

TITLE: PRODUCTION COSTS--THOMPSON SEEDLESS GRAPES FOR RAISINS--1980  
 SOUTHERN SAN JOAQUIN VALLEY BY ED YEARY, FARM ADVISOR  
 BASED ON MATURE PRODUCING VINEYARD LYNN HOREL, SRA

HISTORICAL Budget - 1980

|   | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST PER ACRE | YOUR COST |
|---|------|--------------------|----------|------------------------|-----------|
| <b>1. GROSS RECEIPTS FROM PRODUCTION:</b> |      |                    |          |                        |           |
| GRAPES, RAISIN                            | TON  | 840.000            | 2.000    | 1680.00                |           |
| <b>TOTAL RECEIPTS:</b>                    |      |                    |          | \$ 1680.00             |           |
| <b>2. VARIABLE COSTS:</b>                 |      |                    |          |                        |           |
| <b>PREHARVEST:</b>                        |      |                    |          |                        |           |
| IRRIG DIST WATER                          | ACIN | 2.080              | 42.000   | 87.36                  |           |
| PRUNING                                   | VINE | 0.200              | 519.000  | 103.80                 |           |
| BRUSH REMOVAL                             | ACRE | 6.000              | 1.000    | 6.00                   |           |
| TYE OR PROP                               | ACRE | 16.000             | 1.000    | 16.00                  |           |
| NITROGEN                                  | LBS. | 0.350              | 50.000   | 17.50                  |           |
| SULPHER                                   | LBS. | 0.140              | 50.000   | 7.00                   |           |
| INSECTICIDE                               | ACRE | 69.000             | 1.000    | 69.00                  |           |
| HERBICIDE                                 | ACRE | 30.000             | 1.000    | 30.00                  |           |
| MISCL EXPENSE                             | TON  | 19.000             | 1.000    | 19.00                  |           |
| TRACTOR (FUEL-LUBE-REPAIRS)               | ACRE |                    |          | 27.67                  |           |
| EQUIPMENT (FUEL-LUBE-REPAIRS)             | ACRE |                    |          | 28.85                  |           |
| BUILDINGS (FUEL-LUBE-REPAIRS)             | ACRE |                    |          | 3.83                   |           |
| IRRIGATION (SYSTEM MAINT.)                | ACIN | 0.235              | 42.000   | 9.86                   |           |
| MACHINERY LABOR                           | HOUR | 5.500              | 11.446   | 62.95                  |           |
| IRRIGATION LABOR                          | HOUR | 5.500              | 5.040    | 27.72                  |           |
| INTEREST ON OPERATING CAP.                | DOL. | 0.140              | 193.260  | 26.15                  |           |
| <b>TOTAL PREHARVEST COSTS:</b>            |      |                    |          | \$ 542.70              |           |
| <b>PREHARVEST COST PER TON</b>            |      |                    |          | \$ 271.3489            |           |
| <b>HARVEST:</b>                           |      |                    |          |                        |           |
| HAND HARVEST                              | TON  | 90.000             | 2.000    | 180.00                 |           |
| TURN & ROLL                               | UNIT | 13.500             | 4.050    | 54.68                  |           |
| BOX & SHAKE                               | HOUR | 3.050              | 10.000   | 50.50                  |           |
| TRAYS                                     | EACH | 0.060              | 460.000  | 27.60                  |           |
| CROP INSURANCE                            | TON  | 30.000             | 2.000    | 60.00                  |           |
| TRACTOR (FUEL-LUBE-REPAIRS)               | ACRE |                    |          | 3.09                   |           |
| EQUIPMENT (FUEL-LUBE-REPAIRS)             | ACRE |                    |          | 0.19                   |           |
| MACHINERY LABOR                           | HOUR | 5.500              | 0.854    | 4.70                   |           |
| INTEREST ON OPERATING CAP.                | DOL. | 0.140              | 53.205   | 7.45                   |           |
| <b>TOTAL HARVEST COSTS:</b>               |      |                    |          | \$ 388.21              |           |
| <b>HARVEST COST PER TON</b>               |      |                    |          | \$ 194.1029            |           |
| <b>TOTAL VARIABLE COSTS:</b>              |      |                    |          | \$ 930.90              |           |
| <b>VARIABLE COST PER TON</b>              |      |                    |          | \$ 465.4518            |           |
| <b>3. INCOME ABOVE VARIABLE COSTS:</b>    |      |                    |          |                        |           |
| <b>INCOME PER TON</b>                     |      |                    |          | \$ 749.10              |           |
|   |      |                    |          | \$ 374.5482            |           |
| <b>4. CASH OVERHEAD:</b>                  |      |                    |          |                        |           |
| REAL PROPERTY TAXES:                      |      |                    |          | 65.00                  |           |
| <b>TOTAL CASH OVERHEAD:</b>               |      |                    |          | \$ 65.00               |           |
| <b>OVERHEAD COST PER TON</b>              |      |                    |          | 32.5000                |           |
| <b>5. INCOME ABOVE ALL CASH COSTS:</b>    |      |                    |          |                        |           |
| <b>INCOME PER TON</b>                     |      |                    |          | \$ 684.10              |           |
|   |      |                    |          | \$ 342.0482            |           |
| <b>6. OWNERSHIP COSTS:</b>                |      |                    |          |                        |           |
| <b>DEPRECIATION:</b>                      |      |                    |          |                        |           |
| MACHINERY & EQUIPMENT                     | ACRE |                    |          | 47.23                  |           |
| IRRIGATION SYSTEM                         | ACRE |                    |          | 13.58                  |           |
| BUILDINGS                                 | ACRE |                    |          | 19.50                  |           |
| TREES, VINES OR STAND                     | ACRE |                    |          | 133.73                 |           |
| <b>TOTAL DEPRECIATION:</b>                |      |                    |          | \$ 214.04              |           |
| <b>CAPITAL &amp; INTEREST:</b>            |      |                    |          |                        |           |
| MACHINERY & EQUIPMENT                     |      | 0.140              | 442.329  | 61.93                  |           |
| IRRIGATION SYSTEM                         |      | 0.140              | 124.862  | 17.48                  |           |
| BUILDINGS                                 |      | 0.107              | 383.370  | 40.91                  |           |
| TREES, VINES OR STAND                     |      | 0.107              | 4012.000 | 214.04                 |           |
| LAND                                      |      | 0.107              | 3500.000 | 373.45                 |           |
| <b>TOTAL INTEREST CHARGE:</b>             |      |                    |          | \$ 707.80              |           |
| <b>TOTAL FIXED COSTS:</b>                 |      |                    |          | \$ 921.84              |           |
| <b>FIXED COST PER TON</b>                 |      |                    |          | 460.9209               |           |
| <b>7. TOTAL OF ABOVE COSTS:</b>           |      |                    |          |                        |           |
| <b>TOTAL COST PER TON</b>                 |      |                    |          | \$ 1917.75             |           |
|   |      |                    |          | 958.8727               |           |
| <b>8. NET RETURNS:</b>                    |      |                    |          |                        |           |
| <b>NET RETURNS PER TON</b>                |      |                    |          | \$ -237.75             |           |
|   |      |                    |          | -118.8727              |           |

