


Agricultural policy in South Africa 1998
See


Ayee, E.S.A. 1993. A participatory communication approach to rural community development [DPhil thesis]


Brokensha, D. 1980. see *Indigenous knowledge systems and development*.


De Horowitz, R 1993. See Gassol de Horowitz


FAO see Food and Agricultural Organization of the United Nations


Information and communication for sustainable development
See PANOS Institute. 1998


International Service for National Agricultural Research (ISNAR). 1992. Management of scientific information for agricultural research in small countries (Small countries, Study paper # 8)

ISNAR
See International Service for National Agricultural Research


Rogers, A. 1993b. The Third World crises in adult education: a case study from literacy. Compare, 23(2):159-175.


Unisa See: University of South Africa


White paper on agriculture 1995

See


230


APPENDIX A

INTERVIEW SCHEDULE
### Excerpts from the Interview Schedule

<table>
<thead>
<tr>
<th>Farmer no.</th>
<th>Land size</th>
<th>Average yield</th>
<th>Family size</th>
<th>Monthly consumption</th>
<th>Annual consumption</th>
<th>Average shortfall</th>
<th>Average surplus</th>
<th>Price of meal</th>
<th>Price of seed</th>
<th>Price of fertilizer</th>
<th>Where do you plough?</th>
<th>Cultivars planted</th>
<th>When do you plough?</th>
<th>How many times?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Farmer no.</th>
<th>When do you plant?</th>
<th>When do you cultivate?</th>
<th>Seed used?</th>
<th>Fertiliser used?</th>
<th>Top-dressing used?</th>
<th>Plough cost</th>
<th>Planting cost</th>
<th>Who ploughs for you?</th>
<th>How many times do you cultivate?</th>
<th>Do you do seed-bed prep?</th>
<th>How deep do you plough?</th>
<th>Are you afraid that we may take your land?</th>
<th>Are you afraid we take your crop?</th>
<th>What fears do you have?</th>
<th>What problems do you have?</th>
</tr>
</thead>
<tbody>
<tr>
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<td></td>
</tr>
</tbody>
</table>
APPENDIX B

EXAMPLE OF PLANTING PROGRAMMES
<table>
<thead>
<tr>
<th>DAY</th>
<th>SEPTEMBER</th>
<th>OCTOBER</th>
<th>NOVEMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>Arrange for seed bed prep</td>
<td>Start planting</td>
<td>Buy Thiodan 1%</td>
</tr>
<tr>
<td>2nd</td>
<td></td>
<td></td>
<td>Arrange labour for topdressing</td>
</tr>
<tr>
<td>3rd</td>
<td></td>
<td>Attend Group Meeting</td>
<td></td>
</tr>
<tr>
<td>4th</td>
<td></td>
<td>Attend Group Meeting</td>
<td></td>
</tr>
<tr>
<td>6th</td>
<td>Attend Group Meeting</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7th</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>8th</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9th</td>
<td></td>
<td>Arrange labour for hoeing</td>
<td></td>
</tr>
<tr>
<td>10th</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11th</td>
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<tr>
<td>12th</td>
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<td></td>
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<tr>
<td>13th</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14th</td>
<td></td>
<td>Start hoeing lands</td>
<td>Apply top dressing</td>
</tr>
<tr>
<td>15th</td>
<td></td>
<td>Prepare seed beds</td>
<td></td>
</tr>
<tr>
<td>16th</td>
<td></td>
<td></td>
<td>Pay labourers</td>
</tr>
<tr>
<td>17th</td>
<td></td>
<td></td>
<td>Scout for stalk borer</td>
</tr>
<tr>
<td>18th</td>
<td></td>
<td>Attend Group Meeting</td>
<td></td>
</tr>
<tr>
<td>19th</td>
<td></td>
<td>Attend Group Meeting</td>
<td></td>
</tr>
<tr>
<td>20th</td>
<td>Attend Group Meeting</td>
<td>Pay people for hoeing</td>
<td>Apply Thiodan</td>
</tr>
<tr>
<td>21st</td>
<td></td>
<td>Pay labourers</td>
<td></td>
</tr>
<tr>
<td>22nd</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>23rd</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>24th</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25th</td>
<td></td>
<td>Buy seed, fertiliser, transport</td>
<td></td>
</tr>
<tr>
<td>26th</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>27th</td>
<td></td>
<td></td>
<td>Scout for stalk borer</td>
</tr>
<tr>
<td>28th</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>29th</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30th</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>
APPENDIX C

