

Zambia

Guidebook to Location of Expected Smallholder Maize Sales for the 2010-2011 Marketing Season

Expected Sales Volume and Number of Smallholders
Selling by Province, District and Type of
Small/Medium Households

July 20, 2010
MACO/CSO and ACF/FSRP

Guidebook Outline

- Guidebook Logic & Methods
- Map of National-Level Maize Production/Utilisation by Large and Small-scale Farmers
- Map of District-Level Maize Production/Expected Utilisation for 2010/2011
- Tables by Province and District of Expected Sales/Numbers of Smallholder HHs Selling

Guidebook Logic: Where In Zambia Should Private Traders & FRA Buyers Look for Maize to Purchase from Small & Medium-Scale Households for the 2010/2011 Marketing Season?

- CSO/MACO Annual Crop Forecast Surveys Measure Production and Expected Sales – This Information Can Help Guide Buying Strategies
- Absolute Smallholder Production and Expected Sales Volumes Vary Considerably Across Districts of Zambia.
- Deciding Where to Buy Depends on the Objectives of Buyers & Importantly on the Costs of Assembly/Buying –
 - Buying small quantities from many hhs is more costly
 - Buying depends on the location where a buyer intends to sell
 - Buying locations also depend on the social welfare objectives of FRA

Guidebook Logic - Continuation

- Large-Scale Farmer Sales are Concentrated by District
- For Indicators of Potential Smallholder Maize Purchase Volumes, Examine the S/M HH Production and Expected Sales by Province and District – see details in the following Tables
- For Ideas on Potential Costs of Assembly and Transport, Examine Expected Sales by Type of Smallholder Households (defined by CSO as area cultivated in all crops + livestock)
 - Type A. (cultivate less than 2.0 ha) = 70 % of S/M HHs (852,154 HHs)
 - Type B. (cultivate between 2.0 and 5 ha) = 24 % of S/M HHs (290,471HHs)
 - Type C. (cultivate > 5 to 20 ha) = 6 % of S/M HHs (69,702 HHs)

WHAT HAPPENS TO ZAMBIAN MAIZE PRODUCTION?

COMPARING 2008/09 AND 2009/10 PRODUCTION SEASONS

NATIONAL LEVEL: 2009/10

Click on the **Level : Year** Combination

National: 2008/09

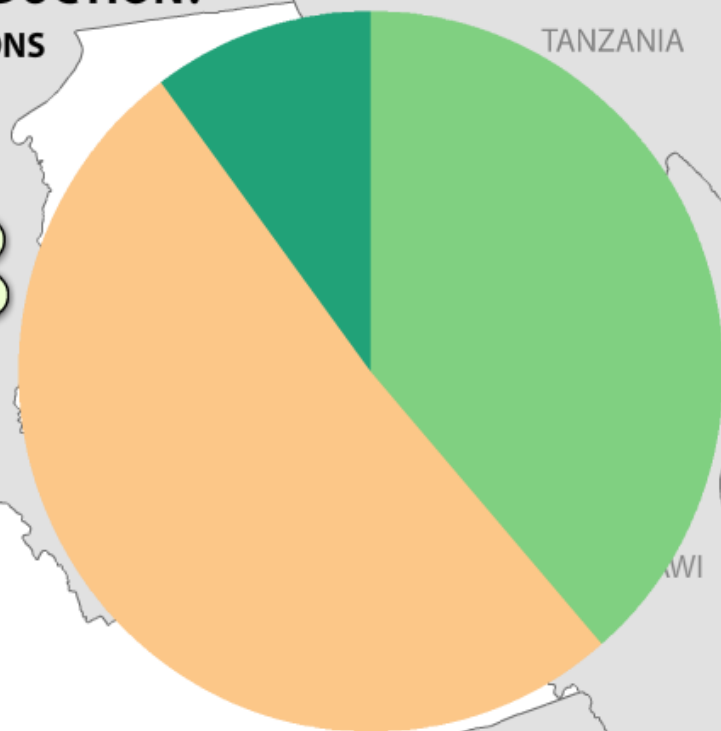
Provincial: 2008/09

District: 2008/09

National: 2009/10

Provincial: 2009/10

District: 2009/10



Total Production in 2009/10: 2,757,715 MT

Smallholders: 89% of total production.