120 ACRE VINEYARD  
 DISTRICT WATER COST AT \$25/ACRE FOOT USING FURROW IRRIGATION  
 YIELD OF 2.0 DRY TONS PER ACRE

UPDATED 04/08/80

BUDGET IDENTIFICATION NUMBER 2451500000 760 1  
 DATE PRINTED: 04/09/80

BUDGET RECORD NUMBER 310  
 HARVEST MONTH: 9

1980 default data

BUDGET IDENTIFICATION NUMBER 245150000 760 1  
 HARVEST OR SALE MONTH 9

BUDGET RECORD NUMBER 310

PRODUCTION COSTS--THOMPSON SEEDLESS GRAPES FOR RAISINS--1980  
 SOUTHERN SAN JOAQUIN VALLEY BY ED YEARY, FARM ADVISOR  
 BASED ON MATURE PRODUCING VINEYARD LYNN HOREL, SRA

COSTS AND RETURNS WILL BE  
 DIVIDED BY 2.0 TON  
 TO OBTAIN PER TON COSTS

| LINE PRODUCTION        | 1 JAN   | 2 FEB | 3 MAR | 4 APR | 5 MAY | 6 JUN | 7 JUL | 8 AUG | 9 SEP  | 10 OCT | 11 NOV | 12 DEC | 13 PRICE     | 14 SHARE RENT | 15 UNIT CODE | 16 ITEM CODE | 17 TYPE   | 18 XXXX   |
|------------------------|---|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------------|---------------|--------------|--------------|-----------|-----------|
| 1 GRAPES, RAISIN       | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 2.00   | 0.00   | 0.00   | 0.00   | 0.00840.000  | 0.000         | 3.           | 45.          | 2.        | 0.        |
| OPERATING INPUTS       |   |       |       |       |       |       |       |       |        |        |        |        |              |               |              |              |           |           |
|                        | NUMBER OF UNITS   |       |       |       |       |       |       |       |        |        |        |        | PRICE        | SHARE RENT    | UNIT CODE    | ITEM CODE    | TYPE      | HARV CODE |
| 6 IRRIG DIST WATER     | 0.00  | 0.00  | 0.00  | 6.00  | 6.00  | 12.00 | 12.00 | 6.00  | 0.00   | 0.00   | 0.00   | 0.00   | 2.080        | 0.000         | 11.          | 323.         | 3.        | 0.        |
| 12 PRUNING             | 0.00519.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | 0.00   | 0.200        | 0.000         | 25.          | 340.         | 3.        | 0.        |
| 13 BRUSH REMOVAL       | 0.00  | 1.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | 0.00   | 6.000        | 0.000         | 7.           | 313.         | 3.        | 0.        |
| 14 TYE OR PROP         | 0.00  | 0.00  | 1.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | 0.00   | 16.000       | 0.000         | 7.           | 342.         | 3.        | 0.        |
| 15 NITROGEN            | 50.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | 0.00   | 0.350        | 0.000         | 12.          | 211.         | 3.        | 0.        |
| 16 SULPHUR             | 0.00  | 0.00  | 0.00  | 12.50 | 12.50 | 12.50 | 12.50 | 0.00  | 0.00   | 0.00   | 0.00   | 0.00   | 0.140        | 0.000         | 12.          | 224.         | 3.        | 0.        |
| 17 INSECTICIDE         | 0.00  | 0.00  | 0.00  | 0.00  | 0.33  | 0.33  | 0.33  | 0.00  | 0.00   | 0.00   | 0.00   | 0.00   | 69.000       | 0.000         | 7.           | 240.         | 3.        | 0.        |
| 18 HERBICIDE           | 0.00  | 0.00  | 1.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | 0.00   | 30.000       | 0.000         | 7.           | 250.         | 3.        | 0.        |
| 21 HAND HARVEST        | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 2.00   | 0.00   | 0.00   | 0.00   | 90.000       | 0.000         | 3.           | 347.         | 3.        | 9.        |
| 22 TURN & ROLL         | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 2.02   | 2.02   | 0.00   | 0.00   | 13.500       | 0.000         | 22.          | 343.         | 3.        | 9.        |
