

**ZAMBIA CROP FORECAST SURVEY (2005/2006)**  
**FOR SMALL AND MEDIUM-SIZED HOLDINGS**  
**(Synthetic Questionnaire)**

Location of data files: c:\docs\Zambia\CFS\CFS0506\data\\_\_\_\_\_

Files created for this questionnaire:

| <b>File name</b>     | <b>Level of Data</b>   | <b>Page</b> | <b>Table/data Description</b>   |
|----------------------|------------------------|-------------|---|
| allsurid.sav         | household              | 2           | All households that were to be interviewed and identifying variables                  |
| id.sav               | household              | 2           | Household that completed the interview and identifying variables                      |
| hh.sav               | household              | 2           | Household questions and cassava production  |
| field.sav            | Household, field       | 4           | Field information - tillage, animal/plant manure, use of lime                         |
| crop.sav             | household, field, crop | 5           | Field, crop information, seed, planting area, harvest area, total harvest, fertilizer |
| Cassava_forecast.sav | Household, field       | 6           | Area under cassava, variety, year/month planted,                                      |
| cropsales.sav        | Household, crop        | 7           | Projected sales   |
| Cropstocks.sav       | Household, crop        | 8           | Crop stocks   |

**Filename: id.sav      Key Variables: dist, const, ward, region, csa, sea, hh**

**"Identifying variables" (Original Questionnaire Cover)**

**PROV**      \_\_\_\_\_      Province (see code list)  
**DIST**      \_\_\_\_\_      District  
**CONST**    \_\_\_\_\_      Constituency  
**WARD**      \_\_\_\_\_      Ward  
**REGION**    \_\_\_\_\_      Region – 1 Rural    2 Urban  
**CSA**        \_\_\_\_\_      Census Supervisory Area  
**SEA**        \_\_\_\_\_      Standard Enumeration Area  
**HH**         \_\_\_\_\_      Household serial number

**PROV**  
Value      Label  
1            Central  
2            Copperbelt  
3            Eastern  
4            Luapula  
5            Lusaka  
6            Northern  
7            Northwestern  
8            Southern  
9            Western

**WEIGHT**    \_\_\_\_\_      Household weight factor  
**AGE**        \_\_\_\_\_      Age of head of household (years)  
**SEX**        \_\_\_\_\_      Sex of head of household:              1 Male    2 Female

**MSTATUS**    \_\_\_\_\_      Marital Status  
1 Single                              2 Monogamously married  
3 Polygamously married    4 Divorced  
5 Widowed                            6 Separated

**RSTATUS**  
Value      Label  
1            Completed  
2            Refusal  
3            Moved out of SEA  
4            Non-contact  
5            Hh dissolved

**RSTATUS**    \_\_\_\_\_      Response status (see code list)  
**CATEGORY**    \_\_\_\_\_      Category (see code list)

**CATEGORY**  
Value      Label  
1            A - small scale holding < 2 ha  
2            B - medium scale holding – 2-5 ha  
3            C – medium scale holding – 5-19.9 ha

**Filename: allsurid.sav      Key Variables: dist, const, ward, region, csa, sea, hh – all households that were supposed to be interviewed.**

*Filename: hh.sav Key Variables: dist, const, ward, region, csa, sea, hh*

- 1.0 Has any member of this household planted/grown any crop, including cassava, this agricultural season (2005/2006)? *1 = yes 2 = no -> End interview*
- 2.1 Does any member of this household have/had any cassava fields this agricultural season (2005/2006)? *1 = yes 2 = no -> go to sec 3*

|      |  |
|------|--|
| HH01 |  |
| HH02 |  |

**SECTION 5. CASSAVA MARKETING** Please tell us about the household's utilization of cassava. **Reference period: Since May 2005**

