

**LSMS - INTEGRATED SURVEYS ON AGRICULTURE
UNITED REPUBLIC OF TANZANIA: INPUT APPENDIX**

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Appendix: LSMS-ISA: Inputs

The tables below provide the details for analysis done in EPAR Brief #179, including 95% confidence intervals, the number of observations, and p-values where available.

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National Input Use Rates

National Proportion of Households Using Agricultural Inputs			
Input Type	Estimated Proportion	95% C.I.	Observations
Organic Fertilizer	22%	[19%, 25%]	431 out of 2216
Inorganic Fertilizer	13%	[10%, 16%]	305 out of 2216
Pesticides, Herbicides, or Fungicides	15%	[12%, 17%]	329 out of 2216
IV Seed	22%	[19%, 24%]	429 out of 2140

Zonal Input Use Rates

Proportion of Households Using Organic fertilizer by Zone

Zone	Estimated Proportion	95% C.I.	Observations
Central	33%	[23%, 44%]	44 out of 134
Eastern	5%	[2%, 7%]	17 out of 173
Southern Highlands	24%	[17%, 32%]	78 out of 336
Lake	22%	[15%, 28%]	52 out of 240
Northern	34%	[24%, 44%]	114 out of 324
Southern	8%	[4%, 11%]	34 out of 438
Western	22%	[17%, 27%]	66 out of 317
Zanzibar	11%	[6%, 16%]	26 out of 254

Proportion of Households Using Improved Seeds by Zone

Zone	Estimated Proportion	95% C.I.	Observations
Central	19%	[9%, 28%]	26 out of 134
Eastern	20%	[14%, 26%]	35 out of 168
Southern Highlands	19%	[13%, 25%]	61 out of 331
Lake	20%	[13%, 26%]	44 out of 232
Northern	39%	[30%, 47%]	124 out of 319
Southern	9%	[6%, 12%]	41 out of 414
Western	22%	[16%, 28%]	66 out of 313
Zanzibar	14%	[8%, 19%]	32 out of 229

Proportion of Households Using Inorganic fertilizer by Zone

Zone	Estimated Proportion	95% C.I.	Observations
Central	6%	[-2%, 13%]	8 out of 134
Eastern	5%	[0%, 11%]	10 out of 173
Southern Highlands	34%	[24%, 43%]	118 out of 336
Lake	1%	[0%, 2%]	3 out of 240
Northern	15%	[6%, 23%]	46 out of 324
Southern	18%	[10%, 25%]	73 out of 438
Western	7%	[3%, 12%]	25 out of 317
Zanzibar	8%	[4%, 12%]	22 out of 254

Proportion of Households Using Pesticides, Herbicides or Fungicides by Zone

Zone	Estimated Proportion	95% C.I.	Observations
Central	6%	[-2%, 13%]	8 out of 134
Eastern	5%	[0%, 11%]	19 out of 173
Southern Highlands	34%	[24%, 43%]	74 out of 336
Lake	1%	[0%, 2%]	18 out of 240
Northern	15%	[6%, 23%]	70 out of 324
Southern	18%	[10%, 25%]	88 out of 438
Western	7%	[3%, 12%]	43 out of 317
Zanzibar	8%	[4%, 12%]	9 out of 254

Regional Input Use Rates

Proportion of Households Using Organic Fertilizer by Region			
Region	Estimated Proportion	95% C.I.	Observations
Manyara	37%	[13%, 61%]	24 out of 62
Arusha	26%	[12%, 41%]	17 out of 64
Kilimanjaro	54%	[38%, 70%]	54 out of 99
Tanga	18%	[2%, 34%]	19 out of 99
Tabora	16%	[8%, 25%]	16 out of 102
Kigoma	15%	[6%, 23%]	13 out of 93
Shinyanga	31%	[24%, 38%]	37 out of 122
Morogoro	2%	[-1%, 4%]	2 out of 88
Pwani	6%	[0%, 12%]	3 out of 49
Dar es Salaam	34%	[15%, 54%]	12 out of 36
Kagera	18%	[7%, 29%]	20 out of 110
Mwanza	22%	[14%, 31%]	20 out of 88
Mara	29%	[19%, 39%]	12 out of 42
Iringa	27%	[16%, 38%]	30 out of 116
Mbeya	25%	[12%, 37%]	33 out of 140
Rukwa	21%	[4%, 38%]	15 out of 80
Singida	44%	[27%, 62%]	21 out of 47
Dodoma	28%	[15%, 41%]	23 out of 87
North Zanzibar	10%	[0%, 20%]	6 out of 60
Urban West Zanzibar	10%	[5%, 16%]	4 out of 38
North Pemba	9%	[0%, 18%]	6 out of 65
South Pemba	2%	[-1%, 4%]	1 out of 70
Lindi	3%	[0%, 5%]	4 out of 137
Mtwara	6%	[3%, 10%]	12 out of 168
Ruvuma	13%	[5%, 20%]	18 out of 133