| 23 BOX & SHAKE         | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 5.00   | 5.00   | 0.00   | 0.00   | 5.050        | 0.000         | 8.           | 344.         | 3.        | 9.        |
| 24 TRAYS               | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 460.00 | 0.00   | 0.00   | 0.00   | 0.060        | 0.000         | 23.          | 386.         | 3.        | 9.        |
| 25 CROP INSURANCE      | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 2.00  | 0.00   | 0.00   | 0.00   | 0.00   | 30.000       | 0.000         | 3.           | 452.         | 3.        | 9.        |
| 26 MISCL EXPENSE       | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 1.00   | 0.00   | 0.00   | 0.00   | 19.000       | 0.000         | 3.           | 400.         | 3.        | 0.        |
| MACHINERY REQUIREMENTS |   |       |       |       |       |       |       |       |        |        |        |        |              |               |              |              |           |           |
|                        | IMPLEMENTS = TIRES OVER, TRUCKS = # MILES/ACRE, TRACTORS = HRS/ACRE |       |       |       |       |       |       |       |        |        |        |        | B CREW POWER |               | MACH TYPE    |              | HARV CODE |           |
| 27 DRY FERT APPLIC.    | 1.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | 0.00   | 0.000        | 0.000         | 3.           | 85.          | 4.        | 0.        |
| 28 BRUSH RAKE          | 0.00  | 0.00  | 1.00  | 0.00  | 1.00  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | 0.00   | 0.000        | 0.000         | 3.           | 128.         | 4.        | 0.        |
| 29 FLOAT               | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 1.00   | 0.00   | 0.00   | 0.00   | 0.000        | 0.000         | 3.           | 105.         | 4.        | 0.        |
| 30 DUSTING RIG         | 0.00  | 0.00  | 0.00  | 1.00  | 1.00  | 1.00  | 1.00  | 0.00  | 0.00   | 0.00   | 0.00   | 0.00   | 0.000        | 0.000         | 3.           | 87.          | 4.        | 0.        |
| 31 SPD SPRYR 300 GA    | 0.00  | 0.00  | 0.00  | 0.00  | 1.00  | 1.00  | 1.00  | 0.00  | 0.00   | 0.00   | 0.00   | 0.00   | 0.000        | 0.000         | 0.           | 90.          | 4.        | 0.        |
| 33 DISC-TANDER         | 1.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 1.00  | 0.00   | 0.00   | 0.00   | 0.00   | 0.000        | 0.000         | 3.           | 82.          | 4.        | 0.        |
| 41 SCRAPER             | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 1.00   | 0.00   | 0.00   | 0.00   | 0.000        | 0.000         | 5.           | 104.         | 4.        | 9.        |
| 42 TRAILER             | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 2.00   | 0.00   | 0.00   | 0.00   | 0.000        | 0.000         | 2.           | 44.          | 4.        | 9.        |
| 43 PICKUP 1/2 TON      | 0.50  | 5.00  | 5.00  | 5.00  | 5.00  | 5.00  | 5.00  | 5.00  | 5.00   | 5.00   | 5.00   | 0.50   | 0.000        | 0.000         | 0.           | 14.          | 4.        | 0.        |
| 49 ACIN IRRIG WATER    | 0.00  | 0.00  | 0.00  | 6.00  | 6.00  | 12.00 | 12.00 | 6.00  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00         | 0.00          | 0.00         | 0.00         | 53.       | 0.        |
| 50 NO. TIRES IRRIG     | 0.00  | 0.00  | 0.00  | 1.00  | 1.00  | 2.00  | 2.00  | 1.00  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00         | 0.00          | 0.00         | 0.00         | 0.        | 0.        |

