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Feasibility Study for a Beaver Reservoir Agricultural Water Supply Volume II

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**Feasibility study for a Beaver Reservoir
[i.e. Reservoir] agricultural water supply**

FEASIBILITY STUDY FOR A
BEAVER RESERVIOR
AGRICULTURAL WATER SUPPLY
VOLUME II

by

James Ferguson

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CONTRACT #DACW03-81-C

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for the

U. S. Army, Corps of Engineers
Little Rock District
Little Rock, Arkansas

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223 Ozark Hall
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Fayetteville, Arkansas 72701

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FEASIBILITY STUDY FOR A
BEAVER RESERVIOR
AGRICULTURAL WATER SUPPLY

VOLUME II

APPENDIX B

TABLE 1. ESTIMATED COSTS AND RETURNS PER ACRE, 6 ROW EQUIPMENT,
 APPLES, COSTS FOR 1ST YR IN A NONIRRIGATED
 ORCHARD, NORTHWEST ARKANSAS, 1981

| | | PRICE OR | QUANTITY | VALUE | YOUR |
|-----------------------------------|--------|----------------|----------|----------|---------------------|
| | | UNIT COST/UNIT | | OR COST | ESTIMATE |
| ----- | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| TOTAL | | | | 0.0 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| LAND PREP CUS | ACRE | 50.00 | 1.00 | 50.00 | ----- |
| RABBIT GUARD | EA. | 0.25 | 181.00 | 45.25 | ----- |
| SURFLAN | LB. | 3.00 | 4.00 | 12.00 | ----- |
| PARAQUAT | LB. | 18.30 | 0.40 | 7.32 | ----- |
| APPLE TREES | EA. | 3.75 | 181.00 | 678.75 | ----- |
| AMMONIUM NITRATE | CWT | 7.50 | 0.70 | 5.25 | ----- |
| HOURLY LABOR | HR. | 3.50 | 36.50 | 127.75 | ----- |
| MACHINERY | ACRE | 0.84 | 1.00 | 0.84 | ----- |
| TRACTORS | ACRE | 18.82 | 1.00 | 18.82 | ----- |
| LABOR(MACH & TRACT) | HOURLY | 3.56 | 6.01 | 21.39 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 698.22 | 97.75 | 51.49 @ 7 3/8% |
| SUBTOTAL, PRE-HARVEST | | | | 1065.12 | 1018.86 |
| HARVEST COSTS | | | | | |
| SUBTOTAL, HARVEST | | | | 0.0 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 1018.86 | | 101.89 |
| TOTAL VARIABLE COST | | | | 1065.12 | 1120.76 |
| INCOME ABOVE VARIABLE COSTS | | | | -1065.12 | -1120.02 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 6.20 | 1.00 | 6.20 | ----- |
| TRACTORS | ACRE | 16.29 | 1.00 | 16.29 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 22.03 | 1.00 | 22.03 | ----- |
| TOTAL FIXED COSTS | | | | 44.52 | ----- |
| TOTAL COSTS | | | | 1109.64 | -1164.54 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | -1109.64 | -1164.54 |
| ===== | | | | | |

TABLE 2. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
 APPLES, COSTS FOR 2ND YR IN A NONIRRIGATED
 ORCHARD, NORTHWEST ARKANSAS, 1981

| | | PRICE OR | | VALUE | YOUR |
|-----------------------------------|------|----------|-----------|-------------|----------------|
| | | UNIT | COST/UNIT | QUANTITY OR | COST ESTIMATE |
| ----- | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| TOTAL | | | | 0.0 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| FERT 13-13-13 | CWT | 8.25 | 3.60 | 29.70 | ----- |
| HOURLY LABOR | HR. | 3.50 | 18.00 | 63.00 | ----- |
| PRINCEP | LB. | 4.93 | 0.80 | 3.94 | ----- |
| PARAQUAT | LB. | 2.00 | 0.60 | 1.20 | ----- |
| SEVIN | LB. | 2.35 | 2.00 | 4.70 | ----- |
| APPLE TREES | EA. | 3.75 | 9.00 | 33.75 | ----- |
| DORMANT OIL | GAL. | 8.93 | 1.50 | 13.39 | ----- |
| STREPTOMYCIN | OZ. | 2.95 | 10.00 | 29.50 | ----- |
| ZINEB | LB. | 5.79 | 2.00 | 11.58 | ----- |
| AMMONIUM NITRATE | CWT | 7.50 | 1.50 | 11.25 | ----- |
| DIAZINON | LB. | 9.75 | 2.00 | 19.50 | ----- |
| MACHINERY | ACRE | 0.84 | 1.00 | 0.84 | ----- |
| TRACTORS | ACRE | 12.81 | 1.00 | 12.81 | ----- |
| LABOR (MACH & TRACT) | HOUR | 3.56 | 4.09 | 14.56 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 164.72 | 23.06 | 12.15 @ 7 3/8% |
| | | | | ----- | |
| SUBTOTAL, PRE-HARVEST | | | | 272.79 | 261.88 |
| HARVEST COSTS | | | | | |
| | | | | ----- | |
| SUBTOTAL, HARVEST | | | | 0.0 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 261.88 | | 26.19 |
| TOTAL VARIABLE COST | | | | 272.79 | 288.07 |
| INCOME ABOVE VARIABLE COSTS | | | | -272.79 | -288.07 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 7.76 | 1.00 | 7.76 | ----- |
| TRACTORS | ACRE | 11.09 | 1.00 | 11.09 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 15.00 | 1.00 | 15.00 | ----- |
| | | | | ----- | |
| TOTAL FIXED COSTS | | | | 33.85 | ----- |
| TOTAL COSTS | | | | 306.64 | 321.92 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | -306.64 | -321.92 |
| ===== | | | | | |

TABLE 3. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
 APPLES, COSTS FOR 3RD YR IN A NONIRRIGATED
 ORCHARD, NORTHWEST ARKANSAS, 1981

| | | PRICE OR | QUANTITY | VALUE | YOUR |
|-----------------------------------|------|----------|-----------|---------|--------------------|
| | | UNIT | COST/UNIT | OR COST | ESTIMATE |
| ----- | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| | | | | ----- | |
| TOTAL | | | | 0.0 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| HOURLY LABOR | HR. | 3.50 | 13.50 | 47.25 | ----- |
| DORMANT OIL | GAL. | 8.93 | 2.00 | 17.86 | ----- |
| STREPTOMYCIN | OZ. | 2.95 | 12.00 | 35.40 | ----- |
| AMMONIUM NITRATE | CWT | 7.50 | 1.30 | 9.75 | ----- |
| DIAZINON | LB. | 9.75 | 1.00 | 9.75 | ----- |
| KARMEX | LB. | 2.15 | 4.00 | 8.60 | ----- |
| ROUNDUP | GAL. | 72.00 | 0.25 | 18.00 | ----- |
| IIMIDAN | LB. | 2.56 | 1.50 | 3.84 | ----- |
| ZINEB | LB. | 5.79 | 1.50 | 8.68 | ----- |
| SEVIN | LB. | 2.35 | 2.00 | 4.70 | ----- |
| OMITE | LB. | 3.55 | 1.20 | 4.26 | ----- |
| MACHINERY | ACRE | 0.63 | 1.00 | 0.63 | ----- |
| TRACTORS | ACRE | 12.98 | 1.00 | 12.98 | ----- |
| LABOR(MACH & TRACT) | HOUR | 3.56 | 4.14 | 14.75 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 122.42 | 17.14 | -----9.03 @ 7 3/8% |
| SUBTOTAL, PRE-HARVEST | | | | 213.60 | -----205.49 |
| HARVEST COSTS | | | | | |
| SUBTOTAL, HARVEST | | | | 0.0 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 205.49 | | -----20.55 |
| TOTAL VARIABLE COST | | | | 213.60 | -----226.04 |
| INCOME ABOVE VARIABLE COSTS | | | | -213.60 | -----226.04 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 6.48 | 1.00 | 6.48 | ----- |
| TRACTORS | ACRE | 11.23 | 1.00 | 11.23 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 15.19 | 1.00 | 15.19 | ----- |
| TOTAL FIXED COSTS | | | | 32.91 | ----- |
| TOTAL COSTS | | | | 246.51 | -----258.95 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | -246.51 | -----258.95 |
| ===== | | | | | |

TABLE 4. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
 APPLES, COSTS FOR 4TH YR IN A NONIRRIGATED
 ORCHARD, NORTHWEST ARKANSAS, 1981

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|-----------------------------------|------|-----------------------|----------|------------------|------------------|
| ----- | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| APPLES | BU. | 4.29 | 30.00 | 128.70 | ----- |
| TOTAL | | | | 128.70 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| LIME APPLIED | TON | 18.00 | 1.00 | 18.00 | ----- |
| HOURLY LABOR | HR. | 3.50 | 23.50 | 82.25 | ----- |
| DORMANT OIL | GAL. | 8.93 | 2.50 | 22.32 | ----- |
| STREPTOMYCIN | OZ. | 2.95 | 14.00 | 41.30 | ----- |
| FOLIAR ANALYSIS | ACRE | 0.80 | 1.00 | 0.80 | ----- |
| AMMONIUM NITRATE | CWT | 7.50 | 2.00 | 15.00 | ----- |
| DIAZINON | LB. | 9.75 | 1.50 | 14.63 | ----- |
| FERRAM | LB. | 11.44 | 2.30 | 26.31 | ----- |
| KARMEX | LB. | 2.15 | 4.00 | 8.60 | ----- |
| ROUNDUP | GAL. | 72.00 | 0.26 | 18.72 | ----- |
| IIMIDAN | LB. | 2.56 | 2.30 | 5.89 | ----- |
| ZINEB | LB. | 5.79 | 1.15 | 6.66 | ----- |
| CAPTAN | LB. | 3.60 | 10.50 | 37.80 | ----- |
| SEVIN | LB. | 2.35 | 10.70 | 25.14 | ----- |
| OMITE | LB. | 3.55 | 3.60 | 12.78 | ----- |
| SOLUBAR | LB. | 0.60 | 4.00 | 2.40 | ----- |
| CALCIUM CHLORIDE | LB. | 0.23 | 15.00 | 3.45 | ----- |
| MACHINERY | ACRE | 0.90 | 1.00 | 0.90 | ----- |
| TRACTORS | ACRE | 16.04 | 1.00 | 16.04 | ----- |
| LABOR (MACH & TRACT) | HOUR | 3.56 | 5.12 | 18.22 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 147.50 | 20.65 | 10.88 @ 7 3/8% |
| SUBTOTAL, PRE-HARVEST | | | | 397.86 | 388.09 |
| HARVEST COSTS | | | | | |
| HOURLY LABOR | HR. | 3.50 | 8.00 | 28.00 | ----- |
| MACHINERY | ACRE | 0.01 | 1.00 | 0.01 | ----- |
| TRACTORS | ACRE | 1.12 | 1.00 | 1.12 | ----- |
| LABOR (MACH & TRACT) | HOUR | 3.56 | 0.36 | 1.27 | ----- |
| SUBTOTAL, HARVEST | | | | 30.40 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 418.49 | | 41.85 |
| TOTAL VARIABLE COST | | | | 428.26 | 460.34 |
| INCOME ABOVE VARIABLE COSTS | | | | -299.56 | 331.64 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 11.15 | 1.00 | 11.15 | ----- |
| TRACTORS | ACRE | 13.88 | 1.00 | 13.88 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.16 | 1.00 | 0.16 | ----- |
| TRACTORS | ACRE | 0.97 | 1.00 | 0.97 | ----- |
| OVERHEAD LABOR | ACRE | 20.07 | 1.00 | 20.07 | ----- |
| TOTAL FIXED COSTS | | | | 46.23 | ----- |
| TOTAL COSTS | | | | 474.49 | 506.57 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | -345.79 | 377.87 |

TABLE 5. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
 FOR APPLES, AVERAGE ANNUAL ESTIMATES FOR 5TH AND 6TH
 YEARS, NONIRRIGATED ORCHARD, NORTHWEST ARKANSAS, 1981

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|--------------------------------|------|-----------------------|----------|------------------|------------------|
| ----- | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| APPLES | BU. | 4.29 | 221.00 | 948.09 | ----- |
| | | | | ----- | |
| TOTAL | | | | 948.09 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| LIME APPLIED | TON | 18.00 | 1.00 | 18.00 | ----- |
| HOURLY LABOR | HR. | 3.50 | 35.50 | 124.25 | ----- |
| DORMANT OIL | GAL. | 8.93 | 2.50 | 22.32 | ----- |
| STREPTOMYCIN | OZ. | 2.95 | 14.00 | 41.30 | ----- |
| FOLIAR ANALYSIS | ACRE | 0.80 | 1.00 | 0.80 | ----- |
| AMMONIUM NITRATE | CWT | 7.50 | 2.00 | 15.00 | ----- |
| DIAZINON | LB. | 9.75 | 1.50 | 14.63 | ----- |
| FERBAM | LB. | 11.44 | 2.30 | 26.31 | ----- |
| KARMEX | LB. | 2.15 | 4.00 | 8.60 | ----- |
| LIME APPLIED | TON | 18.00 | 1.00 | 18.00 | ----- |
| ROUNDUP | GAL. | 72.00 | 0.26 | 18.72 | ----- |
| IIMIDAN | LB. | 2.56 | 2.30 | 5.89 | ----- |
| ZINEB | LB. | 5.79 | 1.15 | 6.66 | ----- |
| CAPTAN | LB. | 3.60 | 10.50 | 37.80 | ----- |
| SEVIN | LB. | 2.35 | 10.70 | 25.14 | ----- |
| OMITE | LB. | 3.55 | 3.60 | 12.78 | ----- |
| SOLUBAR | LB. | 0.60 | 4.00 | 2.40 | ----- |
| CALCIUM CHLORIDE | LB. | 0.23 | 15.00 | 3.45 | ----- |
| MACHINERY | ACRE | 0.90 | 1.00 | 0.90 | ----- |
| TRACTORS | ACRE | 16.04 | 1.00 | 16.04 | ----- |
| LABOR (MACH & TRACT) | HOUR | 3.56 | 5.12 | 18.22 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 183.50 | 25.69 | 13.53 @ 7.37% |
| | | | | ----- | |
| SUBTOTAL, PRE-HARVEST | | | | 462.90 | 450.74 |
| HARVEST COSTS | | | | | |
| HOURLY LABOR | HR. | 3.50 | 55.00 | 192.50 | ----- |
| MACHINERY | ACRE | 15.10 | 1.00 | 15.10 | ----- |
| LABOR (MACH & TRACT) | HOUR | 3.56 | 2.40 | 8.54 | ----- |
| | | | | ----- | |
| SUBTOTAL, HARVEST | | | | 216.14 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 666.88 | | 66.69 |
| TOTAL VARIABLE COST | | | | 679.04 | 733.57 |
| INCOME ABOVE VARIABLE COSTS | | | | 269.05 | 214.52 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 11.15 | 1.00 | 11.15 | ----- |
| TRACTORS | ACRE | 13.88 | 1.00 | 13.88 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 8.41 | 1.00 | 8.41 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 27.57 | 1.00 | 27.57 | ----- |
| | | | | ----- | |
| TOTAL FIXED COSTS | | | | 61.00 | ----- |
| TOTAL COSTS | | | | 740.04 | 794.57 |

=====

TABLE 6. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
 FOR APPLES, AVERAGE ANNUAL ESTIMATES FOR 7TH AND 8TH
 YEARS, NONIRRIGATED ORCHARD, NORTHWEST ARKANSAS, 1981

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|-----------------------------------|------|-----------------------|----------|------------------|---------------------|
| ----- | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| APPLES | BU. | 4.29 | 484.00 | 2076.36 | ----- |
| | | | | ----- | |
| TOTAL | | | | 2076.36 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| LIME APPLIED | TON | 18.00 | 1.00 | 18.00 | ----- |
| HOURLY LABOR | HR. | 3.50 | 35.50 | 124.25 | ----- |
| DORMANT OIL | GAL. | 8.93 | 2.50 | 22.32 | ----- |
| STREPTOMYCIN | OZ. | 2.95 | 14.00 | 41.30 | ----- |
| FOLIAR ANALYSIS | ACRE | 0.80 | 1.00 | 0.80 | ----- |
| AMMONIUM NITRATE | CWT | 7.50 | 2.00 | 15.00 | ----- |
| DIAZINON | LB. | 9.75 | 1.50 | 14.63 | ----- |
| FEBAM | LB. | 11.44 | 2.30 | 26.31 | ----- |
| KARMEX | LB. | 2.15 | 4.00 | 8.60 | ----- |
| ROUNDUP | GAL. | 72.00 | 0.26 | 18.72 | ----- |
| IIMIDAN | LB. | 2.56 | 2.30 | 5.89 | ----- |
| ZINEB | LB. | 5.79 | 1.15 | 6.66 | ----- |
| CAPTAN | LB. | 3.60 | 10.50 | 37.80 | ----- |
| SEVIN | LB. | 2.35 | 10.70 | 25.14 | ----- |
| OMITE | LB. | 3.55 | 3.60 | 12.78 | ----- |
| SOLUBAR | LB. | 0.60 | 4.00 | 2.40 | ----- |
| CALCIUM CHLORIDE | LB. | 0.23 | 15.00 | 3.45 | ----- |
| MACHINERY | ACRE | 0.90 | 1.00 | 0.90 | ----- |
| TRACTORS | ACRE | 16.04 | 1.00 | 16.04 | ----- |
| LABOR (MACH & TRACT) | HOUR | 3.56 | 5.12 | 18.22 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 168.50 | 23.59 | -----12.43 @ 7 3/8% |
| | | | | ----- | |
| SUBTOTAL, PRE-HARVEST | | | | 442.80 | -----431.64 |
| HARVEST COSTS | | | | | |
| HOURLY LABOR | HR. | 3.50 | 121.25 | 424.38 | ----- |
| MACHINERY | ACRE | 22.64 | 1.00 | 22.64 | ----- |
| LABOR (MACH & TRACT) | HOUR | 3.56 | 3.60 | 12.82 | ----- |
| | | | | ----- | |
| SUBTOTAL, HARVEST | | | | 459.83 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 891.47 | | -----89.15 |
| TOTAL VARIABLE COST | | | | 902.64 | -----980.62 |
| INCOME ABOVE VARIABLE COSTS | | | | 1173.72 | -----1095.74 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 11.15 | 1.00 | 11.15 | ----- |
| TRACTORS | ACRE | 13.88 | 1.00 | 13.88 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 12.61 | 1.00 | 12.61 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 31.97 | 1.00 | 31.97 | ----- |
| | | | | ----- | |
| TOTAL FIXED COSTS | | | | 69.61 | ----- |
| TOTAL COSTS | | | | 972.24 | -----1050.23 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | 1104.12 | -----1026.13 |

TABLE 7. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
 FOR APPLES, AVERAGE ANNUAL ESTIMATES FOR 9TH AND 10TH
 YEARS, NONIRRIGATED ORCHARD, NORTHWEST ARKANSAS, 1981

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|-----------------------------------|--------|-----------------------|----------|------------------|------------------|
| ----- | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| APPLES | BU. | 4.29 | 786.00 | 3371.94 | ----- |
| | | | | ----- | |
| TOTAL | | | | 3371.94 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| LIME APPLIED | TON | 18.00 | 1.00 | 18.00 | ----- |
| HOURLY LABOR | HR. | 3.50 | 35.50 | 124.25 | ----- |
| DORMANT OIL | GAL. | 8.93 | 2.50 | 22.32 | ----- |
| STREPTOMYCIN | OZ. | 2.95 | 14.00 | 41.30 | ----- |
| FOLIAR ANALYSIS | ACRE | 0.80 | 1.00 | 0.80 | ----- |
| AMMONIUM NITRATE | CWT | 7.50 | 2.00 | 15.00 | ----- |
| DIAZINON | LB. | 9.75 | 1.50 | 14.63 | ----- |
| FERBAM | LB. | 11.44 | 2.30 | 26.31 | ----- |
| KARMEX | LB. | 2.15 | 4.00 | 8.60 | ----- |
| ROUNDUP | GAL. | 72.00 | 0.26 | 18.72 | ----- |
| IIMIDAN | LB. | 2.56 | 2.30 | 5.89 | ----- |
| ZINEB | LB. | 5.79 | 1.15 | 6.66 | ----- |
| CAPTAN | LB. | 3.60 | 10.50 | 37.80 | ----- |
| SEVIN | LB. | 2.35 | 10.70 | 25.14 | ----- |
| OMITE | LB. | 3.55 | 3.60 | 12.78 | ----- |
| SOLUBAR | LB. | 0.60 | 4.00 | 2.40 | ----- |
| CALCIUM CHLORIDE | LB. | 0.23 | 15.00 | 3.45 | ----- |
| MACHINERY | ACRE | 0.90 | 1.00 | 0.90 | ----- |
| TRACTORS | ACRE | 16.04 | 1.00 | 16.04 | ----- |
| LABOR(MACH & TRACT) | HOURLY | 3.56 | 5.12 | 18.22 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 168.50 | 23.59 | 12.43 @ 7 3/8% |
| | | | | ----- | |
| SUBTOTAL, PRE-HARVEST | | | | 442.80 | 431.64 |
| HARVEST COSTS | | | | | |
| HOURLY LABOR | HR. | 3.50 | 196.52 | 687.84 | ----- |
| MACHINERY | ACRE | 60.38 | 1.00 | 60.38 | ----- |
| LABOR(MACH & TRACT) | HOURLY | 3.56 | 9.60 | 34.18 | ----- |
| | | | | ----- | |
| SUBTOTAL, HARVEST | | | | 782.40 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 1214.04 | | 121.40 |
| TOTAL VARIABLE COST | | | | 1225.20 | 1335.44 |
| INCOME ABOVE VARIABLE COSTS | | | | 2146.74 | 2036.50 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 11.15 | 1.00 | 11.15 | ----- |
| TRACTORS | ACRE | 13.88 | 1.00 | 13.88 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 33.63 | 1.00 | 33.63 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 53.97 | 1.00 | 53.97 | ----- |
| | | | | ----- | |
| TOTAL FIXED COSTS | | | | 112.62 | ----- |
| TOTAL COSTS | | | | 1337.82 | 1448.06 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | 2034.12 | 1923.88 |

TABLE 8. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
 FOR ESTABLISHING AN IRRIGATED APPLE
 ORCHARD, NORTHWEST ARKANSAS, 1981

| | | PRICE OR | QUANTITY | VALUE | YOUR |
|-----------------------------------|------|----------------|----------|----------|----------------|
| | | UNIT COST/UNIT | | OR COST | ESTIMATE |
| ----- | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| TOTAL | | | | 0.0 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| LAND PREP CUS | ACRE | 50.00 | 1.00 | 50.00 | ----- |
| RABBIT GUARD | EA. | 0.25 | 181.00 | 45.25 | ----- |
| SURFLAN | LB. | 3.00 | 4.00 | 12.00 | ----- |
| PARAQUAT | LB. | 18.30 | 0.60 | 10.98 | ----- |
| APPLE TREES | EA. | 3.75 | 181.00 | 678.75 | ----- |
| AMMONIUM NITRATE | CWT | 7.50 | 0.70 | 5.25 | ----- |
| HOURLY LABOR | HR. | 3.50 | 38.50 | 134.75 | ----- |
| MACHINERY | ACRE | 0.85 | 1.00 | 0.85 | ----- |
| TRACTORS | ACRE | 20.05 | 1.00 | 20.05 | ----- |
| IRRIGATION MACHINERY | ACRE | 0.77 | 1.00 | 0.77 | ----- |
| LABOR(MACH & TRACT) | HOUR | 3.56 | 6.40 | 22.78 | ----- |
| LABOR(IRRIGATION) | HOUR | 3.83 | 0.43 | 1.65 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 704.34 | 98.61 | 51.95 @ 7 3/8% |
| SUBTOTAL, PRE-HARVEST | | | | 1081.69 | 1035.03 |
| HARVEST COSTS | | | | | |
| SUBTOTAL, HARVEST | | | | 0.0 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 1035.03 | | 103.50 |
| TOTAL VARIABLE COST | | | | 1081.69 | 1138.53 |
| INCOME ABOVE VARIABLE COSTS | | | | -1081.69 | -1138.53 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 6.41 | 1.00 | 6.41 | ----- |
| TRACTORS | ACRE | 17.35 | 1.00 | 17.35 | ----- |
| IRRIGATION MACHINERY | ACRE | 123.53 | 1.00 | 123.53 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 25.17 | 1.00 | 25.17 | ----- |
| TOTAL FIXED COSTS | | | | 172.46 | ----- |
| TOTAL COSTS | | | | 1254.15 | 1310.99 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | -1254.15 | -1310.99 |
| ===== | | | | | |

TABLE 9. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
FOR THE 2ND YEAR IN AN IRRIGATED APPLE
ORCHARD, NORTHWEST ARKANSAS, 1981

| | | PRICE OR | QUANTITY | VALUE | YOUR |
|-----------------------------------|--------|----------------|----------|---------|----------|
| | | UNIT COST/UNIT | | OR COST | ESTIMATE |
| ----- | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| TOTAL | | | | 0.0 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| FERT 13-13-13 | CWT | 8.25 | 3.60 | 29.70 | ===== |
| HOURLY LABOR | HR. | 3.50 | 20.00 | 70.00 | ----- |
| PRINCEP | LB. | 4.93 | 0.80 | 3.94 | ----- |
| PARAQUAT | LB. | 18.30 | 1.20 | 21.96 | ----- |
| SEVIN | LB. | 2.35 | 2.00 | 4.70 | ----- |
| APPLE TREES | EA. | 3.75 | 9.00 | 33.75 | ----- |
| DORMANT OIL | GAL. | 8.93 | 1.60 | 14.29 | ----- |
| STREPTOMYCIN | OZ. | 2.95 | 10.00 | 29.50 | ----- |
| ZINEB | LB. | 5.79 | 2.20 | 12.74 | ----- |
| AMMONIUM NITRATE | CWT | 7.50 | 1.50 | 11.25 | ----- |
| DIAZINON | LB. | 9.75 | 2.20 | 21.45 | ----- |
| MACHINERY | ACRE | 0.84 | 1.00 | 0.84 | ----- |
| TRACTORS | ACRE | 12.81 | 1.00 | 12.81 | ----- |
| IRRIGATION MACHINERY | ACRE | 0.76 | 1.00 | 0.76 | ----- |
| LABOR(MACH & TRACT) | HOURLY | 3.56 | 4.09 | 14.56 | ----- |
| LABOR(IRRIGATION) | HOURLY | 3.83 | 0.65 | 2.48 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 184.32 | 25.81 | ----- |
| SUBTOTAL, PRE-HARVEST | | | | 310.54 | ----- |
| HARVEST COSTS | | | | | |
| SUBTOTAL, HARVEST | | | | 0.0 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 298.32 | 29.83 | ----- |
| TOTAL VARIABLE COST | | | | 310.54 | ----- |
| INCOME ABOVE VARIABLE COSTS | | | | -310.54 | ----- |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 7.76 | 1.00 | 7.76 | ----- |
| TRACTORS | ACRE | 11.09 | 1.00 | 11.09 | ----- |
| IRRIGATION MACHINERY | ACRE | 123.64 | 1.00 | 123.64 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 17.55 | 1.00 | 17.55 | ----- |
| TOTAL FIXED COSTS | | | | 160.04 | ----- |
| TOTAL COSTS | | | | 470.58 | ----- |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | -470.58 | ----- |
| ===== | | | | | |

@ 7 3/8%

TABLE 10. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
 FOR 3RD YEAR IN AN IRRIGATED APPLE
 ORCHARD, NORTHWEST ARKANSAS, 1981

| | | PRICE OR | QUANTITY | VALUE | YOUR |
|-----------------------------------|------|----------|-----------|---------|---------------|
| | | UNIT | COST/UNIT | OR COST | ESTIMATE |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| TOTAL | | | | 0.0 | |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| HOURLY LABOR | HR. | 3.50 | 17.00 | 59.50 | |
| DORMANT OIL | GAL. | 8.93 | 2.10 | 18.75 | |
| STREPTOMYCIN | OZ. | 2.95 | 12.00 | 35.40 | |
| AMMONIUM NITRATE | CWT | 7.50 | 1.30 | 9.75 | |
| DIAZINON | LB. | 9.75 | 1.10 | 10.72 | |
| KARMEX | LB. | 2.15 | 4.00 | 8.60 | |
| ROUNDUP | GAL. | 72.00 | 0.25 | 18.00 | |
| IIMIDAN | LB. | 2.56 | 1.60 | 4.10 | |
| ZINEB | LB. | 5.79 | 1.60 | 9.26 | |
| SEVIN | LB. | 2.35 | 2.10 | 4.93 | |
| OMITE | LB. | 3.55 | 1.30 | 4.61 | |
| MACHINERY | ACRE | 0.63 | 1.00 | 0.63 | |
| TRACTORS | ACRE | 12.98 | 1.00 | 12.98 | |
| IRRIGATION MACHINERY | ACRE | 0.78 | 1.00 | 0.78 | |
| LABOR(MACH & TRACT) | HOUR | 3.56 | 4.14 | 14.75 | |
| LABOR(IRRIGATION) | HOUR | 3.83 | 1.76 | 6.73 | |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 132.91 | 18.61 | 9.80 @ 7 3/8% |
| SUBTOTAL, PRE-HARVEST | | | | 238.12 | 229.31 |
| HARVEST COSTS | | | | | |
| SUBTOTAL, HARVEST | | | | 0.0 | |
| MANAGEMENT CHARGE | DOL. | 0.10 | 229.31 | | 22.93 |
| TOTAL VARIABLE COST | | | | 238.12 | 252.24 |
| INCOME ABOVE VARIABLE COSTS | | | | -238.12 | -252.24 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 6.48 | 1.00 | 6.48 | |
| TRACTORS | ACRE | 11.23 | 1.00 | 11.23 | |
| IRRIGATION MACHINERY | ACRE | 123.01 | 1.00 | 123.01 | |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | |
| OVERHEAD LABOR | ACRE | 22.12 | 1.00 | 22.12 | |
| TOTAL FIXED COSTS | | | | 162.84 | |
| TOTAL COSTS | | | | 400.96 | 415.08 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | -400.96 | -415.08 |

TABLE 11. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
FOR 4TH YEAR IN AN IRRIGATED APPLE
ORCHARD, NORTHWEST ARKANSAS, 1981

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|--------------------------------|------|-----------------------|----------|------------------|------------------|
| ----- | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| APPLES | BU. | 4.29 | 30.00 | 128.70 | ----- |
| | | | | ----- | |
| TOTAL | | | | 128.70 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| LIME APPLIED | TON | 18.00 | 1.00 | 18.00 | ----- |
| HOURLY LABOR | HR. | 3.50 | 27.00 | 94.50 | ----- |
| DORMANT OIL | GAL. | 8.93 | 2.60 | 23.22 | ----- |
| STREPTOMYCIN | OZ. | 2.95 | 15.00 | 44.25 | ----- |
| FOLIAR ANALYSIS | ACRE | 0.80 | 1.00 | 0.80 | ----- |
| AMMONIUM NITRATE | CWT | 7.50 | 2.00 | 15.00 | ----- |
| DIAZINON | LB. | 9.75 | 1.60 | 15.60 | ----- |
| FERBAM | LB. | 11.44 | 2.40 | 27.46 | ----- |
| KARMEX | LB. | 2.15 | 4.00 | 8.60 | ----- |
| ROUNDUP | GAL. | 72.00 | 0.26 | 18.72 | ----- |
| IIMIDAN | LB. | 2.56 | 2.50 | 6.40 | ----- |
| ZINEB | LB. | 5.79 | 1.25 | 7.24 | ----- |
| CAPTAN | LB. | 3.60 | 10.80 | 38.88 | ----- |
| SEVIN | LB. | 2.35 | 11.10 | 26.08 | ----- |
| OMITE | LB. | 3.55 | 3.80 | 13.49 | ----- |
| SOLUBAR | LB. | 0.60 | 4.10 | 2.46 | ----- |
| CALCIUM CHLORIDE | LB. | 0.23 | 15.60 | 3.59 | ----- |
| MACHINERY | ACRE | 0.91 | 1.00 | 0.91 | ----- |
| TRACTORS | ACRE | 17.26 | 1.00 | 17.26 | ----- |
| IRRIGATION MACHINERY | ACRE | 0.80 | 1.00 | 0.80 | ----- |
| LABOR(MACH & TRACT) | HOUR | 3.56 | 5.51 | 19.61 | ----- |
| LABOR(IRRIATION) | HOUR | 3.83 | 2.40 | 9.18 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 156.37 | 21.89 | 11.53 @ 7 3/8% |
| | | | | ----- | |
| SUBTOTAL, PRE-HARVEST | | | | 433.94 | 423.58 |
| HARVEST COSTS | | | | | |
| HOURLY LABOR | HR. | 3.50 | 8.00 | 28.00 | ----- |
| MACHINERY | ACRE | 0.01 | 1.00 | 0.01 | ----- |
| TRACTORS | ACRE | 1.12 | 1.00 | 1.12 | ----- |
| LABOR(MACH & TRACT) | HOUR | 3.56 | 0.36 | 1.27 | ----- |
| | | | | ----- | |
| SUBTOTAL, HARVEST | | | | 30.40 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 453.98 | | 45.40 |
| TOTAL VARIABLE COST | | | | 464.33 | 499.38 |
| INCOME ABOVE VARIABLE COSTS | | | | -335.63 | -370.68 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 11.36 | 1.00 | 11.36 | ----- |
| TRACTORS | ACRE | 14.94 | 1.00 | 14.94 | ----- |
| IRRIGATION MACHINERY | ACRE | 123.62 | 1.00 | 123.62 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.16 | 1.00 | 0.16 | ----- |
| TRACTORS | ACRE | 0.97 | 1.00 | 0.97 | ----- |
| OVERHEAD LABOR | ACRE | 30.96 | 1.00 | 30.96 | ----- |
| | | | | ----- | |
| TOTAL FIXED COSTS | | | | 182.01 | ----- |

TOTAL COSTS

646.35 681.39

NET RETURNS ABOVE SPECIFIED COSTS

-517.65 552.69

=====

TABLE 12. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
FOR 5TH AND 6TH YEARS IN AN IRRIGATED APPLE
ORCHARD, NORTHWEST ARKANSAS, 1981

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|--------------------------------|------|-----------------------|----------|------------------|------------------|
| ===== | | | | | |
| ----- | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| APPLES | BU. | 4.29 | 245.00 | 1051.05 | ----- |
| | | | | ----- | |
| TOTAL | | | | 1051.05 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| LIME APPLIED | TON | 18.00 | 1.00 | 18.00 | ----- |
| HOURLY LABOR | HR. | 3.50 | 37.00 | 129.50 | ----- |
| DORMANT OIL | GAL. | 8.93 | 2.60 | 23.22 | ----- |
| STREPTOMYCIN | OZ. | 2.95 | 15.00 | 44.25 | ----- |
| FOLIAR ANALYSIS | ACRE | 0.80 | 1.00 | 0.80 | ----- |
| AMMONIUM NITRATE | CWT | 7.50 | 2.00 | 15.00 | ----- |
| DIAZINON | LB. | 9.75 | 1.60 | 15.60 | ----- |
| FERBAM | LB. | 11.44 | 2.40 | 27.46 | ----- |
| KARMEX | LB. | 2.15 | 4.00 | 8.60 | ----- |
| LIME APPLIED | TON | 18.00 | 1.00 | 18.00 | ----- |
| ROUNDUP | GAL. | 72.00 | 0.26 | 18.72 | ----- |
| IIMIDAN | LB. | 2.56 | 2.50 | 6.40 | ----- |
| ZINEB | LB. | 5.79 | 1.25 | 7.24 | ----- |
| CAPTAN | LB. | 3.60 | 10.80 | 38.88 | ----- |
| SEVIN | LB. | 2.35 | 11.10 | 26.08 | ----- |
| OMITE | LB. | 3.55 | 3.80 | 13.49 | ----- |
| SOLUBAR | LB. | 0.60 | 4.10 | 2.46 | ----- |
| CALCIUM CHLORIDE | LB. | 0.23 | 15.60 | 3.59 | ----- |
| MACHINERY | ACRE | 0.91 | 1.00 | 0.91 | ----- |
| TRACTORS | ACRE | 17.26 | 1.00 | 17.26 | ----- |
| IRRIGATION MACHINERY | ACRE | 0.69 | 1.00 | 0.69 | ----- |
| LABOR(MACH & TRACT) | HOUR | 3.56 | 5.51 | 19.61 | ----- |
| LABOR(IRRIGATION) | HOUR | 3.83 | 3.10 | 11.87 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 188.84 | 26.44 | 13.93 @ 7 3/8% |
| | | | | ----- | |
| SUBTOTAL, PRE-HARVEST | | | | 494.07 | 481.56 |
| HARVEST COSTS | | | | | |
| HOURLY LABOR | HR. | 3.50 | 61.25 | 214.38 | ----- |
| MACHINERY | ACRE | 15.10 | 1.00 | 15.10 | ----- |
| LABOR(MACH & TRACT) | HOUR | 3.56 | 2.40 | 8.54 | ----- |
| | | | | ----- | |
| SUBTOTAL, HARVEST | | | | 238.01 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 719.57 | | 71.96 |
| | | | | | ----- |
| TOTAL VARIABLE COST | | | | 732.08 | 791.53 |
| INCOME ABOVE VARIABLE COSTS | | | | 318.97 | 259.52 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 11.36 | 1.00 | 11.36 | ----- |
| TRACTORS | ACRE | 14.94 | 1.00 | 14.94 | ----- |
| IRRIGATION MACHINERY | ACRE | 122.92 | 1.00 | 122.92 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 8.41 | 1.00 | 8.41 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 41.23 | 1.00 | 41.23 | ----- |
| | | | | ----- | |
| TOTAL FIXED COSTS | | | | 198.85 | ----- |

TOTAL COSTS

930.94 ~~990.38~~

NET RETURNS ABOVE SPECIFIED COSTS

120.11 ~~60.67~~

=====

TABLE 13. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
FOR 7TH AND 8TH YEARS IN AN IRRIGATED APPLE
ORCHARD, NORTHWEST ARKANSAS, 1981

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|--------------------------------|------|-----------------------|----------|------------------|---------------------|
| ===== | | | | | |
| ----- | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| APPLES | BU. | 4.29 | 537.00 | 2303.73 | ----- |
| | | | | ----- | |
| TOTAL | | | | 2303.73 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| LIME APPLIED | TON | 18.00 | 1.00 | 18.00 | ----- |
| HOURLY LABOR | HR. | 3.50 | 37.00 | 129.50 | ----- |
| DORMANT OIL | GAL. | 8.93 | 2.60 | 23.22 | ----- |
| STREPTOMYCIN | OZ. | 2.95 | 15.00 | 44.25 | ----- |
| FOLIAR ANALYSIS | ACRE | 0.80 | 1.00 | 0.80 | ----- |
| AMMONIUM NITRATE | CWT | 7.50 | 2.00 | 15.00 | ----- |
| DIAZINON | LB. | 9.75 | 1.60 | 15.60 | ----- |
| FERBAM | LB. | 11.44 | 2.40 | 27.46 | ----- |
| KARMEX | LB. | 2.15 | 4.00 | 8.60 | ----- |
| ROUNDUP | GAL. | 72.00 | 0.26 | 18.72 | ----- |
| IIMIDAN | LB. | 2.56 | 2.50 | 6.40 | ----- |
| ZINEB | LB. | 5.79 | 1.25 | 7.24 | ----- |
| CAPTAN | LB. | 3.60 | 10.80 | 38.88 | ----- |
| SEVIN | LB. | 2.35 | 11.10 | 26.08 | ----- |
| OMITE | LB. | 3.55 | 3.80 | 13.49 | ----- |
| SOLUBAR | LB. | 0.60 | 4.10 | 2.46 | ----- |
| CALCIUM CHLORIDE | LB. | 0.23 | 15.60 | 3.59 | ----- |
| MACHINERY | ACRE | 0.91 | 1.00 | 0.91 | ----- |
| TRACTORS | ACRE | 17.26 | 1.00 | 17.26 | ----- |
| IRRIGATION MACHINERY | ACRE | 0.69 | 1.00 | 0.69 | ----- |
| LABOR(MACH & TRACT) | HR. | 3.56 | 5.51 | 19.61 | ----- |
| LABOR(IRRIGATION) | HR. | 3.83 | 3.10 | 11.87 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 173.84 | 24.34 | -----12.82 @ 7 3/8% |
| | | | | ----- | |
| SUBTOTAL, PRE-HARVEST | | | | 473.97 | -----462.45 |
| HARVEST COSTS | | | | | |
| HOURLY LABOR | HR. | 3.50 | 134.25 | 469.88 | ----- |
| MACHINERY | ACRE | 15.10 | 1.00 | 15.10 | ----- |
| LABOR(MACH & TRACT) | HR. | 3.56 | 2.40 | 8.54 | ----- |
| | | | | ----- | |
| SUBTOTAL, HARVEST | | | | 493.51 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 955.96 | | -----95.60 |
| TOTAL VARIABLE COST | | | | 967.48 | -----1051.56 |
| INCOME ABOVE VARIABLE COSTS | | | | 1336.25 | -----1252.17 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 11.36 | 1.00 | 11.36 | ----- |
| TRACTORS | ACRE | 14.94 | 1.00 | 14.94 | ----- |
| IRRIGATION MACHINERY | ACRE | 122.92 | 1.00 | 122.92 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 8.41 | 1.00 | 8.41 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 41.23 | 1.00 | 41.23 | ----- |
| | | | | ----- | |
| TOTAL FIXED COSTS | | | | 198.85 | ----- |

TOTAL COSTS

1166.34 ~~1250.41~~

NET RETURNS ABOVE SPECIFIED COSTS

1137.39 ~~1053.32~~

=====

TABLE 14. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
FOR 9TH AND 10TH YEARS IN AN IRRIGATED APPLE
ORCHARD, NORTHWEST ARKANSAS, 1981

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|--------------------------------|------|-----------------------|----------|------------------|------------------|
| ----- | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| APPLES | BU. | 4.29 | 873.00 | 3745.17 | ----- |
| | | | | ----- | |
| TOTAL | | | | 3745.17 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| LIME APPLIED | TON | 18.00 | 1.00 | 18.00 | ----- |
| HOURLY LABOR | HR. | 3.50 | 39.00 | 136.50 | ----- |
| DORMANT OIL | GAL. | 8.93 | 2.60 | 23.22 | ----- |
| STREPTOMYCIN | OZ. | 2.95 | 15.00 | 44.25 | ----- |
| FOLIAR ANALYSIS | ACRE | 0.80 | 1.00 | 0.80 | ----- |
| AMMONIUM NITRATE | CWT | 7.50 | 2.00 | 15.00 | ----- |
| DIAZINON | LB. | 9.75 | 1.60 | 15.60 | ----- |
| FERBAM | LB. | 11.44 | 2.40 | 27.46 | ----- |
| KARMEX | LB. | 2.15 | 4.00 | 8.60 | ----- |
| ROUNDUP | GAL. | 72.00 | 0.26 | 18.72 | ----- |
| IIMIDAN | LB. | 2.56 | 2.50 | 6.40 | ----- |
| ZINEB | LB. | 5.79 | 1.25 | 7.24 | ----- |
| CAPTAN | LB. | 3.60 | 10.80 | 38.88 | ----- |
| SEVIN | LB. | 2.35 | 11.10 | 26.08 | ----- |
| OMITE | LB. | 3.55 | 3.80 | 13.49 | ----- |
| SOLUBAR | LB. | 0.60 | 4.10 | 2.46 | ----- |
| CALCIUM CHLORIDE | LB. | 0.23 | 15.60 | 3.59 | ----- |
| MACHINERY | ACRE | 0.91 | 1.00 | 0.91 | ----- |
| TRACTORS | ACRE | 17.26 | 1.00 | 17.26 | ----- |
| IRRIGATION MACHINERY | ACRE | 0.69 | 1.00 | 0.69 | ----- |
| LABOR(MACH & TRACT) | HOUR | 3.56 | 5.51 | 19.61 | ----- |
| LABOR(IRRIGATION) | HOUR | 3.83 | 3.10 | 11.87 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 180.26 | 25.24 | 13.29 @ 7 3/8% |
| | | | | ----- | |
| SUBTOTAL, PRE-HARVEST | | | | 481.87 | 469.92 |
| HARVEST COSTS | | | | | |
| HOURLY LABOR | HR. | 3.50 | 218.25 | 763.88 | ----- |
| MACHINERY | ACRE | 15.10 | 1.00 | 15.10 | ----- |
| LABOR(MACH & TRACT) | HOUR | 3.56 | 2.40 | 8.54 | ----- |
| | | | | ----- | |
| SUBTOTAL, HARVEST | | | | 787.51 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 1257.43 | | 125.74 |
| TOTAL VARIABLE COST | | | | 1269.38 | 1383.17 |
| INCOME ABOVE VARIABLE COSTS | | | | 2475.79 | 2362.00 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 11.36 | 1.00 | 11.36 | ----- |
| TRACTORS | ACRE | 14.94 | 1.00 | 14.94 | ----- |
| IRRIGATION MACHINERY | ACRE | 122.92 | 1.00 | 122.92 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 8.41 | 1.00 | 8.41 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 41.23 | 1.00 | 41.23 | ----- |
| | | | | ----- | |
| TOTAL FIXED COSTS | | | | 198.85 | ----- |