Proportion of Households Using IV Seed by Region			
Region	Estimated Proportion	95% C.I.	Observations
Manyara	24%	[6%, 42%]	15 out of 62
Arusha	41%	[25%, 57%]	27 out of 64
Kilimanjaro	61%	[50%, 71%]	50 out of 96
Tanga	24%	[10%, 38%]	24 out of 97
Tabora	24%	[14%, 34%]	24 out of 101
Kigoma	5%	[0%, 10%]	4 out of 90
Shinyanga	32%	[24%, 40%]	38 out of 122
Morogoro	16%	[12%, 19%]	14 out of 88
Pwani	30%	[17%, 43%]	14 out of 48
Dar es Salaam	23%	[5%, 40%]	7 out of 32
Kagera	5%	[0%, 10%]	6 out of 108
Mwanza	35%	[25%, 46%]	30 out of 86
Mara	21%	[10%, 31%]	8 out of 38
Iringa	19%	[8%, 30%]	22 out of 112
Mbeya	24%	[14%, 33%]	31 out of 139
Rukwa	9%	[1%, 16%]	8 out of 80
Singida	25%	[6%, 45%]	12 out of 47
Dodoma	16%	[6%, 26%]	14 out of 87
North Zanzibar	15%	[4%, 26%]	10 out of 61
Urban West Zanzibar	12%	[4%, 20%]	4 out of 30
North Pemba	9%	[2%, 16%]	5 out of 56
South Pemba	23%	[9%, 36%]	13 out of 64
Lindi	14%	[9%, 19%]	19 out of 136
Mtwara	10%	[4%, 16%]	16 out of 147
Ruvuma	4%	[1%, 8%]	6 out of 131

Proportion of Households Using Inorganic Fertilizer by Region			
Region	Estimated Proportion	95% C.I.	Observations
Manyara	0	-	0 out of 62
Arusha	11%	[-6%, 28%]	6 out of 64
Kilimanjaro	32%	[14%, 49%]	31 out of 99
Tanga	8%	[-6%, 22%]	9 out of 99
Tabora	15%	[3%, 26%]	14 out of 102
Kigoma	6%	[-1%, 12%]	6 out of 93
Shinyanga	4%	[-1%, 8%]	5 out of 122
Morogoro	3%	[0%, 7%]	3 out of 88
Pwani	9%	[-8%, 27%]	4 out of 49
Dar es Salaam	8%	[1%, 16%]	3 out of 36
Kagera	1%	[-1%, 19%]	1 out of 110
Mwanza	2%	[-2%, 5%]	2 out of 88
Mara	0%	-	0 out of 42
Iringa	49%	[33%, 64%]	61 out of 116
Mbeya	33%	[18%, 49%]	47 out of 140
Rukwa	11%	[-1%, 22%]	10 out of 80
Singida	17%	[-3%, 37%]	8 out of 47
Dodoma	0%	-	0 out of 87
North Zanzibar	8%	[-2%, 18%]	5 out of 60
Urban West Zanzibar	7%	[0%, 14%]	3 out of 38
North Pemba	5%	[1%, 10%]	4 out of 65
South Pemba	13%	[5%, 20%]	9 out of 70
Lindi	4%	[1%, 6%]	5 out of 137
Mtwara	7%	[2%, 12%]	13 out of 168
Ruvuma	40%	[23%, 56%]	55 out of 133