They plan to sell 43% and retain 57% of their production.

44% of smallholders planting maize intend to sell.

Large Scale farms: 11% of total production.

They plan to sell 92% and retain 8%.

Definitions

Planned Sales and Retentions by Farm Type

- Smallholder Sales
- Smallholder Retentions
- Large Scale Sales
- Large Scale Retentions

ANGOLA

DEMOCRATIC REPUBLIC OF CONGO

TANZANIA

SWAZI

MOZAMBIQUE

ZIMBABWE

NAMIBIA

WHAT HAPPENS TO ZAMBIAN MAIZE PRODUCTION?

COMPARING 2008/09 AND 2009/10 PRODUCTION SEASONS

DISTRICT LEVEL: 2009/10

Click on the **Level : Year** Combination

National: 2008/09

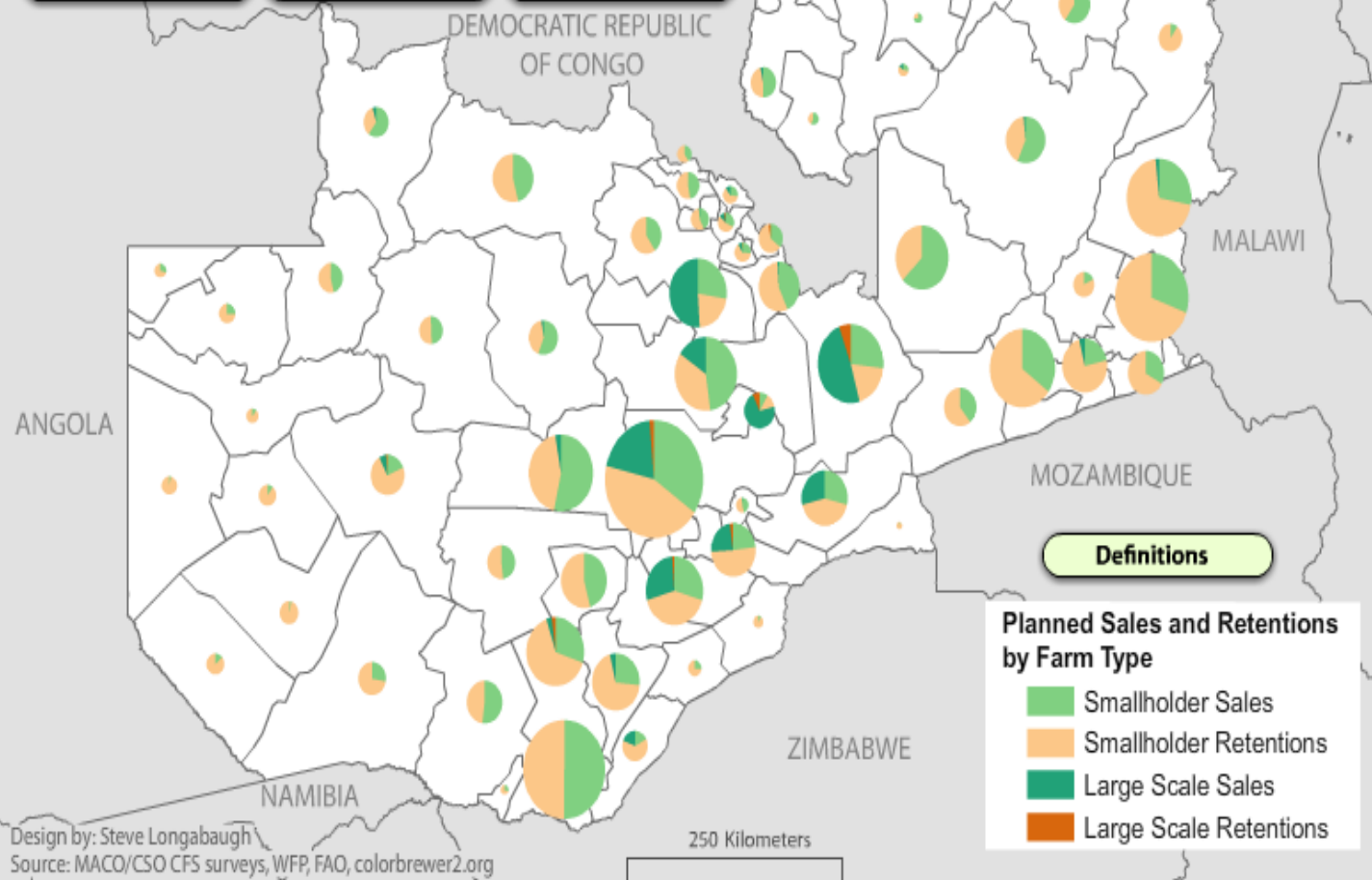
Provincial: 2008/09

District: 2008/09

National: 2009/10

Provincial: 2009/10

District: 2009/10



Zambia – Small & Medium Household Maize Production & Expected Sales by Province

| Province | Production mt | Total Expected Sales mt | Type A S/M HH (0 - 2 ha) | | Type B S/M HH (> 2 – 5 ha) | | Type C S/M HH (> 5 – 20 ha) | |
|---------------|---------------------|---|---|---|---|---|--|---|
| | | | # HHs to Sell | Total mt to Sell | # HHs to Sell | Total mt to Sell | # HHs to Sell | Total mt to Sell |
| Central | 526,315 | 280,319 | 49,747 | 70,800 | 34,853 | 104,203 | 12,298 | 107,316 |
