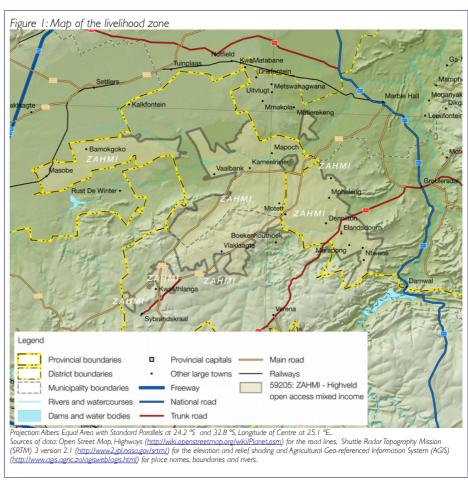
# South Africa Livelihood Zone Profile

59205 - Highveld Open Access Mixed Income (ZAHMI)

## Zone Description

The livelihood zone is characterised by variations in relief, climate and vegetation. It covers Fertile Areas of

Groblersdal, Marble Hall and the livestock producing areas of Rust De Winter and KwaMhlanga. The undulating grassy plains of the Highveld give way to the lower-lying Bushveld areas and the mountainous terrain dissected by the Olifants River. Soils are fertile: they are heavy greyish and red alluvial duplex soils, well drained and falling in the Hutton form, ranging from a Shorrocks series to a Makhatini series (the clay contents range from 15 to 35%). Rainfall is seasonal, and is distributed mostly in the summer months between November and April, while the winters generally cool and dry. The Loskop, Arabie, Rust de Winter and Mkhombo Dams are important reservoirs for



water in the livelihood zone. The areas within the catchment of the Olifants River have abundant surface and ground water supplies for commercial irrigation, tourism, industrial and domestic uses.

Major roads such as N11, R568, R573 and R25 connect areas in the zone to commercial centres of Marble Hall,

Table I - 2016 Population breakdown of districts and municipalities covered by the livelihood zone, based on the 2011 Census and annual projections

Province District		in ZAHMI	% of Admin Level		
Greater	Elias Motsoaledi	86,273	31.65%		
Sekhukhune	Ephraim Mogale	4,244	4.39%		
Provincial Total					
	Dr J.S. Moroka	168,180	60.56%		
	Thembisile	218,009	63.12%		
Provincial Total					
\	Sekhukhune	Sekhukhune Ephraim Mogale  Dr J.S. Moroka Thembisile	Sekhukhune Ephraim Mogale 4,244  90,517  Dr J.S. Moroka 168,180		

Siyabuswa, KwaMhlanga, Bronkhorstspruit, Groblersdal, eMalahleni and Middelburg. The

livelihood zone is only 70-130 km away from Pretoria (via the Moloto Road)

Figure 1 is a map of the zone and

Figure 2 shows the location.

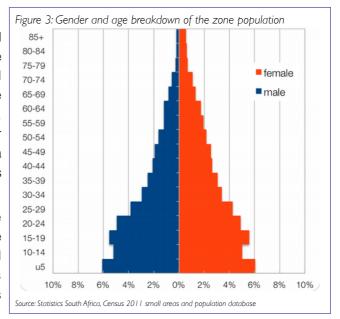


The livelihood zone has been given an alphabetic code (or abbreviation) of 'ZAHMI' and a numeric code of 59205. These codes distinguish the zone both nationally and internationally, as well as allowing zone name changes and updates if desired (the code should

always remain the same).

The zone spans four municipalities in two districts and two provinces. However, not all of each of the municipalities are included in the zone; substantial areas and populations from each municipality are excluded. The zone population is 90,517 in Limpopo, which is 1.55% of the provincial total, and 386,189 or 8.86% of the provincial total in Mpumalanga (extrapolated from the 2011 Census). **Table I** shows the breakdown for each municipality.

The age and gender breakdown of the livelihood zone is given in **Figure 3**. This pyramid does not display the usual low proportions of adult men in the livelihood zone that is found in many other zones. This is because, being in relatively close proximity to the cities of Gauteng, there is less migration of younger men.



## Seasonal Calendar

	Activity	Who?	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
Maize	(Land Preparation)	Both		+										
	(Planting)	Both												
	(Weeding)	Both												
	(Green Consumption)	Female												
	(Dry Harvest)	Both												
Sunflower	(Land Preparation)	Male												
	(Planting)													
	(Weeding)	Both												
	(Dry Harvest)	Male												
Beans	(Land Preparation)	Both												
	(Planting)	Both												
	(Weeding)	Both												
	(Dry Harvest)	Both												
Vegetables	,	Female												
Casual Labour	(Crop Fields)	Both												
	(Domestic Work)	Female												
	(Herding)	Male												
	(Public Work)	Both												
Off-Farm Emplo	oyment	Both												
Livestock	(Heat and Birth)													
Livestock Sales	,	Male												
Purchases	(Low Prices)													
	(High Prices)													
Labour Migratio	on	Both												
Annual Hunger														

This zone is adjacent to the well-known extensive irrigated farming of the Loskop Valley. There are numerous lush crops such as wheat, cotton, sunflower as well as citrus play a very important role in the country's economy. Groblersdal is South Africa's second largest irrigation settlement. As you enter this area, you will spot the flood plains of cotton, tobacco, table grapes, citrus fruit, maize, wheat, vegetables, sunflower seeds, peanuts, peaches as well as Lucerne.

