AJAE Appendix:

Farmers' Subjective Valuation of Subsistence Crops:

The Case of Traditional Maize in Mexico

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TABLE 1. Means of plot level and household level variables for the whole sample and the subsample of mono-cropped maize plots

Variable	Whole sample	Subsample
Plot Level Variables		
Yield (kg./ha.)	1087.17	1140.53
Seed amount/ha.	24.88	19.69
Plot area (ha.)	1.91	2.14
Irrigation dummy	0.14	0.15
Soil quality (1: Bad, 2: Regular, 3: Good)	2.28	2.31
Slope (1: Plain, 2: Sloped, 3: Very steep)	1.54	1.53
Walking time from the parcel to the community center (mins.)	38.99	39.01
Total labor (days/ha.)	73.66	55.58*
Total input cost/ha.	677.42	497.64
Total machinery hours/ha.	5.83	4.46*
Total animal hours/ha.	18.79	14.52
Number of observations	868	491
Household Level Variables		
Wealth index	2.31	2.28
Gender of household head(=1 if male)	0.90	0.91
Indigenous language dummy	0.36	0.40
Total land owned (ha.)	7.15	7.09
Number of plots cultivated	1.78	1.87
Number of plots owned	1.45	1.52
Total farm income ($MX)	8707.04	9066.55
% land cultivated with maize	0.74	0.88*
% maize production sold	0.14	0.14
Maize purchase dummy (=1 if bought)	0.47	0.43
Off-farm income dummy	0.48	0.45
Maize sale dummy (=1 if sold)	0.25	0.25
Number of observations	557	314

Note: * indicates that the difference of the sample means is statistically significant at 5% level using a two-sided t-test.

TABLE 2. Production functions estimated with Heckman model

Variable	Coefficient	(p-value)	Coefficient	(p-value)
ln(yield)	TV		MV	
ln(land)	-0.32***	(0.00)	-0.32	(0.44)
ln(labor)	0.18***	(0.01)	0.17	(0.74)
ln(seed)	0.20***	(0.00)	0.55	(0.36)
ln(input cost)	0.11***	(0.00)	0.04	(0.70)
ln(machinery)	0.13**	(0.01)	0.52	(0.81)
ln(animals)	0.04	(0.15)	-0.08	(0.94)
drought	-0.07	(0.67)	-0.63	(0.83)
soil quality[a]	0.25***	(0.01)	0.51	(0.67)
slope[a]	0.07	(0.60)	-0.17	(0.95)
irrigation	0.29**	(0.02)	0.2	(0.89)
altitude	-0.04	(0.80)	-1.02	(0.01)
age	-0.01	(0.15)	-0.01	(0.95)
education	-0.03	(0.27)	0.01	(0.98)
South-Southeast	-0.62	(0.24)	0.6	(0.91)
Central	-0.31	(0.58)	-0.25	(0.98)
Western Central	-0.2	(0.69)	-0.42	(0.77)
Northwest	3.45***	(0.00)	0.61	(0.79)
commercial dummy	0.69***	(0.00)	0.47	(0.73)
Intercept	5.11***	(0.00)	5.84	(0.30)
	p(TV)		p(MV)	
% vil. plots with TV(MV)	0.81*	(0.09)	0.83	(0.84)
% vil. maize marketed	-0.01**	(0.04)	0.01	(0.86)
% vil. off-farm inc. MX	0	(0.95)	-0.01	(0.95)
% vil. off-farm inc. US	-0.02	(0.56)	0.04	(0.85)
indigenous	0.90***	(0.00)	-0.97***	(0.00)
saved seed > 2 yrs.	0.68***	(0.00)	-0.57	(0.72)
soil quality	0.19	(0.26)	-0.1	(0.82)
slope	0.06	(0.69)	0.04	(0.87)
irrigation	-0.76**	(0.01)	0.78***	(0.00)
age	0.01	(0.23)	-0.01	(0.81)
education	0.02	(0.56)	-0.01	(0.95)
South-Southeast	0.26	(0.48)	-0.45	(0.65)
Central	0.81*	(0.07)	-0.94	(0.57)
Western Central	0.74**	(0.01)	-0.91	(0.54)
Intercept	-0.53	(0.52)	-0.23	(0.87)
Lambda (IMR)	0.16		-1.04	
p-Wald test (rho=0)	0.48		0.86	
N	425		66	

[a] Soil quality and slope variables are rescaled to (-1,0,1) to prevent unnecessary imposition of a cardinal meaning to categorical variables.

Note: *, ** and *** for 10%, 5% and 1% significance levels, respectively.

TABLE 3. Production functions estimated with IV (probit) to control for the endogenous commercial farmer dummy (Dep. var: ln(yield))

Variables	TV	MV
ln(land)	-0.317***	-0.18
ln(labor)	0.189*	0.215
ln(seed)	0.196**	0.661**
ln(input cost)	0.117***	0.071
ln(machinery)	0.162*	0.650**
ln(animals)	0.033	0.053
drought	-0.079	-0.750*
soil quality	0.298***	0.227
slope	0.062	-0.624**
irrigation	0.405	0.530***
altitude	-0.044	-1.026***
age	-0.008	-0.030*
education	-0.044	-0.05
South-Southeast	-0.739	-0.39
Central	-0.58	-1.240***
Western Central	-0.487	0.43
commercial dummy	0.931	0.333
Constant	5.427***	5.755***
N	425	66

Note: *, ** and *** for 10%, 5% and 1% significance levels, respectively.