Appendices

Appendix 1: Questionnaire for data collection

Members Questionnaire

This questionnaire has been designed to execute a research purposely for academic work. The principal objective is to analyze the economic performance of input subsidies among cooperative members in Zambia. All information provided will solely and exclusively used for academic purpose and all respondents will remain anonymous to the public domain. Information provided would be used to make sound empirical analysis and suggest policy recommendations that would help improve the distribution of subsidized inputs as well as the socio-economic well-being and standard of living of cooperative members in the region. The entire interview will take 30 minutes of your time and you are kindly requested to provide honest and genuine answers within your possible best.

interview date/20
Section One: General Information 1. GPS coordinates
2. Name of province
3. Name of ward/community
4. Name of the cooperative
Section Two: Socio-economic Characteristics
5. Gender [] Male [] Female
6. Age of respondent (years)
8. Years of education of respondent
10. What is your total land holding area (in hectares)?
11. How many of the total land holding area do you use (cultivate) for maize production [in
hectares]?

16. What is your main product? [] Maize [] Others (specify)
19. Please indicate the number of years for which you have been a member of this cooperative
21. What is the distance of your residence to the cooperative headquarter? (in km)
Section Three: Factors Influencing Access to Input Subsidy 22. How would you describe your level of communication with the cooperative leaders? [] Never [] Rarely [] Sometimes [] Often [] Always
23. Are you related to any of the cooperative leaders? [] No [] Yes
24. In the last year, how many times did you meet extension workers for advice or consultancy?
[] None [] One time [] Two times [] Three times [] Five times or more 25. Did you buy seeds or fertilizer from a commercial source within the last two years? [] No[] Yes
26. Please rate your level of attendance of cooperative meetings out of 100.
27. What quantity of your produce do you sell through the cooperative? [] None [] 1 - 25% [] 26 -50% [] 51 – 75% [] Above 75% 26. Please specify how much you pay as share in the cooperative?ZKw 28. How affordable is the remittance fee for input subsidy to you? [] Not affordable [] Slightly affordable [] Moderately affordable [] Very affordable [] Extremely affordable
Section Four : Input Costs and Revenue
29. Labora. Please indicate the total quantity of hired labor that you utilized in your last farming period (per year)
b. Please indicate the total number of days that you utilized hired labor
c. Please indicate the total quantity of family labor that you utilized in your last farming period (per year)
d. Please indicate the total number of days that you utilized family labor
e. What was the cost per unit (in ZKw) of labor in your last farming period?

35. Revenue

a. What quantity (in bags) of maize were you able to harvest in your last period of farming?												
b. What quantity (in bags) of maize were you able to sell in your last season of												
farming?												
c. What was the price of maize per bag in your last season of farming?												
c. What was the price of marze per bag in your last season of farming:												
Section Four												
Subjective Feelings of Members												
Please indicate how much you agree with the following statements												
36. My fellow cooperative members are completely honest with me												
[] Strongly Disagree [] Partly Agree [] Neither agree nor disagree [] Partly Agree []												
Strongly Agree												
38. My fellow cooperative members like me												
[] Strongly Disagree [] Partly Agree [] Neither agree nor disagree [] Partly Agree []												
Strongly Agree												
39. My fellow cooperative members include me in what they are doing												
[] Strongly Disagree [] Partly Agree [] Neither agree nor disagree [] Partly Agree []												
Strongly Agree												
40. My voice counts in cooperative matters												
[] Strongly Disagree [] Partly Agree [] Neither agree nor disagree [] Partly Agree []												
Strongly Agree												
40. My fellow cooperative members are completely open with me												
[] Strongly Disagree [] Partly Agree [] Neither agree nor disagree [] Partly Agree []												
Strongly Agree												
Thank you.												

Annexes

Testing for Multicollinearity of Variables included in the Probit Model for Access to Input Subsidy

Test for multicollinearity between the variables to be included in the regression model for access to input subsidy was performed to check for the correlation that exist between the independent variables.

Result of the Pearson correlation matrix in the Table 11 below shows that there is no issue of multicollinearity between the variables included in the Probit regression model since none of the variables had correlation coefficient of 0.8 or higher.

Table 1. Matrix of correlation (access to input subsidy)

Variables	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
(1) Age	.00													
(2) Land size	.18	.00												
(3) Gender	0.05	.14	.00											
(4) Farm size	.10	.78	.16	.00										
(5) Position in the cooperative	.16	.17	.17	.19	.00									
(6) Share investment	.08	.27	.17	.31	.07	.00								
(7) Cooperative as marketing channel	.06	.09	.20	.06	.02	.22	.00							
(8) Cooperative experience	.30	.32	.08	.32	.18	.50	.30	.00						
(9) Communication with leaders	.13	.12	0.04	.09	0.03	.04	.06	.19	.00					
(10) Extension access	.12	0.07	.14	.01	.15	0.01	.21	.11	.10	.00				
(11) Active participation	.06	.11	.06	.16	.32	.18	.30	.24	.22	.24	.00			
(12) Reciprocity of relationship	.01	.02	.06	.11	0.04	.13	.11	.17	.18	.13	.11	.00		
(13) Acceptance	.15	.14	.07	.20	.18	.07	.18	.19	.37	.16	.34	.24	.00	
(14) Voice	0.01	0.01	0.04	.08	0.03	0.07	.08	.01	.20	.15	.18	.36	.32	.00