#### Wealth Breakdown

Wealth in this livelihood zone is determined primarily by three factors:

1. Primarily formal (salaried) employment, the result of education and good social connections;

- 2. Ownership of a business, such as a spaza shop or bakkie, taxi; and
- 3. Livestock, especially cattle.

Land ownership is similar for all households and land use is mostly residential, despite the good soils and rainfall that is available.

'Better off'

3-5 (4)

1/2-6 (1/2)

0-5 (0)

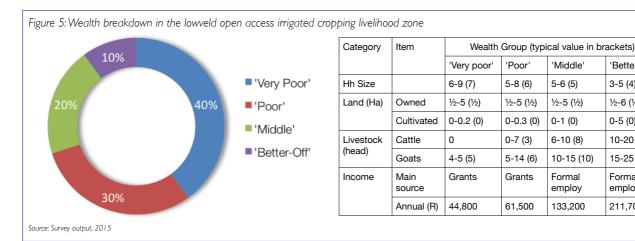
10-20 (15)

15-25 (20)

Formal

emplov

211,700



The wealthiest households, described as the 'better-off', are those with permanent work or a good business that earns around R18,000 per month, while those with lower incomes of around R5,000 to R12,000 per month are referred to as 'middle'. Households that have lower-wage, casual or seasonal work depend for their cash income primarily on grants and are described as the 'poor' and 'very poor', they collectively make up 70% of the population.

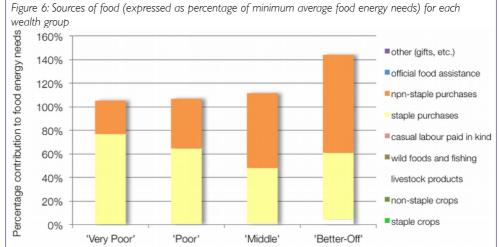
Interview key informants in the villages tended to provide larger household sizes because they lumped smaller households or households with lone members into larger family units. This explains why the household sizes given in Figure 5 are larger than those in the census. This grouping of households also reflects an element of family sharing, where social grants or wage incomes may be shared among two or three 'actual households'.

### Sources of Food

This zone is well known for its rather extensive irrigation farming where numerous lush crops such as wheat, cotton, sunflower as well as citrus play a very important role in the country's economy. Groblersdal is South

Africa's second largest irrigation settlement. As you enter this area, you will spot the floodplains of cotton, tobacco, table grapes, citrus fruit, wheat, maize, vegetables, sunflower seeds, peanuts, peaches as well as Lucerne.

Despite the crop farming, purchases still make up the largest portion



people's sources of food. Food purchases contribute above 75% of food sources for all households in the zone. The contribution to food energy from staple food purchase increases steadily from 58% for the 'very poor' to 86% for 'better off' households.

The contribution to food energy from non-staple food purchases increases from 25% of energy requirements for the 'poor' to 47% for the 'better off'. The average contribution to food energy for staple crops is 5% for all wealth groups. Food energy from consumption of livestock products such as milk and slaughtered livestock meat contributes less than 10% for all wealth groups.

The 'poor', 'middle' and 'better off' households also obtain food from their livestock products; this is from occasional slaughter for meat. There are challenges relating to lack of infrastructure and minimal herd management in the zone.

The 'poor', 'middle' and 'better off' households obtain food from their livestock; this is from occasional slaughter for meat and, for the 'middle' and 'better off', from cow's milk as well. Dairy production in this zone is not commensurate with herd sizes and livestock ownership. In general, a fraction of lactating cows (about one out of every three) are actually milked for consumption.