- 5.1 Did the household have any cassava fields in 2004/05 agricultural season? *1 = yes 2 = no -> End interview*
- 5.2 Did the household sell any cassava field? *1 = yes 2 = no*
- 5.3 Since May 2005, did you sell or exchange any cassava? *1 = yes 2 = no -> go to 5.10*
- 5.4 If yes to 5.3, what quantity of raw cassava did you sell or exchange? *Quantity (Enter 0 for none)*
- 5.5 In what unit did you sell or exchange raw cassava? *Unit see codes below*
- 5.6 If yes, to 5.3, what quantity of dried cassava chips did you sell or exchange? *Quantity (Enter 0 for none)*
- 5.7 In what unit did you sell or exchange dried cassava? *Unit see codes below*
- 5.8 If yes, to 5.3, what quantity of cassava flour did you sell or exchange? *Quantity (Enter 0 for none)*
- 5.9 In what unit did you sell or exchange cassava flour? *Unit see codes below*
- 5.10 Does the household have any dried cassava chips in storage? *1 = yes 2 = no -> go to 5.13*
- 5.11 What quantity do you have in storage? *Quantity (Enter 0 for none)*
- 5.12 What unit? *Unit see codes below*
- 5.13 Has the household ever run out of mature cassava in the field since May 2005? *1 = yes 2 = no -> END interview*
- 5.14 If yes to 5.13, which month did the household run out of mature cassava in the field? *Month see codes below*

|      |  |
|------|--|
| HH03 |  |
| HH04 |  |
| HH05 |  |
| HH06 |  |
| HH07 |  |
| HH08 |  |
| HH09 |  |
| HH10 |  |
| HH11 |  |
| HH12 |  |
| HH13 |  |
| HH14 |  |
| HH15 |  |
| HH16 |  |

| Month       |              | Unit Code       |                                   |               |                    |
|-------------|--------------|-----------------|-----------------------------------|---------------|--------------------|
| 01=January  | 07=July      | 1 = 90kg bag    | 6 = 90kg bag unshelled/unpolished | 11=5lt gallon | 16=crates          |
| 02=February | 08=August    | 2 = 50kg bag    | 7 = 50kg bag unshelled/unpolished | 12=MEDA       | 17=tonnes          |
| 03=March    | 09=September | 3 = 25kg bag    | 8 = 25kg bag unshelled/unpolished | 13=bunches    | 18=boxes           |
| 04=April    | 10=October   | 4 = 10kg pocket | 9=10kg bag unshelled              | 14=Muchumbu   | 19=number          |
| 05=May      | 11=November  | 5 = 20lt tin    | 10=20lt tin unshelled/unpolished  | 15=ka B.P.    | 20 = kilogram (kg) |
| 06=June     | 12=December  |                 |                                   |               |                    |

*. Thank you very much for participating in this interview. We appreciate your time and effort.*

### 1. CROP FORECAST

**Enumerator:** Transfer field numbers from the sketch. Ask the following questions for each of the fields the household planted in 2005/2006 agricultural season. Exclude all cassava fields. Calculate the quantity harvested in kilograms (kgs) for seed cotton, Virginia tobacco, burley tobacco, paprika and coffee.

Key Variables: PROV, DIST, CONST, WARD, REGION, CSA, SEA, HH, FIELD Reference period: The current agricultural season (2005/2006 season) Filename: field.sav

| Field ID | Type of field<br>1=monocrop<br>2=mixture | What was the main tillage method used?<br>see codes below | When was tillage done?<br>1 = before the rains<br>2 = during the rains | Did you apply plant or animal manure?<br>1 = Yes<br>2 = No | How many kgs of lime did you apply<br><br>(Enter "0" if they did not apply) |
|----------|--|---|--|--|---|
| field    | fldtype                                  | cf01  | cf02   | cf03   | cf04  |
|          |  |   |  |  |   |
|          |  |   |  |  |   |
|          |  |   |  |  |   |
|          |  |   |  |  |   |
|          |  |   |  |  |   |

**CF01**

- 1 = conventional hand hoeing
- 2= planting basins
- 3=zero tillage
- 4=ploughing
- 5=ripping
- 6=ridging
- 7=bunding