Proportion of Households Using Pesticide, Herbicide or Fungicide by Region			
Region	Estimated Proportion	95% C.I.	Observations
Manyara	12%	[5%, 18%]	7 out of 62
Arusha	23%	[9% ,37%]	14 out of 64
Kilimanjaro	40%	[28%,51%]	39 out of 99
Tanga	9%	[-3%, 21%]	10 out of 99
Tabora	19%	[7%, 31%]	20 out of 102
Kigoma	4%	[0%, 9%]	4 out of 93
Shinyanga	15%	[7%, 22%]	19 out of 122
Morogoro	8%	[0%, 17%]	7 out of 88
Pwani	22%	[7%, 36%]	10 out of 49
Dar es Salaam	7%	[-3%, 16%]	2 out of 36
Kagera	4%	[0%, 9%]	5 out of 110
Mwanza	6%	[-1%, 13%]	6 out of 88
Mara	16%	[-1%, 32%]	7 out of 42
Iringa	32%	[19%,45%]	37 out of 116
Mbeya	20%	[9%, 31%]	29 out of 140
Rukwa	11%	[-4%, 26%]	8 out of 80
Singida	17%	[0%, 34%]	8 out of 47
Dodoma	0%	-	0 out of 87
North Zanzibar	5%	[0%, 9%]	3 out of 60
Urban West Zanzibar	6%	[0%, 12%]	2 out of 38
North Pemba	0%	-	0 out of 65
South Pemba	5%	[-1%, 11%]	3 out of 70
Lindi	19%	[9%, 28%]	27 out of 137
Mtwara	26%	[18%, 34%]	44 out of 168
Ruvuma	14%	[1%, 26%]	70 out of 133

Proportion of Households Using Pesticide, Herbicide, Fungicide, or any Fertilizer by Region			
Region	Estimated Proportion	95% C.I.	Observations
Manyara	42%	[19%, 65%]	27 out of 62
Arusha	38%	[21%, 55%]	24 out of 64
Kilimanjaro	75%	[63%, 87%]	74 out of 99
Tanga	21%	[3%, 38%]	22 out of 99
Tabora	38%	[25%, 51%]	38 out of 102
Kigoma	18%	[8%, 28%]	17 out of 93
Shinyanga	39%	[31%, 47%]	48 out of 122
Morogoro	12%	[4%, 21%]	11 out of 88
Pwani	25%	[12%, 39%]	12 out of 49
Dar es Salaam	38%	[20%, 56%]	13 out of 36
Kagera	19%	[7%, 32%]	22 out of 110
Mwanza	24%	[15%, 34%]	22 out of 88
Mara	38%	[24%, 52%]	16 out of 42
Iringa	65%	[51%, 79%]	77 out of 116
Mbeya	51%	[35%, 68%]	71 out of 140
Rukwa	35%	[13%, 57%]	27 out of 80
Singida	57%	[39%, 76%]	27 out of 47
Dodoma	28%	[14%, 42%]	23 out of 87
North Zanzibar	20%	[6%, 33%]	12 out of 60
Urban West Zanzibar	14%	[5%, 24%]	6 out of 38
North Pemba	12%	[4%, 21%]	9 out of 65
South Pemba	17%	[8%, 26%]	12 out of 70
Lindi	21%	[12%, 31%]	31 out of 137
Mtwara	31%	[23%, 40%]	54 out of 168
Ruvuma	53%	[35%, 71%]	72 out of 133

Proportion of households using input in the “breadbasket” of Tanzania(Mbeya, Iringa, Ruvuma) Maize			
Input Type	Estimated Proportion	95% C.I.	Observations
Organic Fertilizer	23%	[16%,30%]	81 out of 389
Inorganic Fertilizer	40%	[30%,49%]	163 out of 389
Pesticides, Herbicides, or Fungicides	22%	[15%,30%]	83 out of 389
IV Seed	18%	[12%,24%]	59 out of 382

Input Use by Crop

Proportion of Plots Using IV Seed by Crop			
Region	Estimated Proportion	95% C.I.	Observations
Maize	16%	[13%, 19%]	299 out of 1995
Cassava	5%	[1%, 8%]	14 out of 305
Paddy	5%	[2%, 8%]	29 out of 532
Sorghum	5%	[0%, 9%]	11 out of 329
Cowpeas	5%	[1%, 9%]	9 out of 147
Millet	3%	[-2%, 8%]	3 out of 116
Groundnut	2%	[1%, 4%]	11 out of 363
Sweet Potatoes	1%	[0%, 3%]	3 out of 225
Beans	2%	[1%, 3%]	11 out of 609