TOTAL COSTS

1468.24 ~~1582.02~~

NET RETURNS ABOVE SPECIFIED COSTS

2276.93 2163.15

=====

TABLE 15. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
 FOR ESTABLISHING PEACHES, NONIRRIGATED
 NORTHWEST ARKANSAS, 1981

| | | PRICE OR | | VALUE | YOUR | |
|-----------------------------------|------|----------|-----------|----------|----------------|----------|
| | | UNIT | COST/UNIT | QUANTITY | OR COST | ESTIMATE |
| GROSS RECEIPTS FROM PRODUCTION | | | | | | |
| TOTAL | | | | 0.0 | | |
| VARIABLE COSTS | | | | | | |
| PRE-HARVEST | | | | | | |
| LAND PREP CUS | ACRE | 50.00 | 1.00 | 50.00 | | |
| LIME APPLIED | TON | 18.00 | 1.00 | 18.00 | | |
| SURFLAN | LB. | 3.00 | 3.00 | 9.00 | | |
| PEACH TREES | EA. | 1.25 | 110.00 | 137.50 | | |
| RABBIT GUARD | EA. | 0.25 | 110.00 | 27.50 | | |
| HOURLY LABOR | HR. | 3.50 | 18.00 | 63.00 | | |
| BENLATE | LB. | 23.00 | 0.50 | 11.50 | | |
| SEVIN | LB. | 2.35 | 2.00 | 4.70 | | |
| AMMONIUM NITRATE | CWT | 7.50 | 0.55 | 4.12 | | |
| IIMIDAN | LB. | 2.56 | 0.50 | 1.28 | | |
| MACHINERY | ACRE | 0.96 | 1.00 | 0.96 | | |
| TRACTORS | ACRE | 17.57 | 1.00 | 17.57 | | |
| LABOR (MACH & TRACT) | HOUR | 3.56 | 5.61 | 19.96 | | |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 257.05 | 35.99 | 18.96 @ 7 3/8% | |
| SUBTOTAL, PRE-HARVEST | | | | 401.08 | 384.05 | |
| HARVEST COSTS | | | | | | |
| SUBTOTAL, HARVEST | | | | 0.0 | | |
| MANAGEMENT CHARGE | DOL. | 0.10 | 384.05 | | 38.41 | |
| TOTAL VARIABLE COST | | | | 401.08 | 422.46 | |
| INCOME ABOVE VARIABLE COSTS | | | | -401.08 | -422.46 | |
| FIXED COSTS | | | | | | |
| PRE-HARVEST | | | | | | |
| MACHINERY | ACRE | 5.32 | 1.00 | 5.32 | | |
| TRACTORS | ACRE | 15.20 | 1.00 | 15.20 | | |
| HARVEST | | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | | |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | | |
| OVERHEAD LABOR | ACRE | 20.56 | 1.00 | 20.56 | | |
| TOTAL FIXED COSTS | | | | 41.08 | | |
| TOTAL COSTS | | | | 442.17 | 463.54 | |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | -442.17 | -463.54 | |

TABLE 16. ESTIMATED COSTS AND RETURNS PER ACRE. 4 ROW EQUIPMENT.
 FOR ESTABLISHING PEACHES, 2ND YEAR, NONIRRIGATED
 NORTHWEST ARKANSAS, 1981

| | | PRICE OR | QUANTITY | VALUE | YOUR |
|-----------------------------------|------|----------------|----------|---------|----------|
| | | UNIT COST/UNIT | | OR COST | ESTIMATE |
| ----- | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| TOTAL | | | | 0.0 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| FERBAM | LB. | 11.44 | 0.50 | 5.72 | ----- |
| DORMANT OIL | GAL. | 8.93 | 1.10 | 9.82 | ----- |
| AMMONIUM NITRATE | CWT | 7.50 | 1.10 | 8.25 | ----- |
| PEACH TREES | EA. | 1.25 | 5.00 | 6.25 | ----- |
| SURFLAN | LB. | 3.00 | 3.00 | 9.00 | ----- |
| BENLATE | LB. | 23.00 | 0.50 | 11.50 | ----- |
| THIODAN | LB. | 8.33 | 1.00 | 8.33 | ----- |
| HOURLY LABOR | HR. | 3.50 | 17.00 | 59.50 | ----- |
| MACHINERY | ACRE | 0.64 | 1.00 | 0.64 | ----- |
| TRACTORS | ACRE | 10.13 | 1.00 | 10.13 | ----- |
| LABOR (MACH & TRACT) | HOUR | 3.56 | 3.23 | 11.51 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 90.08 | 12.61 | ----- |
| SUBTOTAL, PRE-HARVEST | | | | 153.27 | 147.30 |
| HARVEST COSTS | | | | | |
| SUBTOTAL, HARVEST | | | | 0.0 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 147.30 | | 14.73 |
| TOTAL VARIABLE COST | | | | 153.27 | 162.03 |
| INCOME ABOVE VARIABLE COSTS | | | | -153.27 | -162.03 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 4.27 | 1.00 | 4.27 | ----- |
| TRACTORS | ACRE | 8.77 | 1.00 | 8.77 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 11.86 | 1.00 | 11.86 | ----- |
| TOTAL FIXED COSTS | | | | 24.90 | ----- |
| TOTAL COSTS | | | | 178.16 | 186.93 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | -178.16 | -186.93 |
| ===== | | | | | |

6.64 @ 7 3/8%

TABLE 17. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT.
 FOR ESTABLISHING PEACHES, 3RD YEAR, NONIRRIGATED
 NORTHWEST ARKANSAS, 1981

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|-----------------------------------|------|-----------------------|----------|------------------|------------------|
| ----- | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| PEACHES | BU. | 8.00 | 55.00 | 440.00 | ----- |
| | | | | ----- | |
| TOTAL | | | | 440.00 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| FERBAM | LB. | 11.44 | 1.00 | 11.44 | ----- |
| DORMANT OIL | GAL. | 8.93 | 3.00 | 26.79 | ----- |
| AMMONIUM NITRATE | CWT | 7.50 | 2.20 | 16.50 | ----- |
| HOURLY LABOR | HR. | 3.50 | 16.00 | 56.00 | ----- |
| BENLATE | LB. | 23.00 | 2.00 | 46.00 | ----- |
| CAPTAN | LB. | 3.60 | 4.00 | 14.40 | ----- |
| THIODAN | LB. | 8.33 | 1.00 | 8.33 | ----- |
| IIMIDAN | LB. | 2.56 | 0.75 | 1.92 | ----- |
| SEVIN | LB. | 2.35 | 2.00 | 4.70 | ----- |
| SINBAR | LB. | 19.84 | 1.00 | 19.84 | ----- |
| KARMEX | LB. | 2.15 | 1.00 | 2.15 | ----- |
| PARAQUAT | LB. | 18.30 | 0.50 | 9.15 | ----- |
| CONTAINERS | EA. | 0.60 | 20.00 | 12.00 | ----- |
| MACHINERY | ACRE | 0.88 | 1.00 | 0.88 | ----- |
| TRACTORS | ACRE | 13.37 | 1.00 | 13.37 | ----- |
| LABOR (MACH & TRACT) | HOUR | 3.56 | 4.27 | 15.20 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 67.25 | 9.42 | ----- @ 7 3/8% |
| | | | | ----- | |
| SUBTOTAL, PRE-HARVEST | | | | 268.09 | ----- 263.63 |
| HARVEST COSTS | | | | | |
| HOURLY LABOR | HR. | 3.50 | 5.00 | 17.50 | ----- |
| | | | | ----- | |
| SUBTOTAL, HARVEST | | | | 17.50 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 281.13 | | ----- 28.11 |
| TOTAL VARIABLE COST | | | | 285.59 | ----- 309.24 |
| INCOME ABOVE VARIABLE COSTS | | | | 154.41 | ----- 130.76 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 8.56 | 1.00 | 8.56 | ----- |
| TRACTORS | ACRE | 11.57 | 1.00 | 11.57 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 15.65 | 1.00 | 15.65 | ----- |
| | | | | ----- | |
| TOTAL FIXED COSTS | | | | 35.79 | ----- |
| TOTAL COSTS | | | | 321.37 | ----- 345.03 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | 118.63 | ----- 94.97 |
| ===== | | | | | |

TABLE 10. ESTIMATED COSTS AND RETURNS PER ACRE FOR PEACHES IN THE FOURTH YEAR, NONIRRIGATED NORTHWEST ARKANSAS, 1981

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|-----------------------------------|------|--------------------|----------|---------------|---------------------|
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| PEACHES | BU. | 8.00 | 77.00 | 616.00 | ----- |
| | | | | <u>616.00</u> | |
| TOTAL | | | | 616.00 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| FERBAM | LB. | 11.44 | 1.50 | 17.16 | ----- |
| DORMANT OIL | GAL. | 8.93 | 3.50 | 31.25 | ----- |
| AMMONIUM NITRATE | CWT | 7.50 | 0.75 | 5.63 | ----- |
| HOURLY LABOR | HR. | 3.50 | 29.00 | 101.50 | ----- |
| BENLATE | LB. | 23.00 | 2.20 | 50.60 | ----- |
| CAPTAN | LB. | 3.60 | 4.20 | 15.12 | ----- |
| THIODAN | LB. | 8.33 | 1.00 | 8.33 | ----- |
| IIMIDAN | LB. | 2.56 | 0.90 | 2.30 | ----- |
| SEVIN | LB. | 2.35 | 2.10 | 4.93 | ----- |
| KARMEX | LB. | 2.15 | 1.00 | 2.15 | ----- |
| SINBAR | LB. | 19.84 | 1.00 | 19.84 | ----- |
| PARAQUAT | LB. | 18.30 | 0.50 | 9.15 | ----- |
| CONTAINERS | EA. | 0.60 | 20.00 | 12.00 | ----- |
| LORSBAN 4E | LB. | 6.90 | 1.00 | 6.90 | ----- |
| MACHINERY | ACRE | 1.00 | 1.00 | 1.00 | ----- |
| TRACTORS | ACRE | 14.24 | 1.00 | 14.24 | ----- |
| LABOR (MACH & TRACT) | HR. | 3.56 | 4.55 | 16.18 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 91.43 | 12.80 | ----- 6.74 @ 7 3/8% |
| SUBTOTAL, PRE-HARVEST | | | | <u>331.10</u> | <u>325.04</u> |
| HARVEST COSTS | | | | | |
| HOURLY LABOR | HR. | 3.50 | 10.00 | 35.00 | ----- |
| SUBTOTAL, HARVEST | | | | <u>35.00</u> | |
| MANAGEMENT CHARGE | DOL. | 0.10 | 360.04 | | <u>36.00</u> |
| TOTAL VARIABLE COST | | | | <u>366.10</u> | <u>396.04</u> |
| INCOME ABOVE VARIABLE COSTS | | | | <u>249.90</u> | <u>219.96</u> |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 8.69 | 1.00 | 8.69 | ----- |
| TRACTORS | ACRE | 12.32 | 1.00 | 12.32 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 16.67 | 1.00 | 16.67 | ----- |
| TOTAL FIXED COSTS | | | | <u>37.68</u> | |
| TOTAL COSTS | | | | <u>403.78</u> | <u>433.72</u> |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | <u>212.22</u> | <u>182.28</u> |

TABLE 19. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
 FOR PEACHES IN THE FIFTH YEAR, NONIRRIGATED
 NORTHWEST ARKANSAS, 1981

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|-----------------------------------|------|-----------------------|----------|------------------|------------------|
| ----- | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| PEACHES | BU. | 8.00 | 220.00 | 1760.00 | ----- |
| | | | | ----- | |
| TOTAL | | | | 1760.00 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| FERBAM | LB. | 11.44 | 1.50 | 17.16 | ----- |
| DORMANT OIL | GAL. | 8.93 | 3.50 | 31.25 | ----- |
| AMMONIUM NITRATE | CWT | 7.50 | 0.75 | 5.63 | ----- |
| HOURLY LABOR | HR. | 3.50 | 43.00 | 150.50 | ----- |
| BENLATE | LB. | 23.00 | 2.60 | 59.80 | ----- |
| CAPTAN | LB. | 3.60 | 4.60 | 16.56 | ----- |
| THIODAN | LB. | 8.33 | 1.20 | 10.00 | ----- |
| IIMIDAN | LB. | 2.56 | 1.10 | 2.82 | ----- |
| SEVIN | LB. | 2.35 | 2.30 | 5.40 | ----- |
| KARMEX | LB. | 2.15 | 1.00 | 2.15 | ----- |
| SINBAR | LB. | 19.84 | 1.00 | 19.84 | ----- |
| PARAQUAT | LB. | 18.30 | 0.50 | 9.15 | ----- |
| CONTAINERS | EA. | 0.60 | 20.00 | 12.00 | ----- |
| LORSBAN 4E | LB. | 6.90 | 1.00 | 6.90 | ----- |
| FERT 0 0 60 | CWT | 7.50 | 0.55 | 4.12 | ----- |
| MACHINERY | ACRE | 1.00 | 1.00 | 1.00 | ----- |
| TRACTORS | ACRE | 14.24 | 1.00 | 14.24 | ----- |
| LABOR (MACH & TRACT) | HR. | 3.56 | 4.55 | 16.18 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 103.11 | 14.43 | 7.60 @ 7 3/8% |
| | | | | ----- | |
| SUBTOTAL, PRE-HARVEST | | | | 399.14 | 392.31 |
| HARVEST COSTS | | | | | |
| HOURLY LABOR | HR. | 3.50 | 10.00 | 35.00 | ----- |
| | | | | ----- | |
| SUBTOTAL, HARVEST | | | | 35.00 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 427.31 | | 42.73 |
| TOTAL VARIABLE COST | | | | 434.14 | 470.04 |
| INCOME ABOVE VARIABLE COSTS | | | | 1325.86 | 1289.96 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 8.69 | 1.00 | 8.69 | ----- |
| TRACTORS | ACRE | 12.32 | 1.00 | 12.32 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 16.67 | 1.00 | 16.67 | ----- |
| TOTAL FIXED COSTS | | | | 37.68 | ----- |
| TOTAL COSTS | | | | 471.83 | 507.72 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | 1288.17 | 1252.28 |
| ===== | | | | | |

TABLE 20. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
 FOR AMATURE PEACH ORCHARD, NONIRRIGATED
 IN WEST ARKANSAS, 1981

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|-----------------------------------|--------|-----------------------|----------|------------------|------------------|
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| PEACHES | BU. | 8.00 | 330.00 | 2640.00 | ----- |
| TOTAL | | | | 2640.00 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| FERBAM | LB. | 11.44 | 1.50 | 17.16 | ----- |
| DORMANT OIL | GAL. | 8.93 | 3.50 | 31.25 | ----- |
| AMMONIUM NITRATE | CWT | 7.50 | 0.75 | 5.63 | ----- |
| HOURLY LABOR | HR. | 3.50 | 43.00 | 150.50 | ----- |
| BENLATE | LB. | 23.00 | 2.60 | 59.80 | ----- |
| CAPTAN | LB. | 3.60 | 4.60 | 16.56 | ----- |
| THIODAN | LB. | 8.33 | 1.20 | 10.00 | ----- |
| IIMIDAN | LB. | 2.56 | 1.10 | 2.82 | ----- |
| SEVIN | LB. | 2.35 | 2.30 | 5.40 | ----- |
| KARMEX | LB. | 2.15 | 1.00 | 2.15 | ----- |
| SINBAR | LB. | 19.84 | 1.00 | 19.84 | ----- |
| PARAQUAT | LB. | 18.30 | 0.50 | 9.15 | ----- |
| CONTAINERS | EA. | 0.60 | 75.00 | 45.00 | ----- |
| LORSBAN 4E | LB. | 6.90 | 1.00 | 6.90 | ----- |
| MACHINERY | ACRE | 1.00 | 1.00 | 1.00 | ----- |
| TRACTORS | ACRE | 14.24 | 1.00 | 14.24 | ----- |
| LABOR (MACH & TRACT) | HOURLY | 3.56 | 4.55 | 16.18 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 101.73 | 14.24 | 7.50 @ 7 3/8% |
| SUBTOTAL, PRE-HARVEST | | | | 427.83 | 421.09 |
| HARVEST COSTS | | | | | |
| HOURLY LABOR | HR. | 3.50 | 15.00 | 52.50 | ----- |
| SUBTOTAL, HARVEST | | | | 52.50 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 473.59 | | 47.36 |
| TOTAL VARIABLE COST | | | | 480.33 | 520.95 |
| INCOME ABOVE VARIABLE COSTS | | | | 2159.67 | 2119.05 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 8.69 | 1.00 | 8.69 | ----- |
| TRACTORS | ACRE | 12.32 | 1.00 | 12.32 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 16.67 | 1.00 | 16.67 | ----- |
| TOTAL FIXED COSTS | | | | 37.68 | ----- |
| TOTAL COSTS | | | | 518.01 | 558.63 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | 2121.99 | 2081.37 |

TABLE 11. ESTIMATED COSTS AND RETURNS PER ACRE FOR ROW EQUIPMENT
 FOR ESTABLISHING PEACHES, NONIRRIGATED
 NORTHWEST ARKANSAS, 1981

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|-----------------------------------|------|-----------------------|----------|------------------|------------------|
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| TOTAL | | | | 0.0 | |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| LAND PREP CUS | ACRE | 50.00 | 1.00 | 50.00 | |
| LIME APPLIED | TON | 18.00 | 1.00 | 18.00 | |
| SURFLAN | LB. | 3.00 | 3.00 | 9.00 | |
| PEACH TREES | EA. | 1.25 | 110.00 | 137.50 | |
| RABBIT GUARD | EA. | 0.25 | 110.00 | 27.50 | |
| HOURLY LABOR | HR. | 3.50 | 20.00 | 70.00 | |
| BENLATE | LB. | 23.00 | 0.50 | 11.50 | |
| SEVIN | LB. | 2.35 | 2.00 | 4.70 | |
| AMMONIUM NITRATE | CWT | 7.50 | 0.55 | 4.12 | |
| IIMIDAN | LB. | 2.56 | 0.50 | 1.28 | |
| MACHINERY | ACRE | 0.96 | 1.00 | 0.96 | |
| TRACTORS | ACRE | 17.57 | 1.00 | 17.57 | |
| IRRIGATION MACHINERY | ACRE | 0.77 | 1.00 | 0.77 | |
| LABOR(MACH & TRACT) | HOUR | 3.56 | 5.61 | 19.96 | |
| LABOR(IRRIGATION) | HOUR | 3.83 | 0.43 | 1.65 | |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 261.42 | 36.60 | 19.28 @ 7 3/8% |
| SUBTOTAL, PRE-HARVEST | | | | 411.12 | 393.80 |
| HARVEST COSTS | | | | | |
| SUBTOTAL, HARVEST | | | | 0.0 | |
| MANAGEMENT CHARGE | DOL. | 0.10 | 393.80 | | 39.38 |
| TOTAL VARIABLE COST | | | | 411.12 | 433.18 |
| INCOME ABOVE VARIABLE COSTS | | | | -411.12 | -433.18 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 5.32 | 1.00 | 5.32 | |
| TRACTORS | ACRE | 15.20 | 1.00 | 15.20 | |
| IRRIGATION MACHINERY | ACRE | 123.53 | 1.00 | 123.53 | |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | |
| OVERHEAD LABOR | ACRE | 22.27 | 1.00 | 22.27 | |
| TOTAL FIXED COSTS | | | | 166.32 | |
| TOTAL COSTS | | | | 577.43 | 599.50 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | -577.43 | -599.50 |

TABLE 22. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
 FOR ESTABLISHING PEACHES, 2ND YEAR, IRRIGATED
 NORTHWEST ARKANSAS, 1981

| | | PRICE OR | QUANTITY | VALUE | YOUR |
|-----------------------------------|------|----------------|----------|---------|----------|
| | | UNIT COST/UNIT | | OR COST | ESTIMATE |
| ----- | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| | | | | ----- | |
| TOTAL | | | | 0.0 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| FERBAM | LB. | 11.44 | 0.50 | 5.72 | ----- |
| DORMANT OIL | GAL. | 8.93 | 1.10 | 9.82 | ----- |
| AMMONIUM NITRATE | CWT | 7.50 | 1.10 | 8.25 | ----- |
| PEACH TREES | EA. | 1.25 | 5.00 | 6.25 | ----- |
| SURFLAN | LB. | 3.00 | 3.00 | 9.00 | ----- |
| BENLATE | LB. | 23.00 | 0.50 | 11.50 | ----- |
| THIODAN | LB. | 8.33 | 1.00 | 8.33 | ----- |
| HOURLY LABOR | HR. | 3.50 | 18.00 | 63.00 | ----- |
| MACHINERY | ACRE | 0.64 | 1.00 | 0.64 | ----- |
| TRACTORS | ACRE | 10.13 | 1.00 | 10.13 | ----- |
| IRRIGATION MACHINERY | ACRE | 0.76 | 1.00 | 0.76 | ----- |
| LABOR (MACH & TRACT) | HOUR | 3.56 | 3.23 | 11.51 | ----- |
| LABOR (IRRIGATION) | HOUR | 3.83 | 0.65 | 2.48 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 93.24 | 13.05 | ----- |
| | | | | ----- | |
| SUBTOTAL, PRE-HARVEST | | | | 160.45 | 154.28 |
| HARVEST COSTS | | | | | |
| | | | | ----- | |
| SUBTOTAL, HARVEST | | | | 0.0 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 154.28 | | 15.43 |
| TOTAL VARIABLE COST | | | | 160.45 | 169.71 |
| INCOME ABOVE VARIABLE COSTS | | | | -160.45 | -169.71 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 4.27 | 1.00 | 4.27 | ----- |
| TRACTORS | ACRE | 8.77 | 1.00 | 8.77 | ----- |
| IRRIGATION MACHINERY | ACRE | 123.64 | 1.00 | 123.64 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 14.41 | 1.00 | 14.41 | ----- |
| TOTAL FIXED COSTS | | | | 151.09 | ----- |
| TOTAL COSTS | | | | 311.54 | 320.80 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | -311.54 | -320.80 |
| ===== | | | | | |

TABLE 23. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
 FOR ESTABLISHING PEACHES, 3RD YEAR, IRRIGATED
 NORTHWEST ARKANSAS, 1981

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|-----------------------------------|------|-----------------------|----------|------------------|------------------|
| ===== | | | | | |
| ----- | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| PEACHES | BU. | 8.00 | 55.00 | 440.00 | ----- |
| | | | | ----- | |
| TOTAL | | | | 440.00 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| FERBAM | LB. | 11.44 | 1.00 | 11.44 | ----- |
| DORMANT OIL | GAL. | 8.93 | 3.00 | 26.79 | ----- |
| AMMONIUM NITRATE | CWT | 7.50 | 2.20 | 16.50 | ----- |
| HOURLY LABOR | HR. | 3.50 | 21.00 | 73.50 | ----- |
| BENLATE | LB. | 23.00 | 2.00 | 46.00 | ----- |
| CAPTAN | LB. | 3.60 | 4.00 | 14.40 | ----- |
| THIODAN | LB. | 8.33 | 1.00 | 8.33 | ----- |
| IIMIDAN | LB. | 2.56 | 0.75 | 1.92 | ----- |
| SEVIN | LB. | 2.35 | 2.00 | 4.70 | ----- |
| SINBAR | LB. | 19.84 | 1.00 | 19.84 | ----- |
| KARMEX | LB. | 2.15 | 1.00 | 2.15 | ----- |
| PARAQUAT | LB. | 18.30 | 0.50 | 9.15 | ----- |
| CONTAINERS | EA. | 0.60 | 20.00 | 12.00 | ----- |
| MACHINERY | ACRE | 0.88 | 1.00 | 0.88 | ----- |
| TRACTORS | ACRE | 13.37 | 1.00 | 13.37 | ----- |
| IRRIGATION MACHINERY | ACRE | 0.76 | 1.00 | 0.76 | ----- |
| LABOR(MACH & TRACT) | HOUR | 3.56 | 4.27 | 15.20 | ----- |
| LABOR(IRRIGATION) | HOUR | 3.83 | 1.24 | 4.76 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 74.85 | 10.48 | 5.52 @ 7 3/8% |
| | | | | ----- | |
| SUBTOTAL, PRE-HARVEST | | | | 292.17 | 287.21 |
| HARVEST COSTS | | | | | |
| HOURLY LABOR | HR. | 3.50 | 5.00 | 17.50 | ----- |
| | | | | ----- | |
| SUBTOTAL, HARVEST | | | | 17.50 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 304.71 | | 30.47 |
| TOTAL VARIABLE COST | | | | 309.67 | 335.18 |
| INCOME ABOVE VARIABLE COSTS | | | | 130.33 | 104.82 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 8.56 | 1.00 | 8.56 | ----- |
| TRACTORS | ACRE | 11.57 | 1.00 | 11.57 | ----- |
| IRRIGATION MACHINERY | ACRE | 123.55 | 1.00 | 123.55 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 20.55 | 1.00 | 20.55 | ----- |
| | | | | ----- | |
| TOTAL FIXED COSTS | | | | 164.24 | ----- |
| TOTAL COSTS | | | | 473.90 | 499.42 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | -33.90 | -59.42 |
| ===== | | | | | |

TABLE 24. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
FOR PEACHES IN THE FOURTH YEAR, IRRIGATED
NORTHWEST ARKANSAS, 1981

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|-----------------------------------|------|-----------------------|----------|------------------|------------------|
| ===== | | | | | |
| ----- | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| PEACHES | BU. | 8.00 | 110.00 | 880.00 | ----- |
| TOTAL | | | | 880.00 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| FERBAM | LB. | 11.44 | 1.50 | 17.16 | ----- |
| DORMANT OIL | GAL. | 8.93 | 3.50 | 31.25 | ----- |
| AMMONIUM NITRATE | CWT | 7.50 | 0.75 | 5.63 | ----- |
| HOURLY LABOR | HR. | 3.50 | 31.00 | 108.50 | ----- |
| BENLATE | LB. | 23.00 | 2.20 | 50.60 | ----- |
| CAPTAN | LB. | 3.60 | 4.20 | 15.12 | ----- |
| THIODAN | LB. | 8.33 | 1.00 | 8.33 | ----- |
| IIMIDAN | LB. | 2.56 | 0.90 | 2.30 | ----- |
| SEVIN | LB. | 2.35 | 2.10 | 4.93 | ----- |
| KARMEX | LB. | 2.15 | 1.00 | 2.15 | ----- |
| SINBAR | LB. | 19.84 | 1.00 | 19.84 | ----- |
| PARAQUAT | LB. | 18.30 | 0.50 | 9.15 | ----- |
| CONTAINERS | EA. | 0.60 | 20.00 | 12.00 | ----- |
| LORSBAN 4E | LB. | 6.90 | 1.00 | 6.90 | ----- |
| MACHINERY | ACRE | 1.00 | 1.00 | 1.00 | ----- |
| TRACTORS | ACRE | 14.24 | 1.00 | 14.24 | ----- |
| IRRIGATION MACHINERY | ACRE | 0.79 | 1.00 | 0.79 | ----- |
| LABOR(MACH & TRACT) | HOUR | 3.56 | 4.55 | 16.18 | ----- |
| LABOR(IRRIGATION) | HOUR | 3.83 | 1.77 | 6.78 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 92.89 | 13.00 | 6.85 @ 7 3/8% |
| SUBTOTAL, PRE-HARVEST | | | | 345.87 | 339.72 |
| HARVEST COSTS | | | | | |
| HOURLY LABOR | HR. | 3.50 | 10.00 | 35.00 | ----- |
| SUBTOTAL, HARVEST | | | | 35.00 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 374.72 | | 37.47 |
| TOTAL VARIABLE COST | | | | 380.87 | 412.19 |
| INCOME ABOVE VARIABLE COSTS | | | | 499.13 | 467.81 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 8.69 | 1.00 | 8.69 | ----- |
| TRACTORS | ACRE | 12.32 | 1.00 | 12.32 | ----- |
| IRRIGATION MACHINERY | ACRE | 124.01 | 1.00 | 124.01 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 23.66 | 1.00 | 23.66 | ----- |
| TOTAL FIXED COSTS | | | | 168.69 | ----- |
| TOTAL COSTS | | | | 549.56 | 580.88 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | 330.44 | 299.12 |
| ===== | | | | | |

TABLE 25. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
FOR PEACHES IN THE FIFTH YEAR, IRRIGATED
NORTHWEST ARKANSAS, 1981

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|-----------------------------------|------|-----------------------|----------|------------------|------------------|
| ===== | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| PEACHES | BU. | 8.00 | 275.00 | 2200.00 | ----- |
| | | | | ----- | |
| TOTAL | | | | 2200.00 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| FERBAM | LB. | 11.44 | 1.50 | 17.16 | ----- |
| DORMANT OIL | GAL. | 8.93 | 3.50 | 31.25 | ----- |
| AMMONIUM NITRATE | CWT | 7.50 | 0.75 | 5.63 | ----- |
| HOURLY LABOR | HR. | 3.50 | 43.00 | 150.50 | ----- |
| BENLATE | LB. | 23.00 | 2.60 | 59.80 | ----- |
| CAPTAN | LB. | 3.60 | 4.60 | 16.56 | ----- |
| THIODAN | LB. | 8.33 | 1.20 | 10.00 | ----- |
| IIMIDAN | LB. | 2.56 | 1.10 | 2.82 | ----- |
| SEVIN | LB. | 2.35 | 2.30 | 5.40 | ----- |
| KARMEX | LB. | 2.15 | 1.00 | 2.15 | ----- |
| SINBAR | LB. | 19.84 | 1.00 | 19.84 | ----- |
| PARAQUAT | LB. | 18.30 | 0.50 | 9.15 | ----- |
| CONTAINERS | EA. | 0.60 | 20.00 | 12.00 | ----- |
| LORSBAN 4E | LB. | 6.90 | 1.00 | 6.90 | ----- |
| FERT 0 0 60 | CWT | 7.50 | 0.55 | 4.12 | ----- |
| MACHINERY | ACRE | 1.00 | 1.00 | 1.00 | ----- |
| TRACTORS | ACRE | 14.24 | 1.00 | 14.24 | ----- |
| IRRIGATION MACHINERY | ACRE | 0.80 | 1.00 | 0.80 | ----- |
| LABOR(MACH & TRACT) | HOUR | 3.56 | 4.55 | 16.18 | ----- |
| LABOR(IRRIGATION) | HOUR | 3.83 | 2.40 | 9.18 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 103.41 | 14.48 | 7.63 @ 7 3/8% |
| | | | | ----- | |
| SUBTOTAL, PRE-HARVEST | | | | 409.16 | 402.31 |
| HARVEST COSTS | | | | | |
| HOURLY LABOR | HR. | 3.50 | 10.00 | 35.00 | ----- |
| | | | | ----- | |
| SUBTOTAL, HARVEST | | | | 35.00 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 437.31 | | 43.73 |
| TOTAL VARIABLE COST | | | | 444.16 | 481.036 |
| INCOME ABOVE VARIABLE COSTS | | | | 1755.84 | 1718.96 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 8.69 | 1.00 | 8.69 | ----- |
| TRACTORS | ACRE | 12.32 | 1.00 | 12.32 | ----- |
| IRRIGATION MACHINERY | ACRE | 123.62 | 1.00 | 123.62 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 26.12 | 1.00 | 26.12 | ----- |
| | | | | ----- | |
| TOTAL FIXED COSTS | | | | 170.76 | ----- |
| TOTAL COSTS | | | | 614.92 | 651.80 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | 1585.08 | 1548.20 |
| ===== | | | | | |

TABLE 20. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
 FOR AMATURE PEACH ORCHARD, IRRIGATED
 NORTHWEST ARKANSAS, 1981

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|-----------------------------------|------|-----------------------|----------|------------------|------------------|
| ----- | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| PEACHES | BU. | 8.00 | 440.00 | 3520.00 | ----- |
| | | | | ----- | |
| TOTAL | | | | 3520.00 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| FERBAM | LB. | 11.44 | 1.50 | 17.16 | ----- |
| DORMANT OIL | GAL. | 8.93 | 3.50 | 31.25 | ----- |
| AMMONIUM NITRATE | CWT | 7.50 | 0.75 | 5.63 | ----- |
| HOURLY LABOR | HR. | 3.50 | 43.00 | 150.50 | ----- |
| BENLATE | LB. | 23.00 | 2.60 | 59.80 | ----- |
| CAPTAN | LB. | 3.60 | 4.60 | 16.56 | ----- |
| THIODAN | LB. | 8.33 | 1.20 | 10.00 | ----- |
| IIMIDAN | LB. | 2.56 | 1.10 | 2.82 | ----- |
| SEVIN | LB. | 2.35 | 2.30 | 5.40 | ----- |
| KARMEX | LB. | 2.15 | 1.00 | 2.15 | ----- |
| SINBAR | LB. | 19.84 | 1.00 | 19.84 | ----- |
| PARAQUAT | LB. | 18.30 | 0.50 | 9.15 | ----- |
| CONTAINERS | EA. | 0.60 | 110.00 | 66.00 | ----- |
| LORSBAN 4E | LB. | 6.90 | 1.00 | 6.90 | ----- |
| MACHINERY | ACRE | 1.00 | 1.00 | 1.00 | ----- |
| TRACTORS | ACRE | 14.24 | 1.00 | 14.24 | ----- |
| IRRIGATION MACHINERY | ACRE | 0.80 | 1.00 | 0.80 | ----- |
| LABOR(MACH & TRACT) | HOUR | 3.56 | 4.55 | 16.18 | ----- |
| LABOR(IRRIGATION) | HOUR | 3.83 | 2.40 | 9.18 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 102.03 | 14.28 | 7.52 @ 7 3/8% |
| | | | | ----- | |
| SUBTOTAL, PRE-HARVEST | | | | 458.84 | 452.08 |
| HARVEST COSTS | | | | | |
| HOURLY LABOR | HR. | 3.50 | 15.00 | 52.50 | ----- |
| | | | | ----- | |
| SUBTOTAL, HARVEST | | | | 52.50 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 504.58 | | 50.46 |
| | | | | | ----- |
| TOTAL VARIABLE COST | | | | 511.34 | 555.04 |
| INCOME ABOVE VARIABLE COSTS | | | | 3008.66 | 2964.96 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 8.69 | 1.00 | 8.69 | ----- |
| TRACTORS | ACRE | 12.32 | 1.00 | 12.32 | ----- |
| IRRIGATION MACHINERY | ACRE | 123.62 | 1.00 | 123.62 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 26.12 | 1.00 | 26.12 | ----- |
| | | | | ----- | |
| TOTAL FIXED COSTS | | | | 170.76 | ----- |
| TOTAL COSTS | | | | 682.10 | 725.80 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | 2837.90 | 2794.20 |
| ===== | | | | | |

TABLE 17. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
 GRAPES, COSTS OF ESTABLISHING A NONIRRIGATED
 VINEYARD, NORTHWEST ARKANSAS, 1981

| | | PRICE OR | | VALUE | YOUR |
|-----------------------------------|--------|-----------|----------|---------|----------------|
| | UNIT | COST/UNIT | QUANTITY | OR COST | ESTIMATE |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| TOTAL | | | | 0.0 | |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| LAND PREP CUS | ACRE | 50.00 | 1.00 | 50.00 | |
| FERT 10-20-10 | CWT | 8.50 | 5.00 | 42.50 | |
| HOURLY LABOR | HR. | 3.50 | 33.00 | 115.50 | |
| GRAPE PLANTS | EA. | 1.00 | 540.00 | 540.00 | |
| SEVIN | LB. | 2.35 | 2.00 | 4.70 | |
| PHALTEN | LB. | 11.00 | 1.00 | 11.00 | |
| SURFLAN | LB. | 3.00 | 4.00 | 12.00 | |
| MACHINERY | ACRE | 3.44 | 1.00 | 3.44 | |
| TRACTORS | ACRE | 26.72 | 1.00 | 26.72 | |
| LABOR (MACH & TRACT) | HOURLY | 3.56 | 8.53 | 30.36 | 43.69 @ 7 3/8% |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 592.34 | 82.93 | |
| SUBTOTAL, PRE-HARVEST | | | | 919.15 | 879.91 |
| HARVEST COSTS | | | | | |
| SUBTOTAL, HARVEST | | | | 0.0 | |
| MANAGEMENT CHARGE | DOL. | 0.10 | 879.91 | | 87.99 |
| TOTAL VARIABLE COST | | | | 919.15 | 967.90 |
| INCOME ABOVE VARIABLE COSTS | | | | -919.15 | -967.90 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 7.70 | 1.00 | 7.70 | |
| TRACTORS | ACRE | 23.12 | 1.00 | 23.12 | |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | |
| OVERHEAD LABOR | ACRE | 31.27 | 1.00 | 31.27 | |
| TOTAL FIXED COSTS | | | | 62.10 | |
| TOTAL COSTS | | | | 981.25 | 1030.00 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | -981.25 | -1030.00 |

TABLE 28. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
 GRAPES. COSTS OF ESTABLISHING A NONIRRIGATED
 VINEYARD. NORTHWEST ARKANSAS. 1981, 2ND YR.

| | | PRICE OR | VALUE | YOUR |
|-----------------------------------|------|----------------|------------------|----------|
| | | UNIT COST/UNIT | QUANTITY OR COST | ESTIMATE |
| ----- | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | |
| TOTAL | | | 0.0 | ----- |
| VARIABLE COSTS | | | | |
| PRE-HARVEST | | | | |
| POSTS | EA. | 3.75 | 165.00 | 618.75 |
| ANCHORS | EA. | 3.50 | 10.00 | 35.00 |
| WIRE | CWT | 45.00 | 7.00 | 315.00 |
| HOURLY LABOR | HR. | 3.50 | 65.00 | 227.50 |
| GRAPE PLANTS | EA. | 1.00 | 27.00 | 27.00 |
| FERT 13-13-13 | CWT | 8.25 | 4.50 | 37.13 |
| PAPAQUAT | LB. | 18.30 | 0.50 | 9.15 |
| SURFACTANT | QT. | 1.12 | 0.50 | 0.56 |
| SURFLAN | LB. | 3.00 | 4.00 | 12.00 |
| PHALTEN | LB. | 11.00 | 1.00 | 11.00 |
| SEVIN | LB. | 2.35 | 2.00 | 4.70 |
| POSTS-6 IN | EA. | 5.50 | 10.00 | 55.00 |
| DIAZINON GRAN | LB. | 30.00 | 1.00 | 30.00 |
| FERBAM | LB. | 11.44 | 2.00 | 22.88 |
| MACHINERY | ACRE | 1.47 | 1.00 | 1.47 |
| TRACTORS | ACRE | 25.29 | 1.00 | 25.29 |
| LABOR (MACH & TRACT) | HOUR | 3.56 | 8.07 | 28.73 |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 1143.75 | 160.13 |
| SUBTOTAL. PRE-HARVEST | | | 1621.28 | 1545.50 |
| HARVEST COSTS | | | | |
| SUBTOTAL. HARVEST | | | 0.0 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 1545.50 | 154.55 |
| TOTAL VARIABLE COST | | | 1621.28 | 1700.05 |
| INCOME ABOVE VARIABLE COSTS | | | -1621.28 | -1700.05 |
| FIXED COSTS | | | | |
| PRE-HARVEST | | | | |
| MACHINERY | ACRE | 10.79 | 1.00 | 10.79 |
| TRACTORS | ACRE | 21.88 | 1.00 | 21.88 |
| HARVEST | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 |
| OVERHEAD LABOR | ACRE | 29.59 | 1.00 | 29.59 |
| TOTAL FIXED COSTS | | | 62.26 | ----- |
| TOTAL COSTS | | | 1683.54 | 1762.31 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | -1683.54 | -1762.31 |
| ===== | | | | |

TABLE 29. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
 GRAPES. COSTS FOR 3RD YEAR IN A NONIRRIGATED
 VINEYARD, NORTHWEST ARKANSAS, 1981

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|-----------------------------------|------|-----------------------|----------|------------------|------------------|
| ===== | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| GRAPES | TON | 220.00 | 2.00 | 440.00 | ----- |
| | | | | ----- | |
| TOTAL | | | | 440.00 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| PRUNE CUSTOM | ACRE | 35.00 | 1.00 | 35.00 | ----- |
| DORMANT OIL | GAL. | 8.93 | 2.00 | 17.86 | ----- |
| SEVIN | LB. | 2.35 | 4.00 | 9.40 | ----- |
| METHOXYCHLOR | LB. | 2.85 | 1.50 | 4.27 | ----- |
| FERT 13-13-13 | CWT | 8.25 | 4.00 | 33.00 | ----- |
| FERBAM | LB. | 11.44 | 12.50 | 143.00 | ----- |
| PHALTEN | LB. | 11.00 | 5.50 | 60.50 | ----- |
| GUTHION | LB. | 7.45 | 1.34 | 9.98 | ----- |
| KARMEX | LB. | 2.15 | 0.44 | 0.95 | ----- |
| PARAQUAT | LB. | 18.30 | 0.50 | 9.15 | ----- |
| SURFACTANT | QT. | 1.12 | 0.50 | 0.56 | ----- |
| HOURLY LABOR | HR. | 3.50 | 14.00 | 49.00 | ----- |
| MACHINERY | ACRE | 1.09 | 1.00 | 1.09 | ----- |
| TRACTORS | ACRE | 20.37 | 1.00 | 20.37 | ----- |
| LABOR (MACH & TRACT) | HR. | 3.56 | 6.50 | 23.15 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 131.95 | 18.47 | ----- |
| | | | | ----- | 9.73 @ 7 3/8% |
| SUBTOTAL, PRE-HARVEST | | | | 435.75 | 427.011 |
| HARVEST COSTS | | | | | |
| CUST HARV GRAPES | TN. | 35.00 | 2.00 | 70.00 | ----- |
| | | | | ----- | |
| SUBTOTAL, HARVEST | | | | 70.00 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 497.01 | | 49.70 |
| TOTAL VARIABLE COST | | | | 505.75 | 546.71 |
| INCOME ABOVE VARIABLE COSTS | | | | -65.75 | -106.71 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 14.05 | 1.00 | 14.05 | ----- |
| TRACTORS | ACRE | 17.63 | 1.00 | 17.63 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 23.84 | 1.00 | 23.84 | ----- |
| TOTAL FIXED COSTS | | | | 55.52 | ----- |
| TOTAL COSTS | | | | 561.28 | 602.23 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | -121.28 | -162.23 |
| ===== | | | | | |

TABLE 30. ESTIMATED COSTS AND RETURNS PER ACRE. 4 ROW EQUIPMENT,
 GRAPES, COSTS FOR 4TH YEAR IN A NONIRRIGATED
 VINEYARD, NORTHWEST ARKANSAS, 1981

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|-----------------------------------|------|-----------------------|----------|------------------|------------------|
| ----- | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| GRAPES | TON | 220.00 | 4.00 | 880.00 | ----- |
| | | | | ----- | |
| TOTAL | | | | 880.00 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| PRUNE CUSTOM | ACRE | 35.00 | 1.00 | 35.00 | ----- |
| DORMANT OIL | GAL. | 8.93 | 2.00 | 17.86 | ----- |
| SEVIN | LB. | 2.35 | 4.00 | 9.40 | ----- |
| METHOXYCHLOR | LB. | 2.85 | 1.50 | 4.27 | ----- |
| FERT 13-13-13 | CWT | 8.25 | 4.00 | 33.00 | ----- |
| FERBAM | LB. | 11.44 | 12.20 | 139.57 | ----- |
| PHALTEN | LB. | 11.00 | 4.50 | 49.50 | ----- |
| DIAZINON | LB. | 9.75 | 1.34 | 13.06 | ----- |
| KARMEX | LB. | 2.15 | 0.22 | 0.47 | ----- |
| PARAQUAT | LB. | 18.30 | 0.50 | 9.15 | ----- |
| SURFACTANT | QT. | 1.12 | 0.50 | 0.56 | ----- |
| HOURLY LABOR | HR. | 3.50 | 14.00 | 49.00 | ----- |
| MACHINERY | ACRE | 1.08 | 1.00 | 1.08 | ----- |
| TRACTORS | ACRE | 18.06 | 1.00 | 18.06 | ----- |
| LABOR (MACH & TRACT) | HOUR | 3.56 | 5.76 | 20.51 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 129.22 | 18.09 | 9.53 @ 7 3/8% |
| | | | | ----- | |
| SUBTOTAL, PRE-HARVEST | | | | 418.59 | 410.03 |
| HARVEST COSTS | | | | | |
| CUST HARV GRAPES | TN. | 35.00 | 4.00 | 140.00 | ----- |
| | | | | ----- | |
| SUBTOTAL, HARVEST | | | | 140.00 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 550.03 | | 55.00 |
| | | | | | ----- |
| TOTAL VARIABLE COST | | | | 558.59 | 605.03 |
| INCOME ABOVE VARIABLE COSTS | | | | 321.41 | 274.97 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 13.03 | 1.00 | 13.03 | ----- |
| TRACTORS | ACRE | 15.62 | 1.00 | 15.62 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 21.13 | 1.00 | 21.13 | ----- |
| | | | | ----- | |
| TOTAL FIXED COSTS | | | | 49.78 | ----- |
| TOTAL COSTS | | | | 608.37 | 654.81 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | 271.63 | 225.19 |
| ===== | | | | | |

TABLE 31. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
FOR GRAPES, ESTIMATES FOR A NONIRRIGATED MATURE
VINEYARD, NORTHWEST ARKANSAS, 1981

| | | PRICE OR | | VALUE | YOUR |
|-----------------------------------|------|-----------|----------|---------|---------------|
| | UNIT | COST/UNIT | QUANTITY | OR COST | ESTIMATE |
| ===== | | | | | |
| ----- | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| GRAPES | TON | 220.00 | 5.00 | 1100.00 | ----- |
| | | | | ----- | |
| TOTAL | | | | 1100.00 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| PRUNE CUSTOM | ACRE | 35.00 | 1.00 | 35.00 | ----- |
| DORMANT OIL | GAL. | 8.93 | 2.00 | 17.86 | ----- |
| SEVIN | LB. | 2.35 | 4.00 | 9.40 | ----- |
| METHOXYCHLOR | LB. | 2.85 | 1.50 | 4.27 | ----- |
| FERT 13-13-13 | CWT | 8.25 | 4.00 | 33.00 | ----- |
| FERBAM | LB. | 11.44 | 12.00 | 137.28 | ----- |
| PHALTEN | LB. | 0.0 | 5.50 | 0.0 | ----- |
| DIAZINON | LB. | 9.75 | 1.34 | 13.06 | ----- |
| KARMEX | LB. | 2.15 | 0.22 | 0.47 | ----- |
| PARAQUAT | LB. | 18.30 | 0.50 | 9.15 | ----- |
| SURFACTANT | QT. | 1.12 | 0.50 | 0.56 | ----- |
| HOURLY LABOR | HR. | 3.50 | 17.00 | 59.50 | ----- |
| MACHINERY | ACRE | 1.08 | 1.00 | 1.08 | ----- |
| TRACTORS | ACRE | 18.06 | 1.00 | 18.06 | ----- |
| LABOR (MACH & TRACT) | HR. | 3.56 | 5.76 | 20.51 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 124.73 | 17.46 | 9.20 @ 7 3/8% |
| | | | | ----- | |
| SUBTOTAL, PRE-HARVEST | | | | 376.67 | 368.41 |
| HARVEST COSTS | | | | | |
| CUST HARV GRAPES | TN. | 35.00 | 5.00 | 175.00 | ----- |
| | | | | ----- | |
| SUBTOTAL, HARVEST | | | | 175.00 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 543.41 | | 54.34 |
| TOTAL VARIABLE COST | | | | 551.67 | 597.75 |
| INCOME ABOVE VARIABLE COSTS | | | | 548.33 | 502.25 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 13.03 | 1.00 | 13.03 | ----- |
| TRACTORS | ACRE | 15.62 | 1.00 | 15.62 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 21.13 | 1.00 | 21.13 | ----- |
| | | | | ----- | |
| TOTAL FIXED COSTS | | | | 49.78 | ----- |
| TOTAL COSTS | | | | 601.46 | 647.53 |
| NFT RETURNS ABOVE SPECIFIED COSTS | | | | 498.54 | 452.47 |
| ===== | | | | | |

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TABLE 32. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
FOR ESTABLISHING AN IRRIGATED CONCORD
GRAPE VINEYARD, NORTHWEST ARKANSAS, 1981

| | | PRICE OR | QUANTITY | VALUE | YOUR |
|-----------------------------------|------|----------------|----------|----------|----------------|
| | | UNIT COST/UNIT | | OR COST | ESTIMATE |
| ----- | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| TOTAL | | | | 0.0 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| LAND PREP CUS | ACRE | 50.00 | 1.00 | 50.00 | ----- |
| FERT 10-20-10 | CWT | 8.50 | 5.00 | 42.50 | ----- |
| HOURLY LABOR | HR. | 3.50 | 37.00 | 129.50 | ----- |
| GRAPE PLANTS | EA. | 1.00 | 540.00 | 540.00 | ----- |
| SEVIN | LB. | 2.35 | 2.00 | 4.70 | ----- |
| PHALTEN | LB. | 11.00 | 1.00 | 11.00 | ----- |
| SURFLAN | LB. | 3.00 | 4.00 | 12.00 | ----- |
| MACHINERY | ACRE | 3.44 | 1.00 | 3.44 | ----- |
| TRACTORS | ACRE | 26.72 | 1.00 | 26.72 | ----- |
| LABOR(MACH & TRACT) | HOUR | 3.56 | 8.53 | 30.36 | ----- |
| LABOR(IRRIGATION) | HOUR | 3.83 | 3.42 | 13.10 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 599.93 | 83.99 | 44.24 @ 7 3/8% |
| SUBTOTAL, PRE-HARVEST | | | | 947.31 | 907.56 |
| HARVEST COSTS | | | | | |
| SUBTOTAL, HARVEST | | | | 0.0 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 907.56 | | 90.76 |
| TOTAL VARIABLE COST | | | | 947.31 | 998.32 |
| INCOME ABOVE VARIABLE COSTS | | | | -947.31 | -998.32 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 7.70 | 1.00 | 7.70 | ----- |
| TRACTORS | ACRE | 23.12 | 1.00 | 23.12 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 44.77 | 1.00 | 44.77 | ----- |
| TOTAL FIXED COSTS | | | | 75.59 | ----- |
| TOTAL COSTS | | | | 1022.90 | 1073.91 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | -1022.90 | -1073.91 |
| ===== | | | | | |

TABLE 33. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
FOR ESTABLISHING AN IRRIGATED CONCORD GRAPE
VINEYARD, NORTHWEST ARKANSAS, 1981, 2ND YR.