| Copperbelt | 182,016 | 81,307 | 31,894 | 36,978 | 9,383 | 23,833 | 2,891 | 20,495 |
| Eastern | 531,810 | 159,934 | 45,673 | 39,674 | 34,605 | 65,394 | 9,064 | 54,866 |
| Luapula | 67,919 | 33,509 | 24,946 | 13,979 | 11,242 | 15,861 | 1,491 | 3,669 |
| Lusaka | 89,586 | 32,201 | 10,505 | 12,447 | 3,374 | 11,846 | 836 | 7,907 |
| Nothern | 306,330 | 170,631 | 69,230 | 68,571 | 42,470 | 72,477 | 8,839 | 29,584 |
| NorthWestern | 129,237 | 62,897 | 38,203 | 30,283 | 13,216 | 23,735 | 1,459 | 8,879 |
| Southern | 541,507 | 226,163 | 24,910 | 35,250 | 26,505 | 83,509 | 12,948 | 107,404 |
| Western | 88,804 | 15,048 | 10,514 | 4,334 | 6,791 | 6,260 | 2,238 | 4,454 |
| Totals | 2,463,523 mt | 1,062,010 mt <i>(= a total of 43 % of production)</i> <i>(The total of 540,124 HHs Expect to Sell = 44 % of maize growers or 36 % of ag HHs)</i> | 305,622 hh <i>(= 36 % of all Type A Maize Grower HHs</i> | 312,317 mt <i>(= 32 % of Prod. of all Type A HHs)</i> | 182,439 hhs <i>(= 63 % of All Type B. Maize Grower HHs)</i> | 407,117 mt <i>(= 45 % of Prod. of all Type B HHs)</i> | 52,063 hhs <i>(= 75 % of all Type C. Maize Grower HHs)</i> | 342,575 mt <i>(= 57 % of Prod. of all Type C Maize Growers)</i> |