EQUIPMENT REQUIREMENTS

51 FARM SHOP  
 52 TOOLS-SHOP EQUIP  
 53 STORAGE SHED  
 54 FUEL TANK 550 GAL

| NUMBER UNITS | PROPORT OF COST | XXX EQUIP CODE | TYPE | XXXX  |
|--------------|-----------------|----------------|------|-------|
| 1.000        | 1.000           | 0.             | 2.   | 5. 0. |
| 1.000        | 1.000           | 0.             | 4.   | 5. 0. |
| 1.000        | 1.000           | 0.             | 8.   | 5. 0. |
| 1.000        | 1.000           | 0.             | 18.  | 5. 0. |

LAND REQUIREMENTS

71

| CHARGE METHOD | NUMBER OF ACRES | VALUE OR COST/ACRE | TAXES PER ACRE | PERENNIAL CROPS YRS LIFE | COST/ACRE |
|---------------|-----------------|--------------------|----------------|--------------------------|-----------|
| 1.            | 120.00          | 3500.00            | 65.00          | 30.0                     | 4012.00   |

120 ACRE VINEYARD  
 DISTRICT WATER COST AT \$25/ACRE FOOT USING FURROW IRRIGATION  
 YIELD OF 2.0 DRY TONS PER ACRE

MACHINERY COMPLEMENT 7  
 EQUIPMENT COMPLEMENT 1

UPDATED 04/08/80

| MACHNRY NAME CHANGE  | LINE CHANGE | VALUE    | RW CL | VALUE    | RW CL | VALUE    | RW CL | VALUE    | RW CL | VALUE | RW CL |
|----------------------|-------------|----------|-------|----------|-------|----------|-------|----------|-------|-------|-------|
| PARAMETER CHGS-->11. | 87          | 4.500000 | 12.   | 5.500000 | 10.   | 5.500000 | 18.   | 0.720000 |       |       |       |

