


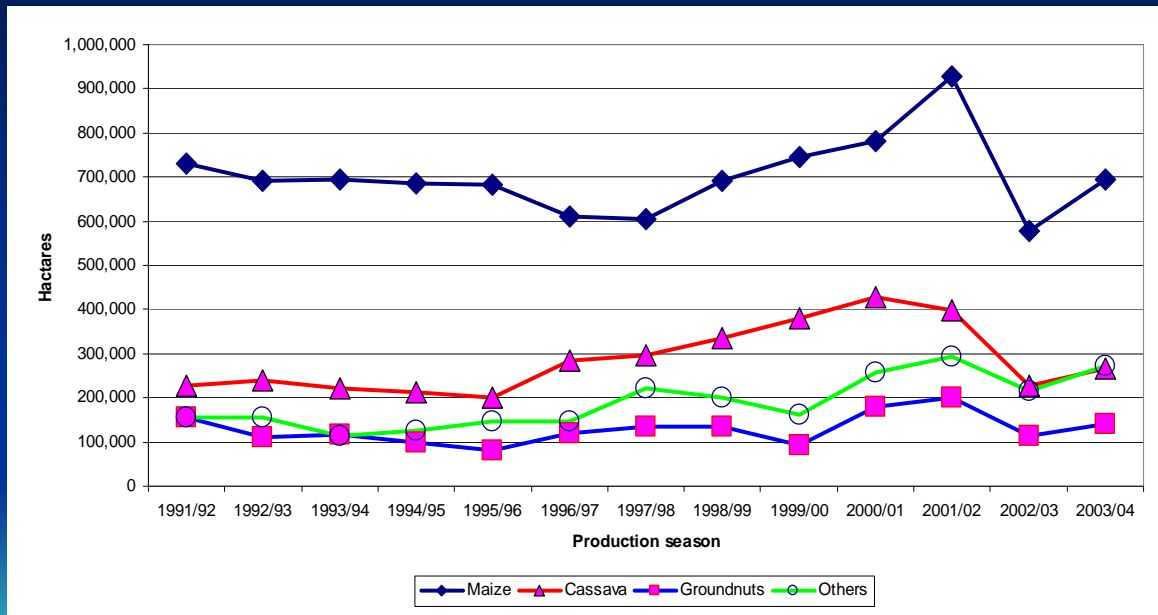
TRENDS IN SMALLHOLDER AGRICULTURE



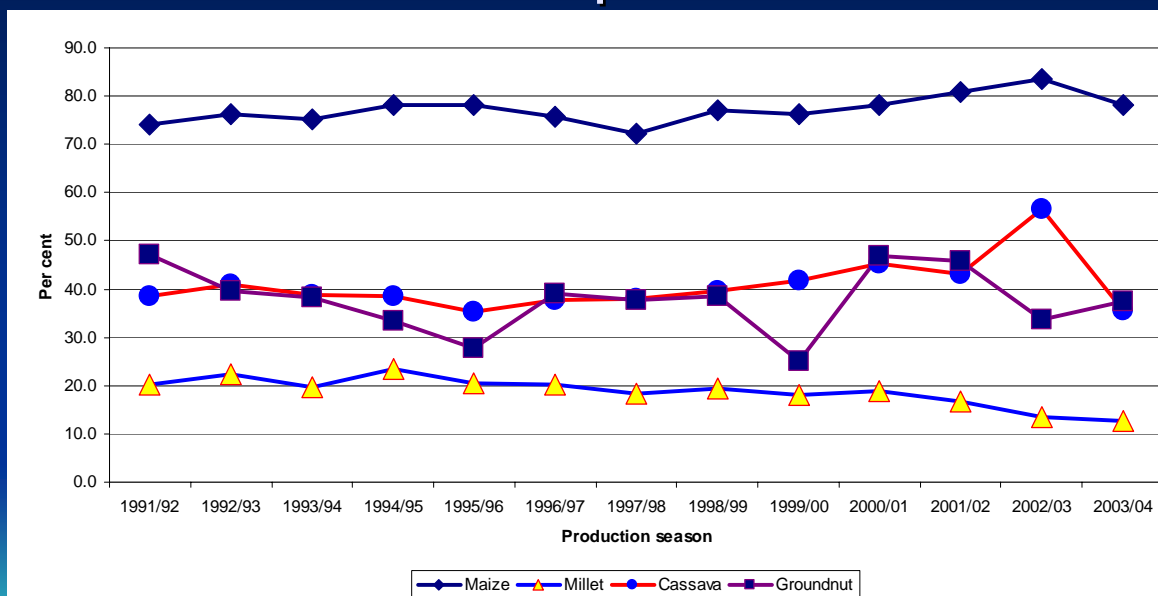
Preview

- Trends in:
 - Crop production
 - Distribution of area cultivated
 - Distribution of fertilizer used
 - Distribution of maize production and sales
- 

