

ANNEXURE 7

Ordered Probit regression for Food consumption Score estimation

FCS	Coef.	Std. Err.	z	P>z	[95% Conf.	Interval]
Iedun_2	-3.333407	4.656387	-0.72	0.474	-12.45976	5.792944
Iedun_3	.7281379	.3370596	2.16	0.031	.0675133	1.388763
Iedun_4	-2.119261	5.958231	-0.36	0.722	-13.79718	9.558656
HH size	-.3008261	.1104644	-2.72	0.006	-.5173324	-.0843199
Land size	1.165188	.2088987	5.58	0.000	.755754	1.574622
Ifertilit~2	-1.122281	.3565566	-3.15	0.002	-1.821119	-.4234426
Ifertilit~3	-2.650059	.4923863	-5.38	0.000	-3.615118	-1.684999
Main Mkt. Dist.	.6866484	.1142751	6.01	0.000	.4626733	.9106235
Irrigation	2.115701	.3891239	5.44	0.000	1.353032	2.87837
Improved seed	1.70817	.7068857	2.42	0.016	.3226998	3.093641
Safety net	-.8065152	.4403388	-1.83	0.067	-1.669563	.0565331
Total livestock	.3278969	.0528414	6.21	0.000	.2243296	.4314642
Off-farm act.	-2.300227	.6302376	-3.65	0.000	-3.53547	-1.064984
/cut1	3.940514	1.283358			1.425178	6.455849
/cut2	11.47417	1.764563			8.015695	14.93265
Ordered probit regression				Number of obs = 370		
				LR chi2(13) = 439.94		
				Prob > chi2 = 0.0000		
Log likelihood = -75.337228				Pseudo R2 = 0.7449		

Source: Survey result, 2015

Predicted Marginal effect of Poor Food Consumption Score

Marginal effects after Ordered Probit == $y = \Pr(\text{food consumption score} = \text{Poor})$ (predict, outcome(1)) = 0.6076137

Variable	dy/dx	Std. Err.	z	P>z	[95% C.I.]	X
Iedun_2	.4484279	.1233	3.64	0.000	.206763	.690093
Iedun_3	-.2806947	.12664	-2.22	0.027	-.528911	-.032479
Iedun_4	.419385	.1937	2.17	0.030	.039747	.799023
HH size	.1156191	.04349	2.66	0.008	.030385	.200853
Land size	-.4478266	.0866	-5.17	0.000	-.617568	-.278085
Ifertilit~2	.4010781	.1196	3.35	0.001	.166659	.635498
Ifertilit~3	.738041	.11236	6.57	0.000	.517817	.958265
Main Mkt. Dist.	-.2639054	.04761	-5.54	0.000	-.357222	-.170589
Irrigation	-.6949221	.09674	-7.18	0.000	-.884536	-.505308
Improved seed	-.4740551	.14374	-3.30	0.001	-.75579	-.192321
Safety net	.3099748	.17076	1.82	0.069	-.024708	.644658
Total livestock	-.1260234	.02243	-5.62	0.000	-.169987	-.08206
Off-farm act.	.8840659	.25277	3.50	0.000	.388645	1.37949

Source: Survey result, 2015

Predicted Marginal effect of Borderline Food Consumption Score

Marginal effects after Ordered Probit == $y = \Pr(\text{food consumption score} = \text{borderline})$ (predict, outcome(2)) = 0.3923863

Variable	dy/dx	Std. Err.	z	P>z	[95% C.I.]	x
Iedun_2	-.4484279	.1233	-3.64	0.000	-.690093 - .206763	.043243
Iedun_3	.2806947	.12664	2.22	0.027	.032479 .528911	.345946
Iedun_4	-.419385	.1937	-2.17	0.030	-.799023 -.039747	.045946
HH size	-.1156191	.04348	-2.66	0.008	-.200839 -.030399	5.47027
Land size	.4478266	.08662	5.17	0.000	.278061 .617592	2.31486
Ifertilit~2	-.4010781	.1196	-3.35	0.001	-.635498 -.166659	.421622
Ifertilit~3	-.738041	.11236	-6.57	0.000	-.958265 -.517817	.375676
Main Mkt. Dist.	.2639054	.04763	5.54	0.000	.170555 .357256	6.12162
Irrigation	.6949221	.09674	7.18	0.000	.505308 .884536	.489189
Improved seed	.4740551	.14374	3.30	0.001	.192321 .75579	.805405
Safety net	-.3099748	.17073	-1.82	0.069	-.644607 .024658	1.34595
Total livestock	.1260234	.02244	5.62	0.000	.082045 .170002	7.20541
Off-farm act.	-.8840659	.25273	-3.50	0.000	-1.3794 -.388727	1.65946

Source: Survey result, 2015

Predicted Marginal effect of Acceptable Food Consumption Score

Marginal effects after Ordered Probit == $y = \Pr(\text{food consumption score} = \text{acceptable})$ (predict, outcome(3)) = 2.934e-15

Variable	dy/dx	Std. Err.	z	P>z	[95% C.I.]	x
Iedun_2	-9.11e-15	0	.	.	-9.11e-15 -9.11e-15	.043243
Iedun_3	1.14e-13	0	.	.	1.14e-13 1.14e-13	.345946
Iedun_4	-6.32e-15	0	.	.	-6.32e-15 -6.32e-15	.045946
HH size	0	0	.	.	0 0	5.47027
Land size	0	0	.	.	0 0	2.31486
Ifertilit~2	-1.12e-13	0	.	.	-1.12e-13 -1.12e-13	.421622
Ifertilit~3	-4.84e-12	.	.	.	.	.375676
Main Mkt. Dist.	0	0	.	.	0 0	6.12162
Irrigation	8.72e-12	.	.	.	.	.489189
Improved seed	3.88e-14	0	.	.	3.88e-14 3.88e-14	.805405
Safety net	0	0	.	.	0 0	1.34595
Total livestock	0	0	.	.	0 0	7.20541
Off-farm act.	0	0	.	.	0 0	1.65946

Source: Survey result, 2015