Key Variables: PROV, DIST, CONST, WARD, REGION, CSA, SEA, HH, FIELD, CROP Reference period: The current agricultural season (2005/2006 season) Filename: crop.sav

| Field ID | Crop code<br><br>Enter appropriate crop code for each field<br><br>see codes below | Type of field<br><br>1=mono crop<br>2=mixture | What is the area under this crop? |  |            |                        | What area is harvested or expected to be harvested? |  |            |                          | Ask if cf07 is less than cf075 else Go To cf10<br>What is the main reason for not harvesting the whole area planted?<br>See codes below | What main seed variety did you plant?<br><br>See code sheet at end of quest. | What quantity of seed did you plant? (1 <sup>st</sup> planting only) |                      | How many kgs of basal dressing did you apply<br><br>(Enter "0" if they did not apply) | How many kgs of top dressing did you apply<br><br>(Enter "0" if they did not apply) | How much of this crop have you harvested/expect to harvest from this field? |                      |            |               |  |
|----------|--|---|-----------------------------------|--|------------|------------------------|---|--|------------|--------------------------|---|--|--|----------------------|---|---|---|----------------------|------------|---------------|--|
|          |  |   | Qty                               | Unit<br>1 = lima<br>2 = acre<br>3 = ha | Conversion | Total hectares planted | Qty   | Unit<br>1 = lima<br>2 = acre<br>3 = Ha | Conversion | Total hectares harvested |   |  | Qty planted  | Unit see codes below |   |   | Qty Harvested/ to be harvested  | Unit See codes below | Conversion | Kgs harvested |  |
| field    | crop   | cf01  | cf05                              | cf06                                   | cf06 conv  | ha_plnt                | cf07  | cf08                                   | cf08 conf  | ha_hrv                   | CF09  | CF10   | CF11   | CF12                 | CF13  | CF14  | CF15  | CF16                 | cf16conv   | Kg har        |  |
|          |  |   |                                   |  |            |                        |   |  |            |                          |   |  |  |                      |   |   |   |                      |            |               |  |
|          |  |   |                                   |  |            |                        |   |  |            |                          |   |  |  |                      |   |   |   |                      |            |               |  |
|          |  |   |                                   |  |            |                        |   |  |            |                          |   |  |  |                      |   |   |   |                      |            |               |  |
|          |  |   |                                   |  |            |                        |   |  |            |                          |   |  |  |                      |   |   |   |                      |            |               |  |
|          |  |   |                                   |  |            |                        |   |  |            |                          |   |  |  |                      |   |   |   |                      |            |               |  |

| CROP                  |                     | CF09                        | Unit CF12 and CF16                 |                    |
|-----------------------|---------------------|-----------------------------|------------------------------------|--------------------|
| 1 = Maize             | 12 = Mixed beans    | 1 = water logging           | 1 = 90kg bag                       | 12 = MEDA          |
| 2 = Sorghum           | 13 = Bambara nuts   | 2 = wilting due to drought  | 2 = 50kg bag                       | 13 = bunches       |
| 3 = Rice              | 14 = Cowpeas        | 3 = animal/bird destruction | 3 = 25kg bag                       | 14 = Muchumbu      |
| 4 = Millet            | 15 = Velvet beans   | 4 = field not weeded        | 4 = 10kg pocket                    | 15 = ka B.P.       |
| 5 = Sunflower         | 16 = Coffee         | 5 = pests and diseases      | 5 = 20lt tin                       | 16 = crates        |
| 6 = Groundnuts        | 17 = Sweet potatoes | 6 = fire                    | 6 = 90kg bag unshelled/unpolished  | 17 = tonnes        |
| 7 = Soybeans          | 19 = Kenaf          | 7 = theft                   | 7 = 50kg bag unshelled/unpolished  | 18 = boxes         |
| 8 = Seed Cotton       | 20 = Cashew nuts    | 8 = floods                  | 8 = 25kg bag unshelled/unpolished  | 19 = number        |
| 9 = Irish potatoes    | 21 = Other crops    | 9 = other specify           | 9 = 10kg bag unshelled             | 20 = kilogram (kg) |
| 10 = Virginia tobacco | 22 = Paprika        | 10 = lack of fertiliser     | 10 = 20lt tin unshelled/unpolished |                    |
| 11 = Burley tobacco   | 23 = Pineapple      |                             | 11 = 5lt gallon                    |                    |

**SECTION 2. CASSAVA PRODUCTION FORECAST**

**Enumerator:** Look at the sketches to see if the household had any cassava fields in 2005/2006. If there are no cassava fields, go to SECTION 3

