

Barley #108

COST & RETURNS SUMMARY FOR BARLEY
 COSTS AND RETURNS FOR IRRIGATED BARLEY
 MERCED AND MADERA COUNTIES 1981
 YIELD: 35 CWT (1.75 TON) PER ACRE

BY FARM ADVISORS: BILL WEIR
 RON VARGAS

BL-VN-81

	UNIT	PRICE OR COST/UNIT	QUANTITY	VALUE OR COST PER ACRE	YOUR COST
1. GROSS RECEIPTS FROM PRODUCTION:					
BARLEY	CWT.	7.250	35.000	253.75	
TOTAL RECEIPTS:				253.75	
2. VARIABLE COSTS:					
PREHARVEST:					
AMMONIUM SULPHAT	LBS.	0.300	80.000	24.00	
BARLEY, SEED	CWT.	12.000	1.000	12.00	
TOPDRESS FERT	LBS.	0.300	25.000	7.50	
BROAD LEAF HERB	ACRE	5.000	1.000	5.00	
CUSTOM AIR HERB	ACRE	4.000	1.000	4.00	
TRACTOR (FUEL-LUBE-REPAIRS)	ACRE			9.57	
EQUIPMENT (FUEL-LUBE-REPAIRS)	ACRE			3.99	
BUILDINGS (FUEL-LUBE-REPAIRS)	ACRE			2.87	
MACHINERY LABOR	HOUR	6.000	1.757	10.54	
IRRIGATION LABOR	HOUR	5.000	2.000	10.00	
INTEREST ON OPERATING CAP.	DOL.	0.14000	44.872	6.09	
TOTAL PREHARVEST COSTS:				95.57	
PREHARVEST COST PER CWT.				2.7306	
HARVEST:					
CUSTOM COMBINE	TON	5.000	1.750	8.75	
CUSTOM COMBINE	ACRE	14.000	1.000	14.00	
CUSTOM HAULING	TON	4.300	1.750	7.53	
TOTAL HARVEST COSTS:				30.28	
HARVEST COST PER CWT.				0.8650	
TOTAL VARIABLE COSTS:				125.84	
VARIABLE COST PER CWT.				3.5956	
3. GROSS INCOME ABOVE VARIABLE COSTS:					
GROSS INCOME PER CWT.				127.91	
				3.6544	
4. OVERHEAD:					
PERSONAL PROPERTY TAXES:				7.22	
REAL PROPERTY TAXES:				22.50	
MISC. OFFICE & BOOKKEEPING (6.00% OF TOTAL VARIABLE COSTS)				7.55	
TOTAL OVERHEAD:				37.27	
OVERHEAD COST PER CWT.				1.0649	
TOTAL CASH COSTS:				163.12	
TOTAL CASH COST PER CWT.				4.6605	
5. INCOME ABOVE ALL CASH COSTS:					
INCOME PER CWT.				90.63	
				2.5895	
6. OWNERSHIP COSTS:					
DEPRECIATION:					
MACHINERY & EQUIPMENT	ACRE			17.62	
BUILDINGS	ACRE			14.62	
TOTAL DEPRECIATION:				32.25	
CAPITAL & INTEREST:					
MACHINERY&EQUIPMENT		0.14000	177.533	24.85	
BUILDINGS		0.10670	287.528	30.68	
LAND		0.10670	2000.000	213.40	
TOTAL INTEREST CHARGE:				268.93	
TOTAL FIXED COSTS:				301.18	
FIXED COST PER CWT.				8.6051	
7. TOTAL OF ABOVE COSTS:					
TOTAL COST PER CWT.				464.30	
				13.2656	
8. NET RETURNS:					
NET RETURNS PER CWT.				-210.55	
				-6.0156	

ON 80 ACRES BARLEY ON 160 ACRE FARM
 FLOOD IRRIGATION: 12 ACIN PER YEAR WELL WATER
 LAND OWNERSHIP BASIS
 DATE PRINTED: 02/13/81 HARVEST MONTH: 6

UPDATED 2/8/81
 BUDGET RECORD NUMBER 108

1980 default data

FUEL USE SUMMARY FOR BUDGET RECORD NUMBER 108
 COSTS AND RETURNS FOR IRRIGATED BARLEY BY FARM ADVISORS: BILL WEIR
 MERCED AND MADERA COUNTIES 1981
 YIELD: 35 CWT (1.75 TON) PER ACRE