*Large Scale = 294,192 mt Farmers 269,328 mt

Maize Production & Expected Sales Districts of Central Province

| District | Production mt | Total Expected Sales mt | Type A S/M HH (0 - 2 ha) | | Type B S/M HH (> 2 – 5 ha) | | Type C S/M HH (> 5 – 20 ha) | |
|---------------|-------------------|-------------------------------|-------------------------------|----------------------|---------------------------------|-----------------------|----------------------------------|-----------------------|
| | | | # HHs to Sell | Total mt to Sell | # HHs to Sell | Total mt to Sell | # HHs to Sell | Total mt to Sell |
| Chibombo | 211,824 | 92,981 | 11,913 | 13,489 | 9,802 | 34,612 | 4,642 | 16,081 |
| Kabwe | 5,513 | 2,345 | 611 | 914 | 178 | 529 | 143 | 1,104 |
| Kapiri-Mposhi | 89,409 | 50,488 | 9,531 | 13,186 | 7,220 | 16,750 | 2,208 | 12,047 |
| Mkushi | 54,519 | 32,248 | 7,129 | 10,941 | 2,533 | 10,325 | 978 | 8,399 |
| Mumbwa | 111,010 | 61,261 | 10,636 | 19,685 | 7,306 | 18,873 | 2,728 | 8,910 |
| Serenje | 79,567 | 50,013 | 9,927 | 12,586 | 7,814 | 23,115 | 1,600 | 10,503 |
| Total | 551,843 mt | 289,336 mt | 49,747 hhs | 70,800 Mt | 34,853 hhs | 104,203 mt | 12,298 hhs | 114,332 mt |

Maize Production and Expected Sales Districts of Copperbelt Province

| District | Production mt | Total Expected Sales mt | Type A S/M HH (0 - 2 ha) | | Type B S/M HH (> 2 – 5 ha) | | Type C S/M HH (> 5 – 20 ha) | |
|---------------|-------------------|-------------------------------|-------------------------------|----------------------|---------------------------------|----------------------|----------------------------------|----------------------|
| | | | # HHs to Sell | Total mt to Sell | # HHs to Sell | Total mt to Sell | # HHs to Sell | Total mt to Sell |
| Chililabombwe | 5,866 | 2,347 | 1,245 | 1,139 | 232 | 641 | 118 | 1,055 |
| Chingola | 13,987 | 6,574 | 3,367 | 4,168 | 851 | 1,784 | 199 | 995 |
| Kalulushi | 9,155 | 3,955 | 1,319 | 1,502 | 460 | 1,645 | 149 | 1,388 |
| Kitwe | 6,366 | 2,322 | 1,679 | 1,363 | 416 | 723 | 34 | 341 |
| Luanshya | 6,647 | 1,955 | 1,506 | 1,295 | 412 | 631 | 45 | 90 |
| Lufwanyama | 25,837 | 10,415 | 3,148 | 2,801 | 1,576 | 2,865 | 780 | 7,675 |
| Masaiti | 47,387 | 20,709 | 9,169 | 10,520 | 1,844 | 4,817 | 741 | 8,875 |
| Mpongwe | 45,748 | 25,681 | 6,568 | 11,165 | 2,379 | 8,214 | 485 | 8,305 |
| Mufulira | 5,359 | 1,624 | 1,336 | 1,010 | 218 | 548 | 8 | 136 |
| Ndola | 15,664 | 5,726 | 2,556 | 2,014 | 995 | 1,965 | 333 | 3,360 |
| Total | 182,016 mt | 81,307 mt | 31,894 hhs | 36,978 mt | 9,388 hhs | 23,833 mt | 2,891 hhs | 20,495 mt |