TIME TABLE FOR LECTURES
<table>
<thead>
<tr>
<th>DATE</th>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
<th>THURSDAY</th>
<th>FRIDAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>9/9/91 - 13/9/91</td>
<td>AM Morgenzon Uitkyk</td>
<td>Tweefontein I Tweefontein II</td>
<td>Klipspruit III Suikerbos</td>
<td>Puleng Groenfontein</td>
<td>Kadishi I</td>
</tr>
<tr>
<td></td>
<td>PM</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16/9/91 - 20/9/91</td>
<td>AM Tafelkop Sterkfontein</td>
<td>Potgietershoop Sterkfontein</td>
<td>Lukau Boekenhtkloof</td>
<td>Boschpoort Vergelegen</td>
<td>Kadishi II</td>
</tr>
<tr>
<td>23/9/91 - 27/9/91</td>
<td>AM Morgenzon Uitkyk</td>
<td>Tweefontein I Tweefontein II</td>
<td>Klipspruit III Suikerbos</td>
<td>Puleng Groenfontein</td>
<td>Kadishi I</td>
</tr>
<tr>
<td>23/9/91 - 27/9/91</td>
<td>AM Tafelkop Sterkfontein</td>
<td>Potgietershoop Sterkfontein</td>
<td>Lukau Boekenhtkloof</td>
<td>Boschpoort Vergelegen</td>
<td>Kadishi II</td>
</tr>
<tr>
<td>30/9/91 - 4/10/91</td>
<td>AM</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7/10/91 - 11/10/91</td>
<td>AM Morgenzon Uitkyk</td>
<td>Tweefontein I Tweefontein II</td>
<td>Klipspruit III Suikerbos</td>
<td>Puleng Groenfontein</td>
<td>Kadishi I</td>
</tr>
<tr>
<td>14/10/91 - 18/10/91</td>
<td>AM</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>21/10/91 - 25/10/91</td>
<td>AM Morgenzon Uitkyk</td>
<td>Tweefontein I Tweefontein II</td>
<td>Klipspruit III Suikerbos</td>
<td>Puleng Groenfontein</td>
<td>Kadishi I</td>
</tr>
<tr>
<td>28/10/91 - 1/11/91</td>
<td>AM</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4/11/91 - 8/11/91</td>
<td>AM</td>
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</table>
ORAL EXAMINATION
<table>
<thead>
<tr>
<th>Q</th>
<th>A</th>
</tr>
</thead>
</table>
| 1 | Name three ways as to how we can control witch weed.  
(a) Plant early  
(b) Fertilise correctly  
(c) Crop rotation. |
| 2 | What is fertiliser?  
Fertilise correctly |
| 3 | Name the most important types of fertiliser for maize.  
Phosphate and Nitrogen. |
| 4 | When do we apply Phosphate?  
When we plant. |
| 5 | When do we apply Nitrogen?  
4 to 6 weeks after planting. |
| 6 | When should I start ploughing?  
When the soil is wet, preferably in Winter. |
| 7 | What are the advantages of ploughing early?  
Being prepared to plant early and to control couch grass. |
| 8 | How deep must I plough and how many times should I plough?  
Plough 10" deep and plough once only. |
| 9 | Why must I plough 10" deep?  
For healthy root formation and moisture conservation. |
| 10 | When should I use lime?  
When my soil is sour. |
| 11 | What should the Ph be for maize?  
Ph: 6 - 7. |
| 12 | What should the Ph be for beans?  
Ph: 6.5 - 7. |
| 13 | What does sour soil do to plants?  
Holds back the food (fertiliser) from the plant. |
| 14 | What is the function of grass strips?  
Soil conservation. |
| 15 | What are weeds and what do they do?  
Thieves. They steal the plant’s food and water. |
| 16 | What is the function of contours?  
Soil conservation. |
<table>
<thead>
<tr>
<th>Q</th>
<th>A</th>
</tr>
</thead>
</table>
| 17 | **Q - How many types of weed do we have?**  
A - Two: sheep and goats. |
| 18 | **Q - When should I start with weed control?**  
A - As soon as I see weeds. |
| 19 | **Q - Name three methods or ways to control weed.**  
A - I) Hand hoeing ii) Mechanical iii) Spraying |
| 20 | **Q - How deep must I plant beans?**  
A - The depth of a match box. |
| 21 | **Q - How far apart in the row must they be planted?**  
A - 3" apart. |
| 22 | **Q - Name three advantages of planting beans.**  
A - I) Control witch weed ii) Later planting dates iii) Build up N in soil. |
| 23 | **Q - How are you aware of stalk borer infestation?**  
A - See windows in the leaves. |
| 24 | **Q - At what stage do you expect your first infestation?**  
A - As from four weeks after planting. |
| 25 | **Q - What does the stalk borer do to the plant?**  
A - Cuts off the plants food supply. |
| 26 | **Q - When must I treat for stalk borer?**  
A - As soon as I see windows on the leaves. |
| 27 | **Q - When should I plant maize?**  
A - End September/beginning October. |
| 28 | **Q - How deep do I plant my maize?**  
A - Four fingers deep. |
| 29 | **Q - How many plants per hectare?**  
A - 25 000 plants. |
| 30 | **Q - Is it correct to hold back maize for seed?**  
A - No. This seed will not produce. |
### Phokoane F.S.P. Phase I Training 1990

