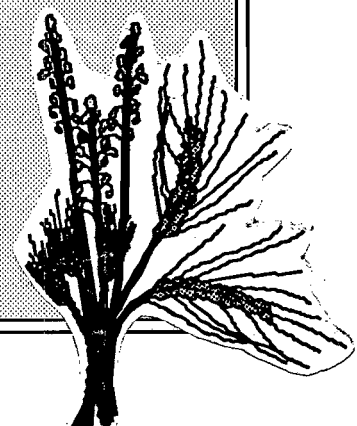
Sample Costs to Produce Wheat on Mineral and Peat Soil

Sacramento County

1989

University of California
Cooperative Extension



1989 SAMPLE COSTS TO PRODUCE WHEAT ON MINERAL AND PEAT SOIL SACRAMENTO COUNTY

PLANTING DATES - November 1 to January 1; Delta plantings as late as February.

HARVEST DATES - June 20 - August 1.

VARIETIES - Anza and Yolo are best suited for this area. Tadinia is resistant to Septoria. Klasic is a white wheat which can be grown in this area. UC638, newly released from University of California, Davis, has good yield and quality potential, but tends to lodge. Contact your Farm Advisor for an update on varieties.

SEEDING RATES - 100 to 125 lb/a dryland; 125 to 150 lb/a irrigated; up to 180 lb/a on peat soils planted late.

FERTILIZER - 100 lb/a nitrogen preplant; 100 to 130 lb/a 11-48-0 with seed as starter. Topdress 50 lb/a nitrogen in January-February followed by rain. Use urea early in season and ammonium nitrate later when conditions are warmer.

IRRIGATION - Plant on beds for drainage and irrigation. Irrigate when needed (normally 1 to 2 times), before dough stage. Spud ditch if growing in the Delta.

ROTATIONS - Useful for drying out sub-irrigated soils. This helps in restoring row crop productivity, especially tomatoes following wheat.

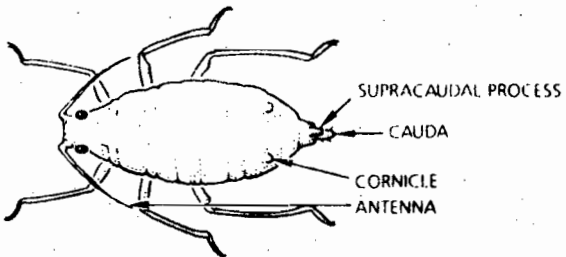
YIELDS - 2000 to 4000 lbs/ac dryland; 5000 to 7000 irrigated.

DISEASES - Yellow dwarf, powdery mildew, and root rots are occasional problems. Septoria can be a problem during wet springs. Leaf rust is increasing in incidence. Varietal resistance is the suggested practice for avoiding or minimizing disease impact.

WEED CONTROL - Apply 2,4-D for broadleaf weed control when crop is well established and tillered, but before boot stage. Bromoxynil can also be used for broadleaf weeds when crop has reached the 2 leaf stage and before the boot stage, and weeds are in early seedling stage. Severe injury can occur if wheat is sprayed with 2,4-D too early; prior to tillering. Use Avenge for wild oats.

INSECT CONTROL - The Russian Wheat Aphid (RWA) was first found in California in the spring of 1988. It has caused severe damage to barley and wheat in other Western States where it has been present for two to three seasons. The RWA is small, pale green, and often covered with a powdery coating of wax. The following three features should help in the identification of Russian Wheat Aphid:

RUSSIAN WHEAT APHID



* Presence of a supracaudal process. The supracaudal process is a second tail-like appendage above the cauda. It is most easily seen by viewing the aphid from the side with a hand lens; however, it may not be apparent on winged forms. No other grain aphid has a supracaudal process.

* Rudimentary cornicles. Cornicles of the RWA are extremely short and difficult to see even with a hand lens. Other grain aphids have prominent cornicles.

* Shorter antennae. The antennae of other light green aphids found in small grains are much longer than those of the RWA.

The RWA often causes the flag leaf of wheat to curl, which results in distorted heads that take on a "fish hook" appearance. Leaf streaking and corkscrew curling are also plant symtoms to look for as the RWA injects a toxin while feeding. Other aphids, such as the corn leaf aphid, oat bird-cherry aphid, and greenbug are also found on wheat. Therefore, accurate identification is extremely important. Contact your Farm Advisor if you suspect the presence of the Russian Wheat Aphid.