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|-----------------------------------|------|-----------------------|----------|------------------|------------------|
| ----- | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| TOTAL | | | | 0.0 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| POSTS | EA. | 3.75 | 170.00 | 637.50 | ----- |
| ANCHORS | EA. | 3.50 | 10.00 | 35.00 | ----- |
| WIRE | CWT | 45.00 | 7.00 | 315.00 | ----- |
| HOURLY LABOR | HR. | 3.50 | 68.00 | 238.00 | ----- |
| GRAPE PLANTS | EA. | 1.00 | 27.00 | 27.00 | ----- |
| FERT 13-13-13 | CWT | 8.25 | 4.50 | 37.13 | ----- |
| PARAQUAT | LB. | 18.30 | 1.00 | 18.30 | ----- |
| SURFACTANT | QT. | 1.12 | 1.00 | 1.12 | ----- |
| SURFLAN | LB. | 3.00 | 4.00 | 12.00 | ----- |
| PHALTEN | LB. | 11.00 | 1.00 | 11.00 | ----- |
| SEVIN | LB. | 2.35 | 2.00 | 4.70 | ----- |
| POSTS-6 IN | EA. | 5.50 | 10.00 | 55.00 | ----- |
| DIAZINON GRAN | LB. | 30.00 | 1.00 | 30.00 | ----- |
| FEBAM | LB. | 11.44 | 2.00 | 22.88 | ----- |
| MACHINERY | ACRE | 1.53 | 1.00 | 1.53 | ----- |
| TRACTORS | ACRE | 28.06 | 1.00 | 28.06 | ----- |
| IRRIGATION MACHINERY | ACRE | 0.76 | 1.00 | 0.76 | ----- |
| LABOR(MACH & TRACT) | HOUR | 3.56 | 8.96 | 31.88 | ----- |
| LABOR(IRRIGATION) | HOUR | 3.83 | 3.42 | 13.10 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 1173.98 | 164.36 | 86.58 @ 7 3/8% |
| | | | | ----- | ----- |
| SUBTOTAL, PRE-HARVEST | | | | 1684.32 | 1606.54 |
| HARVEST COSTS | | | | | |
| | | | | ----- | ----- |
| SUBTOTAL, HARVEST | | | | 0.0 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 1606.54 | | 160.65 |
| TOTAL VARIABLE COST | | | | 1684.32 | 1767.19 |
| INCOME ABOVE VARIABLE COSTS | | | | -1684.32 | -1767.19 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 11.91 | 1.00 | 11.91 | ----- |
| TRACTORS | ACRE | 24.28 | 1.00 | 24.28 | ----- |
| IRRIGATION MACHINERY | ACRE | 123.52 | 1.00 | 123.52 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 46.33 | 1.00 | 46.33 | ----- |
| | | | | ----- | ----- |
| TOTAL FIXED COSTS | | | | 206.04 | ----- |
| TOTAL COSTS | | | | 1890.36 | 1973.23 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | -1890.36 | -1973.23 |
| ===== | | | | | |

TABLE 34. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
FOR THE 3RD YEAR IN AN IRRIGATED CONCORD GRAPE
VINEYARD, NORTHWEST ARKANSAS, 1981

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|-----------------------------------|------|-----------------------|----------|------------------|------------------|
| ===== | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| GRAPES | TON | 220.00 | 3.00 | 660.00 | ----- |
| | | | | ----- | |
| TOTAL | | | | 660.00 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| PRUNE CUSTOM | ACRE | 35.00 | 1.00 | 35.00 | ----- |
| DORMANT OIL | GAL. | 8.93 | 2.00 | 17.86 | ----- |
| SEVIN | LB. | 2.35 | 4.20 | 9.87 | ----- |
| METHOXYCHLOR | LB. | 2.85 | 1.50 | 4.27 | ----- |
| FERT 13-13-13 | CWT | 8.25 | 4.00 | 33.00 | ----- |
| FERBAM | LB. | 11.44 | 12.50 | 143.00 | ----- |
| PHALTEN | LB. | 11.00 | 5.50 | 60.50 | ----- |
| GUTHION | LB. | 7.45 | 1.40 | 10.43 | ----- |
| KARMEX | LB. | 2.15 | 0.44 | 0.95 | ----- |
| PARAQUAT | LB. | 18.30 | 1.50 | 27.45 | ----- |
| SURFACTANT | QT. | 1.12 | 1.50 | 1.68 | ----- |
| HOURLY LABOR | HR. | 3.50 | 20.00 | 70.00 | ----- |
| MACHINERY | ACRE | 1.15 | 1.00 | 1.15 | ----- |
| TRACTORS | ACRE | 23.15 | 1.00 | 23.15 | ----- |
| IRRIGATION MACHINERY | ACRE | 0.76 | 1.00 | 0.76 | ----- |
| LABOR(MACH & TRACT) | HOUR | 3.56 | 7.39 | 26.30 | ----- |
| LABOR(IRRIGATION) | HOUR | 3.83 | 3.42 | 13.10 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 147.21 | 20.61 | 10.86 @ 7 3/8% |
| | | | | ----- | |
| SUBTOTAL, PRE-HARVEST | | | | 499.07 | 489.32 |
| HARVEST COSTS | | | | | |
| CUST HARV GRAPES | TN. | 35.00 | 3.00 | 105.00 | ----- |
| | | | | ----- | |
| SUBTOTAL, HARVEST | | | | 105.00 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 594.32 | | 59.43 |
| TOTAL VARIABLE COST | | | | 604.07 | 653.75 |
| INCOME ABOVE VARIABLE COSTS | | | | 55.93 | 6.25 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 15.18 | 1.00 | 15.18 | ----- |
| TRACTORS | ACRE | 20.03 | 1.00 | 20.03 | ----- |
| IRRIGATION MACHINERY | ACRE | 123.52 | 1.00 | 123.52 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 40.58 | 1.00 | 40.58 | ----- |
| | | | | ----- | |
| TOTAL FIXED COSTS | | | | 199.31 | ----- |
| TOTAL COSTS | | | | 803.38 | 853.06 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | -143.38 | -193.06 |
| ===== | | | | | |

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TABLE 35. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
FOR THE 4TH YEAR IN AN IRRIGATED CONCORD GRAPE
VINEYARD, NORTHWEST ARKANSAS, 1981

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|-----------------------------------|------|-----------------------|----------|------------------|------------------|
| ===== | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| GRAPES | TON | 220.00 | 6.00 | 1320.00 | ----- |
| | | | | ----- | |
| TOTAL | | | | 1320.00 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| PRUNE CUSTOM | ACRE | 35.00 | 1.00 | 35.00 | ----- |
| DORMANT OIL | GAL. | 8.93 | 2.00 | 17.86 | ----- |
| SEVIN | LB. | 2.35 | 4.20 | 9.87 | ----- |
| METHOXYCHLOR | LB. | 2.85 | 1.60 | 4.56 | ----- |
| FERT 13-13-13 | CWT | 8.25 | 4.00 | 33.00 | ----- |
| FERBAM | LB. | 11.44 | 12.50 | 143.00 | ----- |
| PHALTEN | LB. | 11.00 | 5.50 | 60.50 | ----- |
| GUTHION | LB. | 7.45 | 1.40 | 10.43 | ----- |
| KARMEX | LB. | 2.15 | 0.44 | 0.95 | ----- |
| PARAQUAT | LB. | 18.30 | 1.50 | 27.45 | ----- |
| SURFACTANT | QT. | 1.12 | 1.50 | 1.68 | ----- |
| HOURLY LABOR | HR. | 3.50 | 20.00 | 70.00 | ----- |
| MACHINERY | ACRE | 1.15 | 1.00 | 1.15 | ----- |
| TRACTORS | ACRE | 23.15 | 1.00 | 23.15 | ----- |
| IRRIGATION MACHINERY | ACRE | 0.76 | 1.00 | 0.76 | ----- |
| LABOR(MACH & TRACT) | HOUR | 3.56 | 7.39 | 26.30 | ----- |
| LABOR(IRRIGATION) | HOUR | 3.83 | 3.42 | 13.10 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 151.12 | 21.16 | 11.15 @ 7 3/8% |
| | | | | ----- | |
| SUBTOTAL, PRE-HARVEST | | | | 499.91 | 489.90 |
| HARVEST COSTS | | | | | |
| CUST HARV GRAPES | TN. | 35.00 | 6.00 | 210.00 | ----- |
| | | | | ----- | |
| SUBTOTAL, HARVEST | | | | 210.00 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 699.90 | | 69.99 |
| TOTAL VARIABLE COST | | | | 709.91 | 769.89 |
| INCOME ABOVE VARIABLE COSTS | | | | 610.09 | 550.12 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 15.18 | 1.00 | 15.18 | ----- |
| TRACTORS | ACRE | 20.03 | 1.00 | 20.03 | ----- |
| IRRIGATION MACHINERY | ACRE | 123.52 | 1.00 | 123.52 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 40.58 | 1.00 | 40.58 | ----- |
| | | | | ----- | |
| TOTAL FIXED COSTS | | | | 199.31 | ----- |
| TOTAL COSTS | | | | 909.21 | 969.20 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | 410.79 | 350.81 |
| ===== | | | | | |

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TABLE 36. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
FOR A MATURE IRRIGATED CONCORD GRAPE
VINEYARD, NORTHWEST ARKANSAS, 1981

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|-----------------------------------|------|-----------------------|----------|------------------|------------------|
| ===== | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| GRAPES | TON | 220.00 | 8.00 | 1760.00 | ----- |
| TOTAL | | | | 1760.00 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| PRUNE CUSTOM | ACRE | 35.00 | 1.00 | 35.00 | ----- |
| DORMANT OIL | GAL. | 8.93 | 2.00 | 17.86 | ----- |
| SEVIN | LB. | 2.35 | 4.20 | 9.87 | ----- |
| METHOXYCHLOR | LB. | 2.85 | 1.65 | 4.70 | ----- |
| FERT 13-13-13 | CWT | 8.25 | 4.00 | 33.00 | ----- |
| FERBAM | LB. | 11.44 | 12.50 | 143.00 | ----- |
| PHALTEN | LB. | 11.00 | 6.00 | 66.00 | ----- |
| GUTHION | LB. | 7.45 | 1.70 | 12.66 | ----- |
| KARMEX | LB. | 2.15 | 0.44 | 0.95 | ----- |
| PARAQUAT | LB. | 18.30 | 1.50 | 27.45 | ----- |
| SURFACTANT | QT. | 1.12 | 1.50 | 1.68 | ----- |
| HOURLY LABOR | HR. | 3.50 | 22.00 | 77.00 | ----- |
| MACHINERY | ACRE | 1.15 | 1.00 | 1.15 | ----- |
| TRACTORS | ACRE | 23.15 | 1.00 | 23.15 | ----- |
| IRRIGATION MACHINERY | ACRE | 0.76 | 1.00 | 0.76 | ----- |
| LABOR(MACH & TRACT) | HR. | 3.56 | 7.39 | 26.30 | ----- |
| LABOR(IRRIGATION) | HR. | 3.83 | 3.42 | 13.10 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 152.21 | 21.31 | 11.23 @ 7 3/8% |
| SUBTOTAL, PRE-HARVEST | | | | 514.94 | 504.86 |
| HARVEST COSTS | | | | | |
| CUST HARV GRAPES | TN. | 35.00 | 8.00 | 280.00 | ----- |
| SUBTOTAL, HARVEST | | | | 280.00 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 784.86 | | 78.49 |
| TOTAL VARIABLE COST | | | | 794.94 | 863.35 |
| INCOME ABOVE VARIABLE COSTS | | | | 965.06 | 896.66 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 15.18 | 1.00 | 15.18 | ----- |
| TRACTORS | ACRE | 20.03 | 1.00 | 20.03 | ----- |
| IRRIGATION MACHINERY | ACRE | 123.52 | 1.00 | 123.52 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 40.58 | 1.00 | 40.58 | ----- |
| TOTAL FIXED COSTS | | | | 199.31 | ----- |
| TOTAL COSTS | | | | 994.24 | 1062.66 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | 765.76 | 697.35 |
| ===== | | | | | |

TABLE 37. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
BLUEBERRIES, COST OF ESTABLISHING, 1ST YR,
NORTHWEST ARKANSAS, 1981

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|-----------------------------------|------|-----------------------|----------|------------------|------------------|
| ===== | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| TOTAL | | | | 0.0 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| LAND PREP CUS | ACRE | 50.00 | 1.00 | 50.00 | ----- |
| PRINCEP | LB. | 4.93 | 0.80 | 3.94 | ----- |
| SULPHUR(FERT) | CWT. | 16.00 | 4.35 | 69.60 | ----- |
| BLUEBERRY PLNT. | EA. | 1.50 | 1080.00 | 1620.00 | ----- |
| PEAT MOSS | BALE | 7.50 | 20.00 | 150.00 | ----- |
| MULCH | CUYD | 2.10 | 268.00 | 562.80 | ----- |
| FERT 10-20-10 | CWT | 8.50 | 1.00 | 8.50 | ----- |
| HOURLY LABOR | HR. | 3.50 | 71.00 | 248.50 | ----- |
| PARAGUAT | LB. | 18.30 | 1.00 | 18.30 | ----- |
| UREA | CWT. | 11.00 | 0.50 | 5.50 | ----- |
| MACHINERY | ACRE | 1.21 | 1.00 | 1.21 | ----- |
| TRACTORS | ACRE | 13.58 | 1.00 | 13.58 | ----- |
| IRRIGATION MACHINERY | ACRE | 0.84 | 1.00 | 0.84 | ----- |
| LABOR(MACH & TRACT) | HOUR | 3.56 | 4.33 | 15.43 | ----- |
| LABOR(IRRIGATION) | HOUR | 3.83 | 3.78 | 14.48 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 2061.29 | 288.58 | 152.02 @ 7 3/8% |
| | | | | ----- | ----- |
| SUBTOTAL, PRE-HARVEST | | | | 3071.25 | 2934.69 |
| HARVEST COSTS | | | | | |
| | | | | ----- | ----- |
| SUBTOTAL, HARVEST | | | | 0.0 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 2934.69 | | 293.47 |
| TOTAL VARIABLE COST | | | | 3071.25 | 3228.16 |
| INCOME ABOVE VARIABLE COSTS | | | | -3071.25 | -3228.16 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 6.69 | 1.00 | 6.69 | ----- |
| TRACTORS | ACRE | 11.75 | 1.00 | 11.75 | ----- |
| IRRIGATION MACHINERY | ACRE | 121.17 | 1.00 | 121.17 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOP | ACRE | 30.80 | 1.00 | 30.80 | ----- |
| | | | | ----- | ----- |
| TOTAL FIXED COSTS | | | | 170.41 | ----- |
| TOTAL COSTS | | | | 3241.66 | 3398.57 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | -3241.66 | -3398.57 |
| ===== | | | | | |

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TABLE 38. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT, BLUEBERRIES, COST OF ESTABLISHING, 2ND YR, NORTHWEST ARKANSAS, 1981

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|-----------------------------------|------|--------------------|----------|---------------|----------------|
| ===== | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| TOTAL | | | | 0.0 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| DIAZINON GRAN | LB. | 30.00 | 1.00 | 30.00 | ----- |
| FERT 10-20-10 | CWT | 8.50 | 2.00 | 17.00 | ----- |
| SINBAR | LB. | 19.84 | 1.60 | 31.74 | ----- |
| BLUEBERRY PLNT. | EA. | 1.50 | 54.00 | 81.00 | ----- |
| HOURLY LABOR | HR. | 3.50 | 34.00 | 119.00 | ----- |
| PARAGUAT | LB. | 18.30 | 0.60 | 10.98 | ----- |
| UREA | CWT. | 11.00 | 1.00 | 11.00 | ----- |
| SEVIN | LB. | 2.35 | 1.00 | 2.35 | ----- |
| MULCH | CUYD | 2.10 | 30.00 | 63.00 | ----- |
| MACHINERY | ACPE | 0.89 | 1.00 | 0.89 | ----- |
| TRACTORS | ACRE | 10.26 | 1.00 | 10.26 | ----- |
| IRRIGATION MACHINERY | ACRE | 0.84 | 1.00 | 0.84 | ----- |
| LABOR(MACH & TRACT) | HOUR | 3.56 | 3.27 | 11.66 | ----- |
| LABOR(IRRIGATION) | HOUR | 3.83 | 3.78 | 14.48 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 264.50 | 37.03 | 19.51 @ 7 3/8% |
| | | | | ----- | ----- |
| SUBTOTAL. PRE-HARVEST | | | | 441.23 | 423.71 |
| HARVEST COSTS | | | | | |
| | | | | ----- | ----- |
| SUBTOTAL, HARVEST | | | | 0.0 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 423.71 | | 42.37 |
| TOTAL VARIABLE COST | | | | 441.23 | 466.08 |
| INCOME ABOVE VARIABLE COSTS | | | | -441.23 | -466.08 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 5.41 | 1.00 | 5.41 | ----- |
| TRACTORS | ACRE | 8.88 | 1.00 | 8.88 | ----- |
| IRRIGATION MACHINERY | ACRE | 121.17 | 1.00 | 121.17 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 26.92 | 1.00 | 26.92 | ----- |
| | | | | ----- | ----- |
| TOTAL FIXED COSTS | | | | 162.37 | ----- |
| TOTAL COSTS | | | | 603.60 | 628.45 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | -603.60 | -628.45 |
| ===== | | | | | |

TABLE 39. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
 BLUEBERRIES, COST OF ESTABLISHING, 3RD YR.
 NORTHWEST ARKANSAS, 1981

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|-----------------------------------|------|-----------------------|----------|------------------|------------------|
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| BLUEBERRIES | LB. | 0.80 | 2250.00 | 1800.00 | ----- |
| BERRY SALVAGE PR | LB. | 0.45 | 250.00 | 112.50 | ----- |
| TOTAL | | | | 1912.50 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| HOURLY LABOR | HR. | 3.50 | 36.00 | 126.00 | ----- |
| BLUEBERRY PLNT. | EA. | 1.50 | 11.00 | 16.50 | ----- |
| FERT 13-13-13 | CWT | 8.25 | 2.50 | 20.63 | ----- |
| SINBAR | LB. | 19.84 | 2.00 | 39.68 | ----- |
| PAPAQUAT | LB. | 18.30 | 1.00 | 18.30 | ----- |
| SEVIN | LB. | 2.35 | 3.00 | 7.05 | ----- |
| DIAZINON | LB. | 9.75 | 1.00 | 9.75 | ----- |
| UREA | CWT. | 11.00 | 1.60 | 17.60 | ----- |
| MULCH | CUYD | 2.10 | 30.00 | 63.00 | ----- |
| METHOXYCHLOR | LB. | 2.85 | 1.00 | 2.85 | ----- |
| MANEB | LB. | 8.77 | 2.00 | 17.54 | ----- |
| MACHINERY | ACRE | 1.16 | 1.00 | 1.16 | ----- |
| TRACTORS | ACRE | 13.49 | 1.00 | 13.49 | ----- |
| IRRIGATION MACHINERY | ACRE | 0.84 | 1.00 | 0.84 | ----- |
| LABOR (MACH & TRACT) | HOUR | 3.56 | 4.30 | 15.32 | ----- |
| LABOR (IRRIGATION) | HOUR | 3.83 | 3.78 | 14.48 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 99.19 | 13.89 | ----- @ 7 3/8% |
| SUBTOTAL, PRE-HARVEST | | | | 398.07 | ----- 391.50 |
| HARVEST COSTS | | | | | |
| BLUEBERRY H/C | LB. | 0.35 | 2500.00 | 875.00 | ----- |
| SUBTOTAL, HARVEST | | | | 875.00 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 1266.50 | | ----- 126.65 |
| TOTAL VARIABLE COST | | | | 1273.07 | ----- 1393.15 |
| INCOME ABOVE VARIABLE COSTS | | | | 639.43 | ----- 519.35 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 8.19 | 1.00 | 8.19 | ----- |
| TRACTORS | ACRE | 11.67 | 1.00 | 11.67 | ----- |
| IRRIGATION MACHINERY | ACRE | 121.17 | 1.00 | 121.17 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 30.70 | 1.00 | 30.70 | ----- |
| TOTAL FIXED COSTS | | | | 171.73 | ----- |
| TOTAL COSTS | | | | 1444.80 | ----- 1564.88 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | 467.70 | ----- 347.62 |

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TABLE 40. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
FOR BLUEBERRIES IN THE FOURTH YEAR
NORTHWEST ARKANSAS, 1981

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|-----------------------------------|------|-----------------------|----------|------------------|------------------|
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| BLUEBERRIES | LB. | 0.80 | 4500.00 | 3600.00 | ----- |
| BERRY SALVAGE PR | LB. | 0.45 | 500.00 | 225.00 | ----- |
| TOTAL | | | | 3825.00 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| HOURLY LABOR | HR. | 3.50 | 46.00 | 161.00 | ----- |
| BLUEBERRY PLNT. | EA. | 1.50 | 11.00 | 16.50 | ----- |
| FERT 13-13-13 | CWT | 8.25 | 2.50 | 20.63 | ----- |
| SINBAR | LB. | 19.84 | 2.00 | 39.68 | ----- |
| PARAQUAT | LB. | 18.30 | 1.00 | 18.30 | ----- |
| SEVIN | LB. | 2.35 | 3.00 | 7.05 | ----- |
| DIAZINON | LB. | 9.75 | 1.00 | 9.75 | ----- |
| UREA | CWT. | 11.00 | 1.60 | 17.60 | ----- |
| MULCH | CUYD | 2.10 | 30.00 | 63.00 | ----- |
| METHOXYCHLOR | LB. | 2.85 | 1.00 | 2.85 | ----- |
| MANEB | LB. | 8.77 | 2.00 | 17.54 | ----- |
| MACHINERY | ACRE | 1.16 | 1.00 | 1.16 | ----- |
| TRACTORS | ACRE | 13.49 | 1.00 | 13.49 | ----- |
| IRRIGATION MACHINERY | ACRE | 0.84 | 1.00 | 0.84 | ----- |
| LABOR(MACH & TRACT) | HOUR | 3.56 | 4.30 | 15.32 | ----- |
| LABOR(IRRIGATION) | HOUR | 3.83 | 3.78 | 14.48 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 99.19 | 13.89 | 7.32 @ 7 3/8% |
| SUBTOTAL, PRE-HARVEST | | | | 433.07 | 426.50 |
| HARVEST COSTS | | | | | |
| BLUEBERRY H/C | LB. | 0.35 | 5000.00 | 1750.00 | ----- |
| SUBTOTAL, HARVEST | | | | 1750.00 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 2176.50 | | 217.65 |
| TOTAL VARIABLE COST | | | | 2183.07 | 2394.15 |
| INCOME ABOVE VARIABLE COSTS | | | | 1641.93 | 1430.85 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 8.19 | 1.00 | 8.19 | ----- |
| TRACTORS | ACRE | 11.67 | 1.00 | 11.67 | ----- |
| IRRIGATION MACHINERY | ACRE | 121.17 | 1.00 | 121.17 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 30.70 | 1.00 | 30.70 | ----- |
| TOTAL FIXED COSTS | | | | 171.73 | ----- |
| TOTAL COSTS | | | | 2354.79 | 2565.88 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | 1470.20 | 1259.13 |

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TABLE 41. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
FOR BLUEBERRIES IN THE FIFTH YEAR
NORTHWEST ARKANSAS, 1981

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|-----------------------------------|------|-----------------------|----------|------------------|------------------|
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| BLUEBERRIES | LB. | 0.80 | 6750.00 | 5400.00 | ----- |
| BERRY SALVAGE PR | LB. | 0.45 | 750.00 | 337.50 | ----- |
| TOTAL | | | | 5737.49 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| HOURLY LABOR | HR. | 3.50 | 46.00 | 161.00 | ----- |
| BLUEBERRY PLNT. | EA. | 1.50 | 11.00 | 16.50 | ----- |
| FERT 13-13-13 | CWT | 8.25 | 2.50 | 20.63 | ----- |
| SINBAR | LB. | 19.84 | 2.00 | 39.68 | ----- |
| PARAQUAT | LB. | 18.30 | 1.00 | 18.30 | ----- |
| SEVIN | LB. | 2.35 | 3.00 | 7.05 | ----- |
| DIAZINON | LB. | 9.75 | 1.00 | 9.75 | ----- |
| UREA | CWT. | 11.00 | 1.60 | 17.60 | ----- |
| MULCH | CUYD | 2.10 | 30.00 | 63.00 | ----- |
| METHOXYCHLOR | LB. | 2.85 | 1.00 | 2.85 | ----- |
| MANEB | LB. | 8.77 | 2.00 | 17.54 | ----- |
| MACHINERY | ACRE | 1.16 | 1.00 | 1.16 | ----- |
| TRACTORS | ACRE | 13.49 | 1.00 | 13.49 | ----- |
| IRRIGATION MACHINERY | ACRE | 0.84 | 1.00 | 0.84 | ----- |
| LABOR(MACH & TRACT) | HOUR | 3.56 | 4.30 | 15.32 | ----- |
| LABOR(IRRIGATION) | HOUR | 3.83 | 3.78 | 14.48 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 99.19 | 13.89 | 7.32 @ 7 3/8% |
| SUBTOTAL, PRE-HARVEST | | | | 433.07 | 426.5 |
| HARVEST COSTS | | | | | |
| BLUEBERRY H/C | LB. | 0.35 | 7500.00 | 2625.00 | ----- |
| SUBTOTAL, HARVEST | | | | 2625.00 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 3051.50 | | 305.15 |
| TOTAL VARIABLE COST | | | | 3058.07 | 3356.65 |
| INCOME ABOVE VARIABLE COSTS | | | | 2679.42 | 2380.84 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 8.19 | 1.00 | 8.19 | ----- |
| TRACTORS | ACRE | 11.67 | 1.00 | 11.67 | ----- |
| IRRIGATION MACHINERY | ACRE | 121.17 | 1.00 | 121.17 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 30.70 | 1.00 | 30.70 | ----- |
| TOTAL FIXED COSTS | | | | 171.73 | ----- |
| TOTAL COSTS | | | | 3229.79 | 3528.38 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | 2507.70 | 2209.11 |

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TABLE 42. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
FOR MATURE BLUEBERRIES
NORTHWEST ARKANSAS, 1981

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|-----------------------------------|------|-----------------------|----------|------------------|------------------|
| ===== | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| BLUEBERRIES | LB. | 0.80 | 9000.00 | 7200.00 | ----- |
| BERRY SALVAGE PR | LB. | 0.45 | 1000.00 | 450.00 | ----- |
| TOTAL | | | | 7649.99 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| HOURLY LABOR | HR. | 3.50 | 46.00 | 161.00 | ----- |
| BLUEBERRY PLNT. | EA. | 1.50 | 11.00 | 16.50 | ----- |
| FERT 13-13-13 | CWT | 8.25 | 2.50 | 20.63 | ----- |
| SINBAR | LB. | 19.84 | 2.00 | 39.68 | ----- |
| PARAQUAT | LB. | 18.30 | 1.00 | 18.30 | ----- |
| SEVIN | LB. | 2.35 | 3.00 | 7.05 | ----- |
| DIAZINON | LB. | 9.75 | 1.00 | 9.75 | ----- |
| UREA | CWT. | 11.00 | 1.60 | 17.60 | ----- |
| MULCH | CUYD | 2.10 | 30.00 | 63.00 | ----- |
| METHOXYCHLOR | LB. | 2.85 | 1.00 | 2.85 | ----- |
| MANEB | LB. | 8.77 | 2.00 | 17.54 | ----- |
| MACHINERY | ACRE | 1.16 | 1.00 | 1.16 | ----- |
| TRACTORS | ACRE | 13.49 | 1.00 | 13.49 | ----- |
| IRRIGATION MACHINERY | ACRE | 0.84 | 1.00 | 0.84 | ----- |
| LABOR(MACH & TRACT) | HOUR | 3.56 | 4.30 | 15.32 | ----- |
| LABOR(IRRIGATION) | HOUR | 3.83 | 3.78 | 14.48 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 99.19 | 13.89 | 7.32 @ 7 3/8% |
| SUBTOTAL, PRE-HARVEST | | | | 433.07 | 426.50 |
| HARVEST COSTS | | | | | |
| BLUEBERRY H/C | LB. | 0.35 | 10000.00 | 3500.00 | ----- |
| SUBTOTAL, HARVEST | | | | 3500.00 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 3926.50 | | 392.65 |
| TOTAL VARIABLE COST | | | | 3933.07 | 4319.15 |
| INCOME ABOVE VARIABLE COSTS | | | | 3716.92 | 3330.84 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 8.19 | 1.00 | 8.19 | ----- |
| TRACTORS | ACRE | 11.67 | 1.00 | 11.67 | ----- |
| IRRIGATION MACHINERY | ACRE | 121.17 | 1.00 | 121.17 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 30.70 | 1.00 | 30.70 | ----- |
| TOTAL FIXED COSTS | | | | 171.73 | ----- |
| TOTAL COSTS | | | | 4104.79 | 4490.88 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | 3545.20 | 3159.11 |
| ===== | | | | | |

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TABLE 43. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT.
BLACKBERRIES (ERECT), 1ST YR, NONIRRIGATED
NORTHWEST ARKANSAS, 1981

| | | PRICE OR | QUANTITY | VALUE | YOUR |
|-----------------------------------|------|----------------|----------|---------|----------------|
| | | UNIT COST/UNIT | | OR COST | ESTIMATE |
| ===== | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| TOTAL | | | | 0.0 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| POULTRY LITTER | TON | 16.00 | 3.00 | 48.00 | ----- |
| BLACKBERRY ROOTS | EA. | 0.15 | 2178.00 | 326.70 | ----- |
| FERT 13-13-13 | CWT | 8.25 | 1.50 | 12.38 | ----- |
| DIAZINON GRAN | LB. | 30.00 | 1.00 | 30.00 | ----- |
| MALATHION | LB. | 5.24 | 1.00 | 5.24 | ----- |
| KELTHANE | LB. | 29.32 | 0.60 | 17.59 | ----- |
| PRINCEP | LB. | 4.93 | 2.00 | 9.86 | ----- |
| HOURLY LABOR | HR. | 3.50 | 23.00 | 80.50 | ----- |
| MACHINERY | ACRE | 1.05 | 1.00 | 1.05 | ----- |
| TRACTORS | ACRE | 13.68 | 1.00 | 13.68 | ----- |
| LABOR (MACH & TRACT) | HOUR | 3.56 | 4.37 | 15.54 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 393.12 | 55.04 | 29.00 @ 7 3/8% |
| SUBTOTAL, PRE-HARVEST | | | | 615.57 | 589.52 |
| HARVEST COSTS | | | | | |
| SUBTOTAL, HARVEST | | | | 0.0 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 589.52 | | 58.95 |
| TOTAL VARIABLE COST | | | | 615.57 | 648.47 |
| INCOME ABOVE VARIABLE COSTS | | | | -615.57 | -648.47 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 5.68 | 1.00 | 5.68 | ----- |
| TRACTORS | ACRE | 11.84 | 1.00 | 11.84 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 16.01 | 1.00 | 16.01 | ----- |
| TOTAL FIXED COSTS | | | | 33.53 | ----- |
| TOTAL COSTS | | | | 649.10 | 682.00 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | -649.10 | 682.00 |
| ===== | | | | | |

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TABLE 44. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT, BLACKBERRIES (ERECT), 2ND YR. NONIRRIGATED NORTHWEST ARKANSAS, 1981

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|-----------------------------------|------|--------------------|----------|---------------|----------------|
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| BLACKBERRIES | LB. | 0.70 | 1000.00 | 700.00 | ----- |
| BERRY SALVAGE PR | LB. | 0.45 | 120.00 | 54.00 | ----- |
| TOTAL | | | | 754.00 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| FERT 13-13-13 | CWT | 8.25 | 5.00 | 41.25 | ----- |
| PARAQUAT | LB. | 18.30 | 0.80 | 14.64 | ----- |
| SINBAR | LB. | 19.84 | 3.20 | 63.49 | ----- |
| LLIME-SULPHUR | GAL | 2.75 | 10.00 | 27.50 | ----- |
| FERBAM | LB. | 11.44 | 4.50 | 51.48 | ----- |
| MALATHION | LB. | 5.24 | 3.50 | 18.34 | ----- |
| KELTHANE | LB. | 29.32 | 1.00 | 29.32 | ----- |
| SEVIN | LB. | 2.35 | 5.00 | 11.75 | ----- |
| AMMONIUM NITRATE | CWT | 7.50 | 1.00 | 7.50 | ----- |
| HOURLY LABOR | HR. | 3.50 | 56.00 | 196.00 | ----- |
| PICK CONTAINER | EA. | 0.07 | 1000.00 | 70.00 | ----- |
| PICKING TRAY | EA. | 0.65 | 84.00 | 54.60 | ----- |
| MACHINERY | ACRE | 0.80 | 1.00 | 0.80 | ----- |
| TRACTORS | ACRE | 14.74 | 1.00 | 14.74 | ----- |
| LABOR (MACH & TRACT) | HOUR | 3.56 | 4.71 | 16.75 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 184.82 | 25.87 | 13.63 @ 7 3/8% |
| SUBTOTAL, PRE-HARVEST | | | | 644.03 | 631.79 |
| HARVEST COSTS | | | | | |
| HOURLY LABOR | HR. | 3.50 | 10.00 | 35.00 | ----- |
| SUBTOTAL, HARVEST | | | | 35.00 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 666.79 | | 66.68 |
| TOTAL VARIABLE COST | | | | 679.03 | 733.47 |
| INCOME ABOVE VARIABLE COSTS | | | | 74.97 | 20.53 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 7.57 | 1.00 | 7.57 | ----- |
| TRACTORS | ACRE | 12.76 | 1.00 | 12.76 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 17.25 | 1.00 | 17.25 | ----- |
| TOTAL FIXED COSTS | | | | 37.58 | ----- |
| TOTAL COSTS | | | | 716.61 | 771.05 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | 37.39 | -17.05 |

TABLE 45. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
BLACKBERRIES (ERECT), 3RD THROUGH 7th YR.
NORTHWEST ARKANSAS, 1981 NONIRRIGATED

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|-----------------------------------|------|-----------------------|----------|------------------|------------------|
| ===== | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| BLACKBERRIES | LB. | 0.70 | 3000.00 | 2100.00 | ----- |
| BERRY SALVAGE PR | LB. | 0.45 | 330.00 | 148.50 | ----- |
| | | | | ----- | |
| TOTAL | | | | 2248.50 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| FERT 13-13-13 | CWT | 8.25 | 5.00 | 41.25 | ----- |
| PARAQUAT | LB. | 18.30 | 0.80 | 14.64 | ----- |
| SINBAR | LB. | 19.84 | 3.20 | 63.49 | ----- |
| LLIME-SULPHUR | GAL | 2.75 | 10.00 | 27.50 | ----- |
| FERBAM | LB. | 11.44 | 4.50 | 51.48 | ----- |
| MALATHION | LB. | 5.24 | 3.50 | 18.34 | ----- |
| KELTHANE | LB. | 29.32 | 1.00 | 29.32 | ----- |
| SEVIN | LB. | 2.35 | 5.00 | 11.75 | ----- |
| AMMONIUM NITRATE | CWT | 7.50 | 1.00 | 7.50 | ----- |
| HOURLY LABOR | HR. | 3.50 | 76.00 | 266.00 | ----- |
| PICK CONTAINER | EA. | 0.07 | 1500.00 | 105.00 | ----- |
| PICKING TRAY | EA. | 0.65 | 84.00 | 54.60 | ----- |
| MACHINERY | ACRE | 0.80 | 1.00 | 0.80 | ----- |
| TRACTORS | ACRE | 14.74 | 1.00 | 14.74 | ----- |
| LABOR (MACH & TRACT) | HOUR | 3.56 | 4.71 | 16.75 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 206.99 | 28.98 | ----- |
| | | | | | 15.27 @ 7 3/8% |
| | | | | ----- | |
| SUBTOTAL, PRE-HARVEST | | | | 752.14 | 738.43 |
| HARVEST COSTS | | | | | |
| | | | | ----- | |
| SUBTOTAL, HARVEST | | | | 0.0 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 738.43 | | 73.84 |
| | | | | | ----- |
| TOTAL VARIABLE COST | | | | 752.14 | 812.27 |
| INCOME ABOVE VARIABLE COSTS | | | | 1496.36 | 1436.24 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 7.57 | 1.00 | 7.57 | ----- |
| TRACTORS | ACRE | 12.76 | 1.00 | 12.76 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 17.25 | 1.00 | 17.25 | ----- |
| | | | | ----- | |
| TOTAL FIXED COSTS | | | | 37.58 | ----- |
| TOTAL COSTS | | | | 789.72 | 849.05 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | 1458.78 | 1398.66 |
| ===== | | | | | |

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TABLE 46. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT, BLACKBERRIES (ERECT), 1ST YR, IRRIGATED NORTHWEST ARKANSAS, 1981

| | | PRICE OR | QUANTITY | VALUE | YOUR |
|-----------------------------------|------|-----------|----------|---------|----------------|
| | UNIT | COST/UNIT | | OR COST | ESTIMATE |
| ----- | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| TOTAL | | | | 0.0 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| POULTRY LITTER | TON | 16.00 | 3.00 | 48.00 | ----- |
| BLACKBERRY ROOTS | EA. | 0.15 | 2178.00 | 326.70 | ----- |
| FERT 13-13-13 | CWT | 8.25 | 1.50 | 12.38 | ----- |
| DIAZINON GRAN | LB. | 30.00 | 1.00 | 30.00 | ----- |
| MALATHION | LB. | 5.24 | 1.00 | 5.24 | ----- |
| KELTHANE | LB. | 29.32 | 0.60 | 17.59 | ----- |
| PRINCEP | LB. | 4.93 | 2.00 | 9.86 | ----- |
| HOURLY LABOR | HR. | 3.50 | 25.00 | 87.50 | ----- |
| MACHINERY | ACRE | 1.05 | 1.00 | 1.05 | ----- |
| TRACTORS | ACRE | 13.68 | 1.00 | 13.68 | ----- |
| IRRIGATION MACHINERY | ACRE | 0.76 | 1.00 | 0.76 | ----- |
| LABOR (MACH & TRACT) | HOUR | 3.56 | 4.37 | 15.54 | ----- |
| LABOR (IRRIGATION) | HOUR | 3.83 | 3.42 | 13.10 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 396.63 | 55.53 | 29.25 @ 7 3/8% |
| SUBTOTAL, PRE-HARVEST | | | | 636.92 | 610.64 |
| HARVEST COSTS | | | | | |
| SUBTOTAL, HARVEST | | | | 0.0 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 610.64 | | 61.06 |
| TOTAL VARIABLE COST | | | | 636.92 | 671.70 |
| INCOME ABOVE VARIABLE COSTS | | | | -636.92 | -671.70 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 5.68 | 1.00 | 5.68 | ----- |
| TRACTORS | ACRE | 11.84 | 1.00 | 11.84 | ----- |
| IRRIGATION MACHINERY | ACRE | 123.52 | 1.00 | 123.52 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 29.50 | 1.00 | 29.50 | ----- |
| TOTAL FIXED COSTS | | | | 170.54 | ----- |
| TOTAL COSTS | | | | 807.46 | 842.24 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | -807.46 | -842.24 |
| ===== | | | | | |