## Sources of Cash Income

Cash incomes vary considerably across wealth groups, with the 'better off' earning R211,700 per annum, more than four times as much as the 'very poor', who earn only R44,800 per annum. **Figure 7** shows this distribution

-it must be noted Figure 7: Sources of annual cash income by wealth group that the bars in the 250000 other (wild food sales, fishing, etc) figure are not informal cash transfers (incl gifts, quartiles, they 200000 remittances) formal cash transfers represent wealth small business groups and wealth 150000 self-employment (e.g. collecting, groups not distributed formal employment evenly 100000 Wealth (see casual labour Breakdown, above). livestock sales 50000 Income in this zone is livestock product sales sourced mostly 0 crop sales 'Very Poor' 'Poor 'Middle 'Better-Off' through formal cash transfers, self-Figure 8: Sources of annual cash income as a percentage of total, by wealth group employment 100% other (wild food sales, fishing, etc) (firewood collection is 90% informal cash transfers (incl gifts, popular), casual and remittances) 80% formal cash transfers seasonal agriculture ₽ 70% labour, small business % small business 60% as and formal self-employment (e.g. collecting, 50% Sash income employment. 40% ■formal employment Livestock sales bring 30% casual labour in small amounts of 20% livestock sales 10% extra income for the livestock product sales 0% 'poor' 'middle' and 'Very Poor' 'Poor' 'Middle' 'Better-Off' crop sales 'better-off'.

Households living on

the eastern side of the zone benefit from casual or seasonal agricultural on the high production farms of the Loskop Valley, while households living on the western side are more likely to work temporarily in the cities of Gauteng or to receive remittances from relatives there.

Understanding how incomes *add up* is essential because it enables practitioners to link a hazard (such as a price change) to outcomes and it points to potential areas of intervention. By dividing the value of each source of cash income by the total, we can see the proportions for each wealth group and this is presented in the graph in **Figure 8**.

For the 'very poor' and 'poor', grants make up 47% and 31% of total cash income, respectively; they also receive assistance from the state through the Extended Public Works Programme (EPWP), which increases the state-funded contribution to their incomes to 50% for both wealth groups. The remainder of their cash comes from casual labour (mostly domestic work and agricultural piece work), self-employment (collecting firewood with donkey carts, etc.), and informal cash transfers (usually remittances).

The 'middle' and 'better off' gain their wealth from a formal wage or salary for the better part of their income. Some 'middle' households may have a member that works seasonally on the commercial farms but earnings typically amount to almost R66,000 per annum, while the 'better off', who may have more permanent work, earn around R100,000 to R300,000 per annum (median R144,000). Households with established businesses also tend to be 'better-off', as these businesses bring in around R100,000 to R300,000 per annum as well (median R144,000), similar to fixed employment. 'Middle' and 'better off' households also gain cash from crop and livestock sales, highlighting potential for farming as proper livelihood, although their earnings are far short of their income expectations. The 'middle' and 'better off' also benefit from grants (for example, the old age and fostering grants are not means-tested and the probability of a household having a pensioner in it is about one in two—see the population pyramid under **Zone Description**).

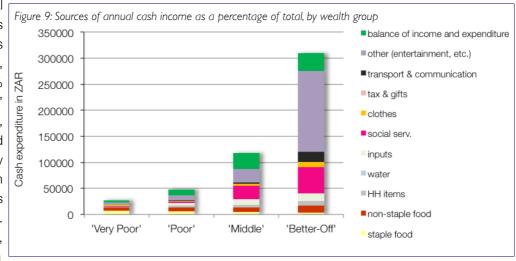
The numbers of cows that are actually milked compared with those likely to be lactating, is low. This is due to a number of factors: lack of economic incentives for milking, lack of time by the cattle-owners (because they are full-time employed) and minimal herd management.

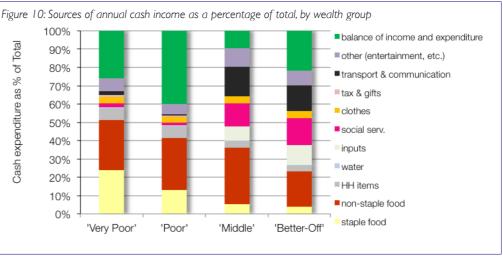
## Expenditure

Staple and non-staple foodstuffs are the biggest expenses for 'very poor' households, accounting for 51% of

their annual expenditure. This proportion decreases with increasing wealth, 41%, 36% and 23% for the 'poor', 'middle' and 'better-off', respectively. Food quality, reflected by the amounts spent on non-staples, increases with increasing wealth. Unlike in other zones, little is spent inputs, except that the 'middle' and 'betteroff' spend a small amount (about 8-11% of the total) livestock drugs and veterinary services, as well as labour.

'Middle' and 'betteroff' households try and have their children educated at a tertiary level (university





or college) and this places a substantial financial burden on the households. 'Poor' and 'very poor' households, on the other hand, send their children to free schools and are not able to afford tertiary education.

'Middle' and 'better-off' households also travel more, with the former using paid public transport and the latter servicing and fueling their own private vehicle.

All households in this livelihood zone are obliged to purchase water, with the 'middle' and 'better-off' purchasing and spending twice as much. The total cost of water is nevertheless not too significant: about R360 per annum for the poorer households and R720 per annum for the wealthier households.

