

COOPERATIVE EXTENSION
UNIVERSITY OF CALIFORNIA

CALIFORNIA 95616

1983

SAMPLE PRODUCTION COSTS
COSTS OF PRODUCING FANTASIA NECTARINES (MIDSEASON)
Tulare, Fresno & Kings Counties

by

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and

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Costs given in this sample study are for those of a typical well managed orchard and are not intended to reflect an average of all orchards in Tulare, Fresno and Kings Counties.

This study is based upon a 10 acre block out of a 40 acre total fruit orchard. The same machinery, pump and some other costs are shared on the whole orchard.

Practices listed are based on those considered typical production procedures. Sample costs given for labor, materials, equipment and contract services are based on 1983 figures. Interest and depreciation are based upon the cost of new equipment and recent land purchases. Some costs or practices listed in this study may not be applicable to your situation. The study is intended as a guide only.

For explanation of calculations used for the study refer to the attached cost estimate assumptions or call Agriculture Economics Extension, University of California, Davis, California (916) 752-3563.

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10 acres of a 40 acre orchard - 108 trees/acre

Furrow Irrigation: 44 ac.in. total 50% district water, 50% well water

Land owner basis Yield: 1300 lugs/acre (23 lbs/lug)

Cost Estimate Assumptions:

1. Prune in January:

Labor - 36 min/tree x 108 trees/acre (÷ 60 min/hr) = 64.8 hrs/acre

64.8 hrs/acre @ \$ 5.25/hr = \$340.20/acre

Brush shredding - contract \$10.00/acre

2. Pest control:

Jan: Basic zinc

3 lb/100 gal of water x 5 (for 500 gal/acre) @ .60/lb = \$ 9.00/acre

Spray oil

1 gal/100 gal of water x 5 (for 500 gal/acre) @ 3.50/gal = 17.50/acre

Parathion (25wp)

2 lb/100 gal of water x 5 (for 500 gal/acre) @ 1.25/lb = 12.50/acre

Basic copper

4 lb/100 gal of water x 5 (for 500 gal/acre) @ 1.10/lb = 22.00/acre

Total dormant materials (1 application) \$61.00/acre

Dormant spray to control San Jose scale, peach twig borer, peach leaf curl, zinc deficiency and over wintering mite eggs.

Feb: Fungicide (benomyl) for brown rot 1.5 lb/ac @ \$13.50/lb = \$ 20.25/acre

Mar: Insecticide at petal fall for thrips 1.25 lb/ac @ \$20.00/lb = 25.00/acre

Jul: Fungicide (benomyl) for brown rot 1.5 lb/ac @ \$13.50/lb = 20.25/acre

Insecticide at pre-harv for thrips 1.25 lb/ac @ \$20.00/lb = 25.00/acre

Miticide 1 lb/acre @ 20.00/lb = 20.00/acre

Total materials for 6 applications = \$171.50/acre

Application - speed sprayer, 500 gal pulled by 65hp diesel tractor

- 1 pass in orchard each application

3. Tie limbs in February:

Labor & materials 108 trees/acre @ \$.70/tree = \$75.60/acre

4. Furrow in March, May, July:

Furrower, 2 shovel pulled by 65hp diesel tractor - 1 pass in orchard each month

March prior to frost

May after thinning

July weed control

5. Thin fruit in May:

Labor - 43.2 hrs/acre @ \$5.25/hr = \$226.80/acre

6. Fertilize in May and September:

Materials May: .5 lbs N/tree x 108 trees/acre @ \$.34/lb = \$18.36/acre

Sept: .75 lbs N/tree x 108 trees/acre @ \$.34/lb = \$27.54/acre

Total materials \$45.90/acre

Application - contract \$3.50/acre x 2 applications = \$7.00/acre

7. Disc in May, July, October:

Offset disc pulled by 65hp diesel tractor - 1 pass in orchard each month

May before furrowing

July before furrowing

October before pruning

8. Irrigation:

Furrow irrigation system includes:

Pipeline	\$300/acre x 40 acres	\$12,000
Well, 120 ft, 10-12" casing		<u>2,300</u>
		\$14,300

Pump: 15hp, 70 ft lift, 450 gal/min = 1.0 ac.in./hr, \$7,900

Irrigation labor - 1 hr/application/acre

9 irrigations - 44 ac.in. total:	22 ac.in. district water
	22 ac.in. well water

District water cost: \$14.00/acre

First irrigation or two is well water, district water used until unavailable, then well water for balance of season.

		well	district
April	1x	4.0	
May	1x	4.0	
June	2x		11.0
July	2x		11.0
August	2x	10.0	
September	1x	<u>4.0</u>	
Total ac.in.		22.0	<u>22.0</u>

An irrigation in March is possible for frost protection.

