

Cooperative Extension

DRAFT

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UCCE IMPERIAL COUNTY GUIDELINES to production costs and practices 2000-2001

CROP	ACRES	WATER	N	P2O5	N-Total	P2O5-Total
	Average 1995-1999	ac-ft/year	lb/ac	lb/ac	lb	Lb
	ALFALFA (Hay Production) (3-4 year life)	170,408	6.5	6.9	132.5	1,171,555
ALFALFA (Seed Production) (Flat Planted Culture)	16,509	2.0				
BERMUDAGRASS (Hay Production) (5 Year Life)	20,903	5.5	600.0		12,541,560	
COTTON	8,407	5.5	240.0	250.0	2,017,632	2,101,700
RYEGRASS (Pasture Production)	3,989 (avg. 1997-1999)	3.5	350.0		1,396,033	
SUDANGRASS (Hay Production)	77,336	5.0	260.0		20,107,360	
SUGAR BEET	34,194	5.5	193.0	156.0	6,599,442	5,334,264
WHEAT	79,782	3.0	285.0		22,737,870	
ASPARAGUS (8 - 10 Year Life)	4,723	8.0	425.5	26.0	2,009,637	122,798
BROCCOLI	8,765	4.5	175.0	260.0	1,533,805	2,278,796
CABBAGE	1,020	4.0	235.0	260.0	239,794	265,304
CANTALOUPE	14,393	4.75	120.0		1,727,184	
CAULIFLOWER	3,615	5.0	245.0	260.0	885,626	939,848
HEAD LETTUCE	20,971	4.0	235.0	260.0	4,928,185	5,452,460
LETTUCE (Leaf)	8,013	4.0	295.0	260.0	2,363,776	2,083,328
MELON (Mixed)	1,790	4.75	175.0	260.0	313,320	465,504
ONIONS (Dehydrator)	6,029	5.5	305.0	260.0	1,838,784	1,567,488
ONIONS (Market Dry Bulb)	4,949	5.5	235.0	260.0	1,163,015	1,286,740
CORN (Sweet)	5,145	5.0	265.0	260.0	1,363,531	1,337,804
WATERMELON	2,308	4.0	200.0	100.0	461,640	230,820

Total acres

493,248

Total tons

42,700

23,023

* Land preparation 250 lb 11-52-0 once per 3-4 years

** Land preparation 250 lb 11-52-0 once per 3-4 years + 100 lb P2O5 per year

* main crop of P-fertilizer once.

IMPERIAL COUNTY PROJECTED ALFALFA HAY PRODUCTION COSTS 2000-2001

Mechanical operations at prevailing rates. Hand labor at \$7.75/hr (\$5.75 plus SS, unemployment and fringe benefits).

8 tons per average

OPERATION	Prevailing Rate	Yield-- Type /Amount	MATERIALS		HAND LABOR		COST Per Acre
			Cost	Hours	Dollars		
LAND PREPARATION							
Subsoil	38.75						38.75
Disc 2x	11.50						23.00
Fertilize	8.00	250 lb 11-52-0	31.88				39.88
Border, cross check & break borders	17.75						17.75
Flood		1/2 ac-ft	7.28	1	7.75		15.03
Disc 2x	11.50						23.00
Landplane 2x	12.00						24.00
Border, dump	14.00						14.00
Float	10.00						10.00
TOTAL LAND PREPARATION COSTS							205.41
COST OF ESTABLISHMENT							
Planting	10.50	25lb seed @ 1.70	42.50				53.00
Irrigate 2x		1 ac-ft	14.56	2	15.50		30.06
Weed control 1x	7.50	Herbicide	35.00				42.50
Insect control 1x	8.00	Insecticide	10.00				18.00
COST OF ESTABLISHMENT							143.56
TOTAL COST OF STAND ESTABLISHMENT							348.97
ANNUAL COST OF HAY PRODUCTION (3-4 year life)							
Weed control 2x	7.50	Herbicide	28.00				43.00
Irrigate 16x		6.5 ac-ft	94.64	9	69.75		164.39
Fertilize	6.00	100 lb P2O5 @ 0.26	26.00				32.00
Insect control 4x	8.00	Insecticide	50.00				82.00
TOTAL ANNUAL CULTURAL COSTS							321.39
PREHARVEST COSTS							
Land rent (net acres)							190.00
Amortization--		33 % of total cost of stand establishment					115.16
Cash overhead--		13 % of annual costs, land rent and amortization					81.45
TOTAL PREHARVEST COSTS							708.00
HARVEST COSTS							
Swather 7x	7.75						54.25
Rake 12x	3.75						45.00
Bale	0.63 /bale	128 bales (8 tons)					80.64
Haul & stack	0.24 /bale	128 bales (8 tons)					30.72
TOTAL HARVEST COSTS							210.61
TOTAL ALL COSTS							918.61