Trends in area planted



Proportion of farmers growing crops



Annual changes in production

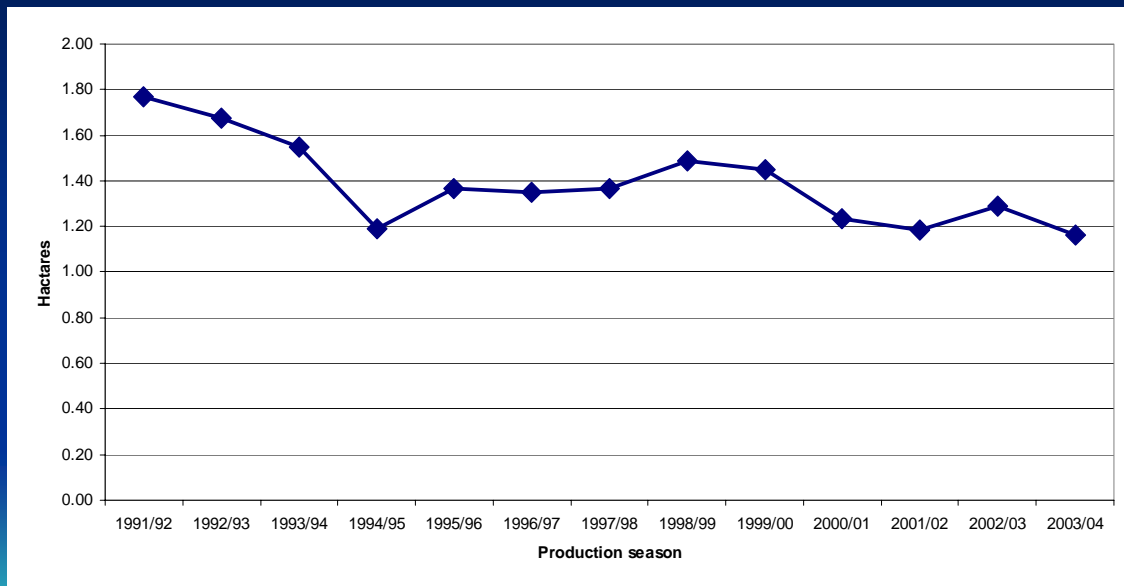
| Less Industrial Crops | | Industrial Crops | |
|-----------------------|--------------------------|------------------|--------------------------|
| <i>Crop</i> | <i>Annual growth (%)</i> | <i>Crop</i> | <i>Annual growth (%)</i> |
| Maize | 0.6 | Cotton | 5.3 |
| Sorghum | 0.4 | Soybean | 4.8 |
| Millet | 0.6 | Sunflower | 0.9 |
| Cassava | 3.3 | B. Tobacco | 8.7 |
| Groundnut | 4.0 | V. Tobacco | 20.9 |
| Sweet potato | 6.6 | | |
| Mixed beans | 0.6 | | |