*** TEMPORARY BUDGET ***
 RON VARGAS

FUEL USED IN GALLONS PER HOUR

TRACTOR 75 HP 3.600
 TRACTOR 120 HP 5.760
 PICKUP 1/2 T 4.000
 IRR PUMP 75 HP* 26.256 (KWHRS)

FUEL ALLOCATED TO OPERATIONS IN GALLONS PER ACRE COVERED

MACHINE	GALLONS	POWER UNIT
PICKUP 1/2 T	0.073	
DISC OFFSET HDTY	1.100	TRACTOR 120 HP
DRY FERT APPLIC.	1.031	TRACTOR 75 HP
SPIKE HARROW	0.787	TRACTOR 75 HP
GRAIN DRILL	1.098	TRACTOR 75 HP
SURFACE IRR SYS*	157.538 (KWHRS)	IRR PUMP 75 HP*

FUEL ALLOCATED TO OPERATIONS FOR THE BUDGET UNIT

	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL	FUEL TYPE
DISC OFFSET HDTY	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.200	0.000	0.000	2.200	DIESEL
DRY FERT APPLIC.	0.000	1.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.031	0.000	2.063	DIESEL
SPIKE HARROW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.787	0.000	0.000	0.787	DIESEL
GRAIN DRILL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.098	0.000	0.000	1.098	DIESEL
PICKUP 1/2 T	0.000	0.073	0.000	0.073	0.073	0.073	0.000	0.000	0.000	0.073	0.073	0.000	0.436	GAS
SURFACE IRR SYS*	0.000	0.000	0.000	78.769	78.769	0.000	0.000	0.000	0.000	0.000	0.000	0.000	157.538	KWH
TOTALS	0.000	1.104	0.000	78.842	78.842	0.073	0.000	0.000	0.000	4.158	1.104	0.000	6.584	

GALLONS FUEL BY TYPE

0.44 GAS

0.00 LP

15 DIESEL

10 N. GAS

1.04 KWHRS

FUEL TYPES

1=GAS

2=L.P.

3=DIESEL

4=N. GAS

5=ELEC.

BASED ON 80 ACRES BARLEY ON 160 ACRE FARM
 FLOOD IRRIGATION: 12 ACIN PER YEAR WELL WATER
 LAND OWNERSHIP BASIS
 DATE PRINTED: 02/13/81

UPDATED 2/8/81

MACHINERY OPERATIONS SUMMARY
 COSTS AND RETURNS FOR IRRIGATED BARLEY
 MERCED AND MADERA COUNTIES 1981
 YIELD: 35 CWT (1.75 TON) PER ACRE

BUDGET RECORD NUMBER 108
 BY FARM ADVISORS: BILL WEIR
 RON VARGAS

*** TEMPORARY BUDGET ***

OPERATION	ITEM NO.	DATE	TIMES OVER	LABOR HOUR	MACHINE HOURS	FUEL, OIL, LUB., REP. PER ACRE	FIXED COSTS PER ACRE
DISC OFFSET HDTY	7,	62 OCT	2.00	0.420	0.347	4.98	17.41
SPIKE HARROW	4,	74 OCT	1.00	0.241	0.199	1.41	4.12
GRAIN DRILL	4,	106 OCT	1.00	0.335	0.277	2.37	10.43
PICKUP 1/2 T		14 OCT	1.00	0.022	0.018	0.12	0.07
DRY FERT APPLIC.	4,	69 NOV	1.00	0.315	0.260	2.04	8.67
PICKUP 1/2 T		14 NOV	1.00	0.022	0.018	0.12	0.07
RY FERT APPLIC.	4,	69 FEB	1.00	0.315	0.260	2.04	8.67
PICKUP 1/2 T		14 FEB	1.00	0.022	0.018	0.12	0.07
PICKUP 1/2 T		14 APR	1.00	0.022	0.018	0.12	0.07
PICKUP 1/2 T		14 MAY	1.00	0.022	0.018	0.12	0.07
PICKUP 1/2 T		14 JUNE	1.00	0.022	0.018	0.12	0.07
TOTALS				1.757	1.453	13.56	49.70

BASED ON 80 ACRES BARLEY ON 160 ACRE FARM
 FLOOD IRRIGATION: 12 ACIN PER YEAR WELL WATER
 LAND OWNERSHIP BASIS
 DATE PRINTED: 02/13/81