PROJECTED NET GAIN (PER ACRE)

Yield (tons/a)	Price/ton (\$)							Breakeven (\$/ton)
	70	80	90	100	110	120	130	
7	-415	-345	-275	-205	-135	-65	5	129
8	-359	-279	-199	-119	-39	41	121	115
9	-303	-213	-123	-33	57	147	237	104
10	-246	-146	-46	54	154	254	354	95
11	-190	-80	30	140	250	360	470	87

WRAPPED ICEBERG LETTUCE PROJECTED PRODUCTION COSTS 2000-2001

Hand labor at \$7.75per hour (\$5.75 plus SS.unemployment insurance, and transportation, supervision and fringe benefits).

Yield--500 50 lb. cartons per acre 90-120 days to maturity.

OPERATION	Cost	Materials		Hand Labor		Cost Per acre
		Type	Cost	Hours	Dollars	
LAND PREPARATION						
Stubble disc	21.75					21.75
Subsoil	38.75					38.75
Disc 2x	11.50					23.00
Landplane 2x	12.00					24.00
Border, cross check & break borders	17.75					17.75
Flood		Water 1 ac/ft.	14.56	1	7.75	22.31
Disc 2x	11.50					23.00
Triplane 1x	11.00					11.00
Fertilize, double spread	8.00	500 lb. 11-52-0	63.75			71.75
List 40" beds	13.50					13.50
TOTAL LAND PREPARATION						266.81
GROWING PERIOD						
Power mulch beds 1x	30.00					30.00
Preplant whitefly control	10.00	Admire	75.00			85.00
Precision plant	17.50	Coated seed 157M	128.00			145.50
Sprinkler irrigate	145.00					145.00
Herbicide	12.00	Kerb	32.00			44.00
Thin				17	131.75	131.75
Cultivate 2x	13.00					26.00
Spike 2X	9.75					19.50
Fertilize & furrow out 2x	13.50	120 lb. N @ .35	42.00			69.00
Water-run fertilizer		60 lb. N @ .35	21.00			21.00
Hand weed 1x				10	77.50	77.50
Irrigate 4x		Water 3 ac/ft.	43.68	7	54.25	97.93
Gated pipe	53.00					53.00
Insect control 8x	9.50	Insecticides	200.00			276.00
Stubble disc	21.75					21.75
TOTAL GROWING PERIOD						1242.93
GROWING PERIOD & LAND PREPARATION COSTS						1509.74
Land Rent (net acres)						200.00
Cash Overhead-----		13 % of preharvest costs & land rent				222.27
TOTAL PREHARVEST COSTS						1932.01
HARVEST COST						
Cut, pack, haul, cool and sell		500 wrapped cartons @	5.25	per carton		2625.00
TOTAL ALL COSTS						4557.01

PROJECTED PROFIT OR LOSS PER ACRE
Price/ 50 lb. carton (dollars)

Cartons per acre		Price/ 50 lb. carton (dollars)					Break-even \$/carton
		5.00	6.00	7.00	8.00	9.00	
500		-2057	-1557	-1057	-557	-57	9.11
600		-2082	-1482	-882	-282	318	8.47
700		-2107	-1407	-707	-7	693	8.01
800		-2132	-1332	-532	268	1068	7.67
900		-2157	-1257	-357	543	1443	7.40

* Harvest cost varies with the shipper, the field conditions and the market