9. Weed control in May-September and December:

May-Sept: Labor (hoeing and touch up spraying) 1 hr/ac @ \$5.25/hr = \$5.25/acre
 Materials - additional spray \$7.50/acre

December: Materials pre-emergence herbicide \$12.00/acre
 Application - contract \$7.00/acre

10. Misc. Labor:

4 hrs/acre @ \$5.25/hr = \$21.00/acre
 1/3 hour charged each month for 12 months

11. Pickup: 25 miles/acre/month

12. Harvest in July:

Yield: 1300 packed lugs/acre (23 lbs/lug)

Price: \$5.50/lug (based on 1980 prices)

Contract harvest

Pick: \$.71/lug x 1300 lugs/acre = \$923.00/acre

\$25/bin 35 carton packout

Haul: \$.10/lug x 1300 lugs/acre = \$130.00/acre

Misc. harvest labor: 4 hrs/ac @ \$5.25/hr = \$21.00/acre

Packing charges: \$2.35/lug

Selling charges: 10% of gross sales price = \$.55/lug

13. Labor rates include benefits:

Machinery operators \$5.90/hr

Irrigators \$5.90/hr

Misc. Labor \$5.25/hr

14. Buildings and equipment:

Farm shop 1500 sq. ft. @ \$12/sq.ft \$18,000

Tools and shop equipment \$12,285

Proportion allocated to Stone Fruit Orchard = 25% of above

INSUFFICIENT STORAGE FOR COOICE 254 PRE-EMERGE HERB
INSUFFICIENT STORAGE FOR COOICE 53 FURROW IRRIG SYS*

STORED DATA PAGE (NO CALCULATIONS) FOR NECTARINES

BUDGET RECORD NUMBER 4B

COSTS OF PRODUCING FANTASIA NECTARINES (MIDSEASON)
BY J. LARUE, F. YOSHIKAWA, G. BEEDE, AND K. KLONSKY
TULARE, FRESNO AND KINGS COUNTIES

COSTS AND RETURNS WILL BE
DIVIDED BY 1300.0 LUGS
TO OBTAIN PER LUGS COSTS

LINE PRODUCTION	NUMBER OF UNITS												PRICE	SHARE	UNIT	ITER	TYPE	XXXX	
	1	2	3	4	5	6	7	8	9	10	11	12							
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC							
1 NECTARINES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.500	0.000	27.	51.	2.	0.
OPERATING INPUTS																			
	RATE/UNIT												PRICE	SHARE	UNIT	ITER	TYPE	HARV	
	1	2	3	4	5	6	7	8	9	10	11	12							
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC							
6 PRUNING	64.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.250	0.000	8.	340.	3.	0.
7 BRUSH SHREDDING	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.000	0.000	7.	313.	3.	0.
8 PEST - DORRANT	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	61.000	0.000	7.	206.	3.	0.
9 TIE - RAT&LABOR	0.00	108.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.700	0.000	24.	342.	3.	0.
10 FUNG - BROWN ROT	0.00	0.50	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	40.500	0.000	7.	350.	3.	0.
11 INSECT. - THRIPS	0.00	0.00	0.50	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	50.000	0.000	7.	351.	3.	0.
13 THINNING	0.00	0.00	0.00	0.00	43.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.250	0.000	8.	337.	3.	0.
17 NITROGEN	0.00	0.00	0.00	0.00	54.00	0.00	0.00	0.00	81.00	0.00	0.00	0.00	0.00	0.340	0.000	12.	211.	3.	0.
CONTRACT N APPL.	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	3.500	0.000	34.	300.	3.	0.
20 DISTRICT WATER	0.00	0.00	0.00	0.00	0.00	0.50	0.50	0.00	0.00	0.00	0.00	0.00	0.00	14.000	0.000	7.	448.	3.	0.
22 WEED CONTROL	0.00	0.00	0.00	0.00	0.20	0.20	0.20	0.20	0.20	0.00	0.00	0.00	0.00	12.750	0.000	7.	267.	3.	0.
23 MITICIDE	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	20.000	0.000	12.	247.	3.	0.
25 PRE-EMERGE HERB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	12.000	0.000	7.	254.	3.	0.
26 CONTR. HERB APPL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	7.000	0.000	34.	361.	3.	0.
28 MISC. LABOR	0.33	0.33	0.34	0.33	0.33	0.34	0.33	0.33	0.34	0.33	0.33	0.34	0.34	5.250	0.000	8.	252.	3.	0.
29 CONTRACT PICK	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.710	0.000	27.	326.	3.	9.
30 CONTRACT HAUL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.100	0.000	27.	327.	3.	9.
31 PACKING CHARGES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.350	0.000	27.	150.	3.	9.
32 SELLING CHARGES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.550	0.000	27.	151.	3.	9.
33 MISC HARV LABOR	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	5.250	0.000	8.	152.	3.	9.