UPDATED 2/8/81

UC Cooperative Extension

CASH FLOW & INVESTMENT SUMMARY FOR BARLEY

*** TEMPORARY BUDGET ***

BUDGET RECORD NUMBER 108

COSTS AND RETURNS FOR IRRIGATED BARLEY
MERCED AND MADERA COUNTIES 1981
YIELD: 35 CWT (1.75 TON) PER ACRE

BY FARM ADVISORS: BILL WEIR
RON VARGAS

CATEGORY	UNIT	MONTHLY SUMMARY OF RECEIPTS AND EXPENSES												TOTAL
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
TOTAL RECEIPTS	\$/AC	0.00	0.00	0.00	0.00	0.00	253.75	0.00	0.00	0.00	0.00	0.00	0.00	253.75
OPERATING EXPENSES														
AMMONIUM SULPHAT	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.00	0.00	24.00
BARLEY, SEED	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.00	0.00	12.00
TOPDRESS FERT	\$/AC	0.00	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.50
BROAD LEAF HERB	\$/AC	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00
CUSTOM AIR HERB	\$/AC	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00
CUSTOM COMBINE	\$/AC	0.00	0.00	0.00	0.00	0.00	8.75	0.00	0.00	0.00	0.00	0.00	0.00	8.75
CUSTOM COMBINE	\$/AC	0.00	0.00	0.00	0.00	0.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	14.00
CUSTOM HAULING	\$/AC	0.00	0.00	0.00	0.00	0.00	7.53	0.00	0.00	0.00	0.00	0.00	0.00	7.53
MACHINE LABOR COST	\$/AC	0.00	2.02	0.00	0.13	0.13	0.13	0.00	0.00	0.00	6.11	2.02	0.00	10.54
INTEREST ON OPER. CAP.	\$/AC	0.00	0.98	0.00	0.33	0.18	0.03	0.00	0.00	0.00	1.38	3.20	0.00	6.09
TRACTOR COST	\$/AC	0.00	1.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.45	1.56	0.00	9.57
EQUIPMENT COST	\$/AC	0.00	0.60	0.00	0.12	0.12	0.12	0.00	0.00	0.00	2.42	0.60	0.00	3.99
BLDG OPER. COST	\$/AC	0.00	0.48	0.00	0.48	0.48	0.48	0.00	0.00	0.00	0.48	0.48	0.00	2.87
IRRIG LABOR COST	\$/AC	0.00	0.00	0.00	5.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.00
TOTAL EXPENSES	\$/AC	0.00	22.14	0.00	13.58	13.44	31.04	0.00	0.00	0.00	16.84	43.86	0.00	125.84

MONTHLY IRRIGATION AND LABOR REQUIREMENTS														
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
MACHINE LABOR	HR/AC	0.00	0.34	0.00	0.02	0.02	0.02	0.00	0.00	0.00	1.02	0.34	0.00	1.76
IRRIGATION LABOR	HR/AC	0.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00
IRRIG. WATER APPLIED	ACIN	0.00	0.00	0.00	6.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.00

MACHINERY FIXED AND VARIABLE COSTS PER ACRE														
MACHINE	CODE	SIZE	PURCHASE PRICE	YEARS OWNED	ANN HOURS USED	FIXED COST PER ACRE			VARIABLE COST PER ACRE				HRS PER ACRE	
						DEPR.	INTER.	TAX	FUEL	LUBE	REPAIRS	TOTAL		
TRACTOR 75 HP	4	75.0	17400.	20.	300.	2.77	5.02	1.43	9.23	3.79	0.57	1.62	5.98	1.097
TRACTOR 120 HP	7	120.0	36000.	20.	300.	2.00	3.62	1.03	6.65	2.11	0.32	1.17	3.60	0.382
PICKUP 1/2 T	14	0.5	9000.	8.	500.	0.19	0.17	0.04	0.40	0.52	0.08	0.13	0.74	0.109
IRR PUMP 75 HP*	22	2.0	0.	25.	3200.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.000
DISC OFFSET HDTY	62	18.0	9720.	15.	50.	4.07	5.18	1.52	10.77	0.00	0.03	1.35	1.38	0.347
DRY FERT APPLIC.	69	12.0	4520.	15.	30.	4.76	5.99	1.77	12.51	0.00	0.02	0.94	0.96	0.521
SPIKE HARROW	74	20.0	2880.	15.	40.	0.86	1.10	0.32	2.28	0.00	0.00	0.21	0.22	0.199
GRAIN DRILL	106	12.0	4800.	15.	27.	2.97	3.78	1.11	7.86	0.00	0.01	0.69	0.71	0.277
SURFACE IRR SYS*	128	2.0	0.	10.	5000.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.000
FARM SHOP	2		21060.	35.		6.77	15.45	2.63	24.85	2.63		0.11	2.75	
TOOLS-SHOP EQUIP	4		6143.	15.		3.58	5.33	0.77	9.68	0.00		0.10	0.10	
STORAGE SHED	8		13163.	35.		4.23	9.66	1.65	15.53	0.00		0.02	0.02	
FUELTANK 550 GAL	18		234.	30.		0.04	0.25	0.03	0.32	0.00		0.00	0.00	

