Table 8. Strawberry grower attributes model regression results, using ordinary least squares and principal components

Regression Statistics	Dependent Variable					
	All Residues [c]		Fungicides [d]		Insecticides [e]	
Observations	53		53		53	
Regressors	13		13		13	
Principal-Comp. retained [a]	13		13		10	
Degrees of freedom	39		39		42	
F test for regression	3.0091 [b]		2.9726		0.8416	
Signif. level for regression	0.0039		0.0042		0.5923	
F test for restriction	NA		NA		0.2296	
Signif. level for restriction	NA		NA		0.9201	
R squared	0.5008		0.4977		0.1669	
Adjusted R squared	0.3343		0.3303		-0.0314	
Explanatory Variable [f]	**Dependent Variable**					
	All Residues [c]		**Fungicides [d]**		**Insecticides [e]**	
	Coef.	**P, 1 tail**	**Coef.**	**P, 1 tail**	**Coef.**	**P, 1 tail**
Function	-0.028	0.423	-0.089	0.269	0.120	0.218
Education	0.457	0.004	0.548	0.001	-0.201	0.131
Experience	0.165	0.116	0.072	0.300	0.149	0.190
Certification	0.337	0.014	0.352	0.011	-0.030	0.425
Acres rented/total	-0.172	0.143	-0.271	0.048	0.052	0.361
Acres, total	0.038	0.384	0.071	0.294	-0.001	0.499
Affiliated	0.013	0.464	0.077	0.303	-0.293	0.043
Loam [g]	-0.443	0.001	-0.430	0.002	-0.085	0.295
Sandy Loam [g]	-0.331	0.044	-0.375	0.028	0.029	0.421
Avg. temp, harvest	0.024	0.458	-0.046	0.420	-0.036	0.339
Rainfall, harvest	0.617	0.017	0.557	0.027	-0.071	0.238
Avg. temp, growing	0.615	0.016	0.557	0.026	0.025	0.370
Rainfall, growing	0.113	0.341	-0.036	0.449	0.085	0.191

[a] If the number of principal components retained equals the number of regressors then principal component restrictions were not applied.
[b] Shaded entries indicate statistical significance exceeding the 0.10 level.
[c] Includes all fungicides, insecticides and three instances of DCPA herbicide residues
[d] Fungicides in strawberries include Captan, Chlorothalonil, Iprodione, Iprodione2, and Vinclozolin.
[e] Insecticides in strawberries include Malathion, Methomyl, Mevinphos, Permethrin, Carbaryl, Diazinon, Dicofol, and Endosulfan.
[f] The numerical representation of each variable is described in Table 6.
[g] Coefficients for soils are relative to base type of Sand.