2.1 Please tell us about the household's cassava production

Key Variables: PROV, DIST, CONST, WARD, REGION, CSA, SEA, HH, FIELD

Filename: cassava\_forecast.sav

| Cassava field number | What variety of cassava is / was in this field?<br>See codes (a) below | What is the area of the field? |   |                  |                     | When did you plant most of this field? |       | Is the cassava in this field mature or expected to mature between now and 30 <sup>th</sup> April 2007?<br>1 = yes<br>2 = no -> go to next field |
|----------------------|--|--------------------------------|---|------------------|---------------------|--|-------|---|
|                      |  | Area                           | Unit<br>1 = Lima<br>2 = Acres<br>3 = Ha | Conversion       | Hectares of cassava | Year                                   | Month |   |
| field                | CS01   | CS02                           | CS03                                    | cs03conv         | ha_cass             | CS04                                   | CS05  | CS06  |
|                      |  |                                |   |                  |                     |  |       |   |
|                      |  |                                |   |                  |                     |  |       |   |
|                      |  |                                |   |                  |                     |  |       |   |
|                      |  |                                |   |                  |                     |  |       |   |
|                      |  |                                |   |                  |                     |  |       |   |
|                      |  |                                |   |                  |                     |  |       |   |
|                      |  |                                |   |                  |                     |  |       |   |
|                      |  |                                |   |                  |                     |  |       |   |
| CS04                 | CS05   | CS01 Cassava variety           |   |                  |                     |  |       |   |
| 1=2005               | 01=January   | 09=September                   |   | 1=Bangweulu      |                     |  |       |   |
| 2=2004               | 02=February  | 10=October                     |   | 2=Nalumino       |                     |  |       |   |
| 3=2003               | 03=March   | 11=November                    |   | 3=Kapumba        |                     |  |       |   |
| 4=2002               | 04=April   | 12=December                    |   | 4=Chila          |                     |  |       |   |
| 5=2001               | 05=May   |                                |   | 5=Mweru          |                     |  |       |   |
| 6=2000               | 06=June  |                                |   | 6=Tanganyika     |                     |  |       |   |
| 7=before 2000        | 07=July  |                                |   | 7=Other Improved |                     |  |       |   |
| 8=2006               | 08=August  |                                |   | 8=Local variety  |                     |  |       |   |

### SECTION 3. CROP FORECAST SALES

**Enumerator:** Ask the following questions for all FOOD CROPS. Exclude cassava.

*Key Variables: PROV, DIST, CONST, WARD, REGION, CSA, SEA, HH, CROP* **Reference period: The current agricultural season (2005/2006 season)** **Filename: cropsales.sav**

| Food crops harvested or expected to be harvested<br>in 2005/2006 | What quantity do you expect to sell and/or exchange?<br><i>Enter "0" if they will not sell.<br/>(please make sure sales do not exceed production)</i> |             |                 | Total kgs sold |
|--|---|-------------|-----------------|----------------|
|  | Quantity  | Unit        | Conversion      |                |
| <b>CROP</b>  | <b>CFS1</b>   | <b>CFS2</b> | <b>cfs2conv</b> | kgsales        |
|  |   |             |                 |                |
|  |   |             |                 |                |
|  |   |             |                 |                |
|  |   |             |                 |                |
|  |   |             |                 |                |
|  |   |             |                 |                |
|  |   |             |                 |                |
|  |   |             |                 |                |
|  |   |             |                 |                |

| <b>CROP</b>           |                   | <b>CFS2</b>                       |                    |
|-----------------------|-------------------|-----------------------------------|--------------------|
| 1= Maize              | 12= Mixed beans   | 1 = 90kg bag                      | 12=MEDA            |
| 2 = Sorghum           | 13= Bambara nuts  | 2 = 50kg bag                      | 13=bunches         |
| 3 = Rice              | 14=Cowpeas        | 3 = 25kg bag                      | 14=Muchumbu        |
| 4 = Millet            | 15=Velvet beans   | 4 = 10kg pocket                   | 15=ka B.P.         |
| 5 = Sunflower         | 16=Coffee         | 5 = 20lt tin                      | 16=crates          |
| 6 = Groundnuts        | 17=Sweet potatoes | 6 = 90kg bag unshelled/unpolished | 17=tonnes          |
| 7 = Soybeans          | 18=Cassava        | 7 = 50kg bag unshelled/unpolished | 18=boxes           |
| 8 = Seed Cotton       | 19=Kenaf          | 8 = 25kg bag unshelled/unpolished | 19=number          |
| 9 = Irish potatoes    | 20=Cashew nuts    | 9 =10kg bag unshelled             | 20 = kilogram (kg) |
| 10 = Virginia tobacco | 21=Other crops    | 10=20lt tin unshelled/unpolished  |                    |
| 11 = Burley tobacco   | 22=Paprika        | 11=5lt gallon                     |                    |
|                       | 23=Pineapples     |                                   |                    |

