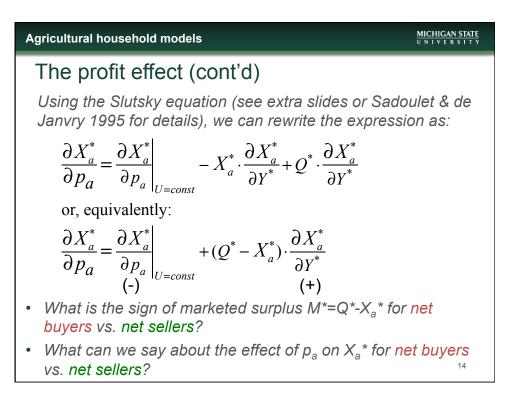
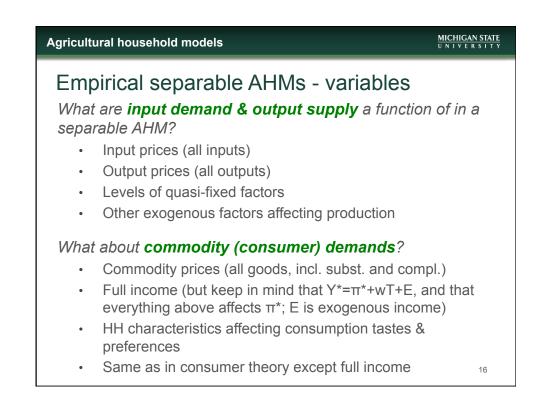


Singh, Squire, and Strauss, 1986: 7

MCHICAN STATEMCHICAN STATEThe profit effect $X_a^* = X_a^*(p_a, p_m, w, Y^*)$  $= X_a^*(p_a, p_m, w, Y^*(p_a, w, \overline{A}))$ How does the HH's demand for the ag staple  $(X_a^*) \Delta$ when the price of the ag staple  $(p_a) \Delta s$  (assuming it is a normal, non-Giffen good)? Does it for  $\Psi$ ? $\frac{\partial X_a^*}{\partial p_a} = \frac{\partial X_a^*}{\partial p_a}\Big|_{Y^*=const} + \begin{bmatrix} \frac{\partial X_a^*}{\partial Y^*} & \frac{\partial Y^*}{\partial p_a} \\ (?) & (-) \end{bmatrix}$ Profit effectWhat would we have concluded if we had used a standard consumer demand model for  $X_a$ ?



Agricultural household mo	dels	<u>MICHIGAN STATE</u> U N I V E R S I T Y	
Empirical estimates of own-price elasticities of demand for an agricultural commodity with and without accounting for the profit effect			
Economy	Without profit effect	With profit effect	
Taiwan	-0.72	0.22	
Malaysia	-0.04	0.38	
Republic of Korea	-0.18	0.01	
Japan	-0.87	-0.35	
Thailand	-0.82	-0.37	
Sierra Leone	-0.74	-0.66	
Northern Nigeria	-0.05	0.19	
Source: Singh, Squire, and Strauss (1986) – Table 1-2			
Observations?			



Agricultural household models	<u>MICHIGAN STATE</u> UNIVERSITY	
When should we use an AHM?		
<ul> <li>Do we need an AHM if we are only interested production side of the model and separability</li> <li>Use an AHM if:</li> </ul>		
<ol> <li>Separability holds, we are interested in the consumption side of the model, and:</li> <li>a. We expect the profit effect to be large,</li> <li>b. Farm profits are a large share of full income, a</li> </ol>		
c. The income elasticity of the commodity of inter		
<ol> <li>There are multiple, important market failur (missing or imperfect markets)</li> </ol>	es	
	17	