MACHINERY REQUIREMENTS	IMPLEMENTS = TIMES OVER, TRUCKS = # MILES/ACRE, TRACTORS = HRS/ACRE												M CREW	POWER	HACH	TYPE	HARV		
	LABOR	UNIT	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE							
35 DISC-OFFSET	0.00	0.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.000	0.000	4.	78.	4.	0.	
36 FURROWER 2SHOVEL	0.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	4.	102.	4.	0.	
37 SPD SPRYR 500 GA	1.00	1.00	1.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	4.	71.	4.	0.	
39 PICKUP 1/2 TON	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	0.000	0.000	0.	14.	4.	0.	
SHARE SHARE POWER SYSM																			
FIXED % VAR % UNIT CODE LIFT																			
49 ACIN IRRIG WATER	0.00	0.00	0.00	4.00	4.00	0.00	0.00	10.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	21.	53.	70.	
50 NO. LINES IRRIG	0.00	0.00	0.00	1.00	1.00	2.00	2.00	2.00	1.00	0.00	0.00	0.00							

EQUIPMENT REQUIREMENTS	COLUMNS	CHARGE METHOD	NUMBER OF ACRES	VALUE OR COST/ACRE	TAXES PER ACRE	PERENNIAL CROPS YRS LIFE	COST/ACRE	NUMBER	PROPERT	XXX	EQUIP	TYPE	XXXX
								UNITS	OF COST	CODE	CODE	CODE	
52 FARM SHOP								1.000	0.250	0.	1.	5.	0.
53 TOOLS-SHOP EQUIP								1.000	0.250	0.	4.	5.	0.

LAND REQUIREMENTS	2	3	4	5	6	7	8
	CHARGE METHOD	NUMBER OF ACRES	VALUE OR COST/ACRE	TAXES PER ACRE	PERENNIAL CROPS YRS LIFE	COST/ACRE	
71	1.	10.00	5500.00	55.00	20.0	6440.90	
ENTERPRISE 2-51 REGION/COUNTY 64 UNASSIGNED 00000 HACH CCHP 7 IRRIG SYST 6 UNASSIGNED 0 EQUIP SET 1 HARVEST RCHTH 7							

BASED ON 10 ACRES OF 40 ACRE ORCHARD - 100 TREES/ACRE
 FURROW IRRIGATION: 44 AC.IN. TOTAL 50% DISTRICT WATER, 50% WELL WATER MACHINERY COMPLEMENT 7
 LAND OWNER BASIS YIELD: 1300 LUGS/ACRE (23 LBS/LUG) UPDATED 02/28/83 EQUIPMENT COMPLEMENT 1

LINE CHANGE	GENERAL NAME CHANGE	LINE CHANGE	GENERAL NAME CHANGE	LINE CHANGE	GENERAL NAME CHANGE	LINE CHANGE	GENERAL NAME CHANGE	LINE CHANGE	GENERAL NAME CHANGE
206	PEST - DORRANT	350	FUNG - BROWN ROT	351	INSECT. - THRIPS	342	TIE - RAT&LABOR	313	BRUSH SHREDDING
339	THINNING	300	CONTRACT N APPL.	446	DISTRICT WATER	269	WEED CONTROL	361	CONTR. HERB APPL
252	MISC. LABOR	326	CONTRACT PICK	327	CONTRACT HAUL	150	PACKING CHARGES	151	SELLING CHARGES
152	MISC HARV LABOR								
MACHINERY NAME CHANGE--> 4 TRACTOR 65HP 102 FURROWER 2SHOVEL 21 IRRIG PUMP 15HP									
EW CL	VALUE	EW CL	VALUE	EW CL	VALUE	EW CL	VALUE	EW CL	VALUE
70.	2. 0.000000	70.	3. 4000.000000	70.	13. 4000.000000	4.	2. 65.000000	4.	3. 20000.000000
	4.16. 65.000000	***	2. 8.000000	***	3. 450.000000	***	13. 450.000000	53.	2. 1.000000
	53.13.14300.000000	91.	2. 20.000000	91.	3.12500.000000	91.	13.12500.000000	14.	3.10000.000000
	21. 2. 1.000000	21.	3. 7900.000000	21.	13. 7900.000000	21.	16. 15.000000		