**SECTION 4. ENUMERATOR: ASK THE FOLLOWING QUESTIONS FOR THE FOOD CROPS LISTED. EXCLUDE CASSAVA.**

Table 4.3 Key Variables: PROV, DIST, CONST, WARD, REGION, CSA, SEA, HH, CROP Reference period: The 2004/2005 agricultural season

| CROP    | code | CSS1 | What total quantity of ..... did you sell and/or exchange?<br><i>Enter "0" if they did not sell.</i> |      |                |             | CSS4 | Does the household have NOW? |      |                |                 | Is the household expected to have by the end of April 2006? |      |                |                             |
|---------|------|------|--|------|----------------|-------------|------|------------------------------|------|----------------|-----------------|---|------|----------------|-----------------------------|
|         |      |      | Quan<br>tity   | Unit | Conver<br>sion | Kgs<br>sold |      | Quan<br>tity                 | Unit | Conver<br>sion | Kgs of<br>stock | Quan<br>tity  | Unit | Conver<br>sion | Kgs of<br>stock<br>expected |
|         |      |      | CSS2   | CSS3 | css3conv       | kgslld      |      | CSS5                         | CSS6 | css6conv       | kgstock         | CSS7  | CSS8 | css8conv       | kgnstock                    |
| Maize   | 1    |      |  |      |                |             |      |                              |      |                |                 |   |      |                |                             |
| Sorghum | 2    |      |  |      |                |             |      |                              |      |                |                 |   |      |                |                             |
| Rice    | 3    |      |  |      |                |             |      |                              |      |                |                 |   |      |                |                             |
| Millet  | 4    |      |  |      |                |             |      |                              |      |                |                 |   |      |                |                             |

| CSS3 and CSS6 and CSS8            |                    |
|-----------------------------------|--------------------|
| 1 = 90kg bag                      | 12=MEDA            |
| 2 = 50kg bag                      | 13=bunches         |
| 3 = 25kg bag                      | 14=Muchumbu        |
| 4 = 10kg pocket                   | 15=ka B.P.         |
| 5 = 20lt tin                      | 16=crates          |
| 6 = 90kg bag unshelled/unpolished | 17=tonnes          |
| 7 = 50kg bag unshelled/unpolished | 18=boxes           |
| 8 = 25kg bag unshelled/unpolished | 19=number          |
| 9=10kg bag unshelled              | 20 = kilogram (kg) |
| 10=20lt tin unshelled/unpolished  |                    |
| 11=5lt gallon                     |                    |