1980 default data

IDENTIFICATION NUMBER 245150000 760 1

HARVEST MONTH 9

BUDGET RECORD NUMBER 310

PRODUCTION COSTS--THOMPSON SEEDLESS GRAPES FOR RAISINS--1980

SOUTHERN SAN JOAQUIN VALLEY

BY ED YEARY, FARM ADVISOR

BASED ON MATURE PRODUCING VINEYARD

LYNN HOREL, SRA

| 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  | 0.00  | 0.00  | 0.00  | 0.00   | 1680.00 | 0.00 | 0.00 | 0.00  | 1680.00 |
| OPERATING EXPENSES     |       |  |        |       |       |       |       |       |       |        |         |      |      |       |         |
| IRRIG DIST WATER       | \$/AC | 0.00                                     | 0.00   | 0.00  | 12.48 | 12.48 | 24.96 | 24.96 | 12.48 | 0.00   | 0.00    | 0.00 | 0.00 | 0.00  | 87.36   |
| PRUNING                | \$/AC | 0.00                                     | 103.80 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00    | 0.00 | 0.00 | 0.00  | 103.80  |
| BRUSH REMOVAL          | \$/AC | 0.00                                     | 6.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00    | 0.00 | 0.00 | 0.00  | 6.00    |
| TYE OR PROP            | \$/AC | 0.00                                     | 0.00   | 16.00 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00    | 0.00 | 0.00 | 0.00  | 16.00   |
| NITROGEN               | \$/AC | 17.50                                    | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00    | 0.00 | 0.00 | 0.00  | 17.50   |
| SULPHUR                | \$/AC | 0.00                                     | 0.00   | 0.00  | 1.75  | 1.75  | 1.75  | 1.75  | 0.00  | 0.00   | 0.00    | 0.00 | 0.00 | 0.00  | 7.00    |
| INSECTICIDE            | \$/AC | 0.00                                     | 0.00   | 0.00  | 0.00  | 22.98 | 23.05 | 22.98 | 0.00  | 0.00   | 0.00    | 0.00 | 0.00 | 0.00  | 69.00   |
| HERBICIDE              | \$/AC | 0.00                                     | 0.00   | 30.00 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00    | 0.00 | 0.00 | 0.00  | 30.00   |
| HAND HARVEST           | \$/AC | 0.00                                     | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 180.00 | 0.00    | 0.00 | 0.00 | 0.00  | 180.00  |
| TURN & ROLL            | \$/AC | 0.00                                     | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 27.34  | 27.34   | 0.00 | 0.00 | 0.00  | 54.68   |
| BOX & SHAKE            | \$/AC | 0.00                                     | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 25.25  | 25.25   | 0.00 | 0.00 | 0.00  | 50.50   |
| TRAYS                  | \$/AC | 0.00                                     | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 27.60  | 0.00    | 0.00 | 0.00 | 0.00  | 27.60   |
| CROP INSURANCE         | \$/AC | 0.00                                     | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 60.00 | 0.00   | 0.00    | 0.00 | 0.00 | 0.00  | 60.00   |
| MISCL EXPENSE          | \$/AC | 0.00                                     | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 19.00  | 0.00    | 0.00 | 0.00 | 0.00  | 19.00   |
| MACHINE LABOR COST     | \$/AC | 8.90                                     | 1.65   | 10.80 | 3.74  | 12.89 | 3.74  | 3.74  | 8.31  | 10.41  | 1.65    | 1.65 | 0.16 | 0.16  | 67.65   |
| INTEREST ON OPER. CAP. | \$/AC | 3.12                                     | 9.01   | 4.38  | 1.53  | 3.00  | 2.34  | 1.55  | 1.08  | 0.01   | 7.17    | 0.37 | 0.03 | 0.03  | 33.60   |
| TRACTOR COST           | \$/AC | 5.24                                     | 0.00   | 5.49  | 1.25  | 6.75  | 1.25  | 1.25  | 3.99  | 5.53   | 0.00    | 0.00 | 0.00 | 0.00  | 30.77   |
| EQUIPMENT COST         | \$/AC | 2.04                                     | 1.56   | 1.96  | 2.17  | 4.47  | 4.07  | 4.07  | 3.29  | 2.13   | 1.56    | 1.56 | 0.16 | 0.16  | 29.05   |
| BLDG OPER. COST        | \$/AC | 0.32                                     | 0.32   | 0.32  | 0.32  | 0.32  | 0.32  | 0.32  | 0.32  | 0.32   | 0.32    | 0.32 | 0.32 | 0.32  | 3.83    |
| IRRIGATION COST        | \$/AC | 0.00                                     | 0.00   | 0.00  | 1.41  | 1.41  | 2.82  | 2.82  | 1.41  | 0.00   | 0.00    | 0.00 | 0.00 | 0.00  | 9.86    |
| IRRIG LABOR COST       | \$/AC | 0.00                                     | 0.00   | 0.00  | 3.96  | 3.96  | 7.92  | 7.92  | 3.96  | 0.00   | 0.00    | 0.00 | 0.00 | 0.00  | 27.72   |
| TOTAL EXPENSES         | \$/AC | 37.11                                    | 122.35 | 68.95 | 28.61 | 70.01 | 72.22 | 71.37 | 94.83 | 297.59 | 63.29   | 3.91 | 0.67 | 0.67  | 930.90  |