SAMPLE COST TO PRODUCE WHEAT ON MINERAL SOIL

CROP.....	WHEAT	GROSS INCOME PER ACRE	$ 308.00
YIELD/ACRE IN TONS.....	2.8	TOTAL CASH COST/ACRE	333.56
MARKET VALUE/TON.....	$110.00	NET LOSS/ACRE	$ -25.56

CULTURAL COSTS: FUEL & SEED	COST/A	LABOR COST/A	YOUR COST/A
Chop Stubble	$ 0.28	$ 1.50	
Disc 2x	1.08	1.76	
Plow	1.00	1.32	
Spring tooth,flat roll	0.70	1.05	
Level Plane	0.67	0.88	
Pre N/roller	0.70	1.05	
Float/ringroller	0.54	0.88	
List Beds/Flatroll	0.62	1.32	
Plant Drill	0.20	1.05	
Seed (150#/a @ $12/cwt)	18.00		
Employee pick-ups	3.14		
TOTAL	$ 26.93	$ 10.81*	

IRRIGATION			
Irrigation 1-2x (electricity)	$ 10.00	$ 15.00	
Drain Maintenance	1.00		
TOTAL	$ 11.00	$ 15.00*	

CHEMICALS		APPLICATIONS	
Preplant Nitrogen (100#/a) as aqua	$ 18.00		
Starter 11-52-0 (100#/a)	15.65		
2,4-D for broadleaf weeds (1.5 pt/a)	2.33	$ 6.00	
Ammonium Nitrate or urea topdress (1-2x)(50#/a each time)	32.00	12.00	
TOTAL	$ 67.98	$ 18.00	

HARVEST		
Truck fuel	$ 0.25	
Harvester fuel	0.50	
TOTAL	$ 0.75	

LABOR		
Cultural ($5.25/hr)	$ 10.81	
Irrigation ($4.75/hr) 2x	15.00	
Harvest/2 men	3.33	
Overtime	2.71	
TOTAL	$ 31.85	

* Included in labor budget

CASH OVERHEAD	COST/A	YOUR COST/A
Share rent (15% of gross income)	$ 46.20	
Management salary/benefits	16.32	
Repairs, maintenance, supplies	54.25	
Employee benefits (36% of labor cost)	11.47	
Office management expense	10.86	
Insurance	5.00	
Taxes on equipment	2.57	
TOTAL	$146.67	

DEBT SERVICE		
Interest on Operating Loan	$ 29.25	
Interest on Equipment	1.43	
TOTAL	$ 30.68	

TOTAL GROSS INCOME	$ 308.00
TOTAL CASH EXPENSES/ACRE ..	333.56
NET LOSS	$ -25.56

NON-CASH COSTS		
Equipment Depreciation	$ 20.00	
Interest on Buildings	0.24	
Building Depreciation	3.33	
TOTAL:	$ 23.57	

SAMPLE COSTS TO PRODUCE WHEAT ON PEAT TYPE SOILS

CROP.....	WHEAT	GROSS INCOME PER ACRE	$ 308.00
YIELD/ACRE IN TONS.....	2.8	TOTAL CASH COST/ACRE	234.28
MARKET VALUE/TON.....	$110.00	NET INCOME/ACRE	$ 73.72

CULTURAL COSTS: FUEL & SEED	COST/A	LABOR COST/A	YOUR COST/A
Disc 2x	$ 1.08	$ 1.76	
Plow	1.00	1.32	
Drag float or land plane	0.67	0.88	
Disc	0.54	0.88	
Spud ditch	0.44	0.78	
Plant seed/apply starter fert.	0.20	1.05	
Seed (175#/a @ $12/cwt)	21.00		
Employee pick-ups	3.14		
TOTAL	$ 28.07	$ 6.67*	
IRRIGATION			
Irrigation (1x)	$ 1.00		
Drain Maint.	1.00		
TOTAL	$ 2.00		
CHEMICALS		**APPLICATIONS**	
Starter 11-52-0 (100#/a)	$ 15.65		
2,4-D (1.5 pt/a) for broadleaf weeds	2.33	$ 6.00	
TOTAL	$ 17.98	$ 6.00	
HARVEST			
Truck fuel	$ 0.25		
Harvester fuel	0.50		
TOTAL	$ 0.75		
LABOR			
Cultural ($5.25/hr)	$ 6.67		
Harvest/2 men	3.33		
TOTAL	$ 10.00		

* Included in labor budget

CASH OVERHEAD	COST/A	YOUR COST/A
Share rent (15% of gross income)	$ 46.20	
Management salary/benefits	16.32	
Repairs, maintenance, supplies	54.25	
Employee benefits (36% of labor cost)	3.60	
Office management expense	10.86	
Insurance	5.00	
Taxes on equipment	2.57	
TOTAL	$138.80	

DEBT SERVICE		
Interest on operating loan	$ 29.25	
Interest on equipment	1.43	
TOTAL	$ 30.68	

TOTAL GROSS INCOME	$ 308.00
TOTAL CASH EXPENSES/ACRE ..	234.28
NET INCOME/ACRE	$ 73.72

NON-CASH COSTS		
Equipment Depreciation	$ 20.00	
Interest on Buildings	0.24	
Building Depreciation	3.33	
TOTAL:	$ 23.57	