Maize Production and Sales Districts of Eastern Province

| District | Production mt | Total Expected Sales mt | Type A S/M HH (0 - 2 ha) | | Type B S/M HH (> 2 – 5 ha) | | Type C S/M HH (> 5 – 20 ha) | |
|--------------|-------------------|-------------------------------|-------------------------------|----------------------|---------------------------------|------------------------|----------------------------------|----------------------|
| | | | # HHs to Sell | Total mt to Sell | # HHs to Sell | Total mt to Sell | # HHs to Sell | Total mt to Sell |
| Chadiza | 36,914 | 12,219 | 3,523 | 2,361 | 2,893 | 6,147 | 651 | 3,711 |
| Chama | 15,435 | 1,647 | 1,672 | 1,104 | 207 | 438 | 23 | 104 |
| Chipata | 149,704 | 45,816 | 12,921 | 8,919 | 9,641 | 20,700 | 1,839 | 16,198 |
| Katete | 53,668 | 12,247 | 2,861 | 1,656 | 3,420 | 5,659 | 1,008 | 4,931 |
| Lundazi | 116,157 | 33,050 | 7,555 | 6,750 | 8,605 | 13,932 | 2,924 | 12,369 |
| Mambwe | 12,415 | 2,146 | 1,495 | 575 | 594 | 1,069 | 166 | 502 |
| Nyimba | 28,933 | 11,285 | 4,519 | 3,857 | 2,603 | 5,342 | 367 | 2,086 |
| Petauke | 118,585 | 41,525 | 11,127 | 14,452 | 6,642 | 12,108 | 2,085 | 14,965 |
| Total | 531,810 mt | 159,934 mt | 45,673 hhs | 39,674 mt | 34,605 hhs | 65,394 mt | 9,064 hhs | 54,866 mt |

Maize Production and Sales Districts of Luapula

| District | Production mt | Total Expected Sales mt | Type A S/M HH (0 - 2 ha) | | Type B S/M HH (> 2 – 5 ha) | | Type C S/M HH (> 5 – 20 ha) | |
|--------------|------------------|-------------------------------|-------------------------------|----------------------|---------------------------------|------------------------|----------------------------------|---------------------|
| | | | # HHs to Sell | Total mt to Sell | # HHs to Sell | Total mt to Sell | # HHs to Sell | Total mt to Sell |
| Chienge | 7,160 | 2,997 | 3,925 | 1,506 | 1,186 | 1,317 | 174 | 173 |
| Kawambwa | 26,977 | 15,038 | 8,195 | 6,514 | 3,807 | 7,714 | 191 | 810 |
| Mansa | 17,680 | 9,193 | 6,702 | 3,787. | 3,540 | 3,469 | 501 | 1,937 |
| Milenge | 3,070 | 1,734 | 603 | 300 | 767 | 1,268 | 63 | 166 |
| Mwense | 4,386 | 1,238 | 1,260 | 538. | 373 | 673 | 70 | 28 |
| Nchelenge | 6,165 | 2,541 | 2,831 | 949. | 1,211 | 1,187 | 377 | 404 |
| Samfya | 2,481 | 769 | 1,430 | 383 | 359 | 233 | 115 | 152 |
| Total | 67,919 mt | 33,509 mt | 24,946 hhs | 13,979 mt | 11,242 hhs | 15,861 mt | 1,491 hhs | 3,669 mt |

Maize Production and Sales Districts of Lusaka Province

| District | Production mt | Total Expected Sales mt | Type A S/M HH (0 - 2 ha) | | Type B S/M HH (> 2 – 5 ha) | | Type C S/M HH (> 5 – 20 ha) | |
|--------------|------------------|-------------------------------|-------------------------------|----------------------|---------------------------------|------------------------|----------------------------------|---------------------|
| | | | # HHs to Sell | Total mt to Sell | # HHs to Sell | Total mt to Sell | # HHs to Sell | Total mt to Sell |
| Chongwe | 42,299 | 17,071 | 6,098 | 5,847 | 2,563 | 7,381 | 359 | 3,842 |
| Kafue | 42,068 | 13,094 | 4,097 | 6,250 | 713 | 3,782 | 396 | 3,062 |
| Luangwa | 938 | 63 | 140 | 61 | 8 | 2 | . | .0 |
| Lusaka | 4,281 | 1,973 | 170 | 289 | 90 | 681 | 81 | 1,003 |
| Total | 89,586 mt | 32,201 mt | 10,505 hhs | 12,447 mt | 3,374 hhs | 11,846 mt | 836 hhs | 7,907 mt |