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TABLE 47. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT, BLACKBERRIES (ERECT), 2ND YR, IRRIGATED NORTHWEST ARKANSAS, 1981

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|-----------------------------------|------|--------------------|----------|---------------|----------------|
| ===== | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| BLACKBERRIES | LB. | 0.70 | 2000.00 | 1400.00 | ----- |
| BERRY SALVAGE PR | LB. | 0.45 | 220.00 | 99.00 | ----- |
| | | | | ----- | |
| TOTAL | | | | 1499.00 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| FERT 13-13-13 | CWT | 8.25 | 5.00 | 41.25 | ----- |
| PARAQUAT | LB. | 18.30 | 0.80 | 14.64 | ----- |
| SINBAR | LB. | 19.84 | 3.20 | 63.49 | ----- |
| LLIME-SULPHUR | GAL | 2.75 | 10.00 | 27.50 | ----- |
| FERBAM | LB. | 11.44 | 4.50 | 51.48 | ----- |
| MALATHION | LB. | 5.24 | 3.50 | 18.34 | ----- |
| KELTHANE | LB. | 29.32 | 1.00 | 29.32 | ----- |
| SEVIN | LB. | 2.35 | 5.00 | 11.75 | ----- |
| AMMONIUM NITRATE | CWT | 7.50 | 1.00 | 7.50 | ----- |
| HOURLY LABOR | HR. | 3.50 | 61.00 | 213.50 | ----- |
| PICK CONTAINER | EA. | 0.07 | 1000.00 | 70.00 | ----- |
| PICKING TRAY | EA. | 0.65 | 84.00 | 54.60 | ----- |
| MACHINERY | ACRE | 0.80 | 1.00 | 0.80 | ----- |
| TRACTORS | ACRE | 14.74 | 1.00 | 14.74 | ----- |
| IRRIGATION MACHINERY | ACRE | 0.76 | 1.00 | 0.76 | ----- |
| LABOR (MACH & TRACT) | HOUR | 3.56 | 4.71 | 16.75 | ----- |
| LABOR (IRRIGATION) | HOUR | 3.83 | 3.42 | 13.10 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 191.97 | 26.88 | 14.16 @ 7 3/8% |
| | | | | ----- | |
| SUBTOTAL, PRE-HARVEST | | | | 676.39 | 663.67 |
| HARVEST COSTS | | | | | |
| HOURLY LABOR | HR. | 3.50 | 15.00 | 52.50 | ----- |
| | | | | ----- | |
| SUBTOTAL, HARVEST | | | | 52.50 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 716.17 | | 71.62 |
| | | | | | ----- |
| TOTAL VARIABLE COST | | | | 728.89 | 787.79 |
| INCOME ABOVE VARIABLE COSTS | | | | 770.11 | 711.21 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 7.57 | 1.00 | 7.57 | ----- |
| TRACTORS | ACRE | 12.76 | 1.00 | 12.76 | ----- |
| IRRIGATION MACHINERY | ACRE | 123.52 | 1.00 | 123.52 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 30.75 | 1.00 | 30.75 | ----- |
| | | | | ----- | |
| TOTAL FIXED COSTS | | | | 174.59 | ----- |
| TOTAL COSTS | | | | 903.48 | 962.38 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | 595.52 | 536.62 |
| ===== | | | | | |

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TABLE 48. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
BLACKBERRIES (ERECT), 3RD THROUGH 7th YR.
NORTHWEST ARKANSAS, 1981 IRRIGATED

| | | PRICE OR | QUANTITY | VALUE | YOUR |
|-----------------------------------|------|----------------|----------|---------|----------------------|
| | | UNIT COST/UNIT | | OR COST | ESTIMATE |
| ===== | | | | | |
| ----- | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| BLACKBERRIES | LB. | 0.70 | 5000.00 | 3500.00 | ----- |
| BERRY SALVAGE PR | LB. | 0.45 | 550.00 | 247.50 | ----- |
| | | | | ----- | |
| TOTAL | | | | 3747.50 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| FERT 13-13-13 | CWT | 8.25 | 5.00 | 41.25 | ----- |
| PARAQUAT | LB. | 18.30 | 0.80 | 14.64 | ----- |
| SINBAR | LB. | 19.84 | 3.20 | 63.49 | ----- |
| LLIME-SULPHUR | GAL | 2.75 | 10.00 | 27.50 | ----- |
| FERBAM | LB. | 11.44 | 4.50 | 51.48 | ----- |
| MALATHION | LB. | 5.24 | 3.50 | 18.34 | ----- |
| KELTHANE | LB. | 29.32 | 1.00 | 29.32 | ----- |
| SEVIN | LB. | 2.35 | 5.00 | 11.75 | ----- |
| AMMONIUM NITRATE | CWT | 7.50 | 1.00 | 7.50 | ----- |
| HOURLY LABOR | HR. | 3.50 | 81.00 | 283.50 | ----- |
| PICK CONTAINER | EA. | 0.07 | 1500.00 | 105.00 | ----- |
| PICKING TRAY | EA. | 0.65 | 90.00 | 58.50 | ----- |
| MACHINERY | ACRE | 0.80 | 1.00 | 0.80 | ----- |
| TRACTORS | ACRE | 14.74 | 1.00 | 14.74 | ----- |
| IRRIGATION MACHINERY | ACRE | 0.76 | 1.00 | 0.76 | ----- |
| LABOR (MACH & TRACT) | HOUR | 3.56 | 4.71 | 16.75 | ----- |
| LABOR (IRRIGATION) | HOUR | 3.83 | 3.42 | 13.10 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 214.34 | 30.01 | ----- 15.81 @ 7 3/8% |
| SUBTOTAL, PRE-HARVEST | | | | 788.43 | ----- 774.23 |
| HARVEST COSTS | | | | | |
| HOURLY LABOR | HR. | 3.50 | 15.00 | 52.50 | ----- |
| SUBTOTAL, HARVEST | | | | 52.50 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 826.73 | | ----- 82.67 |
| TOTAL VARIABLE COST | | | | 840.93 | ----- 909.40 |
| INCOME ABOVE VARIABLE COSTS | | | | 2906.57 | ----- 2838.10 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 7.57 | 1.00 | 7.57 | ----- |
| TRACTORS | ACRE | 12.76 | 1.00 | 12.76 | ----- |
| IRRIGATION MACHINERY | ACRE | 123.52 | 1.00 | 123.52 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 30.75 | 1.00 | 30.75 | ----- |
| TOTAL FIXED COSTS | | | | 174.59 | ----- 1083.99 |
| TOTAL COSTS | | | | 1015.51 | ----- 2663.51 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | 2731.99 | ----- |
| ===== | | | | | |

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TABLE 49. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
 STRAWBERRIES, 1ST YR, NONIRRIGATED
 NORTHWEST ARKANSAS, 1981

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|-----------------------------------|------|-----------------------|----------|------------------|------------------|
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| TOTAL | | | | 0.0 | |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| LIME APPLIED | TON | 18.00 | 2.00 | 36.00 | |
| FERT 13-13-13 | CWT | 8.25 | 4.00 | 33.00 | |
| DEVRIKOL | LB. | 12.30 | 4.00 | 49.20 | |
| STRAWBERRY PLTS | EA. | 0.05 | 6222.00 | 298.66 | |
| HOURLY LABOR | HR. | 3.50 | 29.00 | 101.50 | |
| MACHINERY | ACRE | 3.18 | 1.00 | 3.18 | |
| TRACTORS | ACRE | 21.00 | 1.00 | 21.00 | |
| LABOR (MACH & TRACT) | HR. | 3.56 | 6.70 | 23.86 | |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 387.57 | 54.26 | 28.58 @ 7/38% |
| SUBTOTAL, PRE-HARVEST | | | | 620.65 | 594.97 |
| HARVEST COSTS | | | | | |
| SUBTOTAL, HARVEST | | | | 0.0 | |
| MANAGEMENT CHARGE | DOL. | 0.10 | 594.97 | | 59.50 |
| TOTAL VARIABLE COST | | | | 620.65 | 654.47 |
| INCOME ABOVE VARIABLE COSTS | | | | -620.65 | -654.47 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 7.15 | 1.00 | 7.15 | |
| TRACTORS | ACRE | 18.17 | 1.00 | 18.17 | |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | |
| OVERHEAD LABOR | ACRE | 24.57 | 1.00 | 24.57 | |
| TOTAL FIXED COSTS | | | | 49.89 | |
| TOTAL COSTS | | | | 670.53 | 704.36 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | -670.53 | 704.36 |

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TABLE 50. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
STRAWBERRIES, 2ND YR, NONIRRIGATED
NORTHWEST ARKANSAS, 1981

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|-----------------------------------|------|-----------------------|----------|------------------|------------------|
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| STRAWBERRIES | LB. | 0.50 | 4500.00 | 2250.00 | ----- |
| BERRY SALVAGE P | LB. | 0.35 | 500.00 | 175.00 | ----- |
| TOTAL | | | | 2425.00 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| FERT 13-13-13 | CWT | 8.25 | 4.00 | 33.00 | ----- |
| DEVIRINOL | LB. | 12.30 | 4.00 | 49.20 | ----- |
| 2-4D | LB. | 3.00 | 1.00 | 3.00 | ----- |
| STRAW | BALE | 1.50 | 20.00 | 30.00 | ----- |
| METHOXYCHLOR | LB. | 2.85 | 3.00 | 8.55 | ----- |
| SEVIN | LB. | 2.35 | 3.00 | 7.05 | ----- |
| KELTHANE | LB. | 29.32 | 0.80 | 23.46 | ----- |
| CAPTAN | LB. | 3.60 | 4.80 | 17.28 | ----- |
| HOURLY LABOR | HR. | 3.50 | 19.00 | 66.50 | ----- |
| BENLATE | LB. | 23.00 | 1.50 | 34.50 | ----- |
| MACHINERY | ACRE | 1.97 | 1.00 | 1.97 | ----- |
| TRACTORS | ACRE | 12.66 | 1.00 | 12.66 | ----- |
| LABOR (MACH & TRACT) | HOUR | 3.56 | 4.04 | 14.38 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 83.04 | 11.63 | 61.24 @ 7/38% |
| SUBTOTAL, PRE-HARVEST | | | | 313.17 | 307.66 |
| HARVEST COSTS | | | | | |
| PICK CONTAINER | EA. | 0.07 | 1500.00 | 105.00 | ----- |
| PICKING TRAY | EA. | 0.65 | 125.00 | 81.25 | ----- |
| HOURLY LABOR | HR. | 3.50 | 24.00 | 84.00 | ----- |
| SUBTOTAL, HARVEST | | | | 270.25 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 577.91 | | 57.79 |
| TOTAL VARIABLE COST | | | | 583.42 | 635.70 |
| INCOME ABOVE VARIABLE COSTS | | | | 1841.58 | 1789.30 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 4.90 | 1.00 | 4.90 | ----- |
| TRACTORS | ACRE | 10.95 | 1.00 | 10.95 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 14.81 | 1.00 | 14.81 | ----- |
| TOTAL FIXED COSTS | | | | 30.67 | ----- |
| TOTAL COSTS | | | | 614.08 | 666.37 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | 1810.92 | 1758.63 |

TABLE 51. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
STRAWBERRIES, 1ST YR, IRRIGATED
NORTHWEST ARKANSAS, 1981

| | | PRICE OR | QUANTITY | VALUE | YOUR |
|-----------------------------------|------|----------------|----------|---------|----------------|
| | | UNIT COST/UNIT | | OR COST | ESTIMATE |
| ===== | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| TOTAL | | | | 0.0 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| LIME APPLIED | TON | 18.00 | 2.00 | 36.00 | ----- |
| FERT 13-13-13 | CWT | 8.25 | 4.00 | 33.00 | ----- |
| DEVIRINOL | LB. | 12.30 | 4.00 | 49.20 | ----- |
| STRAWBERRY PLTS | EA. | 0.05 | 4978.00 | 238.94 | ----- |
| HOURLY LABOR | HR. | 3.50 | 34.00 | 119.00 | ----- |
| MACHINERY | ACRE | 3.18 | 1.00 | 3.18 | ----- |
| TRACTORS | ACRE | 21.00 | 1.00 | 21.00 | ----- |
| IRRIGATION MACHINERY | ACRE | 2.17 | 1.00 | 2.17 | ----- |
| LABOR(MACH & TRACT) | HOUR | 3.56 | 6.70 | 23.86 | ----- |
| LABOR(IRRIGATION) | HOUR | 3.83 | 0.53 | 2.03 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 355.41 | 49.76 | 26.21 @ 7 3/8% |
| SUBTOTAL, PRE-HARVEST | | | | 578.14 | 554.59 |
| HARVEST COSTS | | | | | |
| SUBTOTAL, HARVEST | | | | 0.0 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 554.59 | | 55.46 |
| TOTAL VARIABLE COST | | | | 578.14 | 610.05 |
| INCOME ABOVE VARIABLE COSTS | | | | -578.14 | -610.05 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 7.15 | 1.00 | 7.15 | ----- |
| TRACTORS | ACRE | 18.17 | 1.00 | 18.17 | ----- |
| IRRIGATION MACHINERY | ACRE | 145.56 | 1.00 | 145.56 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 26.67 | 1.00 | 26.67 | ----- |
| TOTAL FIXED COSTS | | | | 197.54 | ----- |
| TOTAL COSTS | | | | 775.68 | 807.59 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | -775.68 | 807.59 |
| ===== | | | | | |

TABLE 52. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
 STRAWBERRIES, 2ND YR, IRRIGATED
 NORTHWEST ARKANSAS, 1981

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|-----------------------------------|------|-----------------------|----------|------------------|---------------------|
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| STRAWBERRIES | LB. | 0.50 | 10800.00 | 5400.00 | ----- |
| BERRY SALVAGE P | LB. | 0.35 | 1200.00 | 420.00 | ----- |
| TOTAL | | | | 5820.00 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| FERT 13-13-13 | CWT | 8.25 | 4.00 | 33.00 | ----- |
| DEVIRINOL | LB. | 12.30 | 4.00 | 49.20 | ----- |
| 2-4D | LB. | 3.00 | 1.00 | 3.00 | ----- |
| STRAW | BALE | 1.50 | 20.00 | 30.00 | ----- |
| METHOXYCHLOR | LB. | 2.85 | 3.00 | 8.55 | ----- |
| SEVIN | LB. | 2.35 | 3.00 | 7.05 | ----- |
| KELTHANE | LB. | 29.32 | 0.80 | 23.46 | ----- |
| CAPTAN | LB. | 3.60 | 4.80 | 17.28 | ----- |
| HOURLY LABOR | HR. | 3.50 | 34.00 | 119.00 | ----- |
| BENLATE | LB. | 23.00 | 1.50 | 34.50 | ----- |
| MACHINERY | ACRE | 1.97 | 1.00 | 1.97 | ----- |
| TRACTORS | ACRE | 12.66 | 1.00 | 12.66 | ----- |
| IRRIGATION MACHINERY | ACRE | 2.17 | 1.00 | 2.17 | ----- |
| LABOR(MACH & TRACT) | HR. | 3.56 | 4.04 | 14.38 | ----- |
| LABOR(IRRIGATION) | HR. | 3.83 | 0.53 | 2.03 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 113.85 | 15.94 | ----- 8.40 @ 7 3/8% |
| SUBTOTAL, PRE-HARVEST | | | | 374.19 | ----- 366.65 |
| HARVEST COSTS | | | | | |
| PICK CONTAINER | EA. | 0.07 | 3000.00 | 210.00 | ----- |
| PICKING TRAY | EA. | 0.65 | 250.00 | 162.50 | ----- |
| HOURLY LABOR | HR. | 3.50 | 30.00 | 105.00 | ----- |
| SUBTOTAL, HARVEST | | | | 477.50 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 844.15 | | ----- 84.42 |
| TOTAL VARIABLE COST | | | | 851.69 | ----- 928.57 |
| INCOME ABOVE VARIABLE COSTS | | | | 4968.31 | ----- 4891.43 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 4.90 | 1.00 | 4.90 | ----- |
| TRACTORS | ACRE | 10.95 | 1.00 | 10.95 | ----- |
| IRRIGATION MACHINERY | ACRE | 145.56 | 1.00 | 145.56 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 16.91 | 1.00 | 16.91 | ----- |
| TOTAL FIXED COSTS | | | | 178.33 | ----- |
| TOTAL COSTS | | | | 1030.01 | ----- 1106.90 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | 4789.98 | ----- 4713.10 |

APPENDIX B

TABLE 53. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
SNAP BEANS, NONIRRIGATED
NORTHWEST ARKANSAS, 1981

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|-----------------------------------|------|-----------------------|----------|------------------|------------------|
| ===== | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| SNAPBEANS | TON | 115.00 | 2.10 | 241.50 | ----- |
| | | | | ----- | |
| TOTAL | | | | 241.50 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| LIME APPLIED | ACRE | 18.00 | 1.00 | 18.00 | ----- |
| FERT 13-13-13 | CWT | 8.25 | 3.00 | 24.75 | ----- |
| SNAPBEAN SEED | LB. | 0.85 | 60.00 | 51.00 | ----- |
| TREFLAN | LB. | 11.00 | 0.50 | 5.50 | ----- |
| TOXAPHENE | LB. | 0.0 | 4.00 | 0.0 | ----- |
| PARATHION | LB. | 0.0 | 0.50 | 0.0 | ----- |
| LANNATE | LB. | 0.0 | 1.00 | 0.0 | ----- |
| KOCIDE | B. | 0.0 | 4.00 | 0.0 | ----- |
| AMMONIUM NITRATE | CWT | 7.50 | 2.00 | 15.00 | ----- |
| MACHINERY | ACRE | 1.44 | 1.00 | 1.44 | ----- |
| TRACTORS | ACRE | 17.55 | 1.00 | 17.55 | ----- |
| LABOR (MACH & TRACT) | HOUR | 3.56 | 3.43 | 12.22 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 23.28 | 3.26 | 1.72 @ 7 3/8% |
| SUBTOTAL, PRE-HARVEST | | | | 148.72 | 147.18 |
| HARVEST COSTS | | | | | |
| HARVEST SNAP B | TON | 0.0 | 2.10 | 0.0 | ----- |
| SUBTOTAL, HARVEST | | | | 0.0 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 147.18 | | 14.72 |
| TOTAL VARIABLE COST | | | | 148.72 | 161.90 |
| INCOME ABOVE VARIABLE COSTS | | | | 92.78 | 79.60 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 6.67 | 1.00 | 6.67 | ----- |
| TRACTORS | ACRE | 17.84 | 1.00 | 17.84 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 12.59 | 1.00 | 12.59 | ----- |
| TOTAL FIXED COSTS | | | | 37.09 | ----- |
| TOTAL COSTS | | | | 185.81 | 198.99 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | 55.69 | 42.51 |
| ===== | | | | | |

TABLE 54. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
SNAP BEANS, IRRIGATED
NORTHWEST ARKANSAS, 1981

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|-----------------------------------|------|-----------------------|----------|------------------|--------------------|
| ===== | | | | | |
| ----- | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| SNAPBEANS | TON | 115.00 | 4.00 | 460.00 | ----- |
| TOTAL | | | | 460.00 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| LIME APPLIED | ACRE | 18.00 | 1.00 | 18.00 | ----- |
| FERT 13-13-13 | CWT | 8.25 | 3.00 | 24.75 | ----- |
| SNAPBEAN SEED | LB. | 0.85 | 60.00 | 51.00 | ----- |
| TREFLAN | LB. | 11.00 | 0.50 | 5.50 | ----- |
| TOXAPHENE | LB. | 0.0 | 4.00 | 0.0 | ----- |
| PARATHION | LB. | 0.0 | 0.50 | 0.0 | ----- |
| LANNATE | LB. | 0.0 | 1.00 | 0.0 | ----- |
| KOCIDE | B. | 0.0 | 4.00 | 0.0 | ----- |
| AMMONIUM NITRATE | CWT | 7.50 | 2.00 | 15.00 | ----- |
| MACHINERY | ACRE | 1.44 | 1.00 | 1.44 | ----- |
| TRACTORS | ACRE | 17.55 | 1.00 | 17.55 | ----- |
| IRRIGATION MACHINERY | ACRE | 2.29 | 1.00 | 2.29 | ----- |
| LABOR(MACH & TRACT) | HOUR | 3.56 | 3.43 | 12.22 | ----- |
| LABOR(IRRIGATION) | HOUR | 3.83 | 0.10 | 0.38 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 23.47 | 3.29 | -----1.73 @ 7 3/8% |
| | | | | ----- | |
| SUBTOTAL, PRE-HARVEST | | | | 151.42 | -----149.86 |
| HARVEST COSTS | | | | | |
| HARVEST SNAP B | TON | 0.0 | 4.00 | 0.0 | ----- |
| SUBTOTAL, HARVEST | | | | 0.0 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 149.86 | | -----14.99 |
| TOTAL VARIABLE COST | | | | 151.42 | -----164.85 |
| INCOME ABOVE VARIABLE COSTS | | | | 308.58 | -----295.15 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 6.67 | 1.00 | 6.67 | ----- |
| TRACTORS | ACRE | 17.84 | 1.00 | 17.84 | ----- |
| IRRIGATION MACHINERY | ACRE | 145.98 | 1.00 | 145.98 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 12.98 | 1.00 | 12.98 | ----- |
| TOTAL FIXED COSTS | | | | 183.46 | ----- |
| TOTAL COSTS | | | | 334.88 | -----348.31 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | 125.12 | -----111.69 |
| ===== | | | | | |

TABLE 55. ESTIMATED COSTS AND RETURNS PER ACRE, 6 ROW EQUIPMENT,
CORN FOR FEED GRAIN, NORTHWEST ARKANSAS, 1981.
IRRIGATED WITH CENTER PIVOT.

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|-----------------------------------|------|-----------------------|----------|------------------|------------------|
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| CORN | BU. | 3.04 | 150.00 | 456.00 | ----- |
| TOTAL | | | | 456.00 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| CORN KERNEL | LB. | 0.70 | 30.00 | 21.00 | ----- |
| N (UREA SOURCE) | LB. | 0.23 | 60.00 | 13.80 | ----- |
| PHOSPHATE | LB. | 0.27 | 60.00 | 16.20 | ----- |
| POTASH | LB. | 0.15 | 120.00 | 18.00 | ----- |
| CUST FERT APPL. | ACRE | 2.50 | 1.00 | 2.50 | ----- |
| ATRAZINE | QT. | 3.08 | 2.00 | 6.16 | ----- |
| ANHYDROUS SIDE. | LB. | 0.15 | 100.00 | 15.00 | ----- |
| MACHINERY | ACRE | 2.05 | 1.00 | 2.05 | ----- |
| TRACTORS | ACRE | 6.57 | 1.00 | 6.57 | ----- |
| IRRIGATION MACHINERY | ACRE | 37.40 | 1.00 | 37.40 | ----- |
| LABOR(MACH & TRACT) | HOUR | 3.56 | 2.09 | 7.43 | ----- |
| LABOR(IRRIGATION) | HOUR | 3.83 | 0.22 | 0.84 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 49.30 | 6.90 | 3.64 @ 7 3/8% |
| SUBTOTAL, PRE-HARVEST | | | | 153.86 | 150.60 |
| HARVEST COSTS | | | | | |
| CUSTOM DRY X 1.0 | BU. | 0.36 | 163.00 | 58.68 | ----- |
| CUSTOM HAULING | BU. | 0.15 | 163.00 | 24.45 | ----- |
| MACHINERY | ACRE | 7.18 | 1.00 | 7.18 | ----- |
| TRACTORS | ACRE | 0.95 | 1.00 | 0.95 | ----- |
| LABOR(MACH & TRACT) | HOUR | 3.56 | 0.66 | 2.36 | ----- |
| SUBTOTAL, HARVEST | | | | 93.61 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 244.21 | | 24.42 |
| TOTAL VARIABLE COST | | | | 247.48 | 268.42 |
| INCOME ABOVE VARIABLE COSTS | | | | 208.52 | 187.37 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 8.07 | 1.00 | 8.07 | ----- |
| TRACTORS | ACRE | 5.66 | 1.00 | 5.66 | ----- |
| IRRIGATION MACHINERY | ACRE | 66.50 | 1.00 | 66.50 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 16.51 | 1.00 | 16.51 | ----- |
| TRACTORS | ACRE | 0.82 | 1.00 | 0.82 | ----- |
| OVERHEAD LABOR | ACRE | 10.96 | 1.00 | 10.96 | ----- |
| TOTAL FIXED COSTS | | | | 108.52 | ----- |
| TOTAL COSTS | | | | 355.99 | 377.15 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | 100.01 | 78.85 |

TABLE 56. ESTIMATED COSTS AND RETURNS PER ACRE, 6 ROW EQUIPMENT,
CORN FOR FEED GRAIN, NORTHWEST ARKANSAS, 1981.
DRYLAND.

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|-----------------------------------|------|-----------------------|----------|------------------|------------------|
| ===== | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| CORN | BU. | 3.04 | 50.00 | 152.00 | ----- |
| TOTAL | | | | 152.00 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| CORN KERNEL | LB. | 0.70 | 17.00 | 11.90 | ----- |
| CUST FERT APPL. | ACRE | 2.50 | 1.00 | 2.50 | ----- |
| N (UREA SOURCE) | LB. | 0.23 | 40.00 | 9.20 | ----- |
| PHOSPHATE | LB. | 0.27 | 80.00 | 21.60 | ----- |
| POTASH | LB. | 0.15 | 40.00 | 6.00 | ----- |
| ATRAZINE | QT. | 3.08 | 2.00 | 6.16 | ----- |
| ANHYDROUS SIDE. | LB. | 0.15 | 60.00 | 9.00 | ----- |
| MACHINERY | ACRE | 2.05 | 1.00 | 2.05 | ----- |
| TRACTORS | ACRE | 6.57 | 1.00 | 6.57 | ----- |
| LABOR(MACH & TRACT) | HOUR | 3.56 | 2.09 | 7.43 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 30.44 | 4.26 | 2.24 @ 7 3/8% |
| SUBTOTAL, PRE-HARVEST | | | | 86.68 | 84.66 |
| HARVEST COSTS | | | | | |
| CUSTOM DRY X .33 | BU. | 0.12 | 77.00 | 9.24 | ----- |
| CUSTOM HAULING | BU. | 0.15 | 77.00 | 11.55 | ----- |
| MACHINERY | ACRE | 7.18 | 1.00 | 7.18 | ----- |
| TRACTORS | ACRE | 0.95 | 1.00 | 0.95 | ----- |
| LABOR(MACH & TRACT) | HOUR | 3.56 | 0.66 | 2.36 | ----- |
| SUBTOTAL, HARVEST | | | | 31.27 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 115.93 | | 11.59 |
| TOTAL VARIABLE COST | | | | 117.95 | 127.52 |
| INCOME ABOVE VARIABLE COSTS | | | | 34.05 | 24.48 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 8.07 | 1.00 | 8.07 | ----- |
| TRACTORS | ACRE | 5.66 | 1.00 | 5.66 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 16.51 | 1.00 | 16.51 | ----- |
| TRACTORS | ACRE | 0.82 | 1.00 | 0.82 | ----- |
| OVERHEAD LABOR | ACRE | 10.09 | 1.00 | 10.09 | ----- |
| TOTAL FIXED COSTS | | | | 41.15 | ----- |
| TOTAL COSTS | | | | 159.10 | 168.67 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | -7.10 | -16.67 |
| ===== | | | | | |

TABLE 57. ESTIMATED COSTS AND RETURNS PER ACRE. A ROW EQUIPMENT,
 SOYBEANS, CENTER PIVOT IRRIGATED. WELL DRAINED UPLAND SOILS.
 NORTHWEST ARKANSAS. 1981. DOUBLE CROPPED WITH WHEAT.

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|-----------------------------------|------|-----------------------|----------|------------------|--------------------|
| ===== | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| SOYBEANS | BU. | 8.09 | 40.00 | 323.60 | ----- |
| TOTAL | | | | 323.60 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| SOYBEAN SEED | LB. | 0.23 | 30.00 | 6.90 | ----- |
| CAPT-MOLY TREAT | OZ. | 1.75 | 0.20 | 0.35 | ----- |
| CUST FERT APPL. | ACRE | 2.50 | 1.00 | 2.50 | ----- |
| TREFLAN | QT. | 11.00 | 1.00 | 11.00 | ----- |
| LIME | TON | 18.00 | 1.50 | 27.00 | ----- |
| FERTILIZER | LB. | 0.09 | 200.00 | 18.40 | ----- |
| MACHINERY | ACRE | 2.16 | 1.00 | 2.16 | ----- |
| TRACTORS | ACRE | 4.00 | 1.00 | 4.00 | ----- |
| IRRIGATION MACHINERY | ACRE | 54.23 | 1.00 | 54.23 | ----- |
| LABOR(MACH & TRACT) | HOUR | 3.56 | 1.27 | 4.52 | ----- |
| LABOR(IRRIGATION) | HOUR | 3.83 | 0.32 | 1.22 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 48.66 | 6.81 | ----- 3.59 @ 7 3/8 |
| SUBTOTAL, PRE-HARVEST | | | | 139.09 | ----- 135.87 |
| HARVEST COSTS | | | | | |
| CUSTOM HAULING | BU. | 0.15 | 40.00 | 6.00 | ----- |
| MACHINERY | ACRE | 3.70 | 1.00 | 3.70 | ----- |
| TRACTORS | ACRE | 0.95 | 1.00 | 0.95 | ----- |
| LABOR(MACH & TRACT) | HOUR | 3.56 | 0.54 | 1.91 | ----- |
| SUBTOTAL, HARVEST | | | | 12.55 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 148.42 | | ----- 14.84 |
| TOTAL VARIABLE COST | | | | 151.65 | ----- 163.26 |
| INCOME ABOVE VARIABLE COSTS | | | | 171.95 | ----- 160.34 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 6.83 | 1.00 | 6.83 | ----- |
| TRACTORS | ACRE | 3.44 | 1.00 | 3.44 | ----- |
| IRRIGATION MACHINERY | ACRE | 66.26 | 1.00 | 66.26 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 16.06 | 1.00 | 16.06 | ----- |
| TRACTORS | ACRE | 0.82 | 1.00 | 0.82 | ----- |
| OVERHEAD LABOR | ACRE | 7.88 | 1.00 | 7.88 | ----- |
| TOTAL FIXED COSTS | | | | 101.30 | ----- |
| TOTAL COSTS | | | | 252.94 | ----- 264.56 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | 70.66 | ----- 59.04 |
| ===== | | | | | |

APPENDIX B

TABLE 58. ESTIMATED COSTS AND RETURNS PER ACRE. 6 ROW EQUIPMENT, SOYBEANS, WELL DRAINED UPLAND SOILS, NONIRRIGATED, NORTHWEST ARKANSAS. 1981. DOUBLE CROPPED WITH WHEAT.

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|-----------------------------------|------|--------------------|----------|---------------|---------------|
| ----- | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| SOYBEANS | BU. | 8.09 | 22.00 | 177.98 | ----- |
| TOTAL | | | | 177.98 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| SOYBEAN SEED | LB. | 0.23 | 45.00 | 10.35 | ----- |
| CAPT-MOLY TREAT | OZ. | 1.75 | 0.20 | 0.35 | ----- |
| CUST FERT APPL. | ACRE | 2.50 | 1.00 | 2.50 | ----- |
| TREFLAN | QT. | 11.00 | 1.00 | 11.00 | ----- |
| LIME | TON | 18.00 | 1.50 | 27.00 | ----- |
| FERTILIZER | LB. | 0.09 | 200.00 | 18.40 | ----- |
| MACHINERY | ACRE | 2.16 | 1.00 | 2.16 | ----- |
| TRACTORS | ACRE | 3.84 | 1.00 | 3.84 | ----- |
| LABOR (MACH & TRACT) | HR | 3.56 | 1.22 | 4.34 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 36.16 | 5.06 | 2.67 @ 7 3/8% |
| SUBTOTAL, PRE-HARVEST | | | | 85.01 | 82.62 |
| HARVEST COSTS | | | | | |
| CUSTOM HAULING | BU. | 0.15 | 22.00 | 3.30 | ----- |
| MACHINERY | ACRE | 3.70 | 1.00 | 3.70 | ----- |
| TRACTORS | ACRE | 0.95 | 1.00 | 0.95 | ----- |
| LABOR (MACH & TRACT) | HR | 3.56 | 0.54 | 1.91 | ----- |
| SUBTOTAL, HARVEST | | | | 9.85 | 9.25 |
| MANAGEMENT CHARGE | DOL. | 0.10 | 92.47 | | 101.72 |
| TOTAL VARIABLE COST | | | | 94.86 | 101.72 |
| INCOME ABOVE VARIABLE COSTS | | | | 83.12 | 76.26 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 6.83 | 1.00 | 6.83 | ----- |
| TRACTORS | ACRE | 3.31 | 1.00 | 3.31 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 16.06 | 1.00 | 16.06 | ----- |
| TRACTORS | ACRE | 0.82 | 1.00 | 0.82 | ----- |
| OVERHEAD LABOR | ACRE | 6.44 | 1.00 | 6.44 | ----- |
| TOTAL FIXED COSTS | | | | 33.46 | ----- |
| TOTAL COSTS | | | | 128.31 | 135.18 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | 49.67 | 42.80 |
| ===== | | | | | |

APPENDIX B

TABLE 59. ESTIMATED COSTS AND RETURNS PER ACRE, 2 ROW EQUIPMENT,
WHEAT FOR GRAIN, EXCESSIVELY DRAINED
SANDY OR GRAVELLY UPLAND SOILS IN NORTHWEST
ARKANSAS, 1981.

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|-----------------------------------|-------|-----------------------|----------|------------------|------------------|
| ===== | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| WHEAT | RUS. | 4.17 | 40.00 | 166.80 | ----- |
| TOTAL | | | | 166.80 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| WHEAT SEED | LBS. | 0.16 | 100.00 | 16.00 | ----- |
| NITROGEN | LBS. | 0.23 | 150.00 | 34.50 | ----- |
| PHOSPHATE | LBS. | 0.27 | 60.00 | 16.20 | ----- |
| POTASH | LBS. | 0.15 | 60.00 | 9.00 | ----- |
| MACHINERY | ACRE | 1.51 | 1.00 | 1.51 | ----- |
| TRACTORS | ACRE | 6.45 | 1.00 | 6.45 | ----- |
| LABOR (MACH & TRACT) | HOURL | 3.56 | 2.06 | 7.33 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 48.29 | 6.76 | 3.56 @ 7 3/8% |
| SUBTOTAL, PRE-HARVEST | | | | 97.76 | 94.56 |
| HARVEST COSTS | | | | | |
| CUS WHEAT HARVES | ACRE | 20.00 | 1.00 | 20.00 | ----- |
| SUBTOTAL, HARVEST | | | | 20.00 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 114.56 | | 11.46 |
| TOTAL VARIABLE COST | | | | 117.76 | 126.02 |
| INCOME ABOVE VARIABLE COSTS | | | | 49.04 | 40.78 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 3.86 | 1.00 | 3.86 | ----- |
| TRACTORS | ACRE | 5.58 | 1.00 | 5.58 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 7.55 | 1.00 | 7.55 | ----- |
| TOTAL FIXED COSTS | | | | 17.00 | ----- |
| TOTAL COSTS | | | | 134.75 | 143.02 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | 32.05 | 23.78 |
| ===== | | | | | |

TABLE 60. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
 FESCUE FOR HAY - 180# N,
 WELL DRAINED UPLAND SOILS,
 NORTHWEST ARKANSAS, 1981, CENTER PIVOT.

| | | PRICE OR | | VALUE | YOUR |
|-----------------------------------|-------|-----------|----------|---------|---------------------|
| | UNIT | COST/UNIT | QUANTITY | OR COST | ESTIMATE |
| ===== | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| FESCUE | TONS | 50.20 | 5.00 | 251.00 | ----- |
| | | | | ----- | |
| TOTAL | | | | 251.00 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| NITROGEN | LBS. | 0.23 | 180.00 | 41.40 | ----- |
| PHOSPHATE | LBS. | 0.27 | 50.00 | 13.50 | ----- |
| POTASH | LBS. | 0.15 | 100.00 | 15.00 | ----- |
| AN. EST. CHARGE | ACRE | 5.78 | 1.00 | 5.78 | ----- |
| 2-4-D AMINE | GAL. | 12.00 | 0.30 | 3.60 | ----- |
| AN. LIME CHARGE | ACRE | 5.23 | 1.00 | 5.23 | ----- |
| HAYING & HAULING | TON | 27.70 | 6.50 | 180.05 | ----- |
| MACHINERY | ACRE | 0.67 | 1.00 | 0.67 | ----- |
| TRACTORS | ACRE | 3.98 | 1.00 | 3.98 | ----- |
| IRRIGATION MACHINERY | ACRE | 1.80 | 1.00 | 1.80 | ----- |
| LABOR (MACH & TRACT) | HOURL | 3.56 | 1.27 | 4.52 | ----- |
| LABOR (IRRIGATION) | HOURL | 3.83 | 0.22 | 0.84 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 134.64 | 18.86 | ----- 9.93 @ 7 3/8% |
| SUBTOTAL, PRE-HARVEST | | | | 295.24 | ----- 286.31 |
| HARVEST COSTS | | | | | |
| SUBTOTAL, HARVEST | | | | 0.0 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 286.31 | | ----- 28.63 |
| TOTAL VARIABLE COST | | | | 295.24 | ----- 314.94 |
| INCOME ABOVE VARIABLE COSTS | | | | - 44.24 | ----- 63.94 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 1.26 | 1.00 | 1.26 | ----- |
| TRACTORS | ACRE | 3.45 | 1.00 | 3.45 | ----- |
| IRRIGATION MACHINERY | ACRE | 66.50 | 1.00 | 66.50 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 5.53 | 1.00 | 5.53 | ----- |
| TOTAL FIXED COSTS | | | | 76.74 | ----- |
| TOTAL COSTS | | | | 371.98 | ----- 391.68 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | -120.98 | ----- -140.68 |
| ===== | | | | | |

APPENDIX B

TABLE B1. ESTIMATED COSTS AND RETURNS PER ACRE, 4 FOR EQUIPMENT,
FESCUE FOR HAY - 180# N,
WELL DRAINED UPLAND SOILS,
NORTHEAST ARKANSAS, 1961.

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|-----------------------------------|------|-----------------------|----------|------------------|------------------|
| ===== | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| FESCUE | TONS | 50.20 | 3.50 | 175.70 | ----- |
| | | | | ----- | |
| TOTAL | | | | 175.70 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| NITROGEN | LBS. | 0.23 | 180.00 | 41.40 | ----- |
| PHOSPHATE | LBS. | 0.27 | 50.00 | 13.50 | ----- |
| POTASH | LBS. | 0.15 | 100.00 | 15.00 | ----- |
| AN. EST. CHARGE | ACRE | 5.78 | 1.00 | 5.78 | ----- |
| 2-4-D AMINE | GAL. | 12.00 | 0.30 | 3.60 | ----- |
| AN. LIME CHARGE | ACRE | 5.23 | 1.00 | 5.23 | ----- |
| MACHINERY | ACRE | 0.67 | 1.00 | 0.67 | ----- |
| TRACTORS | ACRE | 3.98 | 1.00 | 3.98 | ----- |
| LABOR (MACH & TRACT) | HR | 3.56 | 1.27 | 4.53 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 43.87 | 6.14 | ----- |
| | | | | ----- | 3.23 @ 7 3/8% |
| SUBTOTAL, PRE-HARVEST | | | | 99.83 | ----- |
| | | | | | 96.92 |
| HARVEST COSTS | | | | | |
| HAYING & HAULING | TON | 27.70 | 3.50 | 96.95 | ----- |
| | | | | ----- | |
| SUBTOTAL, HARVEST | | | | 96.95 | ----- |
| MANAGEMENT CHARGE | DOL | 0.10 | 193.87 | | ----- |
| | | | | | 19.39 |
| TOTAL VARIABLE COST | | | | 196.78 | ----- |
| | | | | | 213.26 |
| INCOME ABOVE VARIABLE COSTS | | | | -21.08 | ----- |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 1.26 | 1.00 | 1.26 | ----- |
| TRACTORS | ACRE | 3.45 | 1.00 | 3.45 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 4.56 | 1.00 | 4.56 | ----- |
| | | | | ----- | |
| TOTAL FIXED COSTS | | | | 9.37 | ----- |
| TOTAL COSTS | | | | 206.15 | ----- |
| | | | | | 222.63 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | -30.46 | ----- |
| | | | | | - 46.93 |
| ===== | | | | | |

APPENDIX B

TABLE 62. ESTIMATED COSTS AND RETURNS PER ACRE. 4 ROW EQUIPMENT.
BERMUDAGRASS FOR HAY, EXCESSIVELY DRAINED
SANDY OR GRAVELLY UPLAND SOILS - 400# N
NORTHWEST ARKANSAS, 1981.

