National Outcome Forecast Assessment





# The NOFA: Why do it?

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Presently, South Africa is experiencing the worst drought since 1992

- Concurrently, the Rand is weak and the country needs to import food
- Prices of food are rising fast

Clearly, this is enough justification!

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It is the next step after the baselines are completed

- But this is a National Outcome & Forecast Assessment
- It is a synthesis indicative analysis, we do not have all the primary information we need, we will rely instead on secondary sources

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- An attempt to peer into a possible future ...
- ... but not too far! The coming "Consumption Year": April '16 to March '17)
- To understand how poorer people's livelihoods could change given prevailing conditions

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#### **Building scenarios:**

- Using what we know and making stated assumptions about what we don't know ...
- ... we determine the outcome

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This is not the final say!

- Our model only gives a possible outcome for a given set of conditions
- Our assumptions will need to be tested and monitored
- If reality is different, the model must be re-calibrated

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#### Why it is useful:

- We can still plan ahead devise solutions before adverse outcomes occur
- We will also know the critical variables – the ones with the most impact – and these need to be watch more closely

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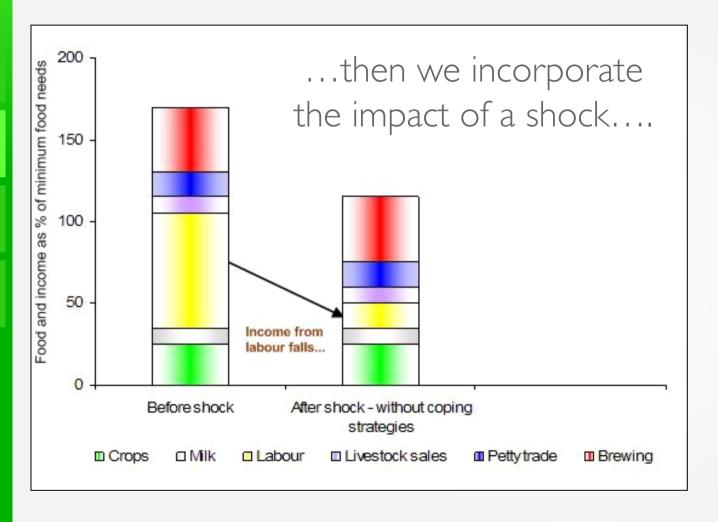
=8,800 kJ/p/d

= 12,848,000 kJ for a hh of 4 for a year

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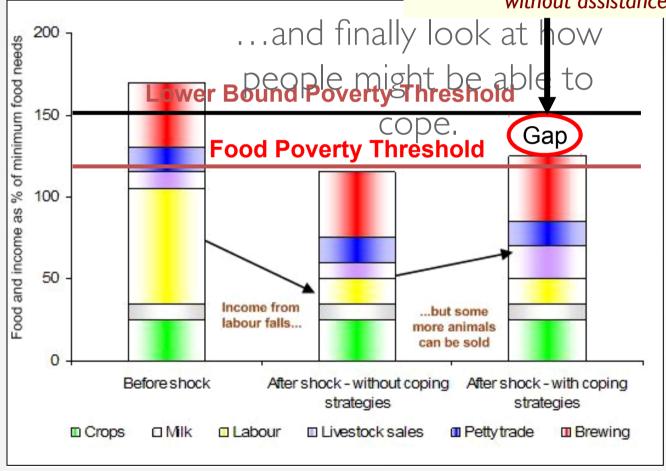


e.g. this analysis suggests that postshock, households will not be able to maintain themselves above the LBPL without assistance.

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Two issues to deal with

- 1) Lack of Baselines (no disrespect to the hard work of my colleagues!)
- 2) Compiling credible problem specifications to define the hazard component entirely from secondary sources

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First Big Issue:

Baselines not yet completed.

Divide into three categories:

- 1) Rural LZs with open access (traditional) tenure systems
- 2) Rural LZs with commercial farm land
- 3) Urban areas

It's about POOR People!

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Rural Open Access Zones with Open Access or Traditional Tenure:

- 1) We have baselines in 14 livelihood zones:
- 2) Some livestock-oriented, some mixed cropping and livestock, some more cropping.