MACHINERY & EQUIPMENT INVESTMENT & COSTS PER ACRE
TOTAL INVESTMENT 124919.

BASED ON 80 ACRES BARLEY ON 160 ACRE FARM
FLOOD IRRIGATION: 12 ACIN PER YEAR WELL WATER
LAND OWNERSHIP BASIS
DATE PRINTED: 02/13/81

UC Cooperative Extension
UPDATED 2/8/81

RANGING ANALYSIS FOR BUDGET RECORD NUMBER 108
 COSTS AND RETURNS FOR IRRIGATED BARLEY BY FARM ADVISORS: BILL WEIR
 MERCED AND MADERA COUNTIES 1981 RON VARGAS
 YIELD: 35 CWT (1.75 TON) PER ACRE

*** TEMPORARY BUDGET ***

INCOME ABOVE VARIABLE COSTS WHEN THE PRICE OF BARLEY AND THE QUANTITY OF BARLEY		RANGES FROM RANGES FROM		6.53 TO 28.00 TO	7.97 42.00	
		PRICE OF BARLEY				
		6.53	6.89	7.25	7.61	7.97

28.00	*	57.00	67.08	77.16	87.24	97.32
	*					
31.50	*	79.85	91.19	102.53	113.87	125.21
	*					
35.00	*	102.71	115.31	127.91	140.51	153.11
	*					
38.50	*	125.56	139.42	153.28	167.14	181.00
	*					
42.00	*	148.42	163.54	178.66	193.78	208.90
	*					

INCOME ABOVE ALL CASH COSTS WHEN THE PRICE OF BARLEY AND THE QUANTITY OF BARLEY		RANGES FROM RANGES FROM		6.53 TO 28.00 TO	7.97 42.00	
		PRICE OF BARLEY				
		6.53	6.89	7.25	7.61	7.97

28.00	*	19.72	29.80	39.88	49.96	60.04
	*					
31.50	*	42.58	53.92	65.26	76.60	87.94
	*					
35.00	*	65.43	78.03	90.63	103.23	115.83
	*					
38.50	*	88.29	102.15	116.01	129.87	143.73
	*					
42.00	*	111.14	126.26	141.38	156.50	171.62
	*					

INCOME ABOVE ALL COSTS WHEN THE PRICE OF BARLEY AND THE QUANTITY OF BARLEY		RANGES FROM RANGES FROM		6.53 TO 28.00 TO	7.97 42.00	
		PRICE OF BARLEY				
		6.53	6.89	7.25	7.61	7.97

28.00	*	-281.46	-271.38	-261.30	-251.22	-241.14
	*					
31.50	*	-258.60	-247.26	-235.92	-224.58	-213.24
	*					
35.00	*	-235.75	-223.15	-210.55	-197.95	-185.35
	*					
38.50	*	-212.89	-199.03	-185.17	-171.31	-157.45
	*					
42.00	*	-190.04	-174.92	-159.80	-144.68	-129.56
	*					

BASED ON 80 ACRES BARLEY ON 160 ACRE FARM
 FLOOD IRRIGATION: 12 ACIN PER YEAR WELL WATER
 LAND OWNERSHIP BASIS
 DATE PRINTED: 02/13/81