RANGING ANALYSIS FOR BUDGET RECORD NUMBER 48
 COSTS OF PRODUCING FANTASIA NECTARINES (MIDSEASON)
 BY J. LARUE, F. YOSHIKAWA, B. BEEDE, AND K. KLOWSKY
 TULARE, FRESNO AND KINGS COUNTIES

INCOME ABOVE VARIABLE COSTS

WHEN THE PRICE OF NECTARINES RANGES FROM 4.50 TO 6.50
 AND THE QUANTITY OF NECTARINES RANGES FROM 1100.00 TO 1500.00

QUANTITY OF NECTARINES	PRICE OF NECTARINES				
	4.50	5.00	5.50	6.00	6.50
1100.00	-1265.80	-715.80	-165.80	384.20	934.20
1200.00	-815.80	-215.80	384.20	984.20	1584.20
1300.00	-365.80	284.20	934.20	1584.20	2234.20
1400.00	84.20	784.20	1484.20	2184.20	2884.20
1500.00	534.20	1284.20	2034.20	2784.20	3534.20

INCOME ABOVE ALL CASH COSTS

WHEN THE PRICE OF NECTARINES RANGES FROM 4.50 TO 6.50
 AND THE QUANTITY OF NECTARINES RANGES FROM 1100.00 TO 1500.00

QUANTITY OF NECTARINES	PRICE OF NECTARINES				
	4.50	5.00	5.50	6.00	6.50
1100.00	-1498.80	-948.80	-398.80	151.20	701.20
1200.00	-1048.80	-448.80	151.20	751.20	1351.20
1300.00	-598.80	51.20	701.20	1351.20	2001.20
1400.00	-148.80	551.20	1251.20	1951.20	2651.20
1500.00	301.20	1051.20	1801.20	2551.20	3301.20

INCOME ABOVE ALL COSTS

WHEN THE PRICE OF NECTARINES RANGES FROM 4.50 TO 6.50
 AND THE QUANTITY OF NECTARINES RANGES FROM 1100.00 TO 1500.00

QUANTITY OF NECTARINES	PRICE OF NECTARINES				
	4.50	5.00	5.50	6.00	6.50
1100.00	-2995.61	-2445.61	-1895.61	-1345.61	-795.61
1200.00	-2545.61	-1945.61	-1345.61	-745.61	-145.61
1300.00	-2095.61	-1445.61	-795.61	-145.61	504.39
1400.00	-1645.61	-945.61	-245.61	454.39	1154.39
1500.00	-1195.61	-445.61	304.39	1054.39	1804.39

BASED ON 10 ACRES OF 40 ACRE ORCHARD - 100 TREES/ACRE
 FURROW IRRIGATION: 44 AC. IN. TOTAL 50% DISTRICT WATER, 50% WELL WATER
 LAND OWNER BASIS YIELD: 1300 LUGS/ACRE (23 LBS/LUG) UPDATED 02/28/83
 DATE PRINTED: 02/28/83

FUEL USE SUMMARY FOR BUDGET RECORD NUMBER 48
 COSTS OF PRODUCING FANTASIA NECTARINES (MIDSEASON)
 BY J. LARUE, F. YOSHIKAWA, G. BEEDE, AND K. KLONSKY
 TULARE, FRESHA AND KINGS COUNTIES

FUEL USED IN GALLONS PER HOUR

TRACTOR 65HP	3.120
PICKUP 1/2 TON	4.000
IRRIG PUMP 15HP	9.170 (KWHRS)

FUEL ALLOCATED TO OPERATIONS IN GALLONS PER ACRE COVERED

MACHINE	GALLONS	POWER UNIT
PICKUP 1/2 TON	0.200	
DISC-OFFSET	2.145	TRACTOR 65HP
FURROWER 2SHOVEL	1.966	TRACTOR 65HP
SFD SPRYR 500 GA	0.787	TRACTOR 65HP
FURROW IRIG SYS*	202.174 (KWHRS)	IRRIG PUMP 15HP