| MONTHLY IRRIGATION AND LABOR REQUIREMENTS |       |      |      |      |      |      |       |       |      |      |      |      |      |       |
|---|-------|------|------|------|------|------|-------|-------|------|------|------|------|------|-------|
|   | HR/AC | JAN  | FEB  | MAR  | APR  | MAY  | JUN   | JUL   | AUG  | SEP  | OCT  | NOV  | DEC  | TOTAL |
| MACHINE LABOR                             | HR/AC | 1.62 | 0.30 | 1.96 | 0.68 | 2.34 | 0.68  | 0.68  | 1.51 | 1.89 | 0.30 | 0.30 | 0.03 | 12.91 |
| IRRIGATION LABOR                          | HR/AC | 0.00 | 0.00 | 0.00 | 0.72 | 0.72 | 1.44  | 1.44  | 0.72 | 0.00 | 0.00 | 0.00 | 0.00 | 5.00  |
| IRRIG. WATER APPLIED                      | ACIN  | 0.00 | 0.00 | 0.00 | 6.00 | 6.00 | 12.00 | 12.00 | 6.00 | 0.00 | 0.00 | 0.00 | 0.00 | 42.00 |

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 & INS | TOTAL | FUEL                   | LUBE | REPAIRS | TOTAL |              |
| TRACTOR 25 HP    | 2    | 25.0 | 7560.          | 15.         | 300.           | 0.60                | 0.93   | 0.25      | 1.77  | 0.79                   | 0.12 | 0.24    | 1.16  | 0.440        |
| TRACTOR 35 HP    | 3    | 35.0 | 9960.          | 15.         | 300.           | 13.59               | 21.17  | 5.70      | 40.45 | 19.21                  | 2.88 | 5.58    | 27.67 | 7.624        |
| TRACTOR 80 HP    | 5    | 80.0 | 20760.         | 15.         | 300.           | 1.25                | 1.95   | 0.52      | 3.72  | 1.24                   | 0.19 | 0.51    | 1.94  | 0.336        |
| PICKUP 1/2 TON   | 14   | 0.5  | 9000.          | 7.          | 435.           | 5.61                | 4.64   | 1.19      | 11.44 | 12.24                  | 1.84 | 1.87    | 15.95 | 2.550        |
| TRAILER          | 44   | 5.0  | 3420.          | 15.         | 200.           | 0.40                | 0.54   | 0.15      | 1.09  | 0.00                   | 0.00 | 0.14    | 0.14  | 0.400        |
| SURFACE IRR SYS# | 53   | 2.0  | 45900.         | 10.         | 5000.          | 13.58               | 17.48  | 4.34      | 35.40 | 0.00                   | 0.19 | 9.66    | 9.86  | 21.000       |
| DISC-TANDEM      | 82   | 5.0  | 3240.          | 15.         | 120.           | 3.25                | 4.14   | 1.22      | 8.61  | 0.00                   | 0.07 | 3.38    | 3.44  | 2.000        |
| DRY FERT APPLIC. | 85   | 10.0 | 960.           | 15.         | 60.            | 0.30                | 0.38   | 0.11      | 0.80  | 0.00                   | 0.00 | 0.16    | 0.16  | 0.313        |
| DUSTING RIG      | 87   | 10.0 | 3850.          | 15.         | 50.            | 5.88                | 7.38   | 2.18      | 15.44 | 0.00                   | 0.05 | 2.36    | 2.41  | 1.257        |
| SPD SPRYR 300 GA | 90   | 15.0 | 14400.         | 15.         | 100.           | 7.96                | 10.13  | 2.97      | 21.05 | 0.00                   | 0.11 | 5.61    | 5.73  | 0.917        |
| SCRAPER          | 104  | 10.0 | 2640.          | 15.         | 25.            | 1.94                | 2.48   | 0.73      | 5.15  | 0.00                   | 0.00 | 0.05    | 0.06  | 0.306        |
| FLOAT            | 105  | 5.0  | 4440.          | 15.         | 30.            | 5.45                | 6.94   | 2.04      | 14.42 | 0.00                   | 0.01 | 0.36    | 0.37  | 0.611        |
| BRUSH RAKE       | 128  | 6.0  | 1200.          | 15.         | 200.           | 0.99                | 1.27   | 0.37      | 2.63  | 0.00                   | 0.02 | 0.78    | 0.79  | 2.750        |
| FARM SHOP        | 2    |      | 42120.         | 35.         |                | 9.03                | 20.60  | 3.51      | 33.13 | 3.51                   |      | 0.15    | 3.66  |              |
| TOOLS-SHOP EQUIP | 4    |      | 12285.         | 15.         |                | 4.78                | 7.10   | 1.02      | 12.90 | 0.00                   |      | 0.14    | 0.14  |              |
| STORAGE SHED     | 8    |      | 26325.         | 35.         |                | 5.64                | 12.87  | 2.19      | 20.71 | 0.00                   |      | 0.03    | 0.03  |              |
| FUELTANK 550 GAL | 18   |      | 468.           | 30.         |                | 0.05                | 0.33   | 0.04      | 0.42  | 0.00                   |      | 0.00    | 0.00  |              |

MACHINERY & EQUIPMENT INVESTMENT & COSTS PER ACRE 1738. 80.31 120.31 28.52 229.14 36.99 5.47 31.03 73.50

TOTAL INVESTMENT 208528.