Source: PHS, CSO

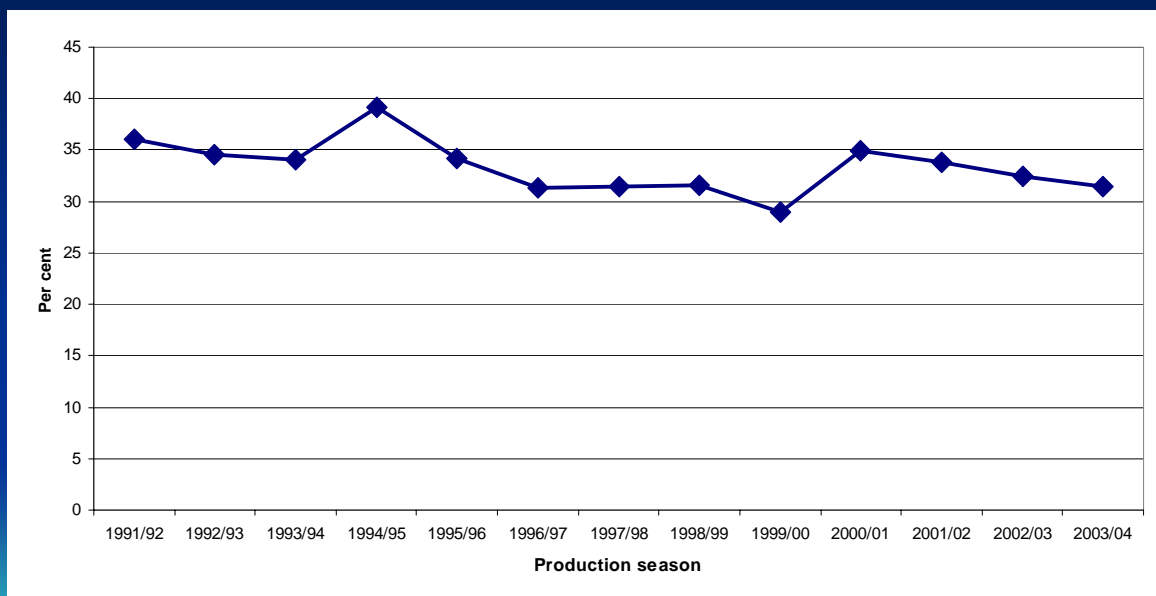
Preview

- Trends in:
 - ✓ Crop production
 - Distribution of area cultivated
 - Distribution of fertilizer used
 - Distribution of maize production and sales

Trends in average area cropped per household



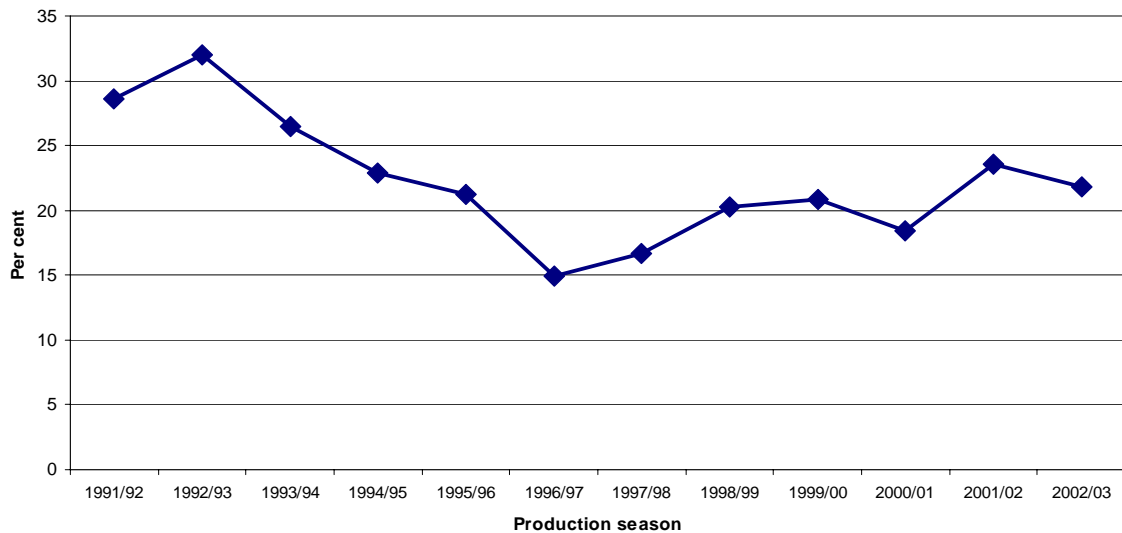
% of total land planted by Top 10% of smallholder farmers



