

Table 5 Determinant of adoption of improved soybean variety and its effect on yield

Variables	Probit coefficient	SE	Z	OLS(YIELD) coefficient	SE	Z
Age	-0.0278**	0.0135	-2.05	-0.8228	8.2248	-0.10
Gender	0.4636**	0.2298	2.01	-0.9831	0.1125	-0.87
Farm size	-0.0318	0.1640	-0.19	0.6746	0.8631	0.78
Household size	0.0342	0.1444	0.77	0.7742***	0.2169	3.57
Dependency ratio	0.3182**	0.1571	2.03	0.1754	0.7829	0.22
Education	0.0043	0.094	0.05	0.8428**	0.4506	1.87
Farm Experience	0.0010	0.0166	0.06	0.2506***	0.0801	-3.13
Cooperative membership	0.0605	0.2218	0.27	0.3746***	0.1005	3.73
Access to credit	0.1525	0.2411	-0.63	0.3180***	0.1119	2.84
Land ownership	-0.1632	0.1920	-0.85	-0.1620	0.9069	-0.18
Early maturity	0.4416**	0.1799	2.46			
Distance to market	0.1070	0.1738	0.62	0.6340	0.8004	0.79
Extension visit	-0.3233	0.2429	-1.33			
Constant	0.0510	0.8534	0.06	0.1580***	0.0361	4.37
Mills lambda	0.1580***	0.0349	3.95			
Rho	0.2581					
Wald chi2(22)	98.23					

Note *** Significant at 1%; ** Significant at 5%; * Significant at 10%