UC Cooperative Extension
 UPDATED 2/8/81

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STORED DATA PAGE (NO CALCULATIONS) FOR BARLEY

BUDGET RECORD NUMBER 108

COSTS AND RETURNS FOR IRRIGATED BARLEY
MERCED AND MADERA COUNTIES 1981
YIELD: 35 CWT (1.75 TON) PER ACRE

BY FARM ADVISORS: BILL WEIR
RON VARGAS

COSTS AND RETURNS WILL BE
DIVIDED BY 35.0 CWT.
TO OBTAIN PER CWT. COSTS

LINE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	PRICE	SHARE	UNIT	ITEM	TYPE	XXXX	
PRODUCTION	NUMBER OF UNITS																		
1 BARLEY	0.00	0.00	0.00	0.00	0.00	35.00	0.00	0.00	0.00	0.00	0.00	0.00	7.250	0.000	16.	11.	2.	0.	
OPERATING INPUTS	RATE/UNIT																		
														PRICE	SHARE	UNIT	ITEM	TYPE	HARV
														RENT	RENT	CODE	CODE	CODE	CODE
4 AMMONIUM SULPHAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	80.00	0.00	0.300	0.000	12.	218.	3.	0.	
5 BARLEY, SEED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	12.000	0.000	16.	111.	3.	0.	
6 TOPDRESS FERT	0.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.300	0.000	12.	203.	3.	0.	
7 BROAD LEAF HERB	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.000	0.000	7.	252.	3.	0.	
8 CUSTOM AIR HERB	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.000	0.000	7.	373.	3.	0.	
10 CUSTOM COMBINE	0.00	0.00	0.00	0.00	0.00	1.75	0.00	0.00	0.00	0.00	0.00	0.00	5.000	0.000	3.	305.	3.	9.	
11 CUSTOM COMBINE	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	14.000	0.000	7.	305.	3.	9.	
12 CUSTOM HAULING	0.00	0.00	0.00	0.00	0.00	1.75	0.00	0.00	0.00	0.00	0.00	0.00	4.300	0.000	3.	306.	3.	9.	

MACHINERY REQUIREMENTS	IMPLEMENTS = TIMES OVER, TRUCKS = # MILES/ACRE, TRACTORS = HRS/ACRE												N CREW POWER MACH TYPE HARV					
													LABOR	UNIT	CODE	CODE	CODE	
26 DISC OFFSET HDTY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.000	0.000	7.	62.	4.	0.
27 DRY FERT APPLIC.	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.000	0.000	4.	69.	4.	0.
28 SPIKE HARROW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.000	0.000	4.	74.	4.	0.
29 GRAIN DRILL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.000	0.000	4.	106.	4.	0.
33 PICKUP 1/2 T	0.00	1.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	1.00	1.00	0.00	0.000	0.000	0.	14.	4.	0.
													SHARE	SHARE	POWER	SYSA		
													FIXED %	VAR %	UNIT	CODE	LIFT	
49 ACIN IRRIG WATER	0.00	0.00	0.00	6.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	22.	128.	100.	
50 NO. TIMES IRRIG	0.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						

EQUIPMENT REQUIREMENTS	NUMBER				PROPORT				XXX EQUIP TYPE XXX			
	UNITS				OF COST				CODE			
51 FARM SHOP	1.000				0.500				0. 2. 5. 0.			
52 TOOLS-SHOP EQUIP	1.000				0.500				0. 4. 5. 0.			
53 STORAGE SHED	1.000				0.500				0. 8. 5. 0.			
54 FUEL TANK 550 GAL	1.000				0.500				0. 18. 5. 0.			

LAND REQUIREMENTS	2	3	4	5	6	7	8
	CHARGE	NUMBER	VALUE OR	TAXES	PERENNIAL CROPS		
	METHOD	OF ACRES	COST/ACRE	PER ACRE	YRS LIFE	COST/ACRE	
71	1.	80.00	2000.00	22.50	0.0	0.00	
ENTERPRISE 2-11 REGION/COUNTY 24 UNASSIGNED 0000 MACH COMP 1 IRRIG SYST 1 UNASSIGNED 0 EQUIP SET 1 HARVEST MONTH 6							

BASED ON 80 ACRES BARLEY ON 160 ACRE FARM
FLOOD IRRIGATION: 12 ACIN PER YEAR WELL WATER
LAND OWNERSHIP BASIS

UPDATED 2/8/81

MACHINERY COMPLEMENT 1
EQUIPMENT COMPLEMENT 1

NO NAME CHANGES HAVE BEEN STORED WITH THIS BUDGET

PARAMETER CHGS-->	RW	CL	VALUE	RW	CL	VALUE	RW	CL	VALUE	RW	CL	VALUE	RW	CL	VALUE
10.			6.000000	11.		4.900000	12.		5.000000	28.		0.060000			

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UC Cooperative Extension

1980 default data