Proportion of Plots Applied with Inputs By Crop (Long Rainy Season) Maize			
Input Type	Estimated Proportion	95% C.I.	Observations
Organic Fertilizer	16%	[13%,18%]	238 out of 1607
Inorganic Fertilizer	16%	[12%,20%]	276 out of 1607
Pesticides, Herbicides, or Fungicides	11%	[7%,14%]	179 out of 1607

Proportion of Plots Applied with Inputs By Crop (Long Rainy Season) Paddy			
Input Type	Estimated Proportion	95% C.I.	Observations
Organic Fertilizer	5%	[1%,8%]	20 out of 487
Inorganic Fertilizer	9%	[4%,14%]	53 out of 487
Pesticides, Herbicides, or Fungicides	11%	[3%,19%]	38 out of 487

Proportion of Plots Applied with Inputs By Crop (Long Rainy Season) Cassava			
Input Type	Estimated Proportion	95% C.I.	Observations
Organic Fertilizer	6%	[2%,9%]	26 out of 669
Inorganic Fertilizer	1%	[0%,2%]	10 out of 669
Pesticides, Herbicides, or Fungicides	1%	[0%,3%]	9 out of 669

Maize Yield Analysis

Average and Median Plot Maize Yields by Input Use (Long Rainy Season)					
	Median Yield (t/ha)	Mean Yield (t/ha)	95% C.I.	Observations	Wald test P-value*
No Fertilizer or IV Seed	0.59	0.80	[0.74, 0.85]	1189 out of 1806	
Organic Fertilizer Only	0.95	1.20	[1.02, 1.37]	153 out of 1337	.0000
Inorganic Fertilizer Only	0.91	1.16	[0.94, 1.38]	167 out of 1351	.0019
IV Seed Only	0.62	0.89	[0.71, 1.07]	145 out of 1334	.3248
Organic Fertilizer and IV Seed	0.49	0.78	[0.51, 1.06]	40 out of 1806	
Inorganic Fertilizer and IV Seed	1.42	1.71	[1.12, 2.30]	55 out of 1806	

*Compared to plots with neither fertilizer nor IV seed in the same sample.

Expenditure on Inputs

Proportion of households that purchased input type			
Type of Input	Estimated Proportion	95% C.I.	Observations
Any input	66%	[63%, 69%]	1,357 out of 2219
Organic Fertilizer	4%	[3%, 5%]	87 out of 2216
Inorganic Fertilizer	13%	[10%, 16%]	305 out of 2216
Pesticides, Herbicides, Fungicides	15%	[12%, 17%]	329 out of 2216
Traditional Seeds	49%	[46%, 52%]	947 out of 2140
Improved Seeds	18%	[16%, 21%]	345 out of 2140

Median household expenditure for each input among those who purchased inputs		
Type of Input	Median Household Expenditure	Observations
All Inputs	\$10.43	1355
Organic Fertilizer	\$8.34	86
Inorganic Fertilizer	\$39.62	305
Pesticides, Herbicides, Fungicides	\$8.34	329
Traditional Seeds	\$7.01	246
Improved Seeds	\$7.51	345

Proportion of total value represented by each input				
Type of Input	Value of input (USD)	95% C.I.	Observations	Estimated Proportion of Value
All inputs	1.39E+08			100%
Organic Fertilizer	3.79E+06	[2.39E+06, 5.19E+06]	108	3%
Inorganic Fertilizer	7.20E+07	[4.4E+07, 1.0E+07]	487	52%
Pesticide, Herbicide, and Fungicide	1.76E+07	[1.33E+07, 2.18E+07]	488	13%
Traditional Seeds	3.23E+07	[2.68E+07, 3.79E+07]	632	23%
Improved Seeds	1.33E+07	[1.07E+07, 1.59E+07]	447	10%