#### Results of Oral Examination

**Pass Mark = 70 %**

| Answers to Question 1-30 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | Total |
|--------------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| J. Maabane              | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ½  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | 24.5 | 82% |
| E. Malope               | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | 30  | 100% |
| E. Thokoane             | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | 28.5 | 95% |
| R. Tsimba               | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | 30  | 100% |
| A. Thokoane             | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | 30  | 100% |
| M. Maredi               | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | 28.5 | 95% |
| R. Rampedi              | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | 18.5 | 62% |
| L. Mashamaite           | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | 27.5 | 92% |
| S. Mashamaite           | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | 27.5 | 92% |
| K. Motsweni             | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | 23  | 77% |
| R. Lekwana             | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | 30  | 100% |
| F. Makaba              | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | 15.5 | 52% |
| P. Rampedi             | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | 27  | 90% |
| J. Mmotong             | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | 27.5 | 92% |
| J. Mokwana             | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | 21  | 70% |
| J. Mogayana            | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | 22.5 | 74% |
| J. Tau                 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | 26.5 | 88% |
| M. Thokoane            | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | 25  | 83% |
| M. Mankuruane          | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | 21.5 | 72% |
| J. Paledi              | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | 27  | 90% |
APPENDIX F

GRADUATION PROGRAMME
PROGRAMME: M.C. - Ephraim Mokhine

CERTIFICATE PRESENTATION KADISHI CO-OP

DATE: 2 August 1991
TIME: 10h00

10h00 - 10h15 OPENING: Prayer
10h15 - 10h25 WORD OF WELCOME: Regional Director Dept. of Agriculture
10h25 - 10h45 INTRODUCTION OF GUESTS: Mr. P. Seerane - Manager: Kadishi Co-op
10h45 - 11h00 FARMER REPORT-BACK: Local Farmers
11h00 - 11h25 QUIZ MATCH: Mr. J. Adendorff - Technical Training Manager
11h25 - 11h35 TRADITIONAL POEM: Kadishi Farmers
11h35 - 12h00 SPEECH AND PRESENTATION OF CERTIFICATES: The Honourable The Minister of Agriculture and Nature Conservation - Kgosi K.P. Phasha
12h00 - 12h10 ACKNOWLEDGEMENTS: Mr. A. Jurriaanse - General Manager L.A.C.

CLOSING WITH PRAYER
12h30 LUNCH
APPENDIX G

GRADUATION CERTIFICATE
Phokoane Agricultural Co-Operative Ltd.

Training Certificate

Boy Mokwana

Completed a course in Maize Cultivation

Training Official

Chairman

6th August 1990.
GRAPH OF MAIZE PRODUCTION
PHOKOANE BEFORE FSP
PRODUCTION VS CONSUMPTION

BAGS PRODUCED PER HA

(CURRENT PRODUCTION • 26.0%
of annual requirements)

AVERAGE ANNUAL CONSUMPTION

OF MEALIEMEAL PER FAMILY • 14.0 BAGS

NATIONAL AVERAGE

1987 1988 1989

FARMER PRODUCTION

BAGS PRODUCED