120 ACRE VINEYARD  
DISTRICT WATER COST AT \$25/ACRE FOOT USING FURROW IRRIGATION  
YIELD OF 2.0 DRY TONS PER ACRE

UPDATED 04/08/80

PRODUCTION COSTS--THOMPSON SEEDLESS GRAPES FOR RAISINS--1980  
 SOUTHERN SAN JOAQUIN VALLEY BY ED YEARY, FARM ADVISOR  
 BASED ON MATURE PRODUCING VINEYARD LYNN HOREL, SRA

FUEL USED IN GALLONS PER HOUR

|                |       |
|----------------|-------|
| TRACTOR 25 HP  | 1.500 |
| TRACTOR 35 HP  | 2.100 |
| TRACTOR 80 HP  | 3.840 |
| PICKUP 1/2 TON | 4.000 |

FUEL ALLOCATED TO OPERATIONS IN GALLONS PER ACRE COVERED

| MACHINE          | GALLONS | POWER UNIT    |
|------------------|---------|---------------|
| PICKUP 1/2 TON   | 0.200   |               |
| DRY FERT APPLIC. | 0.722   | TRACTOR 35 HP |
| BRUSH RAKE       | 3.176   | TRACTOR 35 HP |
| FLOAT            | 1.412   | TRACTOR 35 HP |
| DUSTING RIG      | 0.726   | TRACTOR 35 HP |
| SPD SPRYR 300 GA | 0.000   | TRACTOR 35 HP |
| DISC-TANDEM      | 2.310   | TRACTOR 35 HP |
| SCRAPER          | 1.291   | TRACTOR 80 HP |
| TRAILER          | 0.330   | TRACTOR 25 HP |

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FUEL ALLOCATED TO OPERATIONS FOR THE BUDGET UNIT

|                  | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | TOTAL  | FUEL TYPE |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-----------|
| DRY FERT APPLIC. | 0.722 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.722  | 1         |
| BRUSH RAKE       | 0.000 | 0.000 | 3.176 | 0.000 | 3.176 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 6.353  | 1         |
| FLOAT            | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1.412 | 0.000 | 0.000 | 0.000 | 1.412  | 1         |
| DUSTING RIG      | 0.000 | 0.000 | 0.000 | 0.726 | 0.726 | 0.726 | 0.726 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 2.904  | 1         |
| SPD SPRYR 300 GA | 0.000 | 0.000 | 0.000 | 0.000 | 0.706 | 0.706 | 0.706 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 2.118  | 1         |
| DISC-TANDEM      | 2.310 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 2.310 | 0.000 | 0.000 | 0.000 | 0.000 | 4.620  | 1         |
| SCRAPER          | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1.291 | 0.000 | 0.000 | 0.000 | 1.291  | 3         |
| TRAILER          | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.660 | 0.000 | 0.000 | 0.000 | 0.660  | 1         |
| PICKUP 1/2 TON   | 0.100 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 0.100 | 10.200 | 1         |
| TOTALS           | 3.132 | 1.000 | 4.176 | 1.726 | 5.608 | 2.432 | 2.432 | 3.310 | 4.362 | 1.000 | 1.000 | 0.100 | 30.278 |           |

GALLONS FUEL BY TYPE  
 28.99 GAS  
 0.00 LP  
 1.29 DIESEL

FUEL TYPES  
 1=GAS  
 2=L.P.  
 3=DIESEL

PRODUCTION COSTS--THOMPSON SEEDLESS GRAPES FOR RAISINS--1980  
 SOUTHERN SAN JOAQUIN VALLEY BY ED YEARY, FARM ADVISOR  
 BASED ON MATURE PRODUCING VINEYARD LYNN HOREL, SRA