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	0.000	0.000	0.000	0.000	2.145	0.000	2.145	0.000	0.000	2.145	0.000	0.000	6.435	DIESEL
FURROWER 2SHOVEL	0.000	0.000	1.966	0.000	1.966	0.000	1.966	0.000	0.000	0.000	0.000	0.000	5.899	DIESEL
SFD SPRYR 500 GA	0.787	0.787	0.787	0.000	0.000	0.000	2.360	0.000	0.000	0.000	0.000	0.000	4.719	DIESEL
PICKUP 1/2 TON	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	60.000	GAS
FURROW IRIG SYS*	0.000	0.000	0.000	36.759	36.759	0.000	0.000	91.897	36.759	0.000	0.000	0.000	202.174	KWH
TOTALS	5.787	5.787	7.753	41.759	45.870	5.000	11.471	96.897	41.759	7.145	5.000	5.000	77.653	

GALLONS FUEL BY TYPE

60.00 GAS
 0.00 LP
 17.05 DIESEL
 0.00 N. GAS
 202.17 KWHRS

FUEL TYPES

1=GAS
 2=LP
 3=DIESEL
 4=N. GAS
 5=ELEC.

BASED ON 10 ACRES OF 40 ACRE ORCHARD - 100 TREES/ACRE

FURROW IRRIGATION: 44 AC. IN. TOTAL 50% DISTRICT WATER, 50% WELL WATER

LAND OWNER BASIS YIELD: 1300 LUGS/ACRE (23 LBS/LUG) UPDATED 02/28/83

DATE PRINTED: 02/28/83

MACHINERY OPERATIONS SUMMARY BUDGET RECORD NUMBER 48
 COSTS OF PRODUCING FANTASIA NECTARINES (MIDSEASON)
 BY J. LARUE, F. YOSHIKAWA, G. BEEDE, AND K. KLONSKY
 TULARE, FRESHA AND KINGS COUNTIES

OPERATION	ITEM NO.	DATE	TIMES OVER	LABOR HOUR	MACHINE HOURS	FUEL, OIL, FIXED LUB., REP. COSTS	
						PER ACRE	PER ACRE
PICKUP 1/2 TON	14	AUG	25.00	1.500	1.250	7.92	6.23
PICKUP 1/2 TON	14	SEPT	25.00	1.500	1.250	7.92	6.23
DISC-OFFSET	4, 78	OCT	1.00	0.756	0.625	4.64	11.31
PICKUP 1/2 TON	14	OCT	25.00	1.500	1.250	7.92	6.23
PICKUP 1/2 TON	14	NOV	25.00	1.500	1.250	7.92	6.23
PICKUP 1/2 TON	14	DEC	25.00	1.500	1.250	7.92	6.23
SFD SPRYR 500 GA	4, 91	JAN	1.00	0.277	0.229	2.38	8.40
PICKUP 1/2 TON	14	JAN	25.00	1.500	1.250	7.92	6.23
SFD SPRYR 500 GA	4, 91	FEB	1.00	0.277	0.229	2.38	8.40
PICKUP 1/2 TON	14	FEB	25.00	1.500	1.250	7.92	6.23
FURROWER 2SHOVEL	4, 102	MAR	1.00	0.693	0.573	3.25	7.01
SFD SPRYR 500 GA	4, 91	MAR	1.00	0.277	0.229	2.38	8.40
PICKUP 1/2 TON	14	MAR	25.00	1.500	1.250	7.92	6.23
PICKUP 1/2 TON	14	APR	25.00	1.500	1.250	7.92	6.23
DISC-OFFSET	4, 78	MAY	1.00	0.756	0.625	4.64	11.31
FURROWER 2SHOVEL	4, 102	MAY	1.00	0.693	0.573	3.25	7.01
PICKUP 1/2 TON	14	MAY	25.00	1.500	1.250	7.92	6.23
PICKUP 1/2 TON	14	JUNE	25.00	1.500	1.250	7.92	6.23
DISC-OFFSET	4, 78	JULY	1.00	0.756	0.625	4.64	11.31
FURROWER 2SHOVEL	4, 102	JULY	1.00	0.693	0.573	3.25	7.01
SFD SPRYR 500 GA	4, 91	JULY	3.00	0.832	0.608	7.13	25.19
PICKUP 1/2 TON	14	JULY	25.00	1.500	1.250	7.92	6.23
TOTALS							