The balance of income and expenditure can be used for households to invest in livestock, improve their dwellings and may also be invested in cropping if there were incentives. For now, households prefer to concentrate their efforts on seeking paid employment.

# Hazards, Vulnerabilities and Response Strategies

The most reported hazards in this zone include drought, intermittent flooding and frost. Since households are dependent on markets for most of their food, households are most vulnerable to market-related shocks. These 'market shocks' may consist of: escalating food prices, eroded grants which might not be adjusted to match consumer inflation) and job losses. Wealthy groups are able to sell their produce and livestock for better prices compared to the other wealth groups.

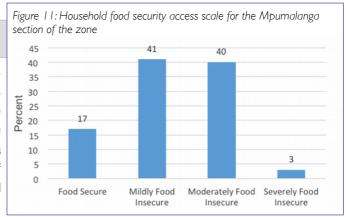
Drought, frost and wind may have an impact, as it will reduce crop and livestock production and affect this source of food and income. However, unless food prices also rise simultaneously, households will manage crop losses by prioritising more cash to food purchases. Some of the main challenges in the zone also include livestock theft and livestock diseases.

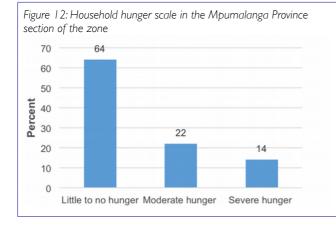
Additional response strategies households may engage in under stress are: switching expenditure, selling off

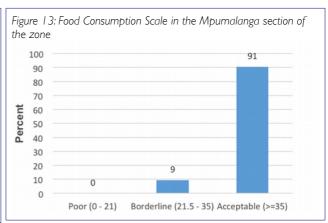
assets and casual labour.

# Household Hunger Score

The majority (41 per cent) of the households in this Livelihood Zone were mildly food insecure. This was followed by 40 per cent of the households who were found to be moderately food insecure. Only three per cent of the households were found to be in a severe state of food insecurity. About 17 per cent of the households were food secure in this livelihood zone.







# Dietary Diversity and Food Consumption Score

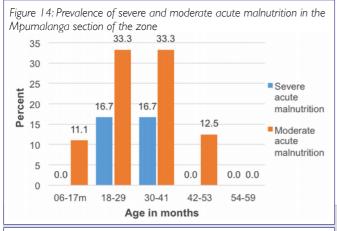
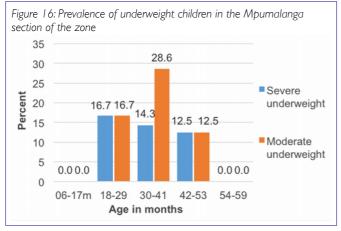


Figure 15: Prevalence of stunting in the Mpumalanga section of the zone 33.3 33.3 35 28.6 30 25.0 22.2 25 Severe Percent stunting 20 16.7 Moderate 15 stunting 10 5 0.0 0.0 0.0 0.0 0 06-17m 18-29 30-41 42-53 54-59 Age in months



The majority of the households (64 percent) experience no to little hunger and 14 per cent of households had severe hunger in this livelihood zone. Only 22 per cent of the households reported a moderate hunger situation – see **Figure 12**.

The majority of households—91 per cent—were consuming acceptable diets. While nine per cent of the households were within borderline consumption pattern, no households were consuming poor diets in this livelihood zone.

# Nutrition and Anthropometry

In general, the under-five children of all age groups were moderately acutely malnourished. moderate acute malnutrition is predominant in the 18-29 and 30-41months old under-five children of the livelihood zone (**Figure 14**). About 17 per cent of the under-five children in the age group of 18-29 and 30-41 months old were severely acutely malnourished. There was no under-five children within the age groupings of 54-59 months old.

There is a high prevalence of severe stunting among under-five children within 18-29 months old and moderate stunting among under-five children of 6-17 months old (**Figure 15**). While about 29 per cent of the under-five children in age groupings of 30-41 months old were moderately malnourished, no under-five children in the age groupings 42-53 and 54-59 months old were moderately malnourished. No severe stunting was observed in age groups of 30-41 and 54-59 months old in this livelihood zone.

No under-five children were found to be having severe and moderate underweight in the age groupings of 6-17 and 54-59 months old. Moderate

underweight was more predominant in the age group 30-41 months old while severe underweight was more predominant in the age group of 18-29 months old.

#### Conclusions and Recommendations

As it has been seen that the zone has mixed income sources, key to the development will be to improve the access to government services so that the people have diversified means of income. Agriculture has a huge potential in the zone as there are a number of dams which can provide stable source of water if the irrigation schemes are put in place. Livestock farming could thrive in the areas around Dr JS Moroka Municipality, but will need veld management to control bush encroachment.

Poor people will continue to depend on grants and remittances for the foreseeable future but investments in agriculture and education will raise employment rates and wages.