|  |   |  |   |   |
|--|---|--|---|---|
| <p><b>SEED VARIETY CODES</b></p> <p><b>Maize</b></p> <p><u>ZAMSEED</u></p> <p>1 = Pool 16<br/>2 = MMV 400<br/>3 = GV 412<br/>4 = MM 441<br/>5 = GV 470<br/>6 = GV 408<br/>7 = MM 501<br/>8 = MM 502<br/>9 = MM 601<br/>10 = MM 603<br/>11 = MM 604<br/>12 = GV 512<br/>13 = GV 607<br/>14 = GV 702<br/>15 = GV 703<br/>16 = GV 722<br/>17 = MM 752<br/>18 = GV 704<br/>19 = GV 61 Yellow</p> <p><u>PANNAR</u></p> <p>20 = PAN 6363 - Chipolopolo<br/>21 = PAN 6549 - Mr. Reliable<br/>22 = PAN 67 - African Queen<br/>23 = PAN 6243 - in a class of its own<br/>24 = PAN 64<br/>25 = PAN 6479<br/>26 = PAN 87<br/>27 = PAN 6573<br/>28 = PAN 6777<br/>29 = PAN 61<br/>30 = PAN 6823<br/>31 = PAN 14 - Yellow maize</p> | <p><u>SEED-CO</u></p> <p>32 = SC 709<br/>33 = SC 713<br/>34 = SC 715<br/>35 = SC 711<br/>36 = SC 701<br/>37 = SC 707<br/>38 = SC 627<br/>39 = SC 625<br/>40 = SC 601<br/>41 = SC 621<br/>42 = SC 501<br/>43 = SC 515<br/>44 = SC 513<br/>45 = SC 517<br/>46 = SC 521<br/>47 = SC 401<br/>48 = SC 403<br/>49 = SC 405<br/>50 = SC 407<br/>51 = SC 704 - Yellow<br/>52 = SC 706 - Yellow<br/>53 = SC 602 - Yellow<br/>54 = SC 604 - Yellow<br/>55 = SC 506 - Yellow<br/>56 = SC 206 - Yellow</p> <p><u>MRI</u></p> <p>57 = MRI 724<br/>58 = MRI 744<br/>59 = MRI 734<br/>60 = MRI 651<br/>61 = MRI 634<br/>62 = MRI 624<br/>63 = MRI 611<br/>64 = MRI 614<br/>65 = MRI 594<br/>66 = MRI 514<br/>67 = MRI 455<br/>68 = Local maize</p> | <p>69 = Hybrid maize<br/>70 = Recycled hybrid maize<br/>71 = OPV maize</p> <p><b>Sorghum</b></p> <p><u>ZAMSEED</u></p> <p>75 = KUYUMA<br/>76 = SIMA<br/>77 = ZSV 15<br/>78 = WP 13</p> <p><u>SEED-CO</u></p> <p>79 = MACIA (OPV - white)<br/>80 = NS5511 (Hybrid - brown)</p> <p>81 = Local sorghum<br/>82 = Hybrid sorghum<br/>83 = Recycled hybrid sorghum<br/>84 = OPV sorghum</p> <p><b>Sunflower</b></p> <p><u>ZAMSEED</u></p> <p>85 = MILIKA<br/>86 = RECORD</p> <p><u>PANNAR</u></p> <p>87 = PAN 7369<br/>88 = PAN 7353<br/>89 = PAN 7351</p> <p>90 = Local sunflower<br/>91 = Hybrid sunflower<br/>92 = Recycled hybrid sunflower<br/>93 = OPV sunflower</p> <p><b>Groundnuts</b></p> <p><u>ZAMSEED</u></p> <p>94 = CHIPEGO<br/>95 = MGV-4<br/>96 = CHALIMBANA</p> | <p><u>SEED-CO</u></p> <p>97 = FLAMINGO<br/>98 = NYANDA</p> <p>99 = Local groundnuts<br/>100 = Hybrid groundnuts<br/>101 = Recycled hybrid groundnuts<br/>102 = OPV groundnuts</p> <p><b>Soyabeans</b></p> <p><u>ZAMSEED</u></p> <p>103 = KELEYA<br/>104 = MAGOYE</p> <p><u>SEED-CO</u></p> <p>105 = STORM<br/>106 = SOLITAIRE<br/>107 = SOPRANO<br/>108 = SAFARI</p> <p>109 = Local soyabeans<br/>110 = Hybrid soyabeans<br/>111 = Recycled hybrid soyabeans<br/>112 = OPV soyabeans</p> <p><b>Cowpeas</b></p> <p><u>ZAMSEED</u></p> <p>113 = LUTEMBWE<br/>114 = BUBEBE</p> <p>115 = Local cowpeas<br/>116 = Hybrid cowpeas<br/>117 = Recycled hybrid cowpeas<br/>118 = OPV cowpeas</p> | <p><b>Tobacco</b></p> <p><u>BARLEY</u></p> <p>119=Buncnett<br/>120=BO 1<br/>121=BO 2<br/>122=BO 3<br/>123=A 1<br/>124=A 2<br/>125=A3</p> <p><u>VIRGINIA</u></p> <p>126=HG<br/>127=T26<br/>128=RK326<br/>129=T29</p> <p><b>Cotton</b></p> <p>130= F135<br/>131= Chureza<br/>132= Ngwezi<br/>133= CDT 1</p> <p><b>All other crops</b></p> <p>134= Local<br/>135=Improved</p> <p><u>SEED COMPANIES</u></p> <p>136=ZAMSEED<br/>137=PANNAR<br/>138=SEED-CO<br/>139=MRI</p> <p><b>140 = Do not know</b></p> |
|--|---|--|---|---|