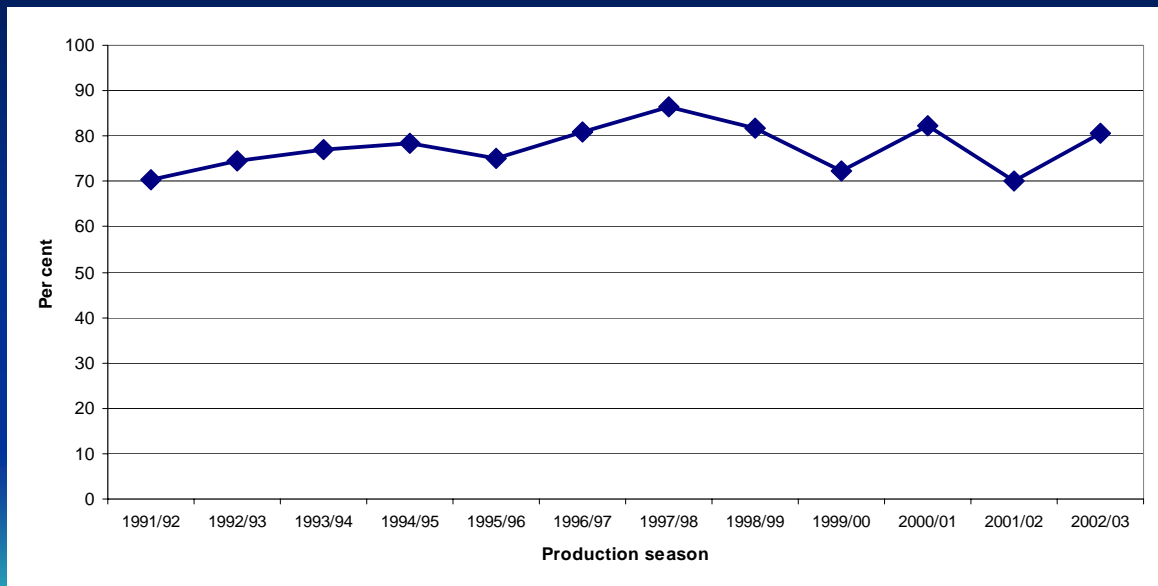
Preview

- Trends in:
 - ✓ Crop production
 - ✓ Distribution of area cultivated
 - Distribution of fertilizer used
 - Distribution of maize production and sales

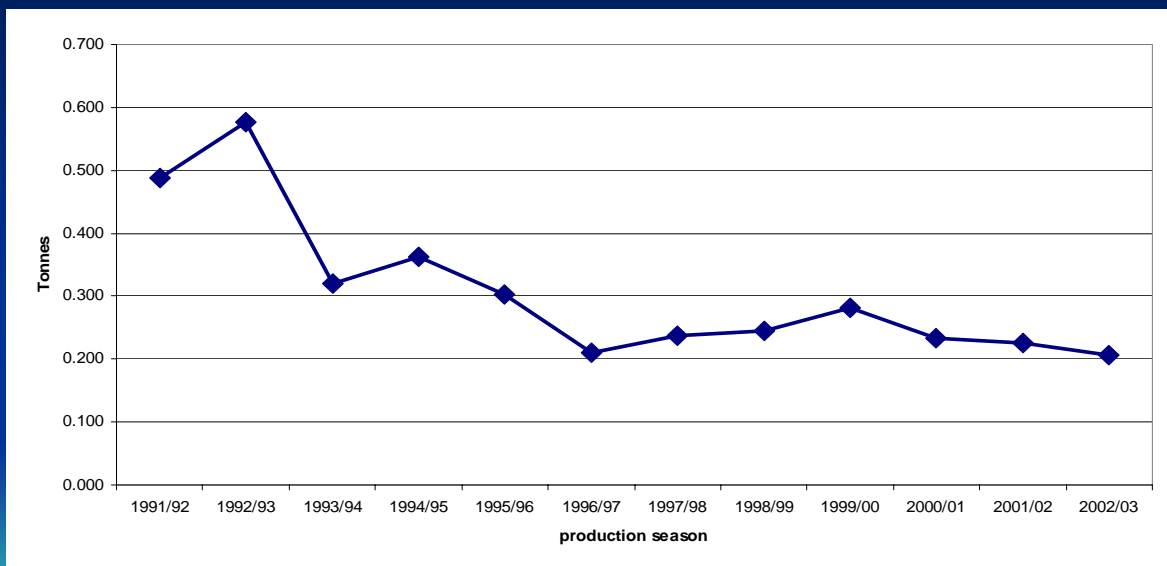
Trends in proportion of fertilizer users