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|-----------------------------------|-------|-----------------------|----------|------------------|------------------|
| ===== | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| HAY | TON | 50.20 | 9.00 | 451.80 | ----- |
| | | | | ----- | |
| TOTAL | | | | 451.80 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| NITROGEN | LBS. | 0.23 | 400.00 | 92.00 | ----- |
| PHOSPHATE | LBS. | 0.27 | 80.00 | 21.60 | ----- |
| POTASH | LBS. | 0.15 | 360.00 | 54.00 | ----- |
| AN. EST. CHARGE | ACRE | 8.06 | 1.00 | 8.06 | ----- |
| AN. LIME CHARGE | ACRE | 7.85 | 1.00 | 7.85 | ----- |
| MACHINERY | ACRE | 1.23 | 1.00 | 1.23 | ----- |
| TRACTORS | ACRE | 4.60 | 1.00 | 4.60 | ----- |
| IRRIGATION MACHINERY | ACRE | 48.62 | 1.00 | 48.62 | ----- |
| LABOR (MACH & TRACT) | HOURL | 3.56 | 1.47 | 5.23 | ----- |
| LABOR (IRRIGATION) | HOURL | 3.83 | 0.29 | 1.10 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 77.87 | 10.90 | 5.74 @ 7 3/8% |
| SUBTOTAL, PRE-HARVEST | | | | 255.18 | 250.02 |
| HARVEST COSTS | | | | | |
| HAYING & HAULING | TON | 27.70 | 9.00 | 249.30 | ----- |
| SUBTOTAL, HARVEST | | | | 249.30 | ----- |
| MANAGEMENT CHARGE | DOL. | 0.10 | 499.32 | | 49.93 |
| TOTAL VARIABLE COST | | | | 504.48 | 549.25 |
| INCOME ABOVE VARIABLE COSTS | | | | -52.68 | -97.45 |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 1.90 | 1.00 | 1.90 | ----- |
| TRACTORS | ACRE | 3.98 | 1.00 | 3.98 | ----- |
| IRRIGATION MACHINERY | ACRE | 66.56 | 1.00 | 66.56 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 6.51 | 1.00 | 6.51 | ----- |
| TOTAL FIXED COSTS | | | | 78.95 | ----- |
| TOTAL COSTS | | | | 583.43 | 628.20 |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | -131.63 | -176.40 |
| ===== | | | | | |

APPENDIX B

TABLE 63. ESTIMATED COSTS AND RETURNS PER ACRE. 4 ROW EQUIPMENT.
BERMUDAGRASS FOR HAY. EXCESSIVELY DRAINED
SANDY OR GRAVELLY UPLAND SOILS - 400# N
NORTHWEST ARKANSAS, 1981.

| | UNIT | PRICE OR COST/UNIT | QUANTITY | VALUE OR COST | YOUR ESTIMATE |
|-----------------------------------|------|-----------------------|----------|------------------|------------------|
| ===== | | | | | |
| GROSS RECEIPTS FROM PRODUCTION | | | | | |
| HAY | TON | 50.20 | 4.50 | 225.90 | ----- |
| | | | | <u>225.90</u> | ----- |
| TOTAL | | | | | |
| | | | | 225.90 | ----- |
| VARIABLE COSTS | | | | | |
| PRE-HARVEST | | | | | |
| NITROGEN | LBS. | 0.23 | 400.00 | 92.00 | ----- |
| PHOSPHATE | LBS. | 0.27 | 80.00 | 21.60 | ----- |
| POTASH | LBS. | 0.15 | 360.00 | 54.00 | ----- |
| AN. EST. CHARGE | ACRE | 8.06 | 1.00 | 8.06 | ----- |
| AN. LIME CHARGE | ACRE | 7.85 | 1.00 | 7.85 | ----- |
| MACHINERY | ACRE | 1.23 | 1.00 | 1.23 | ----- |
| TRACTORS | ACRE | 4.60 | 1.00 | 4.60 | ----- |
| LABOR (MACH & TRACT) | HOUR | 3.56 | 1.47 | 5.23 | ----- |
| INTEREST ON OP. CAP. | DOL. | 0.14 | 69.93 | 9.79 | 5.15 @ 7 3/8% |
| | | | | <u>204.35</u> | <u>199.71</u> |
| SUBTOTAL, PRE-HARVEST | | | | | |
| HARVEST COSTS | | | | | |
| HAYING & HAULING | TON | 27.70 | 4.50 | 124.65 | ----- |
| | | | | <u>124.65</u> | ----- |
| SUBTOTAL, HARVEST | | | | | |
| MANAGEMENT CHARGE | DOL. | 0.10 | 324.36 | | <u>32.44</u> |
| | | | | 324.00 | <u>356.80</u> |
| TOTAL VARIABLE COST | | | | | |
| | | | | <u>-103.10</u> | <u>-120.90</u> |
| INCOME ABOVE VARIABLE COSTS | | | | | |
| ===== | | | | | |
| FIXED COSTS | | | | | |
| PRE-HARVEST | | | | | |
| MACHINERY | ACRE | 1.90 | 1.00 | 1.90 | ----- |
| TRACTORS | ACRE | 3.98 | 1.00 | 3.98 | ----- |
| HARVEST | | | | | |
| MACHINERY | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| TRACTORS | ACRE | 0.0 | 1.00 | 0.0 | ----- |
| OVERHEAD LABOR | ACRE | 5.38 | 1.00 | 5.38 | ----- |
| | | | | <u>11.26</u> | ----- |
| TOTAL FIXED COSTS | | | | | |
| | | | | 340.27 | <u>368.06</u> |
| TOTAL COSTS | | | | | |
| | | | | <u>-114.37</u> | <u>-142.16</u> |
| NET RETURNS ABOVE SPECIFIED COSTS | | | | | |
| ===== | | | | | |

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FEASIBILITY STUDY FOR A
BEAVER RESERVIOR
AGRICULTURAL WATER SUPPLY

VOLUME II

APPENDIX C

1a: Annual Irrigated Water balance for Alfalfa; Sprinkler

IRRIGATION SEASON FROM DAY 91 TO DAY 273

ASSUMES ACTUAL EVAPOTRANSPIRATION IS 80% OF PET

ASSUMES FIELD IS AT FIELD CAPACITY ON STARTING DAY

CROP IS ALFALFA

AVAILABLE SOIL MOISTURE IS 6.0INCHES

IRRIGATION INITIATED WHEN 50% OF AVAIL. MOIST. IS DEPLETED

| MONTHS: | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | TOT |
|-----------------|-----|------|------|-----|-----|------|-----|-----|------|
| ET: | 0.0 | 2.3 | 4.2 | 5.5 | 6.6 | 6.6 | 5.4 | 0.0 | 30.7 |
| 1940 PPT: | 0.0 | 6.6 | 1.5 | 6.0 | 0.9 | 5.7 | 7.8 | 0.0 | 28.5 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.2 | 6.1 | 0.0 | 3.1 | 0.0 | 12.4 |
| NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 0 | 1 | 0 | 4 |
| 1941 PPT: | 0.0 | 8.6 | 0.7 | 4.2 | 2.2 | 4.7 | 3.8 | 0.0 | 24.3 |
| IRRIGATION AMT: | 0.0 | 0.0 | 3.1 | 3.1 | 3.1 | 3.2 | 0.0 | 0.0 | 12.4 |
| NUMBER OF IRR : | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 4 |
| 1942 PPT: | 0.0 | 7.1 | 6.0 | 6.8 | 2.1 | 7.0 | 4.4 | 0.0 | 33.4 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 6.2 | 0.0 | 3.1 | 0.0 | 9.3 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 3 |
| 1943 PPT: | 0.0 | 2.9 | 15.0 | 4.9 | 0.3 | 0.8 | 3.8 | 0.0 | 27.8 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 6.0 | 6.4 | 3.1 | 0.0 | 15.5 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 0 | 5 |
| 1944 PPT: | 0.0 | 5.2 | 5.5 | 7.2 | 2.2 | 6.4 | 2.0 | 0.0 | 28.6 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 6.2 | 0.0 | 3.2 | 0.0 | 9.4 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 3 |
| 1945 PPT: | 0.0 | 10.9 | 4.5 | 6.7 | 6.2 | 2.4 | 9.6 | 0.0 | 40.3 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 3.1 | 3.2 | 0.0 | 9.4 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 3 |
| 1946 PPT: | 0.0 | 3.7 | 10.2 | 5.3 | 3.3 | 0.7 | 1.5 | 0.0 | 24.7 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.1 | 3.1 | 6.4 | 3.0 | 0.0 | 15.6 |
| NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 0 | 5 |
| 1947 PPT: | 0.0 | 7.0 | 7.1 | 6.5 | 2.2 | 0.9 | 4.2 | 0.0 | 27.8 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 6.1 | 3.1 | 0.0 | 12.2 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 4 |
| 1948 PPT: | 0.0 | 1.6 | 5.1 | 8.3 | 4.5 | 10.4 | 0.3 | 0.0 | 30.2 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.1 | 0.0 | 6.2 | 3.1 | 0.0 | 12.4 |
| NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 2 | 1 | 0 | 4 |

1a continued

| | | | | | | | | | | |
|------|-----------------|-----|------|------|------|------|-----|-----|-----|------|
| 1949 | PPT: | 0.0 | 1.8 | 9.2 | 4.8 | 4.2 | 1.0 | 6.7 | 0.0 | 27.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 6.2 | 6.3 | 0.0 | 0.0 | 12.5 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 4 |
| 1950 | PPT: | 0.0 | 4.5 | 14.4 | 4.0 | 7.5 | 4.9 | 3.0 | 0.0 | 38.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 3.2 | 0.0 | 0.0 | 6.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| 1951 | PPT: | 0.0 | 3.0 | 2.5 | 10.6 | 1.7 | 1.9 | 4.5 | 0.0 | 24.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.2 | 6.2 | 0.0 | 0.0 | 9.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 3 |
| 1952 | PPT: | 0.0 | 4.6 | 4.7 | 0.6 | 2.8 | 7.5 | 0.3 | 0.0 | 20.5 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.1 | 6.3 | 3.2 | 6.2 | 0.0 | 18.7 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 1 | 2 | 0 | 6 |
| 1953 | PPT: | 0.0 | 7.1 | 5.0 | 0.1 | 2.5 | 3.3 | 1.2 | 0.0 | 19.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 6.3 | 3.1 | 3.0 | 6.2 | 0.0 | 18.6 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 2 | 1 | 1 | 2 | 0 | 6 |
| 1954 | PPT: | 0.0 | 4.1 | 3.7 | 2.7 | 0.5 | 1.8 | 4.2 | 0.0 | 17.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.1 | 6.1 | 6.3 | 3.1 | 0.0 | 18.6 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 2 | 1 | 0 | 6 |
| 1955 | PPT: | 0.0 | 2.8 | 6.3 | 6.0 | 2.3 | 3.5 | 4.1 | 0.0 | 25.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 3.2 | 6.2 | 0.0 | 12.5 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 4 |
| 1956 | PPT: | 0.0 | 4.1 | 6.7 | 5.4 | 3.9 | 2.3 | 0.6 | 0.0 | 23.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 3.1 | 6.1 | 0.0 | 12.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 4 |
| 1957 | PPT: | 0.0 | 11.2 | 11.6 | 6.7 | 1.9 | 5.3 | 6.2 | 0.0 | 43.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.2 | 3.0 | 0.0 | 0.0 | 6.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| 1958 | PPT: | 0.0 | 2.8 | 4.0 | 6.2 | 12.3 | 2.6 | 4.3 | 0.0 | 32.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.0 | 0.0 | 3.1 | 3.1 | 0.0 | 9.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 3 |
| 1959 | PPT: | 0.0 | 3.7 | 4.2 | 3.3 | 6.6 | 2.2 | 3.5 | 0.0 | 23.5 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.1 | 3.0 | 3.1 | 6.2 | 0.0 | 15.5 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 0 | 5 |
| 1960 | PPT: | 0.0 | 3.2 | 8.1 | 1.5 | 14.0 | 1.3 | 2.0 | 0.0 | 30.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.0 | 3.0 | 6.2 | 3.1 | 0.0 | 15.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 0 | 5 |
| 1961 | PPT: | 0.0 | 2.1 | 14.2 | 4.3 | 7.4 | 6.3 | 5.6 | 0.0 | 39.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 3.2 | 3.1 | 0.0 | 9.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 3 |
| 1962 | PPT: | 0.0 | 4.5 | 5.7 | 6.2 | 3.3 | 5.8 | 8.1 | 0.0 | 33.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.2 | 3.1 | 0.0 | 0.0 | 6.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |

1a continued

| | | | | | | | | | | |
|-----------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1963 | PPT: | 0.0 | 1.7 | 3.8 | 2.4 | 2.8 | 4.1 | 1.2 | 0.0 | 16.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 3.0 | 3.0 | 3.1 | 3.0 | 6.2 | 0.0 | 18.4 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 0 | 6 |
| 1964 | PPT: | 0.0 | 3.3 | 3.5 | 5.3 | 0.5 | 9.6 | 4.0 | 0.0 | 26.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.1 | 6.2 | 3.0 | 3.0 | 0.0 | 15.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 1 | 1 | 0 | 5 |
| 1965 | PPT: | 0.0 | 6.0 | 3.8 | 7.1 | 1.7 | 6.4 | 3.0 | 0.0 | 28.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 6.4 | 0.0 | 0.0 | 9.5 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 3 |
| 1966 | PPT: | 0.0 | 5.9 | 2.8 | 2.6 | 3.3 | 5.1 | 0.9 | 0.0 | 20.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.0 | 3.1 | 3.2 | 6.1 | 0.0 | 15.5 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 0 | 5 |
| 1967 | PPT: | 0.0 | 5.0 | 4.3 | 6.1 | 2.4 | 0.7 | 2.4 | 0.0 | 20.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.1 | 3.1 | 6.4 | 3.0 | 0.0 | 15.6 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 0 | 5 |
| 1968 | PPT: | 0.0 | 3.7 | 5.7 | 4.0 | 2.9 | 3.9 | 4.0 | 0.0 | 24.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.0 | 3.1 | 3.1 | 3.1 | 0.0 | 12.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 4 |
| 1969 | PPT: | 0.0 | 3.7 | 7.1 | 3.6 | 1.2 | 1.2 | 2.2 | 0.0 | 19.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 6.2 | 6.1 | 3.1 | 0.0 | 15.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 0 | 5 |
| 1970 | PPT: | 0.0 | 7.7 | 0.9 | 2.9 | 0.8 | 1.2 | 9.9 | 0.0 | 23.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 3.1 | 3.1 | 6.2 | 3.1 | 0.0 | 0.0 | 15.6 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 2 | 1 | 0 | 0 | 5 |
| 1971 | PPT: | 0.0 | 3.5 | 4.1 | 3.0 | 3.2 | 1.6 | 3.6 | 0.0 | 19.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.1 | 3.1 | 6.1 | 0.0 | 0.0 | 12.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 4 |
| 1972 | PPT: | 0.0 | 5.3 | 2.2 | 2.5 | 7.1 | 2.1 | 7.0 | 0.0 | 26.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 3.1 | 3.0 | 3.1 | 3.0 | 3.0 | 0.0 | 15.3 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 5 |
| 1973 | PPT: | 0.0 | 8.0 | 7.2 | 6.0 | 1.2 | 2.1 | 6.9 | 0.0 | 31.5 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 6.2 | 3.2 | 0.0 | 0.0 | 9.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 3 |
| 1974 | PPT: | 0.0 | 6.8 | 5.4 | 7.1 | 1.1 | 6.3 | 7.9 | 0.0 | 34.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.1 | 3.0 | 3.1 | 0.0 | 0.0 | 9.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 3 |
| AVERAGE PPT. : | | 0.0 | 5.0 | 5.9 | 4.9 | 3.5 | 3.8 | 4.1 | 0.0 | 27.2 |
| AVE IRRIG AMT : | | 0.0 | 0.0 | 0.4 | 1.8 | 3.9 | 3.9 | 2.7 | 0.0 | 12.7 |
| AVE NO OF IRR : | | 0.0 | 0.0 | 0.1 | 0.6 | 1.3 | 1.3 | 0.9 | 0.0 | 4.1 |
| TIME 2.3 SECS. | | | | | | | | | | |

1b: Annual Irrigated Water Balance for Fescue, Spring; Sprinkler

IRRIGATION SEASON FROM DAY 65 TO DAY 166

ASSUMES ACTUAL EVAPOTRANSPIRATION IS 80% OF PET

ASSUMES FIELD IS AT FIELD CAPACITY ON STARTING DAY

CROP IS FESCUE SPR

AVAILABLE SOIL MOISTURE IS 4.0 INCHES

IRRIGATION INITIATED WHEN 50% OF AVAIL. MOIST. REMAINS

| MONTHS: | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | TOT |
|-----------------|-----|------|------|-----|-----|-----|-----|-----|------|
| ET: | 0.6 | 2.3 | 4.2 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 9.7 |
| 1940 PPT: | 1.9 | 6.6 | 1.5 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 12.2 |
| IRRIGATION AMT: | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 |
| NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1941 PPT: | 0.5 | 8.6 | 0.7 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 14.0 |
| IRRIGATION AMT: | 0.0 | 0.0 | 2.0 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 4.1 |
| NUMBER OF IRR : | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 2 |
| 1942 PPT: | 0.8 | 7.1 | 6.0 | 5.8 | 0.0 | 0.0 | 0.0 | 0.0 | 19.7 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 |
| NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 1943 PPT: | 3.4 | 2.9 | 15.0 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 22.8 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1944 PPT: | 5.9 | 5.2 | 5.5 | 6.8 | 0.0 | 0.0 | 0.0 | 0.0 | 23.4 |
| IRRIGATION AMT: | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 |
| NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1945 PPT: | 8.3 | 10.9 | 4.5 | 4.8 | 0.0 | 0.0 | 0.0 | 0.0 | 28.5 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 |
| NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 1946 PPT: | 2.3 | 3.7 | 10.2 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 16.3 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 |
| NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 1947 PPT: | 1.2 | 7.0 | 7.1 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 19.5 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1948 PPT: | 3.2 | 1.6 | 5.1 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 11.1 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 |
| NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |

1b continued

| | | | | | | | | | | |
|------|-----------------|-----|------|------|-----|-----|-----|-----|-----|------|
| 1949 | PPT: | 2.5 | 1.8 | 9.2 | 4.1 | 0.0 | 0.0 | 0.0 | 0.0 | 17.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1950 | PPT: | 1.6 | 4.5 | 14.4 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 23.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1951 | PPT: | 2.0 | 3.0 | 2.5 | 5.4 | 0.0 | 0.0 | 0.0 | 0.0 | 12.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1952 | PPT: | 2.1 | 4.6 | 4.7 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 12.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.0 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 2 |
| 1953 | PPT: | 5.6 | 7.1 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 17.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| 1954 | PPT: | 2.2 | 4.1 | 3.7 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 11.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 4.1 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 2 |
| 1955 | PPT: | 3.7 | 2.8 | 6.3 | 4.1 | 0.0 | 0.0 | 0.0 | 0.0 | 17.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1956 | PPT: | 1.8 | 4.1 | 6.7 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 14.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1957 | PPT: | 3.0 | 11.2 | 11.6 | 4.8 | 0.0 | 0.0 | 0.0 | 0.0 | 30.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1958 | PPT: | 4.4 | 2.8 | 4.0 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 11.5 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.0 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 4.1 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 2 |
| 1959 | PPT: | 1.1 | 3.7 | 4.2 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 12.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1960 | PPT: | 1.5 | 3.2 | 8.1 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 13.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 1961 | PPT: | 2.8 | 2.1 | 14.2 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 22.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1962 | PPT: | 1.7 | 4.5 | 5.7 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 14.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |

1b continued

| | | | | | | | | | | |
|-----------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1963 | PPT: | 1.0 | 1.7 | 3.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 2 |
| 1964 | PPT: | 2.3 | 3.3 | 3.5 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 10.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1965 | PPT: | 1.1 | 6.0 | 3.8 | 5.1 | 0.0 | 0.0 | 0.0 | 0.0 | 15.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 1966 | PPT: | 1.6 | 5.9 | 2.8 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 12.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 1967 | PPT: | 1.0 | 5.0 | 4.3 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 12.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 1968 | PPT: | 5.6 | 3.7 | 5.7 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 16.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1969 | PPT: | 2.6 | 3.7 | 7.1 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 16.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1970 | PPT: | 1.9 | 7.7 | 0.9 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 13.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1971 | PPT: | 0.5 | 3.5 | 4.1 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 8.7 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 1972 | PPT: | 1.4 | 5.3 | 2.2 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 9.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.0 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 4.1 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 2 |
| 1973 | PPT: | 6.7 | 8.0 | 7.2 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 | 24.7 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1974 | PPT: | 4.0 | 6.8 | 5.4 | 7.1 | 0.0 | 0.0 | 0.0 | 0.0 | 23.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AVERAGE PPT. : | | 2.7 | 5.0 | 5.9 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 16.3 |
| AVE IRRIG AMT : | | 0.0 | 0.0 | 0.7 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 |
| AVE NO OF IRR : | | 0.0 | 0.0 | 0.3 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 |
| TIME 1.8 SECS. | | | | | | | | | | |

1c: Annual Irrigated Water Balance for Fescue, Fall; Sprinkler

IRRIGATION SEASON FROM DAY 227 TO DAY 304

ASSUMES ACTUAL EVAPOTRANSPIRATION IS 80% OF PET

ASSUMES FIELD IS AT FIELD CAPACITY ON STARTING DAY

CROP IS FESCUE FAL

AVAILABLE SOIL MOISTURE IS 4.0INCHES

IRRIGATION INITIATED WHEN 50% OF AVAIL. MOIST. REMAINS

| MONTHS: | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | TOT |
|-----------------|-----|-----|-----|-----|-----|-----|-----|------|------|
| ET: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.6 | 5.4 | 3.1 | 12.0 |
| 1940 PPT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.4 | 7.8 | 1.8 | 13.0 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 2.1 | 4.1 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 |
| 1941 PPT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 3.8 | 13.0 | 19.3 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 2.1 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 1942 PPT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.8 | 4.4 | 6.5 | 13.7 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 2.1 | 0.0 | 4.2 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 |
| 1943 PPT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.8 | 4.7 | 8.5 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 2.1 | 0.0 | 4.3 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 |
| 1944 PPT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 2.0 | 3.6 | 8.7 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 | 2.0 | 6.2 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 3 |
| 1945 PPT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 9.6 | 2.8 | 13.4 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 | 2.2 | 0.0 | 4.4 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 |
| 1946 PPT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 1.5 | 2.0 | 3.6 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 4.1 | 2.0 | 8.3 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 4 |
| 1947 PPT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 4.2 | 3.9 | 9.0 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 2.0 | 2.1 | 6.2 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 3 |
| 1948 PPT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.3 | 1.4 | 2.3 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 4.1 | 2.1 | 8.3 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 4 |

1c continued

| | | | | | | | | | | |
|------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1949 | PPT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.7 | 3.7 | 10.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 2.0 | 2.1 | 6.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 3 |
| 1950 | PPT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 3.0 | 1.1 | 6.7 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 | 2.0 | 2.1 | 6.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 3 |
| 1951 | PPT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 4.5 | 6.6 | 11.7 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 | 2.1 | 2.1 | 6.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 3 |
| 1952 | PPT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.6 | 0.3 | 0.5 | 6.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.2 | 2.1 | 8.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 4 |
| 1953 | PPT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 1.2 | 2.7 | 7.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 4.1 | 0.0 | 6.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 3 |
| 1954 | PPT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 4.2 | 6.3 | 11.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 | 4.2 | 0.0 | 6.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 3 |
| 1955 | PPT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 4.1 | 0.7 | 6.5 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 4.3 | 2.0 | 8.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 4 |
| 1956 | PPT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 0.6 | 1.9 | 3.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 4.2 | 2.1 | 8.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 4 |
| 1957 | PPT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.9 | 6.2 | 2.3 | 11.5 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 2.1 | 4.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 |
| 1958 | PPT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 4.3 | 0.9 | 5.7 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 2.1 | 2.0 | 6.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 3 |
| 1959 | PPT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 3.5 | 4.5 | 10.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 4.3 | 0.0 | 6.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 3 |
| 1960 | PPT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 2.0 | 2.0 | 5.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 2.2 | 2.1 | 6.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 3 |
| 1961 | PPT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 5.6 | 2.7 | 9.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 | 2.0 | 0.0 | 4.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 |
| 1962 | PPT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 8.1 | 6.8 | 16.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 | 0.0 | 0.0 | 2.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |

1c continued

| | | | | | | | | | | |
|-----------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1963 | PPT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 1.2 | 0.0 | 2.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 | 4.1 | 2.1 | 8.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 4 |
| 1964 | PPT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.3 | 4.0 | 0.3 | 9.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 2.0 | 4.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 |
| 1965 | PPT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.3 | 3.0 | 1.1 | 10.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 2.1 | 4.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 |
| 1966 | PPT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.7 | 0.9 | 0.6 | 4.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.4 | 2.0 | 8.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 4 |
| 1967 | PPT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 2.4 | 8.1 | 10.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 4.2 | 0.0 | 6.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 3 |
| 1968 | PPT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 4.0 | 1.5 | 6.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 2.1 | 2.0 | 6.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 3 |
| 1969 | PPT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 2.2 | 9.4 | 12.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 | 2.0 | 2.1 | 6.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 3 |
| 1970 | PPT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 9.9 | 7.8 | 18.7 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 2.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 1971 | PPT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 3.6 | 2.9 | 6.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 | 2.2 | 0.0 | 4.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 |
| 1972 | PPT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 7.0 | 5.8 | 14.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 2.1 | 0.0 | 4.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 |
| 1973 | PPT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 6.9 | 5.5 | 13.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 2.2 | 0.0 | 4.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 |
| 1974 | PPT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 7.9 | 3.7 | 14.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 2.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| AVERAGE PPT. : | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 4.1 | 3.7 | 9.6 |
| AVE IRRIG AMT : | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 2.7 | 1.2 | 5.6 |
| AVE NO OF IRR : | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 1.3 | 0.6 | 2.7 |
| TIME 1.7 SECS. | | | | | | | | | | |

ld: Annual Irrigated Water Balance for Bermuda Grass; Sprinkler

IRRIGATION SEASON FROM DAY 152 TO DAY 244

ASSUMES ACTUAL EVAPOTRANSPIRATION IS 80% OF PET

ASSUMES FIELD IS AT FIELD CAPACITY ON STARTING DAY

CROP IS BERMUDA GR

AVAILABLE SOIL MOISTURE IS 6.0 INCHES

IRRIGATION INITIATED WHEN 50% OF AVAIL. MOIST. REMAINS

| MONTHS: | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | TOT |
|-----------------|-----|-----|-----|-----|-----|------|-----|-----|------|
| ET: | 0.0 | 0.0 | 0.0 | 5.5 | 6.6 | 6.6 | 0.2 | 0.0 | 19.0 |
| 1940 PPT: | 0.0 | 0.0 | 0.0 | 6.0 | 0.9 | 5.7 | 0.0 | 0.0 | 12.6 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 6.1 | 0.0 | 0.0 | 0.0 | 6.1 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 |
| 1941 PPT: | 0.0 | 0.0 | 0.0 | 4.2 | 2.2 | 4.7 | 0.0 | 0.0 | 11.2 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.1 | 3.1 | 3.2 | 0.0 | 0.0 | 9.4 |
| NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 3 |
| 1942 PPT: | 0.0 | 0.0 | 0.0 | 6.8 | 2.1 | 7.0 | 0.0 | 0.0 | 15.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 6.2 | 0.0 | 0.0 | 0.0 | 6.2 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 |
| 1943 PPT: | 0.0 | 0.0 | 0.0 | 4.9 | 0.3 | 0.8 | 0.1 | 0.0 | 6.1 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 6.0 | 6.4 | 0.0 | 0.0 | 12.4 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 4 |
| 1944 PPT: | 0.0 | 0.0 | 0.0 | 7.2 | 2.2 | 6.4 | 0.0 | 0.0 | 15.8 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 6.2 | 0.0 | 0.0 | 0.0 | 6.2 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 |
| 1945 PPT: | 0.0 | 0.0 | 0.0 | 6.7 | 6.2 | 2.4 | 0.0 | 0.0 | 15.3 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 3.1 | 0.0 | 0.0 | 6.2 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| 1946 PPT: | 0.0 | 0.0 | 0.0 | 5.3 | 3.3 | 0.7 | 0.0 | 0.0 | 9.3 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.0 | 3.1 | 6.4 | 0.0 | 0.0 | 12.5 |
| NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 4 |
| 1947 PPT: | 0.0 | 0.0 | 0.0 | 6.5 | 2.2 | 0.9 | 0.0 | 0.0 | 9.6 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 6.1 | 0.0 | 0.0 | 9.2 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 3 |
| 1948 PPT: | 0.0 | 0.0 | 0.0 | 8.3 | 4.5 | 10.4 | 0.0 | 0.0 | 23.2 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.2 | 0.0 | 0.0 | 6.2 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 |

ld continued

| | | | | | | | | | | |
|------|-----------------|-----|-----|-----|------|------|-----|-----|-----|------|
| 1949 | PPT: | 0.0 | 0.0 | 0.0 | 4.8 | 4.2 | 1.0 | 0.0 | 0.0 | 10.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 6.2 | 6.3 | 0.0 | 0.0 | 12.5 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 4 |
| 1950 | PPT: | 0.0 | 0.0 | 0.0 | 4.0 | 7.5 | 4.9 | 0.0 | 0.0 | 16.5 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 3.2 | 0.0 | 0.0 | 6.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| 1951 | PPT: | 0.0 | 0.0 | 0.0 | 10.6 | 1.7 | 1.9 | 0.0 | 0.0 | 14.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.2 | 6.2 | 0.0 | 0.0 | 9.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 3 |
| 1952 | PPT: | 0.0 | 0.0 | 0.0 | 0.6 | 2.8 | 7.5 | 0.0 | 0.0 | 10.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.2 | 3.1 | 3.1 | 0.0 | 0.0 | 9.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 3 |
| 1953 | PPT: | 0.0 | 0.0 | 0.0 | 0.1 | 2.5 | 3.3 | 0.0 | 0.0 | 6.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.1 | 6.0 | 3.2 | 0.0 | 0.0 | 12.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 4 |
| 1954 | PPT: | 0.0 | 0.0 | 0.0 | 2.7 | 0.5 | 1.8 | 0.0 | 0.0 | 5.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.1 | 3.1 | 6.2 | 0.0 | 0.0 | 12.5 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 4 |
| 1955 | PPT: | 0.0 | 0.0 | 0.0 | 6.0 | 2.3 | 3.5 | 0.0 | 0.0 | 11.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 3.2 | 0.0 | 0.0 | 6.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| 1956 | PPT: | 0.0 | 0.0 | 0.0 | 5.4 | 3.9 | 2.3 | 0.0 | 0.0 | 11.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.2 | 3.1 | 0.0 | 0.0 | 6.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| 1957 | PPT: | 0.0 | 0.0 | 0.0 | 6.7 | 1.9 | 5.3 | 0.2 | 0.0 | 14.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.2 | 3.0 | 0.0 | 0.0 | 6.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| 1958 | PPT: | 0.0 | 0.0 | 0.0 | 6.2 | 12.3 | 2.6 | 0.1 | 0.0 | 21.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 0.0 | 0.0 | 3.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 1959 | PPT: | 0.0 | 0.0 | 0.0 | 3.3 | 6.6 | 2.2 | 0.0 | 0.0 | 12.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.1 | 3.0 | 3.1 | 0.0 | 0.0 | 9.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 3 |
| 1960 | PPT: | 0.0 | 0.0 | 0.0 | 1.5 | 14.0 | 1.3 | 0.0 | 0.0 | 16.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.1 | 3.2 | 6.2 | 0.0 | 0.0 | 12.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 4 |
| 1961 | PPT: | 0.0 | 0.0 | 0.0 | 4.3 | 7.4 | 6.3 | 0.0 | 0.0 | 18.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 3.2 | 0.0 | 0.0 | 6.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| 1962 | PPT: | 0.0 | 0.0 | 0.0 | 6.2 | 3.3 | 5.8 | 0.1 | 0.0 | 15.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.2 | 3.1 | 0.0 | 0.0 | 6.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |

ld continued

| | | | | | | | | | | |
|-----------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1963 | PPT: | 0.0 | 0.0 | 0.0 | 2.4 | 2.8 | 4.1 | 0.0 | 0.0 | 9.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.1 | 3.1 | 3.0 | 3.2 | 0.0 | 12.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 4 |
| 1964 | PPT: | 0.0 | 0.0 | 0.0 | 5.3 | 0.5 | 9.6 | 0.0 | 0.0 | 15.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 6.2 | 3.0 | 0.0 | 0.0 | 9.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 3 |
| 1965 | PPT: | 0.0 | 0.0 | 0.0 | 7.1 | 1.7 | 6.4 | 0.5 | 0.0 | 15.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 6.4 | 0.0 | 0.0 | 9.5 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 3 |
| 1966 | PPT: | 0.0 | 0.0 | 0.0 | 2.6 | 3.3 | 5.1 | 0.0 | 0.0 | 11.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.2 | 3.2 | 3.2 | 0.0 | 0.0 | 9.6 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 3 |
| 1967 | PPT: | 0.0 | 0.0 | 0.0 | 6.1 | 2.4 | 0.7 | 0.0 | 0.0 | 9.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 6.4 | 0.0 | 0.0 | 9.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 3 |
| 1968 | PPT: | 0.0 | 0.0 | 0.0 | 4.0 | 2.9 | 3.9 | 0.0 | 0.0 | 10.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 3.0 | 0.0 | 0.0 | 6.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| 1969 | PPT: | 0.0 | 0.0 | 0.0 | 3.6 | 1.2 | 1.2 | 0.0 | 0.0 | 6.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 6.3 | 6.1 | 0.0 | 0.0 | 12.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 4 |
| 1970 | PPT: | 0.0 | 0.0 | 0.0 | 2.9 | 0.8 | 1.2 | 0.8 | 0.0 | 5.7 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.1 | 6.2 | 3.1 | 0.0 | 0.0 | 12.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 4 |
| 1971 | PPT: | 0.0 | 0.0 | 0.0 | 3.0 | 3.2 | 1.6 | 0.0 | 0.0 | 7.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.0 | 3.2 | 6.1 | 0.0 | 0.0 | 12.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 4 |
| 1972 | PPT: | 0.0 | 0.0 | 0.0 | 2.5 | 7.1 | 2.1 | 0.0 | 0.0 | 11.7 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.1 | 3.1 | 3.0 | 0.0 | 0.0 | 9.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 3 |
| 1973 | PPT: | 0.0 | 0.0 | 0.0 | 6.0 | 1.2 | 2.1 | 0.0 | 0.0 | 9.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 6.2 | 3.2 | 0.0 | 0.0 | 9.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 3 |
| 1974 | PPT: | 0.0 | 0.0 | 0.0 | 7.1 | 1.1 | 6.3 | 1.8 | 0.0 | 16.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.1 | 3.0 | 3.1 | 0.0 | 0.0 | 9.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 3 |
| AVERAGE PPT. : | | 0.0 | 0.0 | 0.0 | 4.9 | 3.5 | 3.8 | 0.1 | 0.0 | 12.3 |
| AVE IRRIG AMT : | | 0.0 | 0.0 | 0.0 | 1.2 | 3.8 | 3.9 | 0.1 | 0.0 | 9.0 |
| AVE NO OF IRR : | | 0.0 | 0.0 | 0.0 | 0.4 | 1.2 | 1.3 | 0.0 | 0.0 | 2.9 |
| TIME 1.8 SECS. | | | | | | | | | | |

le: Annual Irrigated Water Balance for Corn: Sprinkler

IRRIGATION SEASON FROM DAY 121 TO DAY 213

ASSUMES ACTUAL EVAPOTRANSPIRATION IS 80% OF PET

ASSUMES FIELD IS AT FIELD CAPACITY ON STARTING DAY

CROP IS CORN

AVAILABLE SOIL MOISTURE IS 4.0INCHES

IRRIGATION INITIATED WHEN 50% OF AVAIL. MOIST. REMAINS

| | MONTHS: | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | TOT |
|------|-----------------|-----|-----|------|-----|-----|-----|-----|-----|------|
| | ET: | 0.0 | 0.0 | 4.2 | 5.5 | 6.6 | 0.2 | 0.0 | 0.0 | 16.6 |
| 1940 | PPT: | 0.0 | 0.0 | 1.5 | 6.0 | 0.9 | 0.0 | 0.0 | 0.0 | 8.5 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.0 | 0.0 | 6.3 | 0.0 | 0.0 | 0.0 | 8.4 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 4 |
| 1941 | PPT: | 0.0 | 0.0 | 0.7 | 4.2 | 2.2 | 0.0 | 0.0 | 0.0 | 7.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 2.2 | 6.3 | 0.0 | 0.0 | 0.0 | 10.5 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 3 | 0 | 0 | 0 | 5 |
| 1942 | PPT: | 0.0 | 0.0 | 6.0 | 6.8 | 2.1 | 0.0 | 0.0 | 0.0 | 14.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 4.2 | 4.3 | 0.0 | 0.0 | 0.0 | 8.5 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 4 |
| 1943 | PPT: | 0.0 | 0.0 | 15.0 | 4.9 | 0.3 | 0.2 | 0.0 | 0.0 | 20.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 6.4 | 0.0 | 0.0 | 0.0 | 6.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 3 |
| 1944 | PPT: | 0.0 | 0.0 | 5.5 | 7.2 | 2.2 | 0.0 | 0.0 | 0.0 | 14.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.0 | 2.1 | 4.1 | 0.0 | 0.0 | 0.0 | 8.2 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 4 |
| 1945 | PPT: | 0.0 | 0.0 | 4.5 | 6.7 | 6.2 | 0.0 | 0.0 | 0.0 | 17.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 2.0 | 0.0 | 0.0 | 0.0 | 4.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 2 |
| 1946 | PPT: | 0.0 | 0.0 | 10.2 | 5.3 | 3.3 | 0.0 | 0.0 | 0.0 | 18.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 4.2 | 0.0 | 0.0 | 0.0 | 6.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 3 |
| 1947 | PPT: | 0.0 | 0.0 | 7.1 | 6.5 | 2.2 | 0.0 | 0.0 | 0.0 | 15.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 6.5 | 0.0 | 0.0 | 0.0 | 6.5 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 3 |
| 1948 | PPT: | 0.0 | 0.0 | 5.1 | 8.3 | 4.5 | 0.0 | 0.0 | 0.0 | 17.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.0 | 2.1 | 0.0 | 0.0 | 0.0 | 4.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 2 |

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|------|-----------------|-----|-----|------|------|------|-----|-----|-----|------|
| 1949 | PPT: | 0.0 | 0.0 | 9.2 | 4.8 | 4.2 | 0.0 | 0.0 | 0.0 | 18.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.2 | 2.1 | 2.2 | 0.0 | 0.0 | 6.5 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 3 |
| 1950 | PPT: | 0.0 | 0.0 | 14.4 | 4.0 | 7.5 | 0.3 | 0.0 | 0.0 | 26.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 1951 | PPT: | 0.0 | 0.0 | 2.5 | 10.6 | 1.7 | 0.0 | 0.0 | 0.0 | 14.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 0.0 | 4.3 | 0.0 | 0.0 | 0.0 | 6.4 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 3 |
| 1952 | PPT: | 0.0 | 0.0 | 4.7 | 0.6 | 2.8 | 0.0 | 0.0 | 0.0 | 8.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 4.2 | 4.4 | 0.0 | 0.0 | 0.0 | 8.6 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 4 |
| 1953 | PPT: | 0.0 | 0.0 | 5.0 | 0.1 | 2.5 | 0.0 | 0.0 | 0.0 | 7.7 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 6.3 | 4.3 | 0.0 | 0.0 | 0.0 | 10.5 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 5 |
| 1954 | PPT: | 0.0 | 0.0 | 3.7 | 2.7 | 0.5 | 0.3 | 0.0 | 0.0 | 7.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 2.1 | 6.2 | 0.0 | 0.0 | 0.0 | 10.3 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 3 | 0 | 0 | 0 | 5 |
| 1955 | PPT: | 0.0 | 0.0 | 6.3 | 6.0 | 2.3 | 0.0 | 0.0 | 0.0 | 14.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 4.0 | 0.0 | 0.0 | 0.0 | 4.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 |
| 1956 | PPT: | 0.0 | 0.0 | 6.7 | 5.4 | 3.9 | 0.0 | 0.0 | 0.0 | 16.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 4.1 | 0.0 | 0.0 | 0.0 | 4.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 |
| 1957 | PPT: | 0.0 | 0.0 | 11.6 | 6.7 | 1.9 | 0.0 | 0.0 | 0.0 | 20.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 | 2.1 | 0.0 | 0.0 | 6.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 3 |
| 1958 | PPT: | 0.0 | 0.0 | 4.0 | 6.2 | 12.3 | 0.3 | 0.0 | 0.0 | 22.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.0 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 4.1 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 2 |
| 1959 | PPT: | 0.0 | 0.0 | 4.2 | 3.3 | 6.6 | 0.0 | 0.0 | 0.0 | 14.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.2 | 4.2 | 0.0 | 0.0 | 0.0 | 6.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 3 |
| 1960 | PPT: | 0.0 | 0.0 | 8.1 | 1.5 | 14.0 | 0.0 | 0.0 | 0.0 | 23.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 4.1 | 2.0 | 0.0 | 0.0 | 0.0 | 6.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 3 |
| 1961 | PPT: | 0.0 | 0.0 | 14.2 | 4.3 | 7.4 | 0.0 | 0.0 | 0.0 | 26.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 4.1 | 0.0 | 0.0 | 0.0 | 6.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 3 |
| 1962 | PPT: | 0.0 | 0.0 | 5.7 | 6.2 | 3.3 | 4.3 | 0.0 | 0.0 | 19.5 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 4.1 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 2 |

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|-----------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1963 | PPT: | 0.0 | 0.0 | 3.8 | 2.4 | 2.8 | 0.0 | 0.0 | 0.0 | 9.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 2.2 | 4.3 | 0.0 | 0.0 | 0.0 | 8.6 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 4 |
| 1964 | PPT: | 0.0 | 0.0 | 3.5 | 5.3 | 0.5 | 0.0 | 0.0 | 0.0 | 9.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 2.1 | 6.4 | 0.0 | 0.0 | 0.0 | 10.6 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 3 | 0 | 0 | 0 | 5 |
| 1965 | PPT: | 0.0 | 0.0 | 3.8 | 7.1 | 1.7 | 0.0 | 0.0 | 0.0 | 12.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.0 | 4.1 | 2.2 | 0.0 | 0.0 | 8.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 4 |
| 1966 | PPT: | 0.0 | 0.0 | 2.8 | 2.6 | 3.3 | 0.0 | 0.0 | 0.0 | 8.7 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 6.2 | 4.4 | 0.0 | 0.0 | 0.0 | 10.6 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 5 |
| 1967 | PPT: | 0.0 | 0.0 | 4.3 | 6.1 | 2.4 | 0.0 | 0.0 | 0.0 | 12.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 4.2 | 4.4 | 0.0 | 0.0 | 0.0 | 8.6 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 4 |
| 1968 | PPT: | 0.0 | 0.0 | 5.7 | 4.0 | 2.9 | 0.6 | 0.0 | 0.0 | 13.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 4.3 | 0.0 | 0.0 | 0.0 | 6.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 3 |
| 1969 | PPT: | 0.0 | 0.0 | 7.1 | 3.6 | 1.2 | 0.0 | 0.0 | 0.0 | 11.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 4.2 | 0.0 | 0.0 | 0.0 | 6.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 3 |
| 1970 | PPT: | 0.0 | 0.0 | 0.9 | 2.9 | 0.8 | 0.0 | 0.0 | 0.0 | 4.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 2.2 | 6.3 | 0.0 | 0.0 | 0.0 | 10.5 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 3 | 0 | 0 | 0 | 5 |
| 1971 | PPT: | 0.0 | 0.0 | 4.1 | 3.0 | 3.2 | 0.0 | 0.0 | 0.0 | 10.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 4.2 | 2.1 | 0.0 | 0.0 | 0.0 | 6.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 3 |
| 1972 | PPT: | 0.0 | 0.0 | 2.2 | 2.5 | 7.1 | 0.0 | 0.0 | 0.0 | 11.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.0 | 4.1 | 2.2 | 0.0 | 0.0 | 0.0 | 8.4 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 4 |
| 1973 | PPT: | 0.0 | 0.0 | 7.2 | 6.0 | 1.2 | 0.0 | 0.0 | 0.0 | 14.5 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 6.5 | 0.0 | 0.0 | 0.0 | 6.5 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 3 |
| 1974 | PPT: | 0.0 | 0.0 | 5.4 | 7.1 | 1.1 | 0.0 | 0.0 | 0.0 | 13.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 6.3 | 0.0 | 0.0 | 0.0 | 8.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 4 |
| AVERAGE PPT. : | | 0.0 | 0.0 | 5.9 | 4.9 | 3.5 | 0.2 | 0.0 | 0.0 | 14.5 |
| AVE IRRIG AMT : | | 0.0 | 0.0 | 0.7 | 2.2 | 4.1 | 0.2 | 0.0 | 0.0 | 7.1 |
| AVE NO OF IRR : | | 0.0 | 0.0 | 0.3 | 1.0 | 1.9 | 0.1 | 0.0 | 0.0 | 3.4 |
| TIME 1.9 SECS. | | | | | | | | | | |

lf: Annual Irrigated Water Balance for Grain Sorghum; Sprinkler

IRRIGATION SEASON FROM DAY 121 TO DAY 213

ASSUMES ACTUAL EVAPOTRANSPIRATION IS 80% OF PET

ASSUMES FIELD IS AT FIELD CAPACITY ON STARTING DAY

CROP IS MILO

AVAILABLE SOIL MOISTURE IS 6.0INCHES

IRRIGATION INITIATED WHEN 50% OF AVAIL. MOIST. REMAINS

| | MONTHS: | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | TOT |
|------|-----------------|-----|-----|------|-----|-----|-----|-----|-----|------|
| | ET: | 0.0 | 0.0 | 4.2 | 5.5 | 6.6 | 0.2 | 0.0 | 0.0 | 16.6 |
| 1940 | PPT: | 0.0 | 0.0 | 1.5 | 6.0 | 0.9 | 0.0 | 0.0 | 0.0 | 8.5 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.2 | 6.1 | 0.0 | 0.0 | 0.0 | 9.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 3 |
| 1941 | PPT: | 0.0 | 0.0 | 0.7 | 4.2 | 2.2 | 0.0 | 0.0 | 0.0 | 7.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 3.1 | 3.1 | 3.1 | 0.0 | 0.0 | 0.0 | 9.3 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 3 |
| 1942 | PPT: | 0.0 | 0.0 | 6.0 | 6.8 | 2.1 | 0.0 | 0.0 | 0.0 | 14.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 6.2 | 0.0 | 0.0 | 0.0 | 6.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 |
| 1943 | PPT: | 0.0 | 0.0 | 15.0 | 4.9 | 0.3 | 0.2 | 0.0 | 0.0 | 20.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 6.0 | 0.0 | 0.0 | 0.0 | 6.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 |
| 1944 | PPT: | 0.0 | 0.0 | 5.5 | 7.2 | 2.2 | 0.0 | 0.0 | 0.0 | 14.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 6.2 | 0.0 | 0.0 | 0.0 | 6.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 |
| 1945 | PPT: | 0.0 | 0.0 | 4.5 | 6.7 | 6.2 | 0.0 | 0.0 | 0.0 | 17.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 0.0 | 0.0 | 0.0 | 3.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 1946 | PPT: | 0.0 | 0.0 | 10.2 | 5.3 | 3.3 | 0.0 | 0.0 | 0.0 | 18.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.1 | 3.1 | 0.0 | 0.0 | 0.0 | 6.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 2 |
| 1947 | PPT: | 0.0 | 0.0 | 7.1 | 6.5 | 2.2 | 0.0 | 0.0 | 0.0 | 15.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 3.1 | 0.0 | 0.0 | 6.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| 1948 | PPT: | 0.0 | 0.0 | 5.1 | 8.3 | 4.5 | 0.0 | 0.0 | 0.0 | 17.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |

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|------|-----------------|-----|-----|------|------|------|-----|-----|-----|------|
| 1949 | PPT: | 0.0 | 0.0 | 9.2 | 4.8 | 4.2 | 0.0 | 0.0 | 0.0 | 18.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 6.2 | 0.0 | 0.0 | 0.0 | 6.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 |
| 1950 | PPT: | 0.0 | 0.0 | 14.4 | 4.0 | 7.5 | 0.3 | 0.0 | 0.0 | 26.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 0.0 | 0.0 | 0.0 | 3.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 1951 | PPT: | 0.0 | 0.0 | 2.5 | 10.6 | 1.7 | 0.0 | 0.0 | 0.0 | 14.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.2 | 0.0 | 0.0 | 0.0 | 3.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 1952 | PPT: | 0.0 | 0.0 | 4.7 | 0.6 | 2.8 | 0.0 | 0.0 | 0.0 | 8.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.1 | 6.3 | 0.0 | 0.0 | 0.0 | 9.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 3 |
| 1953 | PPT: | 0.0 | 0.0 | 5.0 | 0.1 | 2.5 | 0.0 | 0.0 | 0.0 | 7.7 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 6.3 | 3.1 | 0.0 | 0.0 | 0.0 | 9.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 3 |
| 1954 | PPT: | 0.0 | 0.0 | 3.7 | 2.7 | 0.5 | 0.3 | 0.0 | 0.0 | 7.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.1 | 6.1 | 0.0 | 0.0 | 0.0 | 9.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 3 |
| 1955 | PPT: | 0.0 | 0.0 | 6.3 | 6.0 | 2.3 | 0.0 | 0.0 | 0.0 | 14.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 0.0 | 0.0 | 0.0 | 3.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 1956 | PPT: | 0.0 | 0.0 | 6.7 | 5.4 | 3.9 | 0.0 | 0.0 | 0.0 | 16.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 0.0 | 0.0 | 0.0 | 3.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 1957 | PPT: | 0.0 | 0.0 | 11.6 | 6.7 | 1.9 | 0.0 | 0.0 | 0.0 | 20.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.2 | 3.0 | 0.0 | 0.0 | 6.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| 1958 | PPT: | 0.0 | 0.0 | 4.0 | 6.2 | 12.3 | 0.3 | 0.0 | 0.0 | 22.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 1959 | PPT: | 0.0 | 0.0 | 4.2 | 3.3 | 6.6 | 0.0 | 0.0 | 0.0 | 14.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.1 | 3.0 | 0.0 | 0.0 | 0.0 | 6.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 2 |
| 1960 | PPT: | 0.0 | 0.0 | 8.1 | 1.5 | 14.0 | 0.0 | 0.0 | 0.0 | 23.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.0 | 3.0 | 0.0 | 0.0 | 0.0 | 6.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 2 |
| 1961 | PPT: | 0.0 | 0.0 | 14.2 | 4.3 | 7.4 | 0.0 | 0.0 | 0.0 | 26.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 0.0 | 0.0 | 0.0 | 3.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 1962 | PPT: | 0.0 | 0.0 | 5.7 | 6.2 | 3.3 | 4.3 | 0.0 | 0.0 | 19.5 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.2 | 0.0 | 0.0 | 0.0 | 3.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |

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|-----------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1963 | PPT: | 0.0 | 0.0 | 3.8 | 2.4 | 2.8 | 0.0 | 0.0 | 0.0 | 9.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.0 | 3.1 | 0.0 | 0.0 | 0.0 | 6.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 2 |
| 1964 | PPT: | 0.0 | 0.0 | 3.5 | 5.3 | 0.5 | 0.0 | 0.0 | 0.0 | 9.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.1 | 6.2 | 0.0 | 0.0 | 0.0 | 9.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 3 |
| 1965 | PPT: | 0.0 | 0.0 | 3.8 | 7.1 | 1.7 | 0.0 | 0.0 | 0.0 | 12.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 3.2 | 0.0 | 0.0 | 6.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| 1966 | PPT: | 0.0 | 0.0 | 2.8 | 2.6 | 3.3 | 0.0 | 0.0 | 0.0 | 8.7 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.0 | 3.1 | 0.0 | 0.0 | 0.0 | 6.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 2 |
| 1967 | PPT: | 0.0 | 0.0 | 4.3 | 6.1 | 2.4 | 0.0 | 0.0 | 0.0 | 12.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.1 | 3.1 | 0.0 | 0.0 | 0.0 | 6.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 2 |
| 1968 | PPT: | 0.0 | 0.0 | 5.7 | 4.0 | 2.9 | 0.6 | 0.0 | 0.0 | 13.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.0 | 3.1 | 0.0 | 0.0 | 0.0 | 6.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 2 |
| 1969 | PPT: | 0.0 | 0.0 | 7.1 | 3.6 | 1.2 | 0.0 | 0.0 | 0.0 | 11.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 6.2 | 0.0 | 0.0 | 0.0 | 6.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 |
| 1970 | PPT: | 0.0 | 0.0 | 0.9 | 2.9 | 0.8 | 0.0 | 0.0 | 0.0 | 4.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 3.1 | 3.1 | 6.2 | 0.0 | 0.0 | 0.0 | 12.4 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 4 |
| 1971 | PPT: | 0.0 | 0.0 | 4.1 | 3.0 | 3.2 | 0.0 | 0.0 | 0.0 | 10.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.1 | 3.1 | 0.0 | 0.0 | 0.0 | 6.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 2 |
| 1972 | PPT: | 0.0 | 0.0 | 2.2 | 2.5 | 7.1 | 0.0 | 0.0 | 0.0 | 11.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 3.1 | 3.0 | 3.1 | 0.0 | 0.0 | 0.0 | 9.3 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 3 |
| 1973 | PPT: | 0.0 | 0.0 | 7.2 | 6.0 | 1.2 | 0.0 | 0.0 | 0.0 | 14.5 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 6.2 | 0.0 | 0.0 | 0.0 | 6.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 |
| 1974 | PPT: | 0.0 | 0.0 | 5.4 | 7.1 | 1.1 | 0.0 | 0.0 | 0.0 | 13.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.1 | 3.0 | 3.1 | 0.0 | 0.0 | 9.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 3 |
| AVERAGE PPT. : | | 0.0 | 0.0 | 5.9 | 4.9 | 3.5 | 0.2 | 0.0 | 0.0 | 14.5 |
| AVE IRRIG AMT : | | 0.0 | 0.0 | 0.3 | 1.8 | 3.9 | 0.4 | 0.0 | 0.0 | 6.3 |
| AVE NO OF IRR : | | 0.0 | 0.0 | 0.1 | 0.6 | 1.3 | 0.1 | 0.0 | 0.0 | 2.0 |
| TIME 1.8 SECS. | | | | | | | | | | |

lg: Annual Irrigated Water Balance for Soybeans; Sprinkler

IRRIGATION SEASON FROM DAY 152 TO DAY 244

ASSUMES ACTUAL EVAPOTRANSPIRATION IS 80% OF PET

ASSUMES FIELD IS AT FIELD CAPACITY ON STARTING DAY

CROP IS SOYBEANS

AVAILABLE SOIL MOISTURE IS 4.0INCHES

IRRIGATION INITIATED WHEN 50% OF AVAIL. MOIST. REMAINS

| MONTHS: | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | TOT |
|-----------------|-----|-----|-----|-----|-----|------|-----|-----|------|
| ET: | 0.0 | 0.0 | 0.0 | 5.5 | 6.6 | 6.6 | 0.2 | 0.0 | 19.0 |
| 1940 PPT: | 0.0 | 0.0 | 0.0 | 6.0 | 0.9 | 5.7 | 0.0 | 0.0 | 12.6 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 6.3 | 0.0 | 0.0 | 0.0 | 6.3 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 3 |
| 1941 PPT: | 0.0 | 0.0 | 0.0 | 4.2 | 2.2 | 4.7 | 0.0 | 0.0 | 11.2 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.2 | 6.3 | 2.2 | 0.0 | 0.0 | 10.6 |
| NUMBER OF IRR : | 0 | 0 | 0 | 1 | 3 | 1 | 0 | 0 | 5 |
| 1942 PPT: | 0.0 | 0.0 | 0.0 | 6.8 | 2.1 | 7.0 | 0.0 | 0.0 | 15.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 4.3 | 2.1 | 0.0 | 0.0 | 8.5 |
| NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 4 |
| 1943 PPT: | 0.0 | 0.0 | 0.0 | 4.9 | 0.3 | 0.8 | 0.1 | 0.0 | 6.1 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 6.4 | 6.3 | 0.0 | 0.0 | 12.6 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 3 | 3 | 0 | 0 | 6 |
| 1944 PPT: | 0.0 | 0.0 | 0.0 | 7.2 | 2.2 | 6.4 | 0.0 | 0.0 | 15.8 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 4.1 | 2.0 | 0.0 | 0.0 | 8.2 |
| NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 4 |
| 1945 PPT: | 0.0 | 0.0 | 0.0 | 6.7 | 6.2 | 2.4 | 0.0 | 0.0 | 15.3 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 4.1 | 2.1 | 0.0 | 8.2 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 4 |
| 1946 PPT: | 0.0 | 0.0 | 0.0 | 5.3 | 3.3 | 0.7 | 0.0 | 0.0 | 9.3 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 4.2 | 6.4 | 0.0 | 0.0 | 12.7 |
| NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 6 |
| 1947 PPT: | 0.0 | 0.0 | 0.0 | 6.5 | 2.2 | 0.9 | 0.0 | 0.0 | 9.6 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 6.5 | 6.4 | 0.0 | 0.0 | 12.9 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 3 | 3 | 0 | 0 | 6 |
| 1948 PPT: | 0.0 | 0.0 | 0.0 | 8.3 | 4.5 | 10.4 | 0.0 | 0.0 | 23.2 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 2.1 | 4.3 | 0.0 | 0.0 | 8.5 |
| NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 4 |
| 1949 PPT: | 0.0 | 0.0 | 0.0 | 4.8 | 4.2 | 1.0 | 0.0 | 0.0 | 10.1 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.2 | 2.1 | 6.5 | 0.0 | 0.0 | 10.8 |

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| | | | | | | | | | | |
|------|-----------------|-----|-----|-----|------|------|-----|-----|-----|------|
| 1950 | PPT: | 0.0 | 0.0 | 0.0 | 4.0 | 7.5 | 4.9 | 0.0 | 0.0 | 16.5 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 4.4 | 0.0 | 0.0 | 6.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 3 |
| 1951 | PPT: | 0.0 | 0.0 | 0.0 | 10.6 | 1.7 | 1.9 | 0.0 | 0.0 | 14.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 | 4.1 | 0.0 | 0.0 | 8.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 4 |
| 1952 | PPT: | 0.0 | 0.0 | 0.0 | 0.6 | 2.8 | 7.5 | 0.0 | 0.0 | 10.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 4.2 | 4.2 | 2.1 | 2.1 | 0.0 | 12.5 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 2 | 2 | 1 | 1 | 0 | 6 |
| 1953 | PPT: | 0.0 | 0.0 | 0.0 | 0.1 | 2.5 | 3.3 | 0.0 | 0.0 | 6.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 4.0 | 4.2 | 6.4 | 0.0 | 0.0 | 14.6 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 2 | 2 | 3 | 0 | 0 | 7 |
| 1954 | PPT: | 0.0 | 0.0 | 0.0 | 2.7 | 0.5 | 1.8 | 0.0 | 0.0 | 5.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 6.2 | 6.2 | 0.0 | 0.0 | 14.5 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 3 | 3 | 0 | 0 | 7 |
| 1955 | PPT: | 0.0 | 0.0 | 0.0 | 6.0 | 2.3 | 3.5 | 0.0 | 0.0 | 11.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 4.0 | 4.2 | 0.0 | 0.0 | 8.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 4 |
| 1956 | PPT: | 0.0 | 0.0 | 0.0 | 5.4 | 3.9 | 2.3 | 0.0 | 0.0 | 11.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 | 4.0 | 0.0 | 0.0 | 6.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 3 |
| 1957 | PPT: | 0.0 | 0.0 | 0.0 | 6.7 | 1.9 | 5.3 | 0.2 | 0.0 | 14.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 | 4.1 | 0.0 | 0.0 | 8.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 4 |
| 1958 | PPT: | 0.0 | 0.0 | 0.0 | 6.2 | 12.3 | 2.6 | 0.1 | 0.0 | 21.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 4.2 | 0.0 | 0.0 | 6.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 3 |
| 1959 | PPT: | 0.0 | 0.0 | 0.0 | 3.3 | 6.6 | 2.2 | 0.0 | 0.0 | 12.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.2 | 4.2 | 6.3 | 0.0 | 0.0 | 12.7 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 6 |
| 1960 | PPT: | 0.0 | 0.0 | 0.0 | 1.5 | 14.0 | 1.3 | 0.0 | 0.0 | 16.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 4.0 | 2.1 | 6.2 | 0.0 | 0.0 | 12.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 2 | 1 | 3 | 0 | 0 | 6 |
| 1961 | PPT: | 0.0 | 0.0 | 0.0 | 4.3 | 7.4 | 6.3 | 0.0 | 0.0 | 18.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 4.1 | 4.4 | 0.0 | 0.0 | 10.6 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 2 | 0 | 0 | 5 |
| 1962 | PPT: | 0.0 | 0.0 | 0.0 | 6.2 | 3.3 | 5.8 | 0.1 | 0.0 | 15.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 4.2 | 0.0 | 0.0 | 6.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 3 |

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| | | | | | | | | | | |
|-----------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1963 | PPT: | 0.0 | 0.0 | 0.0 | 2.4 | 2.8 | 4.1 | 0.0 | 0.0 | 9.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.0 | 4.3 | 4.2 | 0.0 | 0.0 | 10.5 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 2 | 0 | 0 | 5 |
| 1964 | PPT: | 0.0 | 0.0 | 0.0 | 5.3 | 0.5 | 9.6 | 0.0 | 0.0 | 15.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 6.4 | 0.0 | 0.0 | 0.0 | 8.5 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 4 |
| 1965 | PPT: | 0.0 | 0.0 | 0.0 | 7.1 | 1.7 | 6.4 | 0.5 | 0.0 | 15.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 4.1 | 4.3 | 0.0 | 0.0 | 8.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 4 |
| 1966 | PPT: | 0.0 | 0.0 | 0.0 | 2.6 | 3.3 | 5.1 | 0.0 | 0.0 | 11.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 4.2 | 4.4 | 0.0 | 2.2 | 0.0 | 10.7 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 2 | 2 | 0 | 1 | 0 | 5 |
| 1967 | PPT: | 0.0 | 0.0 | 0.0 | 6.1 | 2.4 | 0.7 | 0.0 | 0.0 | 9.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 4.4 | 4.2 | 2.1 | 0.0 | 12.8 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 2 | 1 | 0 | 6 |
| 1968 | PPT: | 0.0 | 0.0 | 0.0 | 4.0 | 2.9 | 3.9 | 0.0 | 0.0 | 10.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.2 | 4.3 | 2.2 | 0.0 | 0.0 | 8.6 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 4 |
| 1969 | PPT: | 0.0 | 0.0 | 0.0 | 3.6 | 1.2 | 1.2 | 0.0 | 0.0 | 6.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.2 | 4.2 | 6.5 | 0.0 | 0.0 | 12.9 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 6 |
| 1970 | PPT: | 0.0 | 0.0 | 0.0 | 2.9 | 0.8 | 1.2 | 0.8 | 0.0 | 5.7 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.2 | 6.3 | 6.3 | 0.0 | 0.0 | 14.7 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 3 | 3 | 0 | 0 | 7 |
| 1971 | PPT: | 0.0 | 0.0 | 0.0 | 3.0 | 3.2 | 1.6 | 0.0 | 0.0 | 7.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.0 | 2.0 | 6.3 | 0.0 | 0.0 | 10.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 3 | 0 | 0 | 5 |
| 1972 | PPT: | 0.0 | 0.0 | 0.0 | 2.5 | 7.1 | 2.1 | 0.0 | 0.0 | 11.7 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 4.3 | 6.2 | 0.0 | 0.0 | 12.5 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 6 |
| 1973 | PPT: | 0.0 | 0.0 | 0.0 | 6.0 | 1.2 | 2.1 | 0.0 | 0.0 | 9.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 6.5 | 4.2 | 0.0 | 0.0 | 10.7 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 5 |
| 1974 | PPT: | 0.0 | 0.0 | 0.0 | 7.1 | 1.1 | 6.3 | 1.8 | 0.0 | 16.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 6.3 | 0.0 | 0.0 | 0.0 | 8.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 4 |
| AVERAGE PPT. : | | 0.0 | 0.0 | 0.0 | 4.9 | 3.5 | 3.8 | 0.1 | 0.0 | 12.3 |
| AVE IRRIG AMT : | | 0.0 | 0.0 | 0.0 | 1.7 | 4.1 | 4.2 | 0.2 | 0.0 | 10.2 |
| AVE NO OF IRR : | | 0.0 | 0.0 | 0.0 | 0.8 | 1.9 | 2.0 | 0.1 | 0.0 | 4.8 |
| TIME 1.8 SECS. | | | | | | | | | | |

lh: Annual Irrigated Water Balance for Wheat; Sprinkler

IRRIGATION SEASON FROM DAY 65 TO DAY 140

ASSUMES ACTUAL EVAPOTRANSPIRATION IS 80% OF PET

ASSUMES FIELD IS AT FIELD CAPACITY ON STARTING DAY

CROP IS WHEAT

AVAILABLE SOIL MOISTURE IS 2.0 INCHES

IRRIGATION INITIATED WHEN 50% OF AVAIL. MOIST. REMAINS

| MONTHS: | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | TOT |
|-----------------|-----|------|------|-----|-----|-----|-----|-----|------|
| ET: | 0.6 | 2.3 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.4 |
| 1940 PPT: | 1.9 | 6.6 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.3 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1941 PPT: | 0.5 | 8.6 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.8 |
| IRRIGATION AMT: | 0.0 | 0.0 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 |
| NUMBER OF IRR : | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1942 PPT: | 0.8 | 7.1 | 5.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.7 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1943 PPT: | 3.4 | 2.9 | 12.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 18.9 |
| IRRIGATION AMT: | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| NUMBER OF IRR : | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1944 PPT: | 5.9 | 5.2 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.4 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 |
| NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1945 PPT: | 8.3 | 10.9 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 23.4 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1946 PPT: | 2.3 | 3.7 | 4.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.5 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1947 PPT: | 1.2 | 7.0 | 6.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1948 PPT: | 3.2 | 1.6 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.8 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |

lh continued

| | | | | | | | | | | |
|------|-----------------|-----|------|------|-----|-----|-----|-----|-----|------|
| 1949 | PPT: | 2.5 | 1.8 | 5.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.1 |
| | IRRIGATION AMT: | 0.0 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 |
| | NUMBER OF IRR : | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1950 | PPT: | 1.6 | 4.5 | 11.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 17.1 |
| | IRRIGATION AMT: | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 |
| | NUMBER OF IRR : | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1951 | PPT: | 2.0 | 3.0 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1952 | PPT: | 2.1 | 4.6 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 |
| | NUMBER OF IRR : | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1953 | PPT: | 5.6 | 7.1 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 17.7 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1954 | PPT: | 2.2 | 4.1 | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1955 | PPT: | 3.7 | 2.8 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.6 |
| | IRRIGATION AMT: | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| | NUMBER OF IRR : | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1956 | PPT: | 1.8 | 4.1 | 4.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.5 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1957 | PPT: | 3.0 | 11.2 | 5.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 19.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1958 | PPT: | 4.4 | 2.8 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.7 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1959 | PPT: | 1.1 | 3.7 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1960 | PPT: | 1.5 | 3.2 | 7.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.1 |
| | IRRIGATION AMT: | 0.0 | 1.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 |
| | NUMBER OF IRR : | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1961 | PPT: | 2.8 | 2.1 | 13.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 18.3 |
| | IRRIGATION AMT: | 0.0 | 1.1 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 |
| | NUMBER OF IRR : | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1962 | PPT: | 1.7 | 4.5 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 |
| | NUMBER OF IRR : | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |

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| | | | | | | | | | | |
|-----------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1963 | PPT: | 1.0 | 1.7 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.9 |
| | IRRIGATION AMT: | 0.0 | 1.0 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 |
| | NUMBER OF IRR : | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 3 |
| 1964 | PPT: | 2.3 | 3.3 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 |
| | NUMBER OF IRR : | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1965 | PPT: | 1.1 | 6.0 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1966 | PPT: | 1.6 | 5.9 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1967 | PPT: | 1.0 | 5.0 | 3.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1968 | PPT: | 5.6 | 3.7 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1969 | PPT: | 2.6 | 3.7 | 5.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1970 | PPT: | 1.9 | 7.7 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1971 | PPT: | 0.5 | 3.5 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.9 |
| | IRRIGATION AMT: | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| | NUMBER OF IRR : | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1972 | PPT: | 1.4 | 5.3 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 |
| | NUMBER OF IRR : | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1973 | PPT: | 6.7 | 8.0 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 17.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1974 | PPT: | 4.0 | 6.8 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.7 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| AVERAGE PPT. : | | 2.7 | 5.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.7 |
| AVE IRRIG AMT : | | 0.0 | 0.2 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 |
| AVE NO OF IRR : | | 0.0 | 0.2 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 |
| TIME 1.7 SECS. | | | | | | | | | | |

li: Annual Irrigated Water Balance for Apples, Peaches; Drip; Year 1

IRRIGATION SEASON FROM DAY 65 TO DAY 304

ASSUMES ACTUAL EVAPOTRANSPIRATION IS 20% OF PET

ASSUMES FIELD IS AT FIELD CAPACITY ON STARTING DAY

CROP IS AP1 PE1 DR

AVAILABLE SOIL MOISTURE IS 2.0INCHES

IRRIGATION INITIATED WHEN 75% OF AVAIL. MOIST. REMAINS

| | MONTHS: | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | TOT |
|------|-----------------|-----|------|------|-----|-----|------|-----|------|------|
| | ET: | 0.1 | 0.6 | 1.1 | 1.4 | 1.6 | 1.7 | 1.3 | 0.8 | 8.6 |
| 1940 | PPT: | 1.9 | 6.6 | 1.5 | 6.0 | 0.9 | 5.7 | 7.8 | 1.8 | 32.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 2.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 4 |
| 1941 | PPT: | 0.5 | 8.6 | 0.7 | 4.2 | 2.2 | 4.7 | 3.8 | 13.0 | 37.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.5 | 0.5 | 1.1 | 0.0 | 0.0 | 0.0 | 2.1 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 4 |
| 1942 | PPT: | 0.8 | 7.1 | 6.0 | 6.8 | 2.1 | 7.0 | 4.4 | 6.5 | 40.7 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 1.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 2 |
| 1943 | PPT: | 3.4 | 2.9 | 15.0 | 4.9 | 0.3 | 0.8 | 3.8 | 4.7 | 35.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 0.5 | 0.0 | 2.7 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 0 | 5 |
| 1944 | PPT: | 5.9 | 5.2 | 5.5 | 7.2 | 2.2 | 6.4 | 2.0 | 3.6 | 38.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.5 | 0.0 | 1.6 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 3 |
| 1945 | PPT: | 8.3 | 10.9 | 4.5 | 6.7 | 6.2 | 2.4 | 9.6 | 2.8 | 51.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 0.5 | 0.0 | 1.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 |
| 1946 | PPT: | 2.3 | 3.7 | 10.2 | 5.3 | 3.3 | 0.7 | 1.5 | 2.0 | 29.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.5 | 1.0 | 1.0 | 0.0 | 0.5 | 3.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 2 | 0 | 1 | 6 |
| 1947 | PPT: | 1.2 | 7.0 | 7.1 | 6.5 | 2.2 | 0.9 | 4.2 | 3.9 | 32.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 0.5 | 0.5 | 3.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 1 | 6 |
| 1948 | PPT: | 3.2 | 1.6 | 5.1 | 8.3 | 4.5 | 10.4 | 0.3 | 1.4 | 34.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 0.5 | 1.1 | 0.0 | 2.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 4 |

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| | | | | | | | | | | |
|------|-----------------|-----|------|------|------|------|-----|-----|-----|------|
| 1949 | PPT: | 2.5 | 1.8 | 9.2 | 4.8 | 4.2 | 1.0 | 6.7 | 3.7 | 34.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 1.6 | 0.0 | 0.5 | 2.6 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 1 | 5 |
| 1950 | PPT: | 1.6 | 4.5 | 14.4 | 4.0 | 7.5 | 4.9 | 3.0 | 1.1 | 41.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.5 | 1.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 2 |
| 1951 | PPT: | 2.0 | 3.0 | 2.5 | 10.6 | 1.7 | 1.9 | 4.5 | 6.6 | 32.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 1.1 | 0.5 | 0.0 | 2.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 4 |
| 1952 | PPT: | 2.1 | 4.6 | 4.7 | 0.6 | 2.8 | 7.5 | 0.3 | 0.5 | 23.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.1 | 0.5 | 0.5 | 1.6 | 0.0 | 3.7 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 2 | 1 | 1 | 3 | 0 | 7 |
| 1953 | PPT: | 5.6 | 7.1 | 5.0 | 0.1 | 2.5 | 3.3 | 1.2 | 2.7 | 27.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.6 | 0.5 | 1.0 | 0.5 | 0.5 | 4.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 3 | 1 | 2 | 1 | 1 | 8 |
| 1954 | PPT: | 2.2 | 4.1 | 3.7 | 2.7 | 0.5 | 1.8 | 4.2 | 6.3 | 25.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 0.5 | 0.5 | 0.0 | 2.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 4 |
| 1955 | PPT: | 3.7 | 2.8 | 6.3 | 6.0 | 2.3 | 3.5 | 4.1 | 0.7 | 29.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.0 | 1.6 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 3 |
| 1956 | PPT: | 1.8 | 4.1 | 6.7 | 5.4 | 3.9 | 2.3 | 0.6 | 1.9 | 26.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.5 | 2.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 4 |
| 1957 | PPT: | 3.0 | 11.2 | 11.6 | 6.7 | 1.9 | 5.3 | 6.2 | 2.3 | 48.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 1.1 | 0.0 | 0.5 | 2.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 1 | 4 |
| 1958 | PPT: | 4.4 | 2.8 | 4.0 | 6.2 | 12.3 | 2.6 | 4.3 | 0.9 | 37.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 0.5 | 0.0 | 0.0 | 1.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 2 |
| 1959 | PPT: | 1.1 | 3.7 | 4.2 | 3.3 | 6.6 | 2.2 | 3.5 | 4.5 | 29.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 0.5 | 1.1 | 0.0 | 2.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 4 |
| 1960 | PPT: | 1.5 | 3.2 | 8.1 | 1.5 | 14.0 | 1.3 | 2.0 | 2.0 | 33.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 1.0 | 0.0 | 2.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 4 |
| 1961 | PPT: | 2.8 | 2.1 | 14.2 | 4.3 | 7.4 | 6.3 | 5.6 | 2.7 | 45.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 1.1 | 0.5 | 0.0 | 2.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 2 | 1 | 0 | 4 |
| 1962 | PPT: | 1.7 | 4.5 | 5.7 | 6.2 | 3.3 | 5.8 | 8.1 | 6.8 | 42.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.5 | 0.0 | 0.5 | 1.0 | 0.0 | 0.0 | 2.1 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 4 |

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| | | | | | | | | | | |
|-----------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1963 | PPT: | 1.0 | 1.7 | 3.8 | 2.4 | 2.8 | 4.1 | 1.2 | 0.0 | 17.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2.6 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 5 |
| 1964 | PPT: | 2.3 | 3.3 | 3.5 | 5.3 | 0.5 | 9.6 | 4.0 | 0.3 | 28.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.5 | 0.5 | 1.1 | 0.5 | 0.5 | 0.5 | 3.7 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 2 | 1 | 1 | 1 | 7 |
| 1965 | PPT: | 1.1 | 6.0 | 3.8 | 7.1 | 1.7 | 6.4 | 3.0 | 1.1 | 30.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.5 | 0.5 | 0.5 | 2.6 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 1 | 5 |
| 1966 | PPT: | 1.6 | 5.9 | 2.8 | 2.6 | 3.3 | 5.1 | 0.9 | 0.6 | 22.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.0 | 1.1 | 0.0 | 1.0 | 0.0 | 3.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 2 | 2 | 0 | 2 | 0 | 6 |
| 1967 | PPT: | 1.0 | 5.0 | 4.3 | 6.1 | 2.4 | 0.7 | 2.4 | 8.1 | 30.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 1.6 | 0.5 | 0.0 | 2.6 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 3 | 1 | 0 | 5 |
| 1968 | PPT: | 5.6 | 3.7 | 5.7 | 4.0 | 2.9 | 3.9 | 4.0 | 1.5 | 31.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 0.5 | 0.0 | 1.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 |
| 1969 | PPT: | 2.6 | 3.7 | 7.1 | 3.6 | 1.2 | 1.2 | 2.2 | 9.4 | 31.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 0.5 | 0.0 | 2.6 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 0 | 5 |
| 1970 | PPT: | 1.9 | 7.7 | 0.9 | 2.9 | 0.8 | 1.2 | 9.9 | 7.8 | 33.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.0 | 0.0 | 0.0 | 2.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 4 |
| 1971 | PPT: | 0.5 | 3.5 | 4.1 | 3.0 | 3.2 | 1.6 | 3.6 | 2.9 | 22.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 2.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 4 |
| 1972 | PPT: | 1.4 | 5.3 | 2.2 | 2.5 | 7.1 | 2.1 | 7.0 | 5.8 | 33.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 1.6 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 3 |
| 1973 | PPT: | 6.7 | 8.0 | 7.2 | 6.0 | 1.2 | 2.1 | 6.9 | 5.5 | 43.7 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 1.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 |
| 1974 | PPT: | 4.0 | 6.8 | 5.4 | 7.1 | 1.1 | 6.3 | 7.9 | 3.7 | 42.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.5 | 1.0 | 0.0 | 0.0 | 0.0 | 1.6 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 3 |
| AVERAGE PPT. : | | 2.7 | 5.0 | 5.9 | 4.9 | 3.5 | 3.8 | 4.1 | 3.7 | 33.6 |
| AVE IRRIG AMT : | | 0.0 | 0.0 | 0.0 | 0.3 | 0.6 | 0.6 | 0.4 | 0.1 | 2.2 |
| AVE NO OF IRR : | | 0.0 | 0.0 | 0.1 | 0.6 | 1.1 | 1.2 | 0.8 | 0.3 | 4.2 |
| TIME 2.6 SECS. | | | | | | | | | | |

lj: Annual Irrigated Water Balance for Apples, Peaches; Drip; Year 2

IRRIGATION SEASON FROM DAY 65 TO DAY 304

ASSUMES ACTUAL EVAPOTRANSPIRATION IS 30% OF PET

ASSUMES FIELD IS AT FIELD CAPACITY ON STARTING DAY

CROP IS AP2 PE2 DR

AVAILABLE SOIL MOISTURE IS 4.0INCHES

IRRIGATION INITIATED WHEN 75% OF AVAIL. MOIST. REMAINS

| MONTHS: | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | TOT |
|-----------------|-----|------|------|-----|-----|------|-----|------|------|
| ET: | 0.2 | 0.9 | 1.6 | 2.1 | 2.5 | 2.5 | 2.0 | 1.1 | 12.9 |
| 1940 PPT: | 1.9 | 6.6 | 1.5 | 6.0 | 0.9 | 5.7 | 7.8 | 1.8 | 32.2 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 1.0 | 0.0 | 2.0 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 |
| 1941 PPT: | 0.5 | 8.6 | 0.7 | 4.2 | 2.2 | 4.7 | 3.8 | 13.0 | 37.8 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 | 3.1 |
| NUMBER OF IRR : | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 3 |
| 1942 PPT: | 0.8 | 7.1 | 6.0 | 6.8 | 2.1 | 7.0 | 4.4 | 6.5 | 40.7 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 1943 PPT: | 3.4 | 2.9 | 15.0 | 4.9 | 0.3 | 0.8 | 3.8 | 4.7 | 35.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 2.0 | 0.0 | 0.0 | 4.1 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 4 |
| 1944 PPT: | 5.9 | 5.2 | 5.5 | 7.2 | 2.2 | 6.4 | 2.0 | 3.6 | 38.1 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 1.0 | 0.0 | 3.0 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 3 |
| 1945 PPT: | 8.3 | 10.9 | 4.5 | 6.7 | 6.2 | 2.4 | 9.6 | 2.8 | 51.4 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 1.0 | 0.0 | 2.0 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 |
| 1946 PPT: | 2.3 | 3.7 | 10.2 | 5.3 | 3.3 | 0.7 | 1.5 | 2.0 | 29.0 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 5.1 |
| NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 5 |
| 1947 PPT: | 1.2 | 7.0 | 7.1 | 6.5 | 2.2 | 0.9 | 4.2 | 3.9 | 32.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 2.1 | 1.1 | 1.0 | 5.3 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 1 | 5 |
| 1948 PPT: | 3.2 | 1.6 | 5.1 | 8.3 | 4.5 | 10.4 | 0.3 | 1.4 | 34.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 2.1 | 0.0 | 3.1 |
| NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 3 |

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| | | | | | | | | | | |
|------|-----------------|-----|------|------|------|------|-----|-----|-----|------|
| 1949 | PPT: | 2.5 | 1.8 | 9.2 | 4.8 | 4.2 | 1.0 | 6.7 | 3.7 | 34.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.1 | 1.1 | 0.0 | 3.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 3 |
| 1950 | PPT: | 1.6 | 4.5 | 14.4 | 4.0 | 7.5 | 4.9 | 3.0 | 1.1 | 41.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 1.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 1951 | PPT: | 2.0 | 3.0 | 2.5 | 10.6 | 1.7 | 1.9 | 4.5 | 6.6 | 32.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.0 | 0.0 | 0.0 | 2.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| 1952 | PPT: | 2.1 | 4.6 | 4.7 | 0.6 | 2.8 | 7.5 | 0.3 | 0.5 | 23.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 2.1 | 0.0 | 5.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 0 | 5 |
| 1953 | PPT: | 5.6 | 7.1 | 5.0 | 0.1 | 2.5 | 3.3 | 1.2 | 2.7 | 27.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 2.0 | 1.0 | 0.0 | 5.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 2 | 0 | 2 | 1 | 0 | 5 |
| 1954 | PPT: | 2.2 | 4.1 | 3.7 | 2.7 | 0.5 | 1.8 | 4.2 | 6.3 | 25.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 1.1 | 1.0 | 0.0 | 4.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 4 |
| 1955 | PPT: | 3.7 | 2.8 | 6.3 | 6.0 | 2.3 | 3.5 | 4.1 | 0.7 | 29.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 | 1.0 | 0.0 | 2.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 |
| 1956 | PPT: | 1.8 | 4.1 | 6.7 | 5.4 | 3.9 | 2.3 | 0.6 | 1.9 | 26.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 3.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 3 |
| 1957 | PPT: | 3.0 | 11.2 | 11.6 | 6.7 | 1.9 | 5.3 | 6.2 | 2.3 | 48.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.1 | 0.0 | 1.0 | 3.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 3 |
| 1958 | PPT: | 4.4 | 2.8 | 4.0 | 6.2 | 12.3 | 2.6 | 4.3 | 0.9 | 37.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 1.1 | 0.0 | 0.0 | 2.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 2 |
| 1959 | PPT: | 1.1 | 3.7 | 4.2 | 3.3 | 6.6 | 2.2 | 3.5 | 4.5 | 29.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 1.0 | 2.0 | 0.0 | 4.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 4 |
| 1960 | PPT: | 1.5 | 3.2 | 8.1 | 1.5 | 14.0 | 1.3 | 2.0 | 2.0 | 33.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 0.0 | 3.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 3 |
| 1961 | PPT: | 2.8 | 2.1 | 14.2 | 4.3 | 7.4 | 6.3 | 5.6 | 2.7 | 45.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 1.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 1962 | PPT: | 1.7 | 4.5 | 5.7 | 6.2 | 3.3 | 5.8 | 8.1 | 6.8 | 42.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 2.0 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 2 |

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| | | | | | | | | | | |
|-----------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1963 | PPT: | 1.0 | 1.7 | 3.8 | 2.4 | 2.8 | 4.1 | 1.2 | 0.0 | 17.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 0.0 | 1.0 | 1.0 | 4.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 4 |
| 1964 | PPT: | 2.3 | 3.3 | 3.5 | 5.3 | 0.5 | 9.6 | 4.0 | 0.3 | 28.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 1.0 | 1.0 | 1.0 | 5.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 1 | 5 |
| 1965 | PPT: | 1.1 | 6.0 | 3.8 | 7.1 | 1.7 | 6.4 | 3.0 | 1.1 | 30.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.0 | 0.0 | 1.0 | 3.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 3 |
| 1966 | PPT: | 1.6 | 5.9 | 2.8 | 2.6 | 3.3 | 5.1 | 0.9 | 0.6 | 22.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 0.0 | 1.0 | 1.0 | 4.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 4 |
| 1967 | PPT: | 1.0 | 5.0 | 4.3 | 6.1 | 2.4 | 0.7 | 2.4 | 8.1 | 30.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 0.0 | 3.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 3 |
| 1968 | PPT: | 5.6 | 3.7 | 5.7 | 4.0 | 2.9 | 3.9 | 4.0 | 1.5 | 31.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 1.1 | 0.0 | 2.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 |
| 1969 | PPT: | 2.6 | 3.7 | 7.1 | 3.6 | 1.2 | 1.2 | 2.2 | 9.4 | 31.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 2.1 | 1.0 | 0.0 | 4.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 4 |
| 1970 | PPT: | 1.9 | 7.7 | 0.9 | 2.9 | 0.8 | 1.2 | 9.9 | 7.8 | 33.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 1.1 | 0.0 | 0.0 | 3.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 3 |
| 1971 | PPT: | 0.5 | 3.5 | 4.1 | 3.0 | 3.2 | 1.6 | 3.6 | 2.9 | 22.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 1.0 | 1.0 | 0.0 | 3.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 3 |
| 1972 | PPT: | 1.4 | 5.3 | 2.2 | 2.5 | 7.1 | 2.1 | 7.0 | 5.8 | 33.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 3.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 3 |
| 1973 | PPT: | 6.7 | 8.0 | 7.2 | 6.0 | 1.2 | 2.1 | 6.9 | 5.5 | 43.7 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 2.1 | 0.0 | 0.0 | 3.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 3 |
| 1974 | PPT: | 4.0 | 6.8 | 5.4 | 7.1 | 1.1 | 6.3 | 7.9 | 3.7 | 42.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.1 | 1.0 | 0.0 | 0.0 | 0.0 | 2.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 2 |
| AVERAGE PPT. : | | 2.7 | 5.0 | 5.9 | 4.9 | 3.5 | 3.8 | 4.1 | 3.7 | 33.6 |
| AVE IRRIG AMT : | | 0.0 | 0.0 | 0.1 | 0.4 | 0.9 | 0.9 | 0.7 | 0.2 | 3.2 |
| AVE NO OF IRR : | | 0.0 | 0.0 | 0.1 | 0.4 | 0.9 | 0.8 | 0.7 | 0.2 | 3.1 |
| TIME 2.7 SECS. | | | | | | | | | | |

lk: Annual Irrigated Water Balance for Apples, Peaches; Sprinkler; Year 2

IRRIGATION SEASON FROM DAY 65 TO DAY 304

ASSUMES ACTUAL EVAPOTRANSPIRATION IS 30% OF PET

ASSUMES FIELD IS AT FIELD CAPACITY ON STARTING DAY

CROP IS AP2 PE2 OH

AVAILABLE SOIL MOISTURE IS 4.0 INCHES

IRRIGATION INITIATED WHEN 50% OF AVAIL. MOIST. REMAINS

| MONTHS: | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | TOT |
|-----------------|-----|------|------|-----|-----|------|-----|------|------|
| ET: | 0.2 | 0.9 | 1.6 | 2.1 | 2.5 | 2.5 | 2.0 | 1.1 | 12.9 |
| 1940 PPT: | 1.9 | 6.6 | 1.5 | 6.0 | 0.9 | 5.7 | 7.8 | 1.8 | 32.2 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1941 PPT: | 0.5 | 8.6 | 0.7 | 4.2 | 2.2 | 4.7 | 3.8 | 13.0 | 37.8 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 2.0 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 1942 PPT: | 0.8 | 7.1 | 6.0 | 6.8 | 2.1 | 7.0 | 4.4 | 6.5 | 40.7 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1943 PPT: | 3.4 | 2.9 | 15.0 | 4.9 | 0.3 | 0.8 | 3.8 | 4.7 | 35.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 2.0 | 0.0 | 0.0 | 4.1 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| 1944 PPT: | 5.9 | 5.2 | 5.5 | 7.2 | 2.2 | 6.4 | 2.0 | 3.6 | 38.1 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 2.0 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 1945 PPT: | 8.3 | 10.9 | 4.5 | 6.7 | 6.2 | 2.4 | 9.6 | 2.8 | 51.4 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1946 PPT: | 2.3 | 3.7 | 10.2 | 5.3 | 3.3 | 0.7 | 1.5 | 2.0 | 29.0 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 2.0 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 1947 PPT: | 1.2 | 7.0 | 7.1 | 6.5 | 2.2 | 0.9 | 4.2 | 3.9 | 32.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 2.0 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 1948 PPT: | 3.2 | 1.6 | 5.1 | 8.3 | 4.5 | 10.4 | 0.3 | 1.4 | 34.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 2.0 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |

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| | | | | | | | | | | |
|------|-----------------|-----|------|------|------|------|-----|-----|-----|------|
| 1949 | PPT: | 2.5 | 1.8 | 9.2 | 4.8 | 4.2 | 1.0 | 6.7 | 3.7 | 34.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 2.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 1950 | PPT: | 1.6 | 4.5 | 14.4 | 4.0 | 7.5 | 4.9 | 3.0 | 1.1 | 41.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1951 | PPT: | 2.0 | 3.0 | 2.5 | 10.6 | 1.7 | 1.9 | 4.5 | 6.6 | 32.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 2.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 1952 | PPT: | 2.1 | 4.6 | 4.7 | 0.6 | 2.8 | 7.5 | 0.3 | 0.5 | 23.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 2.0 | 0.0 | 4.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 |
| 1953 | PPT: | 5.6 | 7.1 | 5.0 | 0.1 | 2.5 | 3.3 | 1.2 | 2.7 | 27.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 1954 | PPT: | 2.2 | 4.1 | 3.7 | 2.7 | 0.5 | 1.8 | 4.2 | 6.3 | 25.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 2.0 | 0.0 | 4.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 |
| 1955 | PPT: | 3.7 | 2.8 | 6.3 | 6.0 | 2.3 | 3.5 | 4.1 | 0.7 | 29.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1956 | PPT: | 1.8 | 4.1 | 6.7 | 5.4 | 3.9 | 2.3 | 0.6 | 1.9 | 26.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 2.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 1957 | PPT: | 3.0 | 11.2 | 11.6 | 6.7 | 1.9 | 5.3 | 6.2 | 2.3 | 48.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1958 | PPT: | 4.4 | 2.8 | 4.0 | 6.2 | 12.3 | 2.6 | 4.3 | 0.9 | 37.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1959 | PPT: | 1.1 | 3.7 | 4.2 | 3.3 | 6.6 | 2.2 | 3.5 | 4.5 | 29.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 2.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 1960 | PPT: | 1.5 | 3.2 | 8.1 | 1.5 | 14.0 | 1.3 | 2.0 | 2.0 | 33.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 2.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 1961 | PPT: | 2.8 | 2.1 | 14.2 | 4.3 | 7.4 | 6.3 | 5.6 | 2.7 | 45.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1962 | PPT: | 1.7 | 4.5 | 5.7 | 6.2 | 3.3 | 5.8 | 8.1 | 6.8 | 42.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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| | | | | | | | | | | |
|-----------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1963 | PPT: | 1.0 | 1.7 | 3.8 | 2.4 | 2.8 | 4.1 | 1.2 | 0.0 | 17.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 2.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 1964 | PPT: | 2.3 | 3.3 | 3.5 | 5.3 | 0.5 | 9.6 | 4.0 | 0.3 | 28.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 0.0 | 2.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 1965 | PPT: | 1.1 | 6.0 | 3.8 | 7.1 | 1.7 | 6.4 | 3.0 | 1.1 | 30.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 2.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 1966 | PPT: | 1.6 | 5.9 | 2.8 | 2.6 | 3.3 | 5.1 | 0.9 | 0.6 | 22.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 2.0 | 4.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 2 |
| 1967 | PPT: | 1.0 | 5.0 | 4.3 | 6.1 | 2.4 | 0.7 | 2.4 | 8.1 | 30.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 2.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 1968 | PPT: | 5.6 | 3.7 | 5.7 | 4.0 | 2.9 | 3.9 | 4.0 | 1.5 | 31.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1969 | PPT: | 2.6 | 3.7 | 7.1 | 3.6 | 1.2 | 1.2 | 2.2 | 9.4 | 31.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 2.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 1970 | PPT: | 1.9 | 7.7 | 0.9 | 2.9 | 0.8 | 1.2 | 9.9 | 7.8 | 33.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 2.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 1971 | PPT: | 0.5 | 3.5 | 4.1 | 3.0 | 3.2 | 1.6 | 3.6 | 2.9 | 22.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1972 | PPT: | 1.4 | 5.3 | 2.2 | 2.5 | 7.1 | 2.1 | 7.0 | 5.8 | 33.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 2.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 1973 | PPT: | 6.7 | 8.0 | 7.2 | 6.0 | 1.2 | 2.1 | 6.9 | 5.5 | 43.7 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 2.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 1974 | PPT: | 4.0 | 6.8 | 5.4 | 7.1 | 1.1 | 6.3 | 7.9 | 3.7 | 42.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 2.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| AVERAGE PPT. : | | 2.7 | 5.0 | 5.9 | 4.9 | 3.5 | 3.8 | 4.1 | 3.7 | 33.6 |
| AVE IRRIG AMT : | | 0.0 | 0.0 | 0.0 | 0.1 | 0.5 | 0.4 | 0.5 | 0.2 | 1.6 |
| AVE NO OF IRR : | | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.2 | 0.2 | 0.1 | 0.8 |
| TIME 2.6 SECS. | | | | | | | | | | |