Maize Sales – Districts Northern Province

| District | Production mt | Total Expected Sales mt | Type A S/M HH (0 - 2 ha) | | Type B S/M HH (> 2 – 5 ha) | | Type C S/M HH (> 5 – 20 ha) | |
|--------------|-------------------|-------------------------|----------------------------|------------------|------------------------------|------------------|-------------------------------|------------------|
| | | | # HHs to Sell | Total mt to Sell | # HHs to Sell | Total mt to Sell | # HHs to Sell | Total mt to Sell |
| Chilubi | 1,884 | 1,392 | 929 | 613 | 204 | 713 | 33 | 65 |
| Chinsali | 27,579 | 16,591 | 6,532 | 7,786 | 2,686 | 5,706 | 564 | 3,099 |
| Isoka | 37,620 | 20,059 | 7,656 | 8,091 | 5,209 | 8,598 | 774 | 3,370 |
| Kaputa | 5,512 | 3,239 | 4,489 | 1,790 | 1,281 | 1,242 | 115 | 206 |
| Kasama | 27,051 | 16,110 | 6,354 | 6,926 | 3,223 | 5,887 | 586 | 3,297 |
| Luwingu | 15,482 | 10,338 | 3,731 | 4,891 | 1,930 | 3,397 | 583 | 2,050 |
| Mbala | 66,385 | 31,349 | 5,391 | 5,903 | 10,219 | 17,459 | 3,223 | 7,987 |
| Mpika | 42,259 | 24,358 | 15,732 | 15,017 | 3,212 | 7,653 | 507 | 1,687 |
| Mporokoso | 13,379 | 6,527 | 2,586 | 1,128 | 4,902 | 4,215 | 744 | 1,185 |
| Mpulungu | 16,063 | 9,749 | 4,182 | 4,248 | 1,639 | 3,640 | 322 | 1,861 |
| Mungwi | 21,825 | 12,172 | 5,454 | 5,700 | 3,229 | 4,643 | 780 | 1,829 |
| Nakonde | 31,290 | 18,747 | 6,193 | 6,476 | 4,736 | 9,324 | 608 | 2,947 |
| Total | 306,330 mt | 170,631 mt | 69,230 hhs | 68,571 mt | 42,470 hhs | 72,477 mt | 8,839 hhs | 29,584 mt |

Maize Production and Sales

Districts of North Western Province

| District | Production mt | Total Expected Sales mt | Type A S/M HH (0 - 2 ha) | | Type B S/M HH (> 2 – 5 ha) | | Type C S/M HH (> 5 – 20 ha) | |
|--------------|-------------------|-------------------------------|-------------------------------|----------------------|---------------------------------|------------------------|----------------------------------|---------------------|
| | | | # HHs to Sell | Total mt to Sell | # HHs to Sell | Total mt to Sell | # HHs to Sell | Total mt to Sell |
| Chavuma | 3,874 | 1,153 | 1,691 | 1,035 | 81 | 83 | 50 | 35 |
| Kabompo | 16,769 | 7,568 | 6,026 | 3,924 | 2,142 | 2,900 | 186 | 744 |
| Kasempa | 22,927 | 13,056 | 4,830 | 5,091 | 1,905 | 5,678 | 247 | 2,287 |
| Mufumbwe | 15,492 | 7,571 | 3,732 | 2,595 | 2,140 | 3,654 | 340 | 1,322 |
| Mwinilunga | 16,916 | 10,632 | 8,426 | 6,852 | 2,561 | 3,601 | 134 | 179 |
| Solwezi | 45,616 | 20,914 | 10,971 | 9,870 | 3,687 | 6,775 | 412 | 4,269 |
| Zambezi | 7,643 | 2,002 | 2,528 | 915 | 700 | 1,045 | 91 | 42 |
| Total | 129,237 mt | 62,897 mt | 38,203 hhs | 30,283 mt | 13,216 hhs | 23,735 mt | 1,459 hhs | 8,879 mt |

