

BC-SI-90

BROCCOLI PROJECTED PRODUCTION COSTS 1989 - 1990

IMPERIAL COUNTY



UC COOPERATIVE EXTENSION

UNIVERSITY OF CALIFORNIA
COOPERATIVE EXTENSION

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Broccoli Projected Production Costs 1989-1990

Mechanical operations at custom rates. Hand labor at \$5.75 per hour (\$4.50 plus Social Security, unemployment insurance, transportation, supervision and fringe benefits)

Yield--500 26-lb. cartons 85-110 days to maturity.

OPERATION	CUSTOM RATE	MATERIALS		HAND LABOR--		COSTS Per Acre
		Type	Cost	Hours	Dollars	
				Field Pack		
LAND PREPARATION						
Stubble disc	18.25					18.25
Subsoil	29.25					29.25
Disc 1x	9.50					9.50
Landplane 2x	10.00					20.00
Border, cross check & break borders	15.00					20.00
Flood		Water 1/2 ac/ft	5.50	1	5.75	11.25
Disc 2x	9.50					19.00
Fertilize	6.00	450# -- 11-52-0	61.00			67.00
Triplane 1x	8.75					8.75
List	11.50					11.50
TOTAL LAND PREPARATION						229.50
GROWING PERIOD						
Precision plant	14.50	Hybrid seed-1.5# @	150.00/#			239.50
Sprinkler irrigate						135.00
Spray herbicide	8.00	Herbicide	33.75			41.75
Thin				8	46.00	46.00
Cultivate 3x	10.75					32.25
Fertilize & furrow out 1x	10.00	80# N @ .31	24.80			34.80
Water-run fertilizer		40# N @ .31	12.40			12.40
Hand weed				4	23.00	23.00
Irrigate 8x		4 1/2 ac/ft	49.50	8	46.00	95.50
Insect Control 5x	5.00	Insecticides	42.50			67.50
Disease Control 5x	6.00	Fungicide	18.75			48.75
Chop stalks	10.00					10.00
TOTAL GROWING PERIOD COSTS						786.45
GROWING PERIOD & LAND PREPARATION COSTS						1015.95
Land Rent (net acres)						200.00
Cash Overhead----		12% of preharvest costs & land rent				145.91
TOTAL PREHARVEST COSTS						1361.86
Harvest (field pack)						
Custom harvest, pack, sell and haul to cooler		500	26 lb cartons @	3.50/carton		1750.00
TOTAL ALL COSTS						3111.86

PROJECTED INCOME ABOVE COSTS (PER ACRE)

price/carton

	Cartons per acre	price/carton					Breakeven \$/carton
		5.00	6.00	7.00	8.00	9.00	
	300	-912	-612	-312	-12	288	8.04
	400	-762	-362	38	438	838	6.90
	500	-612	-112	388	888	1388	6.22
	600	-462	138	738	1338	1938	5.77
	700	-312	388	1088	1788	2488	5.45

BROCCOLI CULTURE

1989-1990

<u>YEAR</u>	<u>ACRES</u>	<u>YIELD/ACRE (CARTONS)</u>	<u>VALUE/ACRE</u>
1988	9250	437	\$ 3059
1987	7874	427	2493
1986	7390	359	2106
1985	5795	466	2978
1984	4994	340	2801

PLANTING DATES: Broccoli is normally planted from August 25 - November 15. Double-row 42 inch beds are used to grow the crop. Harvesting begins November 25 and continues through March 15. Broccoli will germinate at temperatures of 40-95°F.

VARIETIES: "Green Duke", "Pirate", "Emperor", "NS 649", "Vantage", "Ninja", "Packman" and "Cruiser" are the major varieties grown. All are hybrids. The seed is planted 1/8 - 1/4 inch deep at 2 - 3 inch spacing early season then thinned to 5 - 8 inches between plants. Later most growers plant to a stand without thinning, especially in cool weather.

SOILS: Well-drained soils are preferred, although broccoli may be grown on a wide range of soil textures. Broccoli has greater salt tolerance than does lettuce, carrots or onions.

IRRIGATION: Broccoli is irrigated 6 to 8 times during the season. Sprinkler irrigation is normally used for stand establishment.

FERTILIZERS: Four hundred fifty pounds of 11-52-0 are normally broadcast prior to listing the beds. About 80 pounds of nitrogen are applied in a single sidedress application. Additional nitrogen is applied water-run.

PEST CONTROL: Several herbicides are available for application preplant. Consult your weed control farm advisor for further information.

Cabbage loopers, armyworms, salt-marsh caterpillars, cutworms, sugarbeet nematodes, flea beetles and aphids can cause extensive damage unless controlled. Downy mildew often attacks foliage and heads. For the latest information on pest control along with precautions on use of pesticides, consult your farm advisor.

HARVESTING: Fields are harvested twice and sometimes three times. Broccoli heads are hand cut and placed on the table of a field harvesting machine. Two to four heads are trimmed to an 8 inch cut and secured by a rubber band. The broccoli is packed in 22 pound, waxed-fiberboard cartons containing 14-18 bunches. Broccoli requires rapid cooling to insure quality. Liquid icing is the standard cooling method. Cooling and palletizing are charged to the buyer.

GUIDELINES TO PRODUCTION COSTS AND PRACTICES
IMPERIAL COUNTY CROPS, CIRCULAR 104
1989 - 1990

CUSTOM RATE CHARGES

HEAVY TRACTOR WORK

PRICE/ACRE

Plow	\$ 24.75
Subsoil 2nd Gear	29.25
Disc, Regular	9.50
Disc, Stubble	18.25
Float	8.25
Triplane	8.75
List, Regular	11.50
List, and Rerun 80" Melon Beds	22.00
Reshape 80" Melon Beds	10.00
Landplane	10.00
Chisel	20.75

PLANTING AND CULTIVATING

Plant and Shape Melon Beds	16.75
Precision Plant 42" Beds	14.50
Plant Carrots	13.75
Plant Onions	16.75
Cultivate 4-Row 42" Beds	10.75
Cultivate Melon Beds	14.00
Spike and Furrow Out (2 row)	10.50
Lilliston	9.50
Furrow out alone	8.00
Move N-Side 80" Beds for Irrigation	9.50

INCORPORATING, BORDER AND BED WORK

Power Incorporate herbicides	20.25
Border, Cross checks and Break Borders	15.00
Bust Melon Beds	9.00
Roll Beds	5.00

FERTILIZER APPLICATION

Broadcast Fertilizer	6.00
Inject Fertilizer (Flat)	9.00
Fertilize and Furrow Out 42" Beds	10.50
Fertilize and Furrow Out 80" Beds	10.50

IRRIGATION

Custom Sprinkle	135.00-145.00
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MISCELLANEOUS

Motor Grader/Hour	42.75
Chop Broccoli, Corn Stalks, Etc.	10.00
Water truck/Hour	34.00
Cultipacker	6.00
Ground Spray Pesticides (4 Row)	7.00
Aerial Spray 5 Gal. (Insecticides)	4.50
Aerial Spray 10 Gal. (Fungicides)	5.00