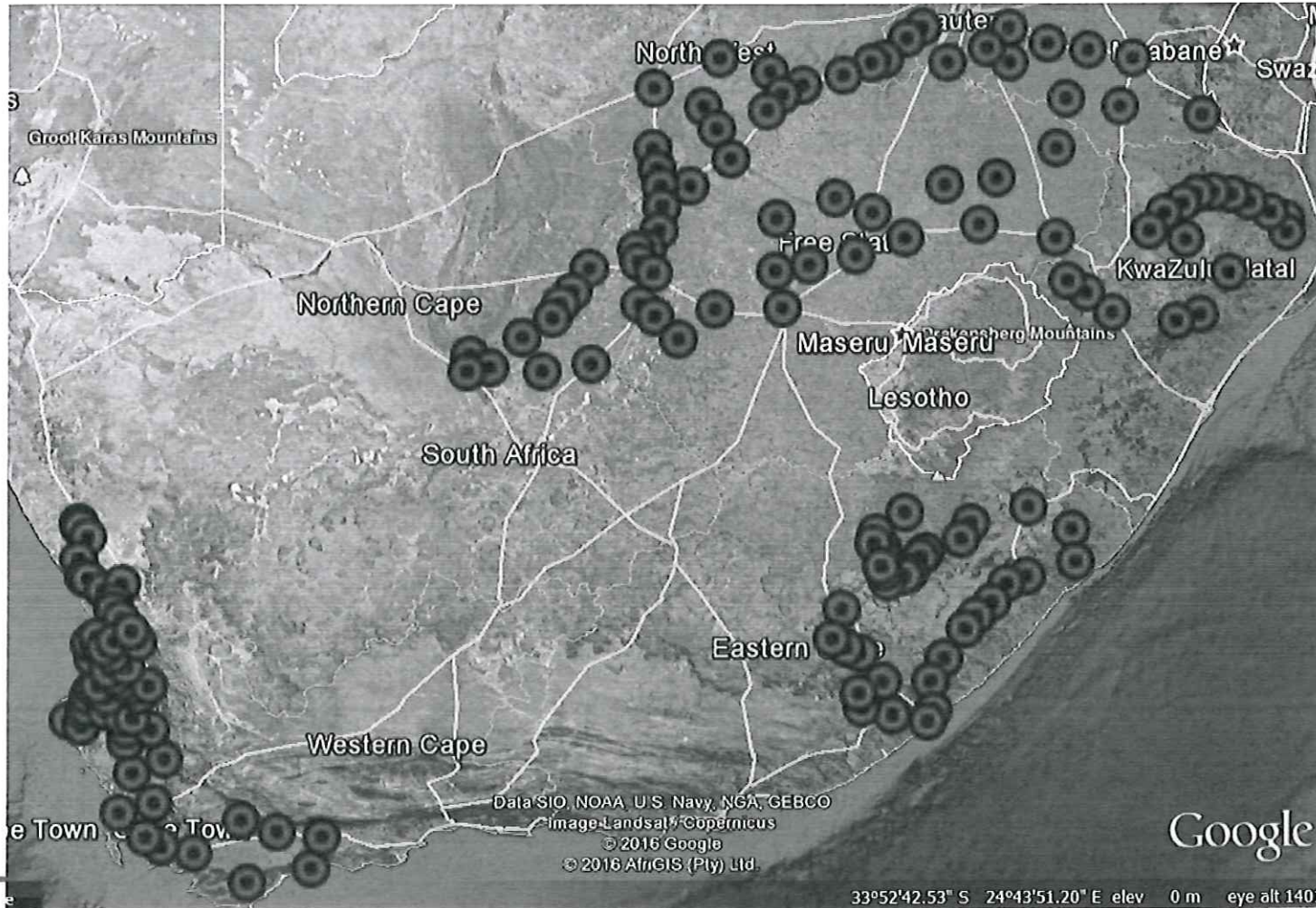


Plant Pest Surveillance

- **Industry/government surveillance program FAW Steering committee participation**
 - Grain SA, SANSOR & DAFF
 - Provinces to make contributions to national surveillance
- **Maize Trust (MT) funded research: Conducted by ARC & NWU**
- **Diagnostic capacity**
- **Damage assessment (DAFF)**
- **Integrated Pest management**
 - **GMO tolerance- research ongoing still to be established – regulator to use**
- **Partnerships & support collaborative projects &, policy research**
- **Early Warning System (EWS) - Pest monitoring on farms & Crop Imaging**



Fall armyworm (*FAW*) surveillance





Conclusion

Grain value chain to form working group with DAFF

Information sharing

Updating PRA's for grains

Dedicated grains biosecurity focus within DAFF is crucial

Pest surveillance

Regulatory Plan and Initiatives

Conclusion



Updating regulations to reduce burden on industry

Provide national leadership and coordination

Biggest risk -lack of regional cooperation & information sharing

Other African countries never officially reported presence of FAW on official IPPC portal

Reporting within SADC also problematic

South Africa is now the SADC chair

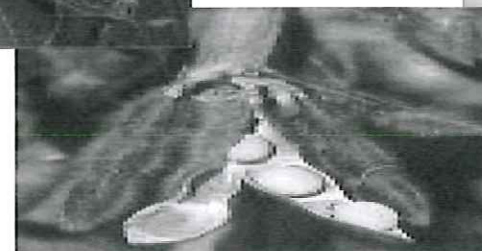


Thank You

Dankie

Enkosi

Re a Leboga



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