Maize Production and Sales Districts of Southern Province

| District | Production mt | Total Expected Sales mt | Type A S/M HH (0 – 2 ha) | | Type B S/M HH (> 2 – 5 ha) | | Type C S/M HH (> 5 – 20 ha) | |
|--------------|-------------------|-------------------------------|-------------------------------|----------------------|---------------------------------|----------------------|----------------------------------|-----------------------|
| | | | # HHs to Sell | Total mt to Sell | # HHs to Sell | Total mt to Sell | # HHs to Sell | Total mt to Sell |
| Choma | 61,053 | 16,798 | 3,961 | 2,167 | 2,455 | 7,902 | 984 | 6,729 |
| Gwembe | 4,773 | 1,296 | 871 | 805 | 102 | 291 | 22 | 199. |
| Itezhi-tezhi | 22,447 | 10,683 | 760 | 628 | 1,362 | 2,890 | 680 | 7,166 |
| Kalomo | 186,343 | 93,423 | 5,695 | 11,183 | 7,879 | 32,103 | 4,555 | 50,136 |
| Kazungula | 35,351 | 18,220 | 1,482 | 1,296 | 2,486 | 8,589 | 1,115 | 8,335 |
| Livingstone | 1,670 | 501 | 103 | 124 | 45 | 158 | 64 | 219 |
| Mazabuka | 65,441 | 27,128 | 3,607 | 7,860 | 3,245 | 9,174 | 1,699 | 10,094 |
| Monze | 88,409 | 27,816 | 3,388 | 4,267 | 4,054 | 9,154 | 2,063 | 14,395 |
| Namwala | 58,834 | 26,935 | 4,392 | 6,108 | 4,062 | 11,560 | 1,523 | 9,268 |
| Siavonga | 2,759 | 230 | 154 | 89 | 92 | 49 | 60 | 93 |
| Sinazongwe | 14,426 | 3,134 | 497 | 726 | 723 | 1,638 | 183 | 770 |
| Total | 541,507 mt | 226,163 mt | 24,910 hhs | 35,250 mt | 26,505 hhs | 83,509 mt | 12,948 hhs | 107,404 mt |

Maize Production and Sales Districts of Western Province

| District | Production mt | Total Expected Sales mt | Type A S/M HH (0 - 2 ha) | | Type B S/M HH (> 2 – 5 ha) | | Type C S/M HH (> 5 – 20 ha) | |
|--------------|------------------|-------------------------------|-------------------------------|---------------------|---------------------------------|------------------------|----------------------------------|---------------------|
| | | | # HHs to Sell | Total mt to Sell | # HHs to Sell | Total mt to Sell | # HHs to Sell | Total mt to Sell |
| Kalabo | 6,470 | 222 | 230 | 88 | 241 | 68 | 107 | 66 |
| Kaoma | 29,374 | 6,040 | 2,643 | 1,373 | 1,426 | 2,477 | 569 | 2,190 |
| Lukulu | 4,239 | 506 | 2,357 | 430 | 231 | 53 | 245 | 23 |
| Mongu | 8,836 | 873 | 1,147 | 392 | 326 | 219 | 171 | 262 |
| Senanga | 10,088 | 326 | 202 | 5. | 225 | 96 | 294 | 224 |
| Sesheke | 21,041 | 5,871 | 3,415 | 1,959 | 3,796 | 3,147 | 606 | 765 |
| Shang'ombo | 8,756 | 1,210 | 519 | 86 | 544 | 200 | 246 | 925 |
| Total | 88,804 mt | 15,048 mt | 10,514 hhs | 4,334 mt | 6,790 hhs | 6,260 mt | 2,238 hhs | 4,454 mt |