Proportion of households that purchased inputs by zone			
Type of Input	Estimated Proportion	95% C.I.	Observations
All zones	66%	[63%, 69%]	1357 out of 2219
Central	59%	[47%, 71%]	77 out of 134
Eastern	70%	[61%, 80%]	116 out of 174
Southern Highlands	66%	[57%, 74%]	220 out of 336
Lake	64%	[57%, 71%]	155 out of 240
Northern	65%	[58%, 72%]	209 out of 324
Southern	60%	[54%, 67%]	262 out of 439
Western	80%	[74%, 85%]	249 out of 317
Zanzibar	27%	[21%, 33%]	69 out of 255

Descriptive Statistics for the 95th Percentile by Total Expenditure on Inputs

Five most common seasonal crops grown by households in the 95 th percentile			
In the 95th Percentile	Estimated Proportion	95% C.I.	Observations
Maize	96%	[91%, 100%]	69 out of 73
Beans	50%	[35%, 65%]	34 out of 73
Tobacco	34%	[14%, 54%]	22 out of 73
Groundnut	21%	[12%, 30%]	15 out of 73
Sunflower	19%	[9%, 30%]	12 out of 73

Proportion of household growing crops for those not in the 95th percentile			
Percentile	Estimated Proportion	95% C.I.	Observations
Maize	89%	[87%, 91%]	1092 out of 1282
Beans	39%	[34%, 43%]	447 out of 1282
Cassava	34%	[30%, 39%]	490 out of 1282
Groundnut	25%	[21%, 29%]	285 out of 1282
Paddy	20%	[16%, 24%]	283 out of 1282

Average household expenditure per hectare for those in and out the 95th percentile			
Percentile	Mean Expenditure(USD)	95% C.I.	Observations
Not in the 95th Percentile	17.64	[15, 20.27]	1281
In the 95th Percentile	182.77	[136.39, 229.14]	73

Distribution of those in the 95 th Percentile across zones			
Zone	Estimated Proportion	95% C.I.	Observations
Southern Highlands	38%	[17%, 59%]	35 out of 73
Northern	23%	[5%, 40%]	9 out of 73
Western	21%	[2%, 40%]	12 out of 73
Central	13%	[-6%, 31%]	5 out of 73
Southern	6%	[0%, 11%]	12 out of 73
Eastern	No Observations	-	0 out of 73
Lake	No Observations	-	0 out of 73
Zanzibar	No Observation	-	0 out of 73

Proportion of male and female headed household for those in the 95 th percentile			
Gender of Household Head	Estimated Proportion	95% C.I.	Observations
Male	87%	[80%, 95%]	64 out of 73
Female	13%	[5%, 20%]	9 out of 73

Proportion of male and female headed households for those not in the 95 th percentile			
Percentile	Estimated Proportion	95% C.I.	Observations
Male	77%	[75%, 80%]	286 out of 1282
Female	23%	[20%, 25%]	996 out of 1282

Mean education level of household head for those in and out of the 95th percentile			
Percentile	Mean education level(yrs)	95% C.I.	Observations
Not in the 95th Percentile	5.3	[5.1, 5.6]	1222
In the 95th Percentile	6.7	[6, 7.3]	69

Mean age of household head for those in and out of the 95th percentile			
Percentile	Mean age(yrs)	95% C.I.	Observations
Not in the 95th Percentile	46.8	[45.8, 47.9]	1282
In the 95th Percentile	41.8	[38.4, 45.2]	73

Mean household landholding size for those in and out of the 95 th percentile			
Percentile	Mean plotsize (ha)	95% Confidence Interval	Observations
Not in the 95th Percentile	2.2	[2.0, 2.5]	1280
In the 95th Percentile	3.9	[2.5, 5.3]	73

Bivariate Analysis of Factors Affecting Input Use

Bivariate analysis results for the probability of inorganic fertilizer use

Variable	Coefficient	P value	95% C.I.	Marginal Effects	Observations
Amount spent on hired labor (USD)	0.002	0.004	[0.001, 0.004]	0.0003	1013
Education of household head	0.145	0	[0.095, 0.196]	0.0150	2121
Age of household head	-0.002	0.668	[-0.013, 0.008]	-0.0003	2216
Advice from extension officer	0.997	0	[0.636, 1.358]	0.1051	2216
Farmers' cooperative present	-0.100	0.718	[-0.643, 0.444]	-0.0111	2157
Female household head	-0.237	0.175	[-0.580, 0.106]	-0.0266	2216
Household landholding size (acres)	0.011	0.264	[-0.008, 0.029]	0.0012	2214