Rural Open Access Zones with Open Access or Traditional Tenure:

In all LZs we see the poor depend:

- 1) Largely on social grants (pensions & child grants)
- 2) Some casual labour (for cash usually, occasionally for food)
- 3) A tiny bit of cropping
- 4) Sometimes, a few livestock
- 5) Kinship links

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Rural Open Access Zones with Open Access or Traditional Tenure:

- 1) We are constructing some "typical" livestock, mixed crop and livestock and crop-based baselines to cover the remaining Livelihood zones.
- 2) The sources of livelihood are being adjusted to these types of LZs.
- 3) We are going to analyse the 'poor' and the 'very poor' ONLY

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Rural Zones with Commercial Farming:

- 1) Focusing on farm workers (full time) Seasonal Workers and Casual workers
- 2) Their welfare is linked to the performance of the sectors

Rural Zones with Commercial Farming:

One approach:

- 1) Based on BFAP data, labour pay and labour requirements per Ha for ten most significant industries
- 2) Estimates of hectarage of each of those industries and, therefore,
- 3) Estimates of work opportunities

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Rural Zones with Commercial Farming:

One approach:

- 4) Labour rates are available (BFAP)
- 5) Required: estimates of dependents per workers (for household composition)
- 6) Required: with seasonal work, comparison of seasonal employment vs full-time

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Rural Zones with Commercial Farming:

One approach:

- 7) Two 'typical' households: A full time worker and a casual worker
- 8) Other components of livelihood can be included:

Social grants, loans, kinship, expenses

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Urban Areas:

One approach:

- 1) 'Typical' households: unemployed, employed (casual work)
- 2) Data from Stats SA, NIDS surveys
- 3) Livelihood components:

social grants, labour, petty business, kinship, loans, expenses

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Second Big Issue:

Drafting credible problem specs

Main variables being studied:

- 1) Drought vs non-drought affected areas & impact of drought on crops, livestock
- 2) Price projections
- 3) Work opportunities, social grants policy, kinship links

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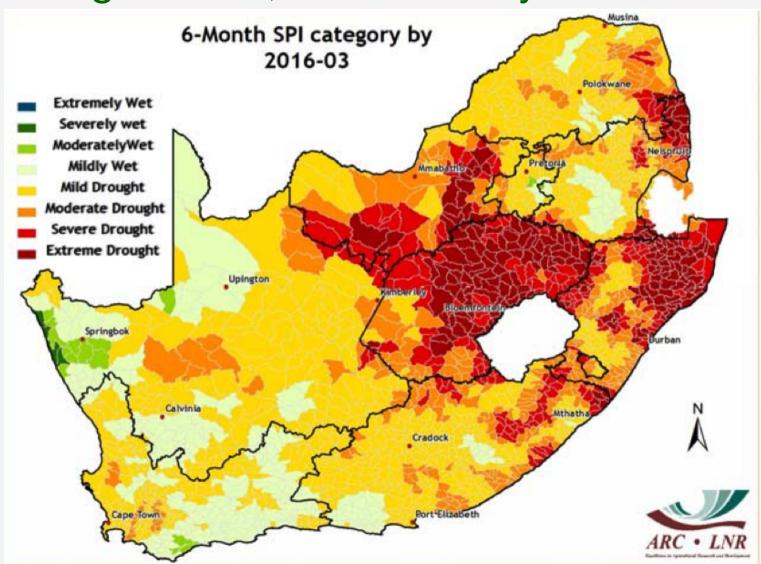
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Drought areas, SPI – overlay onto LZs

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#### Prices:

Data from NAMC, BFAP, Stats SA:

- 1) 'Forward' models for key commodities -> use for scenario assumptions (BFAP, NAMC)
- 2) Influence of the exchange rate on other commodities (esp. imported)

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#### Social grants:

Future payments --> DSD policy

1) Rate does not change, tracks inflation, tracks food prices

#### Casual work:

Pay rate & work available

2) Scenario

Putting it all together

This is, fortunately, a numbercrunching exercise – Thanks to Mr Postgres

- 1) Analysis spread sheets
- 2) Outcomes at Hh level to Postgres table
- 3) Query linking outcomes with populations.

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Thank you / Siyabonga / Ke a Leboga / Dankie

## Acknowledgements

DAFF (Crop Estimates Committee)

**NAMC** 

**BFAP** 

Statistics SA

ARC (Inst. for Soil, Climate & Water)

**SA Weather Service** 

# Discussion Points

What should we do?

Comments?

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