

# Horticulture and New Crops Marketing

## EDAMAME SOYBEANS

### Kentucky Estimated per Acre Costs and Returns for 2000

Wholesale Produce Market

	Quantity	Unit	\$/Unit	Total
<b>GROSS RETURNS</b>				
Fresh Soybeans (boxes)	450	boxes	\$ 24.50	\$ 11,025.00 a
<b>VARIABLE COSTS</b>				
Production				
Seed	1	acre	\$ 21.00	\$ 21.00 b
Fertilizer: 3-15-40	300	lb	\$ 0.09	\$ 26.16 b
Pesticide	1	qt	\$ 5.85	\$ 5.85 c
Miscellaneous	1	acre	\$ 8.00	\$ 8.00
Machinery Variable Costs	1	acre	\$ 14.76	\$ 14.76 d
Hand Labor--Cultivating	95	hours	\$ 7.00	\$ 665.00 f
Interest on Preharvest Variable Costs	8	months	9%	\$ 44.45
<b>Total Preharvest Variable Costs</b>				<b>\$ 785.23</b>
<b>HARVESTING AND MARKETING</b>				
Pick, Sort, Grade Beans	1	box	\$ 15.25	\$ 6,862.50
Boxes	450	boxes	\$ 1.66	\$ 749.21
Handle and Hauling Variable Costs	450	boxes	\$ 0.05	\$ 22.50 e
Marketing Charge	450	boxes	10%	\$ 1,102.50
Variable Refrigeration Costs (electricity, maintenance, etc.)			\$ 450.00	\$ 450.00
<b>Total Harvesting and Marketing Cost</b>				<b>\$ 9,186.71</b>
<b>TOTAL VARIABLE COST</b>				<b>\$ 9,971.93</b>
<b>RETURN ABOVE VARIABLE COSTS</b>				<b>\$ 1,053.07</b>
<b>FIXED COSTS</b>				
Machinery and Equipment			\$	61.72 d
Taxes on Land			\$	4.00
Insurance			\$	55.13

Refrigeration			\$	657.00
<b>TOTAL FIXED COSTS</b>			\$	<b>777.84</b>
<b>TOTAL EXPENSES</b>				<b>\$10,749.78</b>
RETURN TO OPERATOR LABOR, LAND, CAPITAL, & MGT.			\$	275.22
Operator and Unpaid Family Labor	2.25 hrs.	\$	7.00	\$ 15.75
<b>RETURN TO LAND, CAPITAL, AND MANAGEMENT</b>			\$	<b>259.47</b>
<b>BREAKEVEN PRICE</b>			\$	<b>23.89</b>

a Estimated average yield from various KY test plots in 2000. Price based on limited quantity sold in 2000.

b Input prices from western Kentucky

c Assumes use of Prowl or similar herbicide

d Machinery costs based on 2000 Iowa State estimated machinery costs adjusted to Kentucky and vegetable production

e Includes a 24-hour cooling cost. Budget assumes operation has existing refrigeration capacities.

f Best yielding plot in Kentucky utilized hand cultivation. This budget assumes adequate labor availability.

Machine cultivation will reduce labor costs at some yield and quality loss, but may increase returns significantly.

g Estimated annual cost of refrigeration maintenance; assumes soybeans as sole crop refrigerated.

Prepared by Matthew Ernst, Extension Associate, New Crops Opportunities Center/UK Department of Agricultural Economics with assistance from Sara McNulty, Wildwood Acres, Owensboro, KY.

May 2001