Bivariate analysis results for the probability of inorganic fertilizer use (over Zone)

Zone	Coefficient	P Value	95% C.I.	Marginal Effects	Observations
Central	-0.999	0.168	[-2.421, 0.422]	-0.1131	2216
Eastern	-1.017	0.09	[-2.194, 0.161]	-0.1128	2216
Southern Highlands	1.695	0	[1.150, 2.240]	0.1618	2216
Lake	-3.005	0	[-4.531, -1.479]	-0.307	2216
Northern	0.184	0.618	[-0.542, 0.910]	0.0206	2216
Southern	0.423	0.157	[-0.163, 1.010]	0.0485	2216
Western	-0.741	0.039	[-1.443, -0.0384]	-0.828	2216
Zanzibar	-0.543	0.064	[-1.119, 0.0319]	-0.0587	2216

Bivariate analysis results for the probability of IV seed use

Variable	Coefficient	P value	95% C.I.	Marginal Effects	Observations
Amount spent on hired labor (USD)	0.002	0.001	[0.001, 0.004]	0.0004	989
Education of household head	0.103	0	[0.063, 0.144]	0.0171	2048
Age of household head	-0.003	0.457	[-0.010, 0.005]	-0.0005	2140
Advice from extension officer	0.970	0	[0.693, 1.247]	0.1589	2140
Farmers' cooperative present	-0.236	0.162	[-0.566, 0.095]	-0.0396	2085
Female household head	-0.430	0.007	[-0.744, -0.117]	-0.0727	2140
Household landholding size (acres)	0.021	0.003	[0.007, 0.036]	0.0036	2138

Bivariate analysis results for the probability of IV seed use (over Zone)					
Zone	Coefficient	P value	95% C.I.	Marginal Effect	Observations
Central	-0.206	0.536	[-0.858, 0.447]	-0.035	2,140
Eastern	-0.092	0.646	[-0.487, 0.303]	-0.0157	2,140
Southern Highlands	-0.216	0.324	[-0.645, 0.214]	-0.0366	2,140
Lake	-0.149	0.525	[-0.611, 0.312]	-0.0255	2,140
Northern	1.039	0	[0.639, 1.439]	0.1708	2,140
Southern	-1.121	0	[-1.529, -0.713]	-0.1767	2,140
Western	0.015	0.94	[-0.372, 0.402]	0.0025	2,140
Zanzibar	-0.562	0.026	[-1.057, -0.066]	-0.0926	2,140

Bivariate analysis results for the probability of pesticide, herbicide, or fungicide use					
Variable	Coefficient	P value	95% C.I.	Marginal Effect	Observations
Amount spent on hired labor (USD)	0.003	0.001	[0.001, 0.005]	0.0005	1,013
Education of household head	0.126	0	[0.087, 0.165]	0.0152	2,121
Age of household head	-0.01	0.018	[-0.018, -0.002]	-0.0012	2,216
Advice from extension officer	1.088	0	[0.775, 1.401]	0.1276	2,216
Farmers' cooperative present	-0.059	0.784	[-0.482, 0.364]	-0.0074	2,157
Female household head	-0.529	0.002	[-0.867, -0.191]	-0.0657	2,216
Household landholding size (acres)	0.022	0.006	[0.006, 0.037]	0.0027	2,214

Bivariate analysis results for the probability of pesticide, herbicide, or fungicide use (over zone)					
Zone	Coefficient	P value	95% C.I.	Marginal Effect	Observations
Central	-1.173	0.078	[-2.479, 0.134]	-0.1481	2,216
Eastern	-0.237	0.534	[-0.985, 0.512]	-0.0297	2,216
Southern Highlands	0.606	0.018	[0.105, 1.107]	0.0742	2,216
Lake	-0.904	0.017	[-1.647, -0.161]	-0.1148	2,216
Northern	0.593	0.017	[0.107, 1.079]	0.073	2,216
Southern	0.409	0.067	[-0.029, 0.847]	0.0524	2,216
Western	-0.207	0.414	[-0.705, 0.291]	-0.026	2,216
Zanzibar	-1.519	0	[-2.218, -0.820]	-0.1704	2,216