| OPERATION              | ITEM NO.      | DATE               | TIMES OVER      | LABOR HOURS      | MACHINE HOURS    | FUEL,OIL, LUB., REP. PER ACRE | FIXED COSTS PER ACRE |
|------------------------|---------------|--------------------|-----------------|------------------|------------------|-------------------------------|----------------------|
| PICKUP 1/2 TON         |               | 14 OCT             | 5.00            | 0.300            | 0.250            | 1.56                          | 1.12                 |
| PICKUP 1/2 TON         |               | 14 NOV             | 5.00            | 0.300            | 0.250            | 1.56                          | 1.12                 |
| PICKUP 1/2 TON         |               | 14 DEC             | 0.50            | 0.030            | 0.025            | 0.16                          | 0.11                 |
| DRY FERT APPLIC.       | 3,            | 85 JAN             | 1.00            | 0.378            | 0.313            | 1.41                          | 2.62                 |
| DISC-TANDEM            | 3,            | 82 JAN             | 1.00            | 1.210            | 1.000            | 5.72                          | 10.14                |
| PICKUP 1/2 TON         |               | 14 JAN             | 0.50            | 0.030            | 0.025            | 0.16                          | 0.11                 |
| PICKUP 1/2 TON         |               | 14 FEB             | 5.00            | 0.300            | 0.250            | 1.56                          | 1.12                 |
| BRUSH RAKE             | 3,128         | MAR                | 1.00            | 1.664            | 1.375            | 5.89                          | 9.34                 |
| PICKUP 1/2 TON         |               | 14 MAR             | 5.00            | 0.300            | 0.250            | 1.56                          | 1.12                 |
| DUSTING RIG            | 3,            | 87 APR             | 1.00            | 0.380            | 0.314            | 1.86                          | 5.69                 |
| PICKUP 1/2 TON         |               | 14 APR             | 5.00            | 0.300            | 0.250            | 1.56                          | 1.12                 |
| BRUSH RAKE             | 3,128         | MAY                | 1.00            | 1.664            | 1.375            | 5.89                          | 9.34                 |
| DUSTING RIG            | 3,            | 87 MAY             | 1.00            | 0.380            | 0.314            | 1.86                          | 5.69                 |
| SPD SPRYR 300 GA       |               | 90 MAY             | 1.00            | 0.000            | 0.306            | 1.91                          | 7.02                 |
| PICKUP 1/2 TON         |               | 14 MAY             | 5.00            | 0.300            | 0.250            | 1.56                          | 1.12                 |
| <del>DUSTING RIG</del> | <del>3,</del> | <del>87 JUNE</del> | <del>1.00</del> | <del>0.380</del> | <del>0.314</del> | <del>1.86</del>               | <del>5.69</del>      |
| SPD SPRYR 300 GA       |               | 90 JUNE            | 1.00            | 0.000            | 0.306            | 1.91                          | 7.02                 |
| PICKUP 1/2 TON         |               | 14 JUNE            | 5.00            | 0.300            | 0.250            | 1.56                          | 1.12                 |
| DUSTING RIG            | 3,            | 87 JULY            | 1.00            | 0.380            | 0.314            | 1.86                          | 5.69                 |
| SPD SPRYR 300 GA       |               | 90 JULY            | 1.00            | 0.000            | 0.306            | 1.91                          | 7.02                 |
| PICKUP 1/2 TON         |               | 14 JULY            | 5.00            | 0.300            | 0.250            | 1.56                          | 1.12                 |
| DISC-TANDEM            | 3,            | 82 AUG             | 1.00            | 1.210            | 1.000            | 5.72                          | 10.14                |
| PICKUP 1/2 TON         |               | 14 AUG             | 5.00            | 0.300            | 0.250            | 1.56                          | 1.12                 |
| FLOAT                  | 3,105         | SEPT               | 1.00            | 0.739            | 0.611            | 2.81                          | 17.99                |
| SCRAPER                | 5,104         | SEPT               | 1.00            | 0.370            | 0.306            | 1.99                          | 8.86                 |
| TRAILER                | 2,            | 44 SEPT            | 2.00            | 0.484            | 0.400            | 1.29                          | 2.86                 |
| PICKUP 1/2 TON         |               | 14 SEPT            | 5.00            | 0.300            | 0.250            | 1.56                          | 1.12                 |
| <b>TOTALS</b>          |               |                    |                 | <b>12.300</b>    | <b>11.103</b>    | <b>59.81</b>                  | <b>126.57</b>        |

120 ACRE VINEYARD  
 DISTRICT WATER COST AT \$25/ACRE FOOT USING FURROW IRRIGATION  
 YIELD OF 2.0 DRY TONS PER ACRE

UPDATED 04/08/80

BUDGET IDENTIFICATION NUMBER--- 2451500000 760 1  
 ANNUAL CAPITAL MONTH 9 BUDGET RECORD NUMBER 310