% of total fertilizer consumed by Top 10% of smallholder farmers



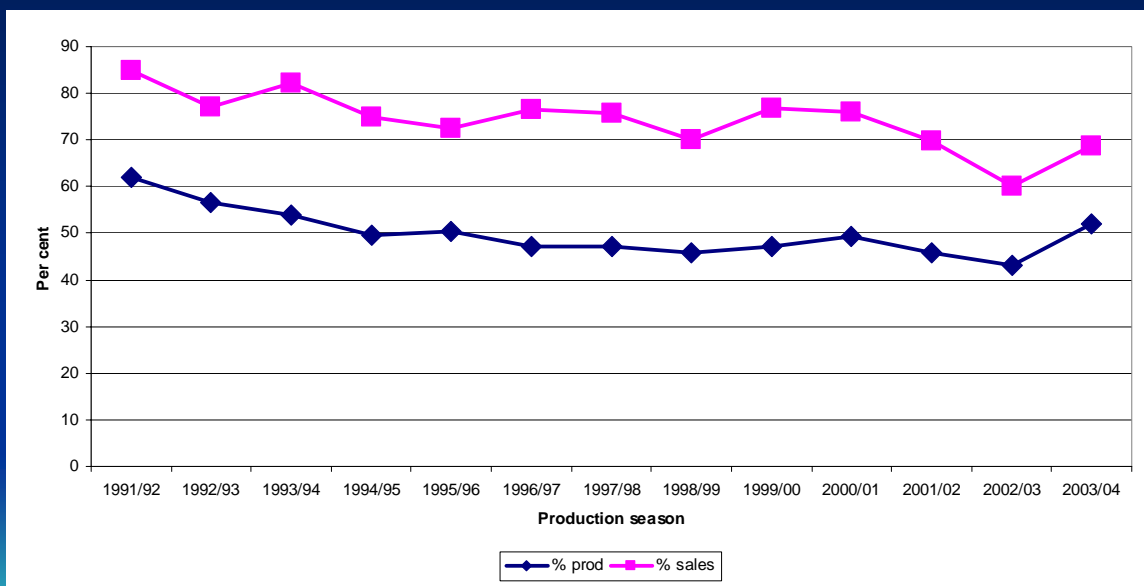
Average fertilizer consumed per farmer



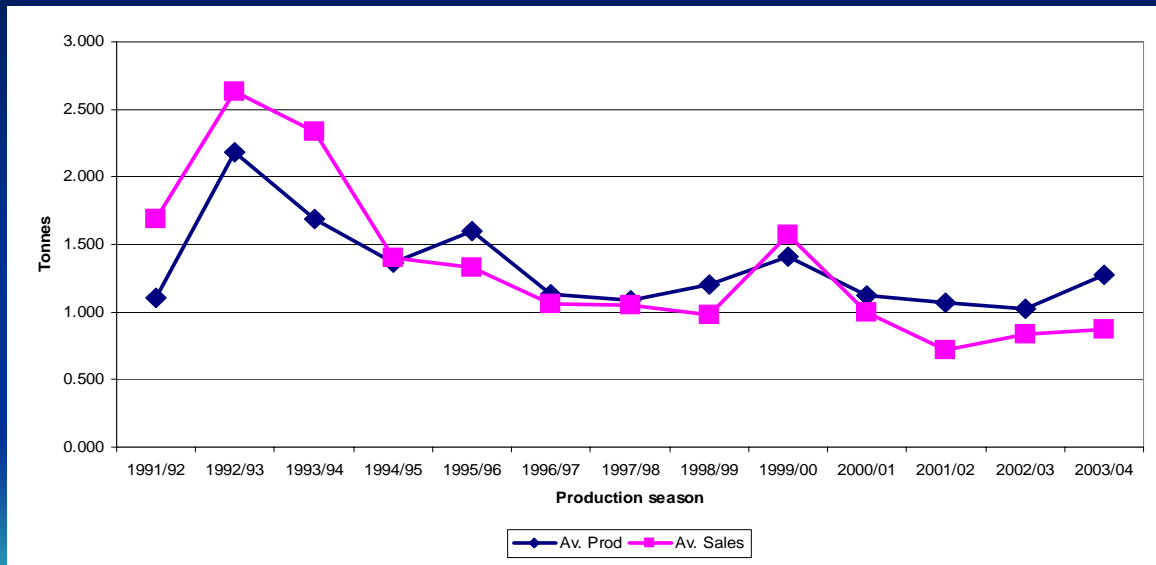
Preview

- Trends in:
 - ✓ Crop production
 - ✓ Distribution of area cultivated
 - ✓ Distribution of fertilizer used
 - Distribution of maize production and sales

% of total maize produced & sold by TOP 10% of smallholders




Trends in average maize production & sales per farmer




Preview

- Trends in:
 - ✓ Crop production
 - ✓ Distribution of area cultivated
 - ✓ Distribution of fertilizer used
 - ✓ Distribution of maize production and sales

SUMMARY

- Maize consistently predominant in smallholder cropping systems
 - Growth rates higher for export crops and staple alternatives to maize
 - Average area cropped per household is declining
 - Planted land consistently concentrated among small % of households
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SUMMARY (2)

- Percentage of smallholder farmers using fertilizer varied from 15 to 32%
 - 70 – 86% of fertilizer consumed by 10% of households
 - 43 – 62% of maize produced by a 10% of households
 - 60 to 85% of maize sold by 10% producing the most maize
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Conclusions

- Agricultural growth greatest for crops other than maize
- Largest part of fertilizer used, maize produced and sold has consistently been by 10% of smallholder farmers

POLICY MAKERS!!!!

- Program benefits to fertilizer users proportionate to the distribution of purchases
- Program benefits to maize producers are proportionate to distribution of sales

