

GREEN CHOP ALFALFA
Sprinkler Irrigation - Coastal Area
1971 - Cost Analysis Work Sheet

ALFALFA YIELD - 36 green tons or
8.5 tons dry hay equiv./acre

					Operating Costs/Hour				
					Fuel & Repairs	Deprec.	Interest	Total	
Equipment Operator -	\$2.60*	per hr.	total		SWT-Tractor 30 hp	\$1.00	\$.40	\$.25	\$ 1.65
Irrigator -	2.30*	" "	" "		SPC-Chopper & wagon	5.50	4.50	2.25	12.25
Hand Labor -	2.10*	" "	" "		S-Swather	3.85	3.00	.75	7.60
Operation	Trac- tor	Acres /Hour	Hours /Acre	Labor \$	Fuel & Repairs \$	Materials		Cost/Acre	
						Kind and Amount	Costs	Sample	Yours
<u>Cultural Costs</u>		Ac.	Hr.	\$	\$		\$	\$	
Irrigate 14x		.07	14.00	32.20	6.00	Water - 4 ac. ft. @ \$6.50	26.00	64.20	
Fertilizer						P2O5 - 100 lbs. @ 12¢. Appl. \$1	13.00	13.00	
Gopher Control bait, machine	SWT	5.00	.20	.52	.20	Materials 80¢/acre	.80	1.52	
Repairs to equipment					.50			.50	
Total Cultural Costs			14.20	\$32.72	\$ 6.70		\$39.80	\$ 79.22	
<u>Harvesting Costs</u>									
Cut & windrow 7x	S	.57	1.75	4.55	6.74			11.29	
Chop into wagon 7x	SPC	.36	2.80	7.28	15.40			22.68	
Total Harvest Costs			4.55	\$11.83	\$22.14			\$ 33.97	
Rent (total)								90.00	
Business & Miscellaneous Costs						6% of cultural, harvest costs and rent		12.19	
<u>Depreciation & Interest</u>						Depreciation	Interest 7%		
						SWT-Tractor - .2 hr.	\$.08	\$.05	
						SPC-Chopper & wagon - 2.8 hr.	12.60	6.30	
						S-Swather - 1.75 hr.	5.25	1.31	
						Alfalfa Stand (\$77.45 cost - 3 yrs.)	25.82	2.71	
						Irrigation, other equipment (\$240 - 15 yrs.)	16.00	8.40	
Total Depreciation & Interest							\$59.75	\$18.77	\$ 78.52
Total Cost Per Acre									\$293.90
Cost Per Green Ton									8.16

*Social Security, Workman's Compensation Insurance included.

GREEN CHOP ALFALFA - PROFITS AS AFFECTED BY YIELD & PRICE

Border Irrigation

YIELD Tons/ Acre tons	Total Production Costs/Acre \$	Green Chop Alfalfa - Price Per Ton						
		\$6.00	\$7.00	\$8.00	\$9.00	\$10.00	\$11.00	\$12.00
		\$ - Profit or Loss Per Acre						
28	255.18	-87.18	-59.18	-31.18	- 3.18	+24.82	+52.82	+ 80.82
30	259.78	-79.78	-49.78	-19.78	+10.22	+40.22	+70.22	+100.22
32	264.38	-72.38	-40.38	- 8.38	+23.62	55.62	87.62	119.62
34	268.98	-64.98	-30.98	+ 3.02	37.02	71.02	105.02	139.02
36	273.58	-57.58	-21.58	+14.42	50.42	86.42	122.42	158.42
38	278.18	-50.18	-12.18	25.82	63.82	101.82	139.82	177.82
40	282.78	-42.78	- 2.78	37.22	77.22	117.22	157.22	197.22
42	287.38	-35.38	+ 6.62	48.62	90.62	132.62	174.62	216.62
44	291.98	-27.98	+16.02	60.02	104.02	148.02	192.02	236.02
46	296.58	-20.58	25.42	71.42	117.42	163.42	209.42	255.42

Sprinkler Irrigation

YIELD Tons/ Acre tons	Total Production Costs/Acre \$	Green Chop Alfalfa - Price Per Ton						
		\$6.00	\$7.00	\$8.00	\$9.00	\$10.00	\$11.00	\$12.00
		\$ - Profit or Loss Per Acre						
28	275.50	-107.10	-79.50	-51.50	-23.50	+ 4.50	+32.50	+60.50
30	280.10	-100.10	-70.10	-40.10	-10.10	+19.90	+49.90	+79.90
32	284.70	-92.70	-60.70	-28.70	+ 3.30	35.30	67.30	99.30
34	289.30	-85.30	-51.30	-17.30	+16.70	50.70	84.70	118.70
36	293.90	-77.90	-41.90	- 5.90	30.10	66.10	102.10	138.10
38	298.50	-70.50	-32.50	+ 5.50	43.50	81.50	119.50	157.50
40	303.10	-63.10	-23.10	+16.90	56.90	96.90	136.90	176.90
42	307.70	-55.70	-13.70	28.30	70.30	112.30	154.30	196.30
44	312.30	-48.30	- 4.30	39.70	83.70	127.70	171.70	215.70
46	316.90	-40.90	+ 5.10	51.10	97.10	143.10	189.10	235.10