11: Annual Irrigated Water Balance for Peaches; Drip; Year 3

IRRIGATION SEASON FROM DAY 65 TO DAY 304

ASSUMES ACTUAL EVAPOTRANSPIRATION IS 40% OF PET

ASSUMES FIELD IS AT FIELD CAPACITY ON STARTING DAY

CROP IS PE3 DRIP

AVAILABLE SOIL MOISTURE IS 4.0INCHES

IRRIGATION INITIATED WHEN 75% OF AVAIL. MOIST. REMAINS

| MONTHS: | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | TOT |
|-----------------|-----|------|------|-----|-----|------|-----|------|------|
| ET: | 0.3 | 1.2 | 2.1 | 2.8 | 3.3 | 3.3 | 2.7 | 1.5 | 17.2 |
| 1940 PPT: | 1.9 | 6.6 | 1.5 | 6.0 | 0.9 | 5.7 | 7.8 | 1.8 | 32.2 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.1 | 2.0 | 1.0 | 1.0 | 1.0 | 6.1 |
| NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 1 | 1 | 1 | 6 |
| 1941 PPT: | 0.5 | 8.6 | 0.7 | 4.2 | 2.2 | 4.7 | 3.8 | 13.0 | 37.8 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 1.0 | 2.1 | 0.0 | 0.0 | 0.0 | 4.2 |
| NUMBER OF IRR : | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 4 |
| 1942 PPT: | 0.8 | 7.1 | 6.0 | 6.8 | 2.1 | 7.0 | 4.4 | 6.5 | 40.7 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.0 | 2.1 | 1.0 | 1.1 | 0.0 | 5.2 |
| NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 1 | 1 | 0 | 5 |
| 1943 PPT: | 3.4 | 2.9 | 15.0 | 4.9 | 0.3 | 0.8 | 3.8 | 4.7 | 35.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.2 | 2.1 | 1.0 | 0.0 | 6.3 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 3 | 2 | 1 | 0 | 6 |
| 1944 PPT: | 5.9 | 5.2 | 5.5 | 7.2 | 2.2 | 6.4 | 2.0 | 3.6 | 38.1 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.0 | 2.2 | 0.0 | 2.1 | 0.0 | 5.3 |
| NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 0 | 2 | 0 | 5 |
| 1945 PPT: | 8.3 | 10.9 | 4.5 | 6.7 | 6.2 | 2.4 | 9.6 | 2.8 | 51.4 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.0 | 1.1 | 1.0 | 1.0 | 0.0 | 4.1 |
| NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 4 |
| 1946 PPT: | 2.3 | 3.7 | 10.2 | 5.3 | 3.3 | 0.7 | 1.5 | 2.0 | 29.0 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.0 | 2.0 | 2.2 | 2.0 | 0.0 | 7.3 |
| NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 2 | 2 | 0 | 7 |
| 1947 PPT: | 1.2 | 7.0 | 7.1 | 6.5 | 2.2 | 0.9 | 4.2 | 3.9 | 32.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 2.2 | 1.0 | 1.1 | 6.4 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 1 | 6 |
| 1948 PPT: | 3.2 | 1.6 | 5.1 | 8.3 | 4.5 | 10.4 | 0.3 | 1.4 | 34.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 | 1.1 | 2.1 | 0.0 | 4.2 |
| NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 4 |

1 1 continued

| | | | | | | | | | | |
|------|-----------------|-----|------|------|------|------|-----|-----|-----|------|
| 1949 | PPT: | 2.5 | 1.8 | 9.2 | 4.8 | 4.2 | 1.0 | 6.7 | 3.7 | 34.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 | 3.2 | 1.0 | 1.0 | 7.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 3 | 1 | 1 | 7 |
| 1950 | PPT: | 1.6 | 4.5 | 14.4 | 4.0 | 7.5 | 4.9 | 3.0 | 1.1 | 41.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 1.0 | 0.0 | 1.0 | 3.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 3 |
| 1951 | PPT: | 2.0 | 3.0 | 2.5 | 10.6 | 1.7 | 1.9 | 4.5 | 6.6 | 32.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 2.2 | 1.1 | 0.0 | 4.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 4 |
| 1952 | PPT: | 2.1 | 4.6 | 4.7 | 0.6 | 2.8 | 7.5 | 0.3 | 0.5 | 23.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 2.1 | 1.1 | 1.0 | 3.1 | 1.0 | 9.4 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 2 | 1 | 1 | 3 | 1 | 9 |
| 1953 | PPT: | 5.6 | 7.1 | 5.0 | 0.1 | 2.5 | 3.3 | 1.2 | 2.7 | 27.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.2 | 1.1 | 2.1 | 1.0 | 1.0 | 8.5 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 3 | 1 | 2 | 1 | 1 | 8 |
| 1954 | PPT: | 2.2 | 4.1 | 3.7 | 2.7 | 0.5 | 1.8 | 4.2 | 6.3 | 25.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.0 | 3.1 | 2.1 | 1.1 | 0.0 | 7.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 3 | 2 | 1 | 0 | 7 |
| 1955 | PPT: | 3.7 | 2.8 | 6.3 | 6.0 | 2.3 | 3.5 | 4.1 | 0.7 | 29.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 2.1 | 1.0 | 5.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 5 |
| 1956 | PPT: | 1.8 | 4.1 | 6.7 | 5.4 | 3.9 | 2.3 | 0.6 | 1.9 | 26.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 2.1 | 2.1 | 0.0 | 5.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 0 | 5 |
| 1957 | PPT: | 3.0 | 11.2 | 11.6 | 6.7 | 1.9 | 5.3 | 6.2 | 2.3 | 48.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 2.1 | 0.0 | 1.0 | 4.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 1 | 4 |
| 1958 | PPT: | 4.4 | 2.8 | 4.0 | 6.2 | 12.3 | 2.6 | 4.3 | 0.9 | 37.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 1.0 | 0.0 | 1.0 | 1.0 | 1.0 | 5.1 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 5 |
| 1959 | PPT: | 1.1 | 3.7 | 4.2 | 3.3 | 6.6 | 2.2 | 3.5 | 4.5 | 29.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.0 | 1.1 | 1.0 | 2.1 | 0.0 | 5.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 0 | 5 |
| 1960 | PPT: | 1.5 | 3.2 | 8.1 | 1.5 | 14.0 | 1.3 | 2.0 | 2.0 | 33.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.1 | 1.0 | 2.1 | 2.1 | 1.0 | 7.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 2 | 2 | 1 | 7 |
| 1961 | PPT: | 2.8 | 2.1 | 14.2 | 4.3 | 7.4 | 6.3 | 5.6 | 2.7 | 45.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 1.1 | 1.0 | 0.0 | 4.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 4 |
| 1962 | PPT: | 1.7 | 4.5 | 5.7 | 6.2 | 3.3 | 5.8 | 8.1 | 6.8 | 42.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 0.0 | 1.1 | 2.1 | 0.0 | 0.0 | 4.3 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 4 |

1 1 continued

| | | | | | | | | | | |
|-----------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1963 | PPT: | 1.0 | 1.7 | 3.8 | 2.4 | 2.8 | 4.1 | 1.2 | 0.0 | 17.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 1.1 | 2.1 | 2.1 | 1.0 | 2.1 | 9.4 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 2 | 2 | 1 | 2 | 9 |
| 1964 | PPT: | 2.3 | 3.3 | 3.5 | 5.3 | 0.5 | 9.6 | 4.0 | 0.3 | 28.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 1.1 | 2.1 | 1.1 | 1.1 | 1.0 | 7.3 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 2 | 1 | 1 | 1 | 7 |
| 1965 | PPT: | 1.1 | 6.0 | 3.8 | 7.1 | 1.7 | 6.4 | 3.0 | 1.1 | 30.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 2.0 | 1.1 | 1.0 | 6.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 1 | 6 |
| 1966 | PPT: | 1.6 | 5.9 | 2.8 | 2.6 | 3.3 | 5.1 | 0.9 | 0.6 | 22.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 2.2 | 0.0 | 2.1 | 1.0 | 7.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 2 | 2 | 0 | 2 | 1 | 7 |
| 1967 | PPT: | 1.0 | 5.0 | 4.3 | 6.1 | 2.4 | 0.7 | 2.4 | 8.1 | 30.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 3.2 | 1.1 | 1.0 | 7.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 3 | 1 | 1 | 7 |
| 1968 | PPT: | 5.6 | 3.7 | 5.7 | 4.0 | 2.9 | 3.9 | 4.0 | 1.5 | 31.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.0 | 1.1 | 0.0 | 3.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 3 |
| 1969 | PPT: | 2.6 | 3.7 | 7.1 | 3.6 | 1.2 | 1.2 | 2.2 | 9.4 | 31.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 3.2 | 1.0 | 0.0 | 6.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 3 | 1 | 0 | 6 |
| 1970 | PPT: | 1.9 | 7.7 | 0.9 | 2.9 | 0.8 | 1.2 | 9.9 | 7.8 | 33.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 1.1 | 2.0 | 2.1 | 0.0 | 0.0 | 6.3 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 2 | 2 | 0 | 0 | 6 |
| 1971 | PPT: | 0.5 | 3.5 | 4.1 | 3.0 | 3.2 | 1.6 | 3.6 | 2.9 | 22.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.0 | 1.1 | 2.2 | 0.0 | 0.0 | 4.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 4 |
| 1972 | PPT: | 1.4 | 5.3 | 2.2 | 2.5 | 7.1 | 2.1 | 7.0 | 5.8 | 33.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 2.1 | 1.0 | 0.0 | 6.3 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 1 | 2 | 1 | 0 | 6 |
| 1973 | PPT: | 6.7 | 8.0 | 7.2 | 6.0 | 1.2 | 2.1 | 6.9 | 5.5 | 43.7 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 2.2 | 1.0 | 0.0 | 5.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 0 | 5 |
| 1974 | PPT: | 4.0 | 6.8 | 5.4 | 7.1 | 1.1 | 6.3 | 7.9 | 3.7 | 42.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.0 | 2.2 | 1.1 | 0.0 | 0.0 | 4.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 4 |
| AVERAGE PPT. : | | 2.7 | 5.0 | 5.9 | 4.9 | 3.5 | 3.8 | 4.1 | 3.7 | 33.6 |
| AVE IRRIG AMT : | | 0.0 | 0.0 | 0.2 | 0.8 | 1.5 | 1.6 | 1.1 | 0.5 | 5.8 |
| AVE NO OF IRR : | | 0.0 | 0.0 | 0.2 | 0.8 | 1.5 | 1.5 | 1.1 | 0.5 | 5.5 |
| TIME 2.7 SECS. | | | | | | | | | | |

lm: Annual Irrigated Water Balance for Peaches; Sprinkler; Year 3

IRRIGATION SEASON FROM DAY 65 TO DAY 304

ASSUMES ACTUAL EVAPOTRANSPIRATION IS 40% OF PET

ASSUMES FIELD IS AT FIELD CAPACITY ON STARTING DAY

CROP IS PE3 OH

AVAILABLE SOIL MOISTURE IS 4.0INCHES

IRRIGATION INITIATED WHEN 50% OF AVAIL. MOIST. REMAINS

| MONTHS: | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | TOT |
|-----------------|-----|------|------|-----|-----|------|-----|------|------|
| ET: | 0.3 | 1.2 | 2.1 | 2.8 | 3.3 | 3.3 | 2.7 | 1.5 | 17.2 |
| 1940 PPT: | 1.9 | 6.6 | 1.5 | 6.0 | 0.9 | 5.7 | 7.8 | 1.8 | 32.2 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 2.0 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 1941 PPT: | 0.5 | 8.6 | 0.7 | 4.2 | 2.2 | 4.7 | 3.8 | 13.0 | 37.8 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 0.0 | 2.1 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 1942 PPT: | 0.8 | 7.1 | 6.0 | 6.8 | 2.1 | 7.0 | 4.4 | 6.5 | 40.7 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 0.0 | 2.1 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 1943 PPT: | 3.4 | 2.9 | 15.0 | 4.9 | 0.3 | 0.8 | 3.8 | 4.7 | 35.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 2.1 | 0.0 | 0.0 | 4.1 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| 1944 PPT: | 5.9 | 5.2 | 5.5 | 7.2 | 2.2 | 6.4 | 2.0 | 3.6 | 38.1 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 2.1 | 0.0 | 4.1 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 |
| 1945 PPT: | 8.3 | 10.9 | 4.5 | 6.7 | 6.2 | 2.4 | 9.6 | 2.8 | 51.4 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 2.0 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 1946 PPT: | 2.3 | 3.7 | 10.2 | 5.3 | 3.3 | 0.7 | 1.5 | 2.0 | 29.0 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 2.1 | 0.0 | 2.0 | 6.1 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 3 |
| 1947 PPT: | 1.2 | 7.0 | 7.1 | 6.5 | 2.2 | 0.9 | 4.2 | 3.9 | 32.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 2.1 | 0.0 | 0.0 | 4.1 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| 1948 PPT: | 3.2 | 1.6 | 5.1 | 8.3 | 4.5 | 10.4 | 0.3 | 1.4 | 34.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 2.1 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |

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|------|-----------------|-----|------|------|------|------|-----|-----|-----|------|
| 1949 | PPT: | 2.5 | 1.8 | 9.2 | 4.8 | 4.2 | 1.0 | 6.7 | 3.7 | 34.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 2.0 | 0.0 | 0.0 | 4.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| 1950 | PPT: | 1.6 | 4.5 | 14.4 | 4.0 | 7.5 | 4.9 | 3.0 | 1.1 | 41.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1951 | PPT: | 2.0 | 3.0 | 2.5 | 10.6 | 1.7 | 1.9 | 4.5 | 6.6 | 32.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 2.0 | 0.0 | 4.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 |
| 1952 | PPT: | 2.1 | 4.6 | 4.7 | 0.6 | 2.8 | 7.5 | 0.3 | 0.5 | 23.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 2.1 | 2.0 | 6.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 3 |
| 1953 | PPT: | 5.6 | 7.1 | 5.0 | 0.1 | 2.5 | 3.3 | 1.2 | 2.7 | 27.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.0 | 2.1 | 0.0 | 2.0 | 0.0 | 6.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 3 |
| 1954 | PPT: | 2.2 | 4.1 | 3.7 | 2.7 | 0.5 | 1.8 | 4.2 | 6.3 | 25.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 2.1 | 2.0 | 0.0 | 6.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 3 |
| 1955 | PPT: | 3.7 | 2.8 | 6.3 | 6.0 | 2.3 | 3.5 | 4.1 | 0.7 | 29.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 2.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 1956 | PPT: | 1.8 | 4.1 | 6.7 | 5.4 | 3.9 | 2.3 | 0.6 | 1.9 | 26.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 2.0 | 4.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 |
| 1957 | PPT: | 3.0 | 11.2 | 11.6 | 6.7 | 1.9 | 5.3 | 6.2 | 2.3 | 48.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 2.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 1958 | PPT: | 4.4 | 2.8 | 4.0 | 6.2 | 12.3 | 2.6 | 4.3 | 0.9 | 37.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 2.1 | 0.0 | 4.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 2 |
| 1959 | PPT: | 1.1 | 3.7 | 4.2 | 3.3 | 6.6 | 2.2 | 3.5 | 4.5 | 29.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 2.1 | 0.0 | 4.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 |
| 1960 | PPT: | 1.5 | 3.2 | 8.1 | 1.5 | 14.0 | 1.3 | 2.0 | 2.0 | 33.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 2.1 | 2.0 | 0.0 | 6.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 3 |
| 1961 | PPT: | 2.8 | 2.1 | 14.2 | 4.3 | 7.4 | 6.3 | 5.6 | 2.7 | 45.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 2.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 1962 | PPT: | 1.7 | 4.5 | 5.7 | 6.2 | 3.3 | 5.8 | 8.1 | 6.8 | 42.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 2.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |

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|-----------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1963 | PPT: | 1.0 | 1.7 | 3.8 | 2.4 | 2.8 | 4.1 | 1.2 | 0.0 | 17.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 2.0 | 0.0 | 4.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 |
| 1964 | PPT: | 2.3 | 3.3 | 3.5 | 5.3 | 0.5 | 9.6 | 4.0 | 0.3 | 28.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 2.1 | 0.0 | 0.0 | 4.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| 1965 | PPT: | 1.1 | 6.0 | 3.8 | 7.1 | 1.7 | 6.4 | 3.0 | 1.1 | 30.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 0.0 | 2.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 1966 | PPT: | 1.6 | 5.9 | 2.8 | 2.6 | 3.3 | 5.1 | 0.9 | 0.6 | 22.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 2.0 | 0.0 | 4.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 2 |
| 1967 | PPT: | 1.0 | 5.0 | 4.3 | 6.1 | 2.4 | 0.7 | 2.4 | 8.1 | 30.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.0 | 0.0 | 0.0 | 4.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 |
| 1968 | PPT: | 5.6 | 3.7 | 5.7 | 4.0 | 2.9 | 3.9 | 4.0 | 1.5 | 31.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 2.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 1969 | PPT: | 2.6 | 3.7 | 7.1 | 3.6 | 1.2 | 1.2 | 2.2 | 9.4 | 31.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 2.0 | 0.0 | 2.0 | 6.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 3 |
| 1970 | PPT: | 1.9 | 7.7 | 0.9 | 2.9 | 0.8 | 1.2 | 9.9 | 7.8 | 33.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 4.1 | 0.0 | 0.0 | 6.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 3 |
| 1971 | PPT: | 0.5 | 3.5 | 4.1 | 3.0 | 3.2 | 1.6 | 3.6 | 2.9 | 22.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 2.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 1972 | PPT: | 1.4 | 5.3 | 2.2 | 2.5 | 7.1 | 2.1 | 7.0 | 5.8 | 33.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 2.1 | 2.0 | 0.0 | 6.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 3 |
| 1973 | PPT: | 6.7 | 8.0 | 7.2 | 6.0 | 1.2 | 2.1 | 6.9 | 5.5 | 43.7 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 2.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 1974 | FPT: | 4.0 | 6.8 | 5.4 | 7.1 | 1.1 | 6.3 | 7.9 | 3.7 | 42.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 4.1 | 0.0 | 0.0 | 0.0 | 4.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 |
| AVERAGE PPT. : | | 2.7 | 5.0 | 5.9 | 4.9 | 3.5 | 3.8 | 4.1 | 3.7 | 33.6 |
| AVE IRRIG AMT : | | 0.0 | 0.0 | 0.0 | 0.3 | 1.2 | 1.1 | 0.9 | 0.2 | 3.7 |
| AVE NO OF IRR : | | 0.0 | 0.0 | 0.0 | 0.1 | 0.6 | 0.5 | 0.4 | 0.1 | 1.8 |
| TIME 2.7 SECS. | | | | | | | | | | |

In: Annual Irrigated Water Balance for Apples Year 3, Peaches Year 4; Drip

IRRIGATION SEASON FROM DAY 65 TO DAY 304

ASSUMES ACTUAL EVAPOTRANSPIRATION IS 50% OF PET

ASSUMES FIELD IS AT FIELD CAPACITY ON STARTING DAY

CROP IS AP3 PE4 DR

AVAILABLE SOIL MOISTURE IS 4.0INCHES

IRRIGATION INITIATED WHEN 75% OF AVAIL. MOIST. REMAINS

| MONTHS: | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | TOT |
|-----------------|-----|------|------|-----|-----|------|-----|------|------|
| ET: | 0.4 | 1.5 | 2.6 | 3.5 | 4.1 | 4.1 | 3.4 | 1.9 | 21.4 |
| 1940 PPT: | 1.9 | 6.6 | 1.5 | 6.0 | 0.9 | 5.7 | 7.8 | 1.8 | 32.2 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 1.1 | 3.1 | 1.0 | 2.1 | 1.0 | 9.3 |
| NUMBER OF IRR : | 0 | 0 | 1 | 1 | 3 | 1 | 2 | 1 | 9 |
| 1941 PPT: | 0.5 | 8.6 | 0.7 | 4.2 | 2.2 | 4.7 | 3.8 | 13.0 | 37.8 |
| IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 2.1 | 2.1 | 1.1 | 1.0 | 0.0 | 8.5 |
| NUMBER OF IRR : | 0 | 0 | 2 | 2 | 2 | 1 | 1 | 0 | 8 |
| 1942 PPT: | 0.8 | 7.1 | 6.0 | 6.8 | 2.1 | 7.0 | 4.4 | 6.5 | 40.7 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 2.1 | 1.0 | 1.0 | 0.0 | 6.2 |
| NUMBER OF IRR : | 0 | 0 | 0 | 2 | 2 | 1 | 1 | 0 | 6 |
| 1943 PPT: | 3.4 | 2.9 | 15.0 | 4.9 | 0.3 | 0.8 | 3.8 | 4.7 | 35.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 0.0 | 4.2 | 3.1 | 1.1 | 0.0 | 9.5 |
| NUMBER OF IRR : | 0 | 0 | 1 | 0 | 4 | 3 | 1 | 0 | 9 |
| 1944 PPT: | 5.9 | 5.2 | 5.5 | 7.2 | 2.2 | 6.4 | 2.0 | 3.6 | 38.1 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 1.0 | 3.2 | 1.0 | 2.1 | 1.0 | 9.3 |
| NUMBER OF IRR : | 0 | 0 | 1 | 1 | 3 | 1 | 2 | 1 | 9 |
| 1945 PPT: | 8.3 | 10.9 | 4.5 | 6.7 | 6.2 | 2.4 | 9.6 | 2.8 | 51.4 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 0.0 | 1.1 | 2.2 | 2.1 | 1.0 | 7.5 |
| NUMBER OF IRR : | 0 | 0 | 1 | 0 | 1 | 2 | 2 | 1 | 7 |
| 1946 PPT: | 2.3 | 3.7 | 10.2 | 5.3 | 3.3 | 0.7 | 1.5 | 2.0 | 29.0 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.1 | 3.1 | 3.2 | 2.1 | 1.0 | 10.5 |
| NUMBER OF IRR : | 0 | 0 | 0 | 1 | 3 | 3 | 2 | 1 | 10 |
| 1947 PPT: | 1.2 | 7.0 | 7.1 | 6.5 | 2.2 | 0.9 | 4.2 | 3.9 | 32.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 3.3 | 2.0 | 2.1 | 9.5 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 3 | 2 | 2 | 9 |
| 1948 PPT: | 3.2 | 1.6 | 5.1 | 8.3 | 4.5 | 10.4 | 0.3 | 1.4 | 34.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 2.2 | 3.2 | 1.0 | 7.4 |
| NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 2 | 3 | 1 | 7 |

In continued

| | | | | | | | | | | |
|------|-----------------|-----|------|------|------|------|-----|-----|-----|------|
| 1949 | PPT: | 2.5 | 1.8 | 9.2 | 4.8 | 4.2 | 1.0 | 6.7 | 3.7 | 34.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.1 | 3.2 | 3.2 | 2.0 | 0.0 | 9.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 3 | 3 | 2 | 0 | 9 |
| 1950 | PPT: | 1.6 | 4.5 | 14.4 | 4.0 | 7.5 | 4.9 | 3.0 | 1.1 | 41.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 2.1 | 1.0 | 2.0 | 6.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 2 | 1 | 2 | 6 |
| 1951 | PPT: | 2.0 | 3.0 | 2.5 | 10.6 | 1.7 | 1.9 | 4.5 | 6.6 | 32.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.1 | 2.1 | 2.2 | 1.1 | 0.0 | 6.5 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 2 | 1 | 0 | 6 |
| 1952 | PPT: | 2.1 | 4.6 | 4.7 | 0.6 | 2.8 | 7.5 | 0.3 | 0.5 | 23.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 3.2 | 3.1 | 1.0 | 3.2 | 1.0 | 12.6 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 3 | 3 | 1 | 3 | 1 | 12 |
| 1953 | PPT: | 5.6 | 7.1 | 5.0 | 0.1 | 2.5 | 3.3 | 1.2 | 2.7 | 27.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 3.1 | 2.1 | 2.2 | 2.1 | 1.0 | 11.5 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 3 | 2 | 2 | 2 | 1 | 11 |
| 1954 | PPT: | 2.2 | 4.1 | 3.7 | 2.7 | 0.5 | 1.8 | 4.2 | 6.3 | 25.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.2 | 3.2 | 3.2 | 2.1 | 0.0 | 11.7 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 3 | 3 | 3 | 2 | 0 | 11 |
| 1955 | PPT: | 3.7 | 2.8 | 6.3 | 6.0 | 2.3 | 3.5 | 4.1 | 0.7 | 29.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 2.1 | 2.1 | 1.0 | 7.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 1 | 7 |
| 1956 | PPT: | 1.8 | 4.1 | 6.7 | 5.4 | 3.9 | 2.3 | 0.6 | 1.9 | 26.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 2.1 | 2.2 | 1.0 | 6.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 1 | 6 |
| 1957 | PPT: | 3.0 | 11.2 | 11.6 | 6.7 | 1.9 | 5.3 | 6.2 | 2.3 | 48.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.2 | 2.0 | 0.0 | 1.1 | 6.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 1 | 6 |
| 1958 | PPT: | 4.4 | 2.8 | 4.0 | 6.2 | 12.3 | 2.6 | 4.3 | 0.9 | 37.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 1.1 | 1.0 | 2.0 | 1.1 | 1.0 | 7.3 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 1 | 2 | 1 | 1 | 7 |
| 1959 | PPT: | 1.1 | 3.7 | 4.2 | 3.3 | 6.6 | 2.2 | 3.5 | 4.5 | 29.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 1.0 | 3.1 | 2.1 | 0.0 | 8.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 2 | 1 | 3 | 2 | 0 | 8 |
| 1960 | PPT: | 1.5 | 3.2 | 8.1 | 1.5 | 14.0 | 1.3 | 2.0 | 2.0 | 33.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.0 | 1.0 | 3.3 | 2.1 | 1.0 | 9.5 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 2 | 1 | 3 | 2 | 1 | 9 |
| 1961 | PPT: | 2.8 | 2.1 | 14.2 | 4.3 | 7.4 | 6.3 | 5.6 | 2.7 | 45.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.0 | 2.1 | 3.2 | 1.1 | 0.0 | 7.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 3 | 1 | 0 | 7 |
| 1962 | PPT: | 1.7 | 4.5 | 5.7 | 6.2 | 3.3 | 5.8 | 8.1 | 6.8 | 42.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 0.0 | 2.1 | 3.2 | 0.0 | 0.0 | 6.4 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 2 | 3 | 0 | 0 | 6 |

In continued

| | | | | | | | | | | |
|-----------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1963 | PPT: | 1.0 | 1.7 | 3.8 | 2.4 | 2.8 | 4.1 | 1.2 | 0.0 | 17.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 1.0 | 3.2 | 2.1 | 3.1 | 2.0 | 12.6 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 3 | 2 | 3 | 2 | 12 |
| 1964 | PPT: | 2.3 | 3.3 | 3.5 | 5.3 | 0.5 | 9.6 | 4.0 | 0.3 | 28.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 1.1 | 3.1 | 1.0 | 1.0 | 1.0 | 8.4 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 3 | 1 | 1 | 1 | 8 |
| 1965 | PPT: | 1.1 | 6.0 | 3.8 | 7.1 | 1.7 | 6.4 | 3.0 | 1.1 | 30.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.0 | 3.1 | 2.1 | 1.1 | 1.1 | 8.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 3 | 2 | 1 | 1 | 8 |
| 1966 | PPT: | 1.6 | 5.9 | 2.8 | 2.6 | 3.3 | 5.1 | 0.9 | 0.6 | 22.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 2.2 | 2.2 | 0.0 | 3.2 | 1.0 | 9.7 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 2 | 2 | 0 | 3 | 1 | 9 |
| 1967 | PPT: | 1.0 | 5.0 | 4.3 | 6.1 | 2.4 | 0.7 | 2.4 | 8.1 | 30.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 2.1 | 2.1 | 3.2 | 1.0 | 1.1 | 10.5 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 2 | 2 | 3 | 1 | 1 | 10 |
| 1968 | PPT: | 5.6 | 3.7 | 5.7 | 4.0 | 2.9 | 3.9 | 4.0 | 1.5 | 31.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.1 | 3.2 | 2.2 | 1.1 | 1.0 | 8.5 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 3 | 2 | 1 | 1 | 8 |
| 1969 | PPT: | 2.6 | 3.7 | 7.1 | 3.6 | 1.2 | 1.2 | 2.2 | 9.4 | 31.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 | 2.2 | 2.1 | 1.1 | 9.6 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 4 | 2 | 2 | 1 | 9 |
| 1970 | PPT: | 1.9 | 7.7 | 0.9 | 2.9 | 0.8 | 1.2 | 9.9 | 7.8 | 33.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 2.1 | 3.1 | 3.2 | 0.0 | 0.0 | 9.5 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 2 | 3 | 3 | 0 | 0 | 9 |
| 1971 | PPT: | 0.5 | 3.5 | 4.1 | 3.0 | 3.2 | 1.6 | 3.6 | 2.9 | 22.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 1.1 | 3.1 | 1.0 | 1.0 | 8.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 2 | 1 | 3 | 1 | 1 | 8 |
| 1972 | PPT: | 1.4 | 5.3 | 2.2 | 2.5 | 7.1 | 2.1 | 7.0 | 5.8 | 33.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 2.1 | 3.2 | 2.2 | 2.1 | 1.1 | 11.7 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 2 | 3 | 2 | 2 | 1 | 11 |
| 1973 | PPT: | 6.7 | 8.0 | 7.2 | 6.0 | 1.2 | 2.1 | 6.9 | 5.5 | 43.7 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.0 | 3.2 | 2.2 | 2.1 | 0.0 | 8.5 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 3 | 2 | 2 | 0 | 8 |
| 1974 | PPT: | 4.0 | 6.8 | 5.4 | 7.1 | 1.1 | 6.3 | 7.9 | 3.7 | 42.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.2 | 2.1 | 2.1 | 0.0 | 1.0 | 7.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 2 | 2 | 2 | 0 | 1 | 7 |
| AVERAGE PPT. : | | 2.7 | 5.0 | 5.9 | 4.9 | 3.5 | 3.8 | 4.1 | 3.7 | 33.6 |
| AVE IRRIG AMT : | | 0.0 | 0.0 | 0.5 | 1.3 | 2.3 | 2.3 | 1.6 | 0.8 | 8.8 |
| AVE NO OF IRR : | | 0.0 | 0.0 | 0.5 | 1.2 | 2.2 | 2.1 | 1.5 | 0.8 | 8.3 |
| TIME 2.7 SECS. | | | | | | | | | | |

10: Annual Irrigated Water Balance for Apples Year 3, Peaches Year 4; Sprinkler

IRRIGATION SEASON FROM DAY 65 TO DAY 304

ASSUMES ACTUAL EVAPOTRANSPIRATION IS 50% OF PET

ASSUMES FIELD IS AT FIELD CAPACITY ON STARTING DAY

CROP IS AP3 PE4 OH

AVAILABLE SOIL MOISTURE IS 6.0INCHES

IRRIGATION INITIATED WHEN 50% OF AVAIL. MOIST. REMAINS

| MONTHS: | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | TOT |
|-----------------|-----|------|------|-----|-----|------|-----|------|------|
| ET: | 0.4 | 1.5 | 2.6 | 3.5 | 4.1 | 4.1 | 3.4 | 1.9 | 21.4 |
| 1940 PPT: | 1.9 | 6.6 | 1.5 | 6.0 | 0.9 | 5.7 | 7.8 | 1.8 | 32.2 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 0.0 | 0.0 | 0.0 | 3.1 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 1941 PPT: | 0.5 | 8.6 | 0.7 | 4.2 | 2.2 | 4.7 | 3.8 | 13.0 | 37.8 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 0.0 | 0.0 | 0.0 | 3.1 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 1942 PPT: | 0.8 | 7.1 | 6.0 | 6.8 | 2.1 | 7.0 | 4.4 | 6.5 | 40.7 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 0.0 | 0.0 | 0.0 | 3.1 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 1943 PPT: | 3.4 | 2.9 | 15.0 | 4.9 | 0.3 | 0.8 | 3.8 | 4.7 | 35.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 3.1 | 0.0 | 0.0 | 6.1 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| 1944 PPT: | 5.9 | 5.2 | 5.5 | 7.2 | 2.2 | 6.4 | 2.0 | 3.6 | 38.1 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 0.0 | 0.0 | 0.0 | 3.0 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 1945 PPT: | 8.3 | 10.9 | 4.5 | 6.7 | 6.2 | 2.4 | 9.6 | 2.8 | 51.4 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 0.0 | 3.0 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 1946 PPT: | 2.3 | 3.7 | 10.2 | 5.3 | 3.3 | 0.7 | 1.5 | 2.0 | 29.0 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 3.1 | 0.0 | 3.0 | 9.2 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 3 |
| 1947 PPT: | 1.2 | 7.0 | 7.1 | 6.5 | 2.2 | 0.9 | 4.2 | 3.9 | 32.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.2 | 0.0 | 0.0 | 6.2 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 |
| 1948 PPT: | 3.2 | 1.6 | 5.1 | 8.3 | 4.5 | 10.4 | 0.3 | 1.4 | 34.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 0.0 | 3.1 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |

10 continued

| | | | | | | | | | | |
|------|-----------------|-----|------|------|------|------|-----|-----|-----|------|
| 1949 | PPT: | 2.5 | 1.8 | 9.2 | 4.8 | 4.2 | 1.0 | 6.7 | 3.7 | 34.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 3.0 | 0.0 | 6.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 |
| 1950 | PPT: | 1.6 | 4.5 | 14.4 | 4.0 | 7.5 | 4.9 | 3.0 | 1.1 | 41.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1951 | PPT: | 2.0 | 3.0 | 2.5 | 10.6 | 1.7 | 1.9 | 4.5 | 6.6 | 32.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 0.0 | 0.0 | 3.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 1952 | PPT: | 2.1 | 4.6 | 4.7 | 0.6 | 2.8 | 7.5 | 0.3 | 0.5 | 23.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.1 | 0.0 | 0.0 | 3.1 | 0.0 | 6.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 2 |
| 1953 | PPT: | 5.6 | 7.1 | 5.0 | 0.1 | 2.5 | 3.3 | 1.2 | 2.7 | 27.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.1 | 3.0 | 0.0 | 3.0 | 0.0 | 9.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 3 |
| 1954 | PPT: | 2.2 | 4.1 | 3.7 | 2.7 | 0.5 | 1.8 | 4.2 | 6.3 | 25.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 3.1 | 3.0 | 0.0 | 9.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 3 |
| 1955 | PPT: | 3.7 | 2.8 | 6.3 | 6.0 | 2.3 | 3.5 | 4.1 | 0.7 | 29.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 0.0 | 0.0 | 3.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 1956 | PPT: | 1.8 | 4.1 | 6.7 | 5.4 | 3.9 | 2.3 | 0.6 | 1.9 | 26.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 3.0 | 6.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 |
| 1957 | PPT: | 3.0 | 11.2 | 11.6 | 6.7 | 1.9 | 5.3 | 6.2 | 2.3 | 48.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 0.0 | 0.0 | 3.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 1958 | PPT: | 4.4 | 2.8 | 4.0 | 6.2 | 12.3 | 2.6 | 4.3 | 0.9 | 37.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 0.0 | 3.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 1959 | PPT: | 1.1 | 3.7 | 4.2 | 3.3 | 6.6 | 2.2 | 3.5 | 4.5 | 29.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 0.0 | 3.0 | 0.0 | 6.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 |
| 1960 | PPT: | 1.5 | 3.2 | 8.1 | 1.5 | 14.0 | 1.3 | 2.0 | 2.0 | 33.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 3.0 | 0.0 | 0.0 | 6.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| 1961 | PPT: | 2.8 | 2.1 | 14.2 | 4.3 | 7.4 | 6.3 | 5.6 | 2.7 | 45.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 0.0 | 0.0 | 3.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 1962 | PPT: | 1.7 | 4.5 | 5.7 | 6.2 | 3.3 | 5.8 | 8.1 | 6.8 | 42.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 0.0 | 0.0 | 3.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |

10 continued

| | | | | | | | | | | |
|-----------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1963 | PPT: | 1.0 | 1.7 | 3.8 | 2.4 | 2.8 | 4.1 | 1.2 | 0.0 | 17.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 0.0 | 3.1 | 0.0 | 6.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 |
| 1964 | PPT: | 2.3 | 3.3 | 3.5 | 5.3 | 0.5 | 9.6 | 4.0 | 0.3 | 28.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 0.0 | 0.0 | 0.0 | 3.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 1965 | PPT: | 1.1 | 6.0 | 3.8 | 7.1 | 1.7 | 6.4 | 3.0 | 1.1 | 30.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 0.0 | 0.0 | 0.0 | 3.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 1966 | PPT: | 1.6 | 5.9 | 2.8 | 2.6 | 3.3 | 5.1 | 0.9 | 0.6 | 22.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 0.0 | 3.1 | 0.0 | 6.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 |
| 1967 | PPT: | 1.0 | 5.0 | 4.3 | 6.1 | 2.4 | 0.7 | 2.4 | 8.1 | 30.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 3.0 | 0.0 | 6.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 |
| 1968 | PPT: | 5.6 | 3.7 | 5.7 | 4.0 | 2.9 | 3.9 | 4.0 | 1.5 | 31.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 0.0 | 3.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 1969 | PPT: | 2.6 | 3.7 | 7.1 | 3.6 | 1.2 | 1.2 | 2.2 | 9.4 | 31.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 3.0 | 0.0 | 0.0 | 6.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| 1970 | PPT: | 1.9 | 7.7 | 0.9 | 2.9 | 0.8 | 1.2 | 9.9 | 7.8 | 33.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 3.1 | 0.0 | 0.0 | 6.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| 1971 | PPT: | 0.5 | 3.5 | 4.1 | 3.0 | 3.2 | 1.6 | 3.6 | 2.9 | 22.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 0.0 | 0.0 | 3.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 1972 | PPT: | 1.4 | 5.3 | 2.2 | 2.5 | 7.1 | 2.1 | 7.0 | 5.8 | 33.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.1 | 0.0 | 3.1 | 0.0 | 0.0 | 6.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 2 |
| 1973 | PPT: | 6.7 | 8.0 | 7.2 | 6.0 | 1.2 | 2.1 | 6.9 | 5.5 | 43.7 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 0.0 | 0.0 | 0.0 | 3.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 1974 | PPT: | 4.0 | 6.8 | 5.4 | 7.1 | 1.1 | 6.3 | 7.9 | 3.7 | 42.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 0.0 | 0.0 | 0.0 | 3.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| AVERAGE PPT. : | | 2.7 | 5.0 | 5.9 | 4.9 | 3.5 | 3.8 | 4.1 | 3.7 | 33.6 |
| AVE IRRIG AMT : | | 0.0 | 0.0 | 0.0 | 0.3 | 1.6 | 1.5 | 1.1 | 0.2 | 4.6 |
| AVE NO OF IRR : | | 0.0 | 0.0 | 0.0 | 0.1 | 0.5 | 0.5 | 0.4 | 0.1 | 1.5 |
| TIME 2.6 SECS. | | | | | | | | | | |

lp: Annual Irrigated Water Balance for Apples Year 4, Peaches Year 5; Drip

IRRIGATION SEASON FROM DAY 65 TO DAY 304

ASSUMES ACTUAL EVAPOTRANSPIRATION IS 60% OF PET

ASSUMES FIELD IS AT FIELD CAPACITY ON STARTING DAY

CROP IS AP4 PE5 DR

AVAILABLE SOIL MOISTURE IS 4.0INCHES

IRRIGATION INITIATED WHEN 75% OF AVAIL. MOIST. REMAINS

| MONTHS: | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | TOT |
|-----------------|-----|------|------|-----|-----|------|-----|------|------|
| ET: | 0.4 | 1.8 | 3.2 | 4.1 | 4.9 | 5.0 | 4.0 | 2.3 | 25.7 |
| 1940 PPT: | 1.9 | 6.6 | 1.5 | 6.0 | 0.9 | 5.7 | 7.8 | 1.8 | 32.2 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 1.1 | 4.4 | 1.1 | 2.1 | 1.0 | 10.6 |
| NUMBER OF IRR : | 0 | 0 | 1 | 1 | 4 | 1 | 2 | 1 | 10 |
| 1941 PPT: | 0.5 | 8.6 | 0.7 | 4.2 | 2.2 | 4.7 | 3.8 | 13.0 | 37.8 |
| IRRIGATION AMT: | 0.0 | 0.0 | 2.2 | 2.1 | 3.2 | 3.3 | 1.1 | 0.0 | 11.9 |
| NUMBER OF IRR : | 0 | 0 | 2 | 2 | 3 | 3 | 1 | 0 | 11 |
| 1942 PPT: | 0.8 | 7.1 | 6.0 | 6.8 | 2.1 | 7.0 | 4.4 | 6.5 | 40.7 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 1.1 | 3.4 | 2.3 | 1.1 | 0.0 | 8.8 |
| NUMBER OF IRR : | 0 | 0 | 1 | 1 | 3 | 2 | 1 | 0 | 8 |
| 1943 PPT: | 3.4 | 2.9 | 15.0 | 4.9 | 0.3 | 0.8 | 3.8 | 4.7 | 35.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 1.1 | 4.4 | 4.5 | 3.2 | 0.0 | 14.2 |
| NUMBER OF IRR : | 0 | 0 | 1 | 1 | 4 | 4 | 3 | 0 | 13 |
| 1944 PPT: | 5.9 | 5.2 | 5.5 | 7.2 | 2.2 | 6.4 | 2.0 | 3.6 | 38.1 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 1.0 | 4.3 | 2.3 | 3.2 | 1.0 | 12.8 |
| NUMBER OF IRR : | 0 | 0 | 1 | 1 | 4 | 2 | 3 | 1 | 12 |
| 1945 PPT: | 8.3 | 10.9 | 4.5 | 6.7 | 6.2 | 2.4 | 9.6 | 2.8 | 51.4 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 1.1 | 2.3 | 3.3 | 2.1 | 1.1 | 10.9 |
| NUMBER OF IRR : | 0 | 0 | 1 | 1 | 2 | 3 | 2 | 1 | 10 |
| 1946 PPT: | 2.3 | 3.7 | 10.2 | 5.3 | 3.3 | 0.7 | 1.5 | 2.0 | 29.0 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 3.2 | 4.4 | 2.1 | 1.1 | 13.0 |
| NUMBER OF IRR : | 0 | 0 | 0 | 2 | 3 | 4 | 2 | 1 | 12 |
| 1947 PPT: | 1.2 | 7.0 | 7.1 | 6.5 | 2.2 | 0.9 | 4.2 | 3.9 | 32.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.0 | 4.4 | 4.4 | 2.1 | 1.0 | 12.9 |
| NUMBER OF IRR : | 0 | 0 | 0 | 1 | 4 | 4 | 2 | 1 | 12 |
| 1948 PPT: | 3.2 | 1.6 | 5.1 | 8.3 | 4.5 | 10.4 | 0.3 | 1.4 | 34.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 2.1 | 3.2 | 3.2 | 1.1 | 11.7 |
| NUMBER OF IRR : | 0 | 0 | 0 | 2 | 2 | 3 | 3 | 1 | 11 |

lp continued

| | | | | | | | | | | |
|------|-----------------|-----|------|------|------|------|-----|-----|-----|------|
| 1949 | PPT: | 2.5 | 1.8 | 9.2 | 4.8 | 4.2 | 1.0 | 6.7 | 3.7 | 34.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.0 | 3.3 | 4.3 | 2.2 | 0.0 | 10.7 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 3 | 4 | 2 | 0 | 10 |
| 1950 | PPT: | 1.6 | 4.5 | 14.4 | 4.0 | 7.5 | 4.9 | 3.0 | 1.1 | 41.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 1.1 | 1.1 | 2.2 | 2.1 | 1.0 | 8.7 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 1 | 8 |
| 1951 | PPT: | 2.0 | 3.0 | 2.5 | 10.6 | 1.7 | 1.9 | 4.5 | 6.6 | 32.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 2.1 | 3.3 | 3.3 | 2.1 | 0.0 | 11.9 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 2 | 3 | 3 | 2 | 0 | 11 |
| 1952 | PPT: | 2.1 | 4.6 | 4.7 | 0.6 | 2.8 | 7.5 | 0.3 | 0.5 | 23.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 4.3 | 3.3 | 2.2 | 3.2 | 2.1 | 16.1 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 4 | 3 | 2 | 3 | 2 | 15 |
| 1953 | PPT: | 5.6 | 7.1 | 5.0 | 0.1 | 2.5 | 3.3 | 1.2 | 2.7 | 27.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 4.4 | 2.2 | 3.2 | 3.3 | 2.1 | 16.2 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 4 | 2 | 3 | 3 | 2 | 15 |
| 1954 | PPT: | 2.2 | 4.1 | 3.7 | 2.7 | 0.5 | 1.8 | 4.2 | 6.3 | 25.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 2.1 | 4.3 | 3.3 | 2.2 | 0.0 | 13.1 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 2 | 4 | 3 | 2 | 0 | 12 |
| 1955 | PPT: | 3.7 | 2.8 | 6.3 | 6.0 | 2.3 | 3.5 | 4.1 | 0.7 | 29.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 0.0 | 3.2 | 1.2 | 3.2 | 1.0 | 9.6 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 3 | 1 | 3 | 1 | 9 |
| 1956 | PPT: | 1.8 | 4.1 | 6.7 | 5.4 | 3.9 | 2.3 | 0.6 | 1.9 | 26.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 0.0 | 2.2 | 3.2 | 3.1 | 2.0 | 11.6 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 2 | 3 | 3 | 2 | 11 |
| 1957 | PPT: | 3.0 | 11.2 | 11.6 | 6.7 | 1.9 | 5.3 | 6.2 | 2.3 | 48.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.4 | 2.1 | 0.0 | 2.1 | 7.7 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 2 | 7 |
| 1958 | PPT: | 4.4 | 2.8 | 4.0 | 6.2 | 12.3 | 2.6 | 4.3 | 0.9 | 37.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 2.1 | 1.1 | 3.3 | 1.0 | 2.1 | 10.6 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 2 | 1 | 3 | 1 | 2 | 10 |
| 1959 | PPT: | 1.1 | 3.7 | 4.2 | 3.3 | 6.6 | 2.2 | 3.5 | 4.5 | 29.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.2 | 2.1 | 3.2 | 3.2 | 1.0 | 11.7 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 2 | 2 | 3 | 3 | 1 | 11 |
| 1960 | PPT: | 1.5 | 3.2 | 8.1 | 1.5 | 14.0 | 1.3 | 2.0 | 2.0 | 33.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 3.1 | 2.2 | 4.2 | 2.1 | 2.1 | 14.6 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 3 | 2 | 4 | 2 | 2 | 14 |
| 1961 | PPT: | 2.8 | 2.1 | 14.2 | 4.3 | 7.4 | 6.3 | 5.6 | 2.7 | 45.4 |
| | IRRIGATION AMT: | 0.0 | 1.0 | 0.0 | 2.2 | 2.1 | 3.4 | 2.1 | 1.0 | 11.7 |
| | NUMBER OF IRR : | 0 | 1 | 0 | 2 | 2 | 3 | 2 | 1 | 11 |
| 1962 | PPT: | 1.7 | 4.5 | 5.7 | 6.2 | 3.3 | 5.8 | 8.1 | 6.8 | 42.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 1.1 | 3.2 | 3.4 | 0.0 | 0.0 | 9.9 |
| | NUMBER OF IRR : | 0 | 0 | 2 | 1 | 3 | 3 | 0 | 0 | 9 |

lp continued

| | | | | | | | | | | |
|-----------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1963 | PPT: | 1.0 | 1.7 | 3.8 | 2.4 | 2.8 | 4.1 | 1.2 | 0.0 | 17.0 |
| | IRRIGATION AMT: | 0.0 | 1.0 | 2.1 | 2.1 | 3.4 | 2.3 | 3.2 | 2.0 | 16.1 |
| | NUMBER OF IRR : | 0 | 1 | 2 | 2 | 3 | 2 | 3 | 2 | 15 |
| 1964 | PPT: | 2.3 | 3.3 | 3.5 | 5.3 | 0.5 | 9.6 | 4.0 | 0.3 | 28.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 2.1 | 4.3 | 1.1 | 2.2 | 2.1 | 12.9 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 2 | 4 | 1 | 2 | 2 | 12 |
| 1965 | PPT: | 1.1 | 6.0 | 3.8 | 7.1 | 1.7 | 6.4 | 3.0 | 1.1 | 30.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.1 | 3.2 | 3.2 | 1.0 | 2.1 | 10.6 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 3 | 3 | 1 | 2 | 10 |
| 1966 | PPT: | 1.6 | 5.9 | 2.8 | 2.6 | 3.3 | 5.1 | 0.9 | 0.6 | 22.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 2.2 | 3.2 | 2.2 | 3.2 | 1.0 | 12.9 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 2 | 3 | 2 | 3 | 1 | 12 |
| 1967 | PPT: | 1.0 | 5.0 | 4.3 | 6.1 | 2.4 | 0.7 | 2.4 | 8.1 | 30.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 2.1 | 3.1 | 4.4 | 2.0 | 1.0 | 13.9 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 2 | 3 | 4 | 2 | 1 | 13 |
| 1968 | PPT: | 5.6 | 3.7 | 5.7 | 4.0 | 2.9 | 3.9 | 4.0 | 1.5 | 31.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.1 | 3.3 | 2.2 | 2.0 | 2.0 | 10.6 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 3 | 2 | 2 | 2 | 10 |
| 1969 | PPT: | 2.6 | 3.7 | 7.1 | 3.6 | 1.2 | 1.2 | 2.2 | 9.4 | 31.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.1 | 4.4 | 4.4 | 2.1 | 1.0 | 13.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 4 | 4 | 2 | 1 | 12 |
| 1970 | PPT: | 1.9 | 7.7 | 0.9 | 2.9 | 0.8 | 1.2 | 9.9 | 7.8 | 33.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 2.1 | 4.3 | 4.4 | 0.0 | 0.0 | 13.0 |
| | NUMBER OF IRR : | 0 | 0 | 2 | 2 | 4 | 4 | 0 | 0 | 12 |
| 1971 | PPT: | 0.5 | 3.5 | 4.1 | 3.0 | 3.2 | 1.6 | 3.6 | 2.9 | 22.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.1 | 2.1 | 4.4 | 1.1 | 1.0 | 11.8 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 3 | 2 | 4 | 1 | 1 | 11 |
| 1972 | PPT: | 1.4 | 5.3 | 2.2 | 2.5 | 7.1 | 2.1 | 7.0 | 5.8 | 33.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 2.2 | 3.4 | 3.3 | 1.0 | 1.0 | 13.0 |
| | NUMBER OF IRR : | 0 | 0 | 2 | 2 | 3 | 3 | 1 | 1 | 12 |
| 1973 | PPT: | 6.7 | 8.0 | 7.2 | 6.0 | 1.2 | 2.1 | 6.9 | 5.5 | 43.7 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.0 | 3.2 | 4.5 | 1.1 | 0.0 | 10.8 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 2 | 3 | 4 | 1 | 0 | 10 |
| 1974 | PPT: | 4.0 | 6.8 | 5.4 | 7.1 | 1.1 | 6.3 | 7.9 | 3.7 | 42.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 4.3 | 1.1 | 1.0 | 1.0 | 9.6 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 2 | 4 | 1 | 1 | 1 | 9 |
| AVERAGE PPT. : | | 2.7 | 5.0 | 5.9 | 4.9 | 3.5 | 3.8 | 4.1 | 3.7 | 33.6 |
| AVE IRRIG AMT : | | 0.0 | 0.1 | 0.8 | 1.8 | 3.2 | 3.1 | 2.0 | 1.1 | 12.0 |
| AVE NO OF IRR : | | 0.0 | 0.1 | 0.8 | 1.7 | 2.9 | 2.8 | 1.9 | 1.0 | 11.1 |
| TIME 2.7 SECS. | | | | | | | | | | |

lq: Annual Irrigated Water Balance for Apples Year 4, Peaches Year 5; Sprinkler

IRRIGATION SEASON FROM DAY 65 TO DAY 304

ASSUMES ACTUAL EVAPOTRANSPIRATION IS 60% OF PET

ASSUMES FIELD IS AT FIELD CAPACITY ON STARTING DAY

CROP IS AP4 PE5 OH

AVAILABLE SOIL MOISTURE IS 6.0INCHES

IRRIGATION INITIATED WHEN 50% OF AVAIL. MOIST. REMAINS

| MONTHS: | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | TOT |
|-----------------|-----|------|------|-----|-----|------|-----|------|------|
| ET: | 0.4 | 1.8 | 3.2 | 4.1 | 4.9 | 5.0 | 4.0 | 2.3 | 25.7 |
| 1940 PPT: | 1.9 | 6.6 | 1.5 | 6.0 | 0.9 | 5.7 | 7.8 | 1.8 | 32.2 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 0.0 | 0.0 | 0.0 | 3.1 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 1941 PPT: | 0.5 | 8.6 | 0.7 | 4.2 | 2.2 | 4.7 | 3.8 | 13.0 | 37.8 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 6.2 | 0.0 | 0.0 | 0.0 | 6.2 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 |
| 1942 PPT: | 0.8 | 7.1 | 6.0 | 6.8 | 2.1 | 7.0 | 4.4 | 6.5 | 40.7 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 0.0 | 0.0 | 0.0 | 3.1 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 1943 PPT: | 3.4 | 2.9 | 15.0 | 4.9 | 0.3 | 0.8 | 3.8 | 4.7 | 35.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 6.1 | 0.0 | 0.0 | 9.2 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 3 |
| 1944 PPT: | 5.9 | 5.2 | 5.5 | 7.2 | 2.2 | 6.4 | 2.0 | 3.6 | 38.1 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 0.0 | 3.1 | 0.0 | 6.2 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 |
| 1945 PPT: | 8.3 | 10.9 | 4.5 | 6.7 | 6.2 | 2.4 | 9.6 | 2.8 | 51.4 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 0.0 | 0.0 | 3.1 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 1946 PPT: | 2.3 | 3.7 | 10.2 | 5.3 | 3.3 | 0.7 | 1.5 | 2.0 | 29.0 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 3.1 | 3.1 | 0.0 | 9.2 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 3 |
| 1947 PPT: | 1.2 | 7.0 | 7.1 | 6.5 | 2.2 | 0.9 | 4.2 | 3.9 | 32.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 3.1 | 0.0 | 3.0 | 9.2 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 3 |
| 1948 PPT: | 3.2 | 1.6 | 5.1 | 8.3 | 4.5 | 10.4 | 0.3 | 1.4 | 34.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 3.1 | 6.2 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 |

1q continued

| | | | | | | | | | | |
|------|-----------------|-----|------|------|------|------|-----|-----|-----|------|
| 1949 | PPT: | 2.5 | 1.8 | 9.2 | 4.8 | 4.2 | 1.0 | 6.7 | 3.7 | 34.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 3.1 | 0.0 | 0.0 | 6.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| 1950 | PPT: | 1.6 | 4.5 | 14.4 | 4.0 | 7.5 | 4.9 | 3.0 | 1.1 | 41.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 0.0 | 3.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 1951 | PPT: | 2.0 | 3.0 | 2.5 | 10.6 | 1.7 | 1.9 | 4.5 | 6.6 | 32.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 3.0 | 0.0 | 0.0 | 6.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| 1952 | PPT: | 2.1 | 4.6 | 4.7 | 0.6 | 2.8 | 7.5 | 0.3 | 0.5 | 23.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.1 | 3.1 | 0.0 | 3.0 | 3.1 | 12.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 4 |
| 1953 | PPT: | 5.6 | 7.1 | 5.0 | 0.1 | 2.5 | 3.3 | 1.2 | 2.7 | 27.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.0 | 3.0 | 3.0 | 3.1 | 0.0 | 12.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 4 |
| 1954 | PPT: | 2.2 | 4.1 | 3.7 | 2.7 | 0.5 | 1.8 | 4.2 | 6.3 | 25.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 6.1 | 3.1 | 3.0 | 0.0 | 12.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 4 |
| 1955 | PPT: | 3.7 | 2.8 | 6.3 | 6.0 | 2.3 | 3.5 | 4.1 | 0.7 | 29.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 0.0 | 3.0 | 0.0 | 6.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 |
| 1956 | PPT: | 1.8 | 4.1 | 6.7 | 5.4 | 3.9 | 2.3 | 0.6 | 1.9 | 26.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 3.0 | 3.0 | 9.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 3 |
| 1957 | PPT: | 3.0 | 11.2 | 11.6 | 6.7 | 1.9 | 5.3 | 6.2 | 2.3 | 48.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 0.0 | 0.0 | 0.0 | 3.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 1958 | PPT: | 4.4 | 2.8 | 4.0 | 6.2 | 12.3 | 2.6 | 4.3 | 0.9 | 37.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.0 | 0.0 | 3.1 | 0.0 | 0.0 | 6.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 2 |
| 1959 | PPT: | 1.1 | 3.7 | 4.2 | 3.3 | 6.6 | 2.2 | 3.5 | 4.5 | 29.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 3.1 | 3.0 | 0.0 | 9.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 3 |
| 1960 | PPT: | 1.5 | 3.2 | 8.1 | 1.5 | 14.0 | 1.3 | 2.0 | 2.0 | 33.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.1 | 0.0 | 3.0 | 3.1 | 0.0 | 9.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 3 |
| 1961 | PPT: | 2.8 | 2.1 | 14.2 | 4.3 | 7.4 | 6.3 | 5.6 | 2.7 | 45.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 0.0 | 0.0 | 3.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 1962 | PPT: | 1.7 | 4.5 | 5.7 | 6.2 | 3.3 | 5.8 | 8.1 | 6.8 | 42.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 0.0 | 0.0 | 3.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |

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| | | | | | | | | | | |
|-----------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1963 | PPT: | 1.0 | 1.7 | 3.8 | 2.4 | 2.8 | 4.1 | 1.2 | 0.0 | 17.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 0.0 | 3.0 | 3.1 | 9.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 3 |
| 1964 | PPT: | 2.3 | 3.3 | 3.5 | 5.3 | 0.5 | 9.6 | 4.0 | 0.3 | 28.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 6.1 | 0.0 | 0.0 | 0.0 | 6.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 |
| 1965 | PPT: | 1.1 | 6.0 | 3.8 | 7.1 | 1.7 | 6.4 | 3.0 | 1.1 | 30.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 3.0 | 0.0 | 0.0 | 6.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| 1966 | PPT: | 1.6 | 5.9 | 2.8 | 2.6 | 3.3 | 5.1 | 0.9 | 0.6 | 22.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.1 | 0.0 | 0.0 | 3.0 | 3.0 | 9.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 3 |
| 1967 | PPT: | 1.0 | 5.0 | 4.3 | 6.1 | 2.4 | 0.7 | 2.4 | 8.1 | 30.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 3.0 | 3.1 | 0.0 | 9.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 3 |
| 1968 | PPT: | 5.6 | 3.7 | 5.7 | 4.0 | 2.9 | 3.9 | 4.0 | 1.5 | 31.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 0.0 | 3.1 | 0.0 | 6.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 |
| 1969 | PPT: | 2.6 | 3.7 | 7.1 | 3.6 | 1.2 | 1.2 | 2.2 | 9.4 | 31.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 3.0 | 3.1 | 3.0 | 12.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 4 |
| 1970 | PPT: | 1.9 | 7.7 | 0.9 | 2.9 | 0.8 | 1.2 | 9.9 | 7.8 | 33.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.0 | 3.0 | 3.1 | 0.0 | 0.0 | 9.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 3 |
| 1971 | PPT: | 0.5 | 3.5 | 4.1 | 3.0 | 3.2 | 1.6 | 3.6 | 2.9 | 22.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.0 | 0.0 | 6.2 | 0.0 | 0.0 | 9.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 3 |
| 1972 | PPT: | 1.4 | 5.3 | 2.2 | 2.5 | 7.1 | 2.1 | 7.0 | 5.8 | 33.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.0 | 0.0 | 6.2 | 0.0 | 0.0 | 9.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 3 |
| 1973 | PPT: | 6.7 | 8.0 | 7.2 | 6.0 | 1.2 | 2.1 | 6.9 | 5.5 | 43.7 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 3.0 | 0.0 | 0.0 | 6.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| 1974 | PPT: | 4.0 | 6.8 | 5.4 | 7.1 | 1.1 | 6.3 | 7.9 | 3.7 | 42.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 6.2 | 0.0 | 0.0 | 0.0 | 6.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 |
| AVERAGE PPT. : | | 2.7 | 5.0 | 5.9 | 4.9 | 3.5 | 3.8 | 4.1 | 3.7 | 33.6 |
| AVE IRRIG AMT : | | 0.0 | 0.0 | 0.0 | 0.7 | 2.5 | 2.1 | 1.4 | 0.6 | 7.3 |
| AVE NO OF IRR : | | 0.0 | 0.0 | 0.0 | 0.2 | 0.8 | 0.7 | 0.5 | 0.2 | 2.4 |
| TIME 2.6 SECS. | | | | | | | | | | |

Ir: Annual Irrigated Water Balance for Apples Year 5; Drip

IRRIGATION SEASON FROM DAY 65 TO DAY 304

ASSUMES ACTUAL EVAPOTRANSPIRATION IS 70% OF PET

ASSUMES FIELD IS AT FIELD CAPACITY ON STARTING DAY

CROP IS AP5 DR

AVAILABLE SOIL MOISTURE IS 4.0INCHES

IRRIGATION INITIATED WHEN 75% OF AVAIL. MOIST. REMAINS

| MONTHS: | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | TOT |
|-----------------|-----|------|------|-----|-----|------|-----|------|------|
| ET: | 0.5 | 2.0 | 3.7 | 4.8 | 5.8 | 5.8 | 4.7 | 2.7 | 30.0 |
| 1940 PPT: | 1.9 | 6.6 | 1.5 | 6.0 | 0.9 | 5.7 | 7.8 | 1.8 | 32.2 |
| IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 1.0 | 4.3 | 2.2 | 2.1 | 2.1 | 13.9 |
| NUMBER OF IRR : | 0 | 0 | 2 | 1 | 4 | 2 | 2 | 2 | 13 |
| 1941 PPT: | 0.5 | 8.6 | 0.7 | 4.2 | 2.2 | 4.7 | 3.8 | 13.0 | 37.8 |
| IRRIGATION AMT: | 0.0 | 0.0 | 3.2 | 3.2 | 5.2 | 2.3 | 2.2 | 0.0 | 16.0 |
| NUMBER OF IRR : | 0 | 0 | 3 | 3 | 5 | 2 | 2 | 0 | 15 |
| 1942 PPT: | 0.8 | 7.1 | 6.0 | 6.8 | 2.1 | 7.0 | 4.4 | 6.5 | 40.7 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 1.0 | 4.3 | 4.4 | 1.1 | 1.1 | 13.0 |
| NUMBER OF IRR : | 0 | 0 | 1 | 1 | 4 | 4 | 1 | 1 | 12 |
| 1943 PPT: | 3.4 | 2.9 | 15.0 | 4.9 | 0.3 | 0.8 | 3.8 | 4.7 | 35.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 1.1 | 5.5 | 5.6 | 2.1 | 1.1 | 16.3 |
| NUMBER OF IRR : | 0 | 0 | 1 | 1 | 5 | 5 | 2 | 1 | 15 |
| 1944 PPT: | 5.9 | 5.2 | 5.5 | 7.2 | 2.2 | 6.4 | 2.0 | 3.6 | 38.1 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 2.3 | 3.3 | 3.3 | 3.2 | 1.0 | 14.2 |
| NUMBER OF IRR : | 0 | 0 | 1 | 2 | 3 | 3 | 3 | 1 | 13 |
| 1945 PPT: | 8.3 | 10.9 | 4.5 | 6.7 | 6.2 | 2.4 | 9.6 | 2.8 | 51.4 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 2.1 | 2.3 | 4.2 | 2.1 | 1.1 | 13.0 |
| NUMBER OF IRR : | 0 | 0 | 1 | 2 | 2 | 4 | 2 | 1 | 12 |
| 1946 PPT: | 2.3 | 3.7 | 10.2 | 5.3 | 3.3 | 0.7 | 1.5 | 2.0 | 29.0 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.2 | 4.4 | 4.6 | 4.5 | 1.1 | 17.7 |
| NUMBER OF IRR : | 0 | 0 | 0 | 3 | 4 | 4 | 4 | 1 | 16 |
| 1947 PPT: | 1.2 | 7.0 | 7.1 | 6.5 | 2.2 | 0.9 | 4.2 | 3.9 | 32.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 2.0 | 4.5 | 5.5 | 2.2 | 2.1 | 17.5 |
| NUMBER OF IRR : | 0 | 0 | 1 | 2 | 4 | 5 | 2 | 2 | 16 |
| 1948 PPT: | 3.2 | 1.6 | 5.1 | 8.3 | 4.5 | 10.4 | 0.3 | 1.4 | 34.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 2.1 | 3.2 | 4.3 | 1.0 | 12.8 |
| NUMBER OF IRR : | 0 | 0 | 0 | 2 | 2 | 3 | 4 | 1 | 12 |

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| | | | | | | | | | | |
|------|-----------------|-----|------|------|------|------|-----|-----|-----|------|
| 1949 | PPT: | 2.5 | 1.8 | 9.2 | 4.8 | 4.2 | 1.0 | 6.7 | 3.7 | 34.0 |
| | IRRIGATION AMT: | 0.0 | 1.0 | 0.0 | 1.0 | 4.5 | 4.4 | 3.1 | 0.0 | 14.1 |
| | NUMBER OF IRR : | 0 | 1 | 0 | 1 | 4 | 4 | 3 | 0 | 13 |
| 1950 | PPT: | 1.6 | 4.5 | 14.4 | 4.0 | 7.5 | 4.9 | 3.0 | 1.1 | 41.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 3.3 | 2.3 | 3.4 | 2.1 | 2.1 | 14.3 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 3 | 2 | 3 | 2 | 2 | 13 |
| 1951 | PPT: | 2.0 | 3.0 | 2.5 | 10.6 | 1.7 | 1.9 | 4.5 | 6.6 | 32.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.2 | 1.0 | 4.4 | 3.2 | 3.2 | 2.1 | 16.1 |
| | NUMBER OF IRR : | 0 | 0 | 2 | 1 | 4 | 3 | 3 | 2 | 15 |
| 1952 | PPT: | 2.1 | 4.6 | 4.7 | 0.6 | 2.8 | 7.5 | 0.3 | 0.5 | 23.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 4.4 | 4.3 | 3.3 | 4.3 | 2.1 | 20.4 |
| | NUMBER OF IRR : | 0 | 0 | 2 | 4 | 4 | 3 | 4 | 2 | 19 |
| 1953 | PPT: | 5.6 | 7.1 | 5.0 | 0.1 | 2.5 | 3.3 | 1.2 | 2.7 | 27.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 4.4 | 4.4 | 4.4 | 3.3 | 1.0 | 18.6 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 4 | 4 | 4 | 3 | 1 | 17 |
| 1954 | PPT: | 2.2 | 4.1 | 3.7 | 2.7 | 0.5 | 1.8 | 4.2 | 6.3 | 25.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 3.2 | 5.5 | 4.5 | 3.2 | 0.0 | 17.4 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 3 | 5 | 4 | 3 | 0 | 16 |
| 1955 | PPT: | 3.7 | 2.8 | 6.3 | 6.0 | 2.3 | 3.5 | 4.1 | 0.7 | 29.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 1.0 | 3.4 | 3.3 | 3.2 | 1.0 | 12.9 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 3 | 3 | 3 | 1 | 12 |
| 1956 | PPT: | 1.8 | 4.1 | 6.7 | 5.4 | 3.9 | 2.3 | 0.6 | 1.9 | 26.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 1.0 | 3.3 | 4.3 | 4.3 | 1.0 | 15.0 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 3 | 4 | 4 | 1 | 14 |
| 1957 | PPT: | 3.0 | 11.2 | 11.6 | 6.7 | 1.9 | 5.3 | 6.2 | 2.3 | 48.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.1 | 4.5 | 4.4 | 1.1 | 1.1 | 12.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 4 | 4 | 1 | 1 | 11 |
| 1958 | PPT: | 4.4 | 2.8 | 4.0 | 6.2 | 12.3 | 2.6 | 4.3 | 0.9 | 37.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 2.1 | 2.2 | 4.2 | 2.1 | 2.1 | 14.8 |
| | NUMBER OF IRR : | 0 | 0 | 2 | 2 | 2 | 4 | 2 | 2 | 14 |
| 1959 | PPT: | 1.1 | 3.7 | 4.2 | 3.3 | 6.6 | 2.2 | 3.5 | 4.5 | 29.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 3.2 | 3.4 | 4.4 | 4.3 | 1.0 | 17.3 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 3 | 3 | 4 | 4 | 1 | 16 |
| 1960 | PPT: | 1.5 | 3.2 | 8.1 | 1.5 | 14.0 | 1.3 | 2.0 | 2.0 | 33.8 |
| | IRRIGATION AMT: | 0.0 | 1.1 | 1.1 | 3.2 | 3.3 | 5.4 | 2.0 | 2.1 | 18.2 |
| | NUMBER OF IRR : | 0 | 1 | 1 | 3 | 3 | 5 | 2 | 2 | 17 |
| 1961 | PPT: | 2.8 | 2.1 | 14.2 | 4.3 | 7.4 | 6.3 | 5.6 | 2.7 | 45.4 |
| | IRRIGATION AMT: | 0.0 | 1.0 | 1.0 | 3.3 | 3.2 | 4.4 | 1.1 | 1.0 | 15.0 |
| | NUMBER OF IRR : | 0 | 1 | 1 | 3 | 3 | 4 | 1 | 1 | 14 |
| 1962 | PPT: | 1.7 | 4.5 | 5.7 | 6.2 | 3.3 | 5.8 | 8.1 | 6.8 | 42.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 1.1 | 4.4 | 4.6 | 0.0 | 0.0 | 12.2 |
| | NUMBER OF IRR : | 0 | 0 | 2 | 1 | 4 | 4 | 0 | 0 | 11 |

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| | | | | | | | | | | |
|-----------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1963 | PPT: | 1.0 | 1.7 | 3.8 | 2.4 | 2.8 | 4.1 | 1.2 | 0.0 | 17.0 |
| | IRRIGATION AMT: | 0.0 | 1.1 | 2.2 | 3.2 | 3.4 | 3.4 | 3.2 | 3.2 | 19.6 |
| | NUMBER OF IRR : | 0 | 1 | 2 | 3 | 3 | 3 | 3 | 3 | 18 |
| 1964 | PPT: | 2.3 | 3.3 | 3.5 | 5.3 | 0.5 | 9.6 | 4.0 | 0.3 | 28.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 4.4 | 4.3 | 2.3 | 2.1 | 2.0 | 16.2 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 4 | 4 | 2 | 2 | 2 | 15 |
| 1965 | PPT: | 1.1 | 6.0 | 3.8 | 7.1 | 1.7 | 6.4 | 3.0 | 1.1 | 30.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 2.1 | 4.4 | 3.4 | 3.3 | 1.1 | 15.4 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 2 | 4 | 3 | 3 | 1 | 14 |
| 1966 | PPT: | 1.6 | 5.9 | 2.8 | 2.6 | 3.3 | 5.1 | 0.9 | 0.6 | 22.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 4.3 | 3.2 | 2.2 | 4.4 | 2.0 | 17.2 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 4 | 3 | 2 | 4 | 2 | 16 |
| 1967 | PPT: | 1.0 | 5.0 | 4.3 | 6.1 | 2.4 | 0.7 | 2.4 | 8.1 | 30.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 2.2 | 3.1 | 5.6 | 3.2 | 1.0 | 16.2 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 2 | 3 | 5 | 3 | 1 | 15 |
| 1968 | PPT: | 5.6 | 3.7 | 5.7 | 4.0 | 2.9 | 3.9 | 4.0 | 1.5 | 31.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 2.1 | 4.4 | 3.3 | 2.1 | 2.1 | 15.0 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 2 | 4 | 3 | 2 | 2 | 14 |
| 1969 | PPT: | 2.6 | 3.7 | 7.1 | 3.6 | 1.2 | 1.2 | 2.2 | 9.4 | 31.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.1 | 4.4 | 4.4 | 2.1 | 2.1 | 16.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 3 | 4 | 4 | 2 | 2 | 15 |
| 1970 | PPT: | 1.9 | 7.7 | 0.9 | 2.9 | 0.8 | 1.2 | 9.9 | 7.8 | 33.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 3.2 | 5.5 | 4.4 | 0.0 | 1.0 | 16.3 |
| | NUMBER OF IRR : | 0 | 0 | 2 | 3 | 5 | 4 | 0 | 1 | 15 |
| 1971 | PPT: | 0.5 | 3.5 | 4.1 | 3.0 | 3.2 | 1.6 | 3.6 | 2.9 | 22.3 |
| | IRRIGATION AMT: | 0.0 | 1.0 | 0.0 | 3.1 | 2.3 | 4.3 | 2.2 | 1.1 | 14.0 |
| | NUMBER OF IRR : | 0 | 1 | 0 | 3 | 2 | 4 | 2 | 1 | 13 |
| 1972 | PPT: | 1.4 | 5.3 | 2.2 | 2.5 | 7.1 | 2.1 | 7.0 | 5.8 | 33.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 3.2 | 3.4 | 4.6 | 2.1 | 1.0 | 16.4 |
| | NUMBER OF IRR : | 0 | 0 | 2 | 3 | 3 | 4 | 2 | 1 | 15 |
| 1973 | PPT: | 6.7 | 8.0 | 7.2 | 6.0 | 1.2 | 2.1 | 6.9 | 5.5 | 43.7 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 2.1 | 4.3 | 4.6 | 3.2 | 0.0 | 15.2 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 2 | 4 | 4 | 3 | 0 | 14 |
| 1974 | PPT: | 4.0 | 6.8 | 5.4 | 7.1 | 1.1 | 6.3 | 7.9 | 3.7 | 42.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 2.2 | 5.6 | 2.2 | 1.0 | 2.1 | 14.2 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 2 | 5 | 2 | 1 | 2 | 13 |
| AVERAGE PPT. : | | 2.7 | 5.0 | 5.9 | 4.9 | 3.5 | 3.8 | 4.1 | 3.7 | 33.6 |
| AVE IRRIG AMT : | | 0.0 | 0.1 | 1.2 | 2.5 | 3.9 | 3.9 | 2.6 | 1.3 | 15.6 |
| AVE NO OF IRR : | | 0.0 | 0.1 | 1.1 | 2.3 | 3.6 | 3.6 | 2.4 | 1.3 | 14.4 |
| TIME 2.6 SECS. | | | | | | | | | | |

1s: Annual Irrigated Water Balance for Apples Year 5; Sprinkler

IRRIGATION SEASON FROM DAY 65 TO DAY 304

ASSUMES ACTUAL EVAPOTRANSPIRATION IS 70% OF PET

ASSUMES FIELD IS AT FIELD CAPACITY ON STARTING DAY

CROP IS AP5 OH

AVAILABLE SOIL MOISTURE IS 6.0 INCHES

IRRIGATION INITIATED WHEN 50% OF AVAIL. MOIST. REMAINS

| MONTHS: | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | TOT |
|-----------------|-----|------|------|-----|-----|------|-----|------|------|
| ET: | 0.5 | 2.0 | 3.7 | 4.8 | 5.8 | 5.8 | 4.7 | 2.7 | 30.0 |
| 1940 PPT: | 1.9 | 6.6 | 1.5 | 6.0 | 0.9 | 5.7 | 7.8 | 1.8 | 32.2 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.0 | 3.1 | 3.1 | 3.0 | 0.0 | 12.2 |
| NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 4 |
| 1941 PPT: | 0.5 | 8.6 | 0.7 | 4.2 | 2.2 | 4.7 | 3.8 | 13.0 | 37.8 |
| IRRIGATION AMT: | 0.0 | 0.0 | 3.1 | 3.0 | 3.1 | 0.0 | 3.0 | 0.0 | 12.2 |
| NUMBER OF IRR : | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 4 |
| 1942 PPT: | 0.8 | 7.1 | 6.0 | 6.8 | 2.1 | 7.0 | 4.4 | 6.5 | 40.7 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 0.0 | 0.0 | 0.0 | 3.1 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 1943 PPT: | 3.4 | 2.9 | 15.0 | 4.9 | 0.3 | 0.8 | 3.8 | 4.7 | 35.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 6.2 | 3.2 | 3.0 | 0.0 | 12.5 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 4 |
| 1944 PPT: | 5.9 | 5.2 | 5.5 | 7.2 | 2.2 | 6.4 | 2.0 | 3.6 | 38.1 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 6.2 | 0.0 | 3.1 | 0.0 | 9.3 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 3 |
| 1945 PPT: | 8.3 | 10.9 | 4.5 | 6.7 | 6.2 | 2.4 | 9.6 | 2.8 | 51.4 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.2 | 3.0 | 0.0 | 6.2 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 |
| 1946 PPT: | 2.3 | 3.7 | 10.2 | 5.3 | 3.3 | 0.7 | 1.5 | 2.0 | 29.0 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.0 | 3.1 | 3.1 | 3.1 | 3.0 | 15.2 |
| NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 5 |
| 1947 PPT: | 1.2 | 7.0 | 7.1 | 6.5 | 2.2 | 0.9 | 4.2 | 3.9 | 32.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 6.1 | 0.0 | 3.1 | 12.2 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 1 | 4 |
| 1948 PPT: | 3.2 | 1.6 | 5.1 | 8.3 | 4.5 | 10.4 | 0.3 | 1.4 | 34.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.1 | 0.0 | 6.1 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 |

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| | | | | | | | | | | |
|------|-----------------|-----|------|------|------|------|-----|-----|-----|------|
| 1949 | PPT: | 2.5 | 1.8 | 9.2 | 4.8 | 4.2 | 1.0 | 6.7 | 3.7 | 34.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 6.0 | 3.0 | 3.0 | 0.0 | 12.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 4 |
| 1950 | PPT: | 1.6 | 4.5 | 14.4 | 4.0 | 7.5 | 4.9 | 3.0 | 1.1 | 41.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 0.0 | 3.0 | 6.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 |
| 1951 | PPT: | 2.0 | 3.0 | 2.5 | 10.6 | 1.7 | 1.9 | 4.5 | 6.6 | 32.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 3.2 | 3.1 | 0.0 | 9.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 3 |
| 1952 | PPT: | 2.1 | 4.6 | 4.7 | 0.6 | 2.8 | 7.5 | 0.3 | 0.5 | 23.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.1 | 3.0 | 3.2 | 3.0 | 3.1 | 15.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 5 |
| 1953 | PPT: | 5.6 | 7.1 | 5.0 | 0.1 | 2.5 | 3.3 | 1.2 | 2.7 | 27.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 6.2 | 3.1 | 0.0 | 6.2 | 0.0 | 15.5 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 2 | 1 | 0 | 2 | 0 | 5 |
| 1954 | PPT: | 2.2 | 4.1 | 3.7 | 2.7 | 0.5 | 1.8 | 4.2 | 6.3 | 25.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.0 | 6.2 | 3.1 | 3.0 | 0.0 | 15.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 1 | 1 | 0 | 5 |
| 1955 | PPT: | 3.7 | 2.8 | 6.3 | 6.0 | 2.3 | 3.5 | 4.1 | 0.7 | 29.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 3.0 | 3.1 | 0.0 | 9.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 3 |
| 1956 | PPT: | 1.8 | 4.1 | 6.7 | 5.4 | 3.9 | 2.3 | 0.6 | 1.9 | 26.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 3.1 | 3.1 | 3.0 | 12.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 4 |
| 1957 | PPT: | 3.0 | 11.2 | 11.6 | 6.7 | 1.9 | 5.3 | 6.2 | 2.3 | 48.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 3.1 | 0.0 | 0.0 | 6.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| 1958 | PPT: | 4.4 | 2.8 | 4.0 | 6.2 | 12.3 | 2.6 | 4.3 | 0.9 | 37.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.0 | 0.0 | 3.1 | 0.0 | 3.1 | 9.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 3 |
| 1959 | PPT: | 1.1 | 3.7 | 4.2 | 3.3 | 6.6 | 2.2 | 3.5 | 4.5 | 29.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 3.1 | 3.2 | 0.0 | 9.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 3 |
| 1960 | PPT: | 1.5 | 3.2 | 8.1 | 1.5 | 14.0 | 1.3 | 2.0 | 2.0 | 33.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.1 | 3.1 | 3.0 | 3.1 | 3.0 | 15.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 5 |
| 1961 | PPT: | 2.8 | 2.1 | 14.2 | 4.3 | 7.4 | 6.3 | 5.6 | 2.7 | 45.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 3.1 | 0.0 | 0.0 | 6.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| 1962 | PPT: | 1.7 | 4.5 | 5.7 | 6.2 | 3.3 | 5.8 | 8.1 | 6.8 | 42.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 3.1 | 0.0 | 0.0 | 6.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |

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| | | | | | | | | | | |
|-----------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1963 | PPT: | 1.0 | 1.7 | 3.8 | 2.4 | 2.8 | 4.1 | 1.2 | 0.0 | 17.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.1 | 3.2 | 0.0 | 3.1 | 3.0 | 12.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 4 |
| 1964 | PPT: | 2.3 | 3.3 | 3.5 | 5.3 | 0.5 | 9.6 | 4.0 | 0.3 | 28.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.0 | 6.1 | 0.0 | 0.0 | 3.0 | 12.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 1 | 4 |
| 1965 | PPT: | 1.1 | 6.0 | 3.8 | 7.1 | 1.7 | 6.4 | 3.0 | 1.1 | 30.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 3.0 | 0.0 | 3.1 | 9.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 3 |
| 1966 | PPT: | 1.6 | 5.9 | 2.8 | 2.6 | 3.3 | 5.1 | 0.9 | 0.6 | 22.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.2 | 3.2 | 0.0 | 6.1 | 0.0 | 12.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 4 |
| 1967 | PPT: | 1.0 | 5.0 | 4.3 | 6.1 | 2.4 | 0.7 | 2.4 | 8.1 | 30.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 3.1 | 3.1 | 3.0 | 12.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 4 |
| 1968 | PPT: | 5.6 | 3.7 | 5.7 | 4.0 | 2.9 | 3.9 | 4.0 | 1.5 | 31.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 3.2 | 0.0 | 0.0 | 6.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| 1969 | PPT: | 2.6 | 3.7 | 7.1 | 3.6 | 1.2 | 1.2 | 2.2 | 9.4 | 31.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 6.2 | 3.1 | 3.0 | 0.0 | 12.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 4 |
| 1970 | PPT: | 1.9 | 7.7 | 0.9 | 2.9 | 0.8 | 1.2 | 9.9 | 7.8 | 33.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.0 | 6.3 | 3.1 | 0.0 | 0.0 | 12.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 4 |
| 1971 | PPT: | 0.5 | 3.5 | 4.1 | 3.0 | 3.2 | 1.6 | 3.6 | 2.9 | 22.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.1 | 3.0 | 3.1 | 0.0 | 0.0 | 9.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 3 |
| 1972 | PPT: | 1.4 | 5.3 | 2.2 | 2.5 | 7.1 | 2.1 | 7.0 | 5.8 | 33.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.1 | 6.1 | 3.1 | 3.1 | 0.0 | 15.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 1 | 1 | 0 | 5 |
| 1973 | PPT: | 6.7 | 8.0 | 7.2 | 6.0 | 1.2 | 2.1 | 6.9 | 5.5 | 43.7 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 6.1 | 0.0 | 0.0 | 9.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 3 |
| 1974 | PPT: | 4.0 | 6.8 | 5.4 | 7.1 | 1.1 | 6.3 | 7.9 | 3.7 | 42.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.0 | 3.2 | 0.0 | 0.0 | 0.0 | 6.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 2 |
| AVERAGE PPT. : | | 2.7 | 5.0 | 5.9 | 4.9 | 3.5 | 3.8 | 4.1 | 3.7 | 33.6 |
| AVE IRRIG AMT : | | 0.0 | 0.0 | 0.1 | 1.4 | 3.4 | 2.5 | 2.1 | 1.0 | 10.4 |
| AVE NO OF IRR : | | 0.0 | 0.0 | 0.0 | 0.5 | 1.1 | 0.8 | 0.7 | 0.3 | 3.4 |
| TIME 2.6 SECS. | | | | | | | | | | |

lt: Annual Irrigated Water Balance for Grapes, Blackberry

IRRIGATION SEASON FROM DAY 65 TO DAY 304

ASSUMES ACTUAL EVAPOTRANSPIRATION IS 80% OF PET

ASSUMES FIELD IS AT FIELD CAPACITY ON STARTING DAY

CROP IS GRPS,BLBY

AVAILABLE SOIL MOISTURE IS 4.0INCHES

IRRIGATION INITIATED WHEN 50% OF AVAIL. MOIST. REMAINS

| MONTHS: | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | TOT |
|-----------------|-----|------|------|-----|-----|------|-----|------|------|
| ET: | 0.6 | 2.3 | 4.2 | 5.5 | 6.6 | 6.6 | 5.4 | 3.1 | 34.3 |
| 1940 PPT: | 1.9 | 6.6 | 1.5 | 6.0 | 0.9 | 5.7 | 7.8 | 1.8 | 32.2 |
| IRRIGATION AMT: | 0.0 | 0.0 | 2.0 | 0.0 | 6.3 | 0.0 | 2.1 | 2.1 | 12.5 |
| NUMBER OF IRR : | 0 | 0 | 1 | 0 | 3 | 0 | 1 | 1 | 6 |
| 1941 PPT: | 0.5 | 8.6 | 0.7 | 4.2 | 2.2 | 4.7 | 3.8 | 13.0 | 37.8 |
| IRRIGATION AMT: | 0.0 | 0.0 | 2.0 | 4.2 | 6.3 | 2.2 | 4.1 | 0.0 | 18.8 |
| NUMBER OF IRR : | 0 | 0 | 1 | 2 | 3 | 1 | 2 | 0 | 9 |
| 1942 PPT: | 0.8 | 7.1 | 6.0 | 6.8 | 2.1 | 7.0 | 4.4 | 6.5 | 40.7 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 4.2 | 4.3 | 2.1 | 2.1 | 0.0 | 12.7 |
| NUMBER OF IRR : | 0 | 0 | 0 | 2 | 2 | 1 | 1 | 0 | 6 |
| 1943 PPT: | 3.4 | 2.9 | 15.0 | 4.9 | 0.3 | 0.8 | 3.8 | 4.7 | 35.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 6.4 | 6.3 | 2.1 | 0.0 | 14.7 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 3 | 3 | 1 | 0 | 7 |
| 1944 PPT: | 5.9 | 5.2 | 5.5 | 7.2 | 2.2 | 6.4 | 2.0 | 3.6 | 38.1 |
| IRRIGATION AMT: | 0.0 | 0.0 | 2.0 | 2.1 | 4.1 | 2.0 | 4.2 | 2.0 | 16.5 |
| NUMBER OF IRR : | 0 | 0 | 1 | 1 | 2 | 1 | 2 | 1 | 8 |
| 1945 PPT: | 8.3 | 10.9 | 4.5 | 6.7 | 6.2 | 2.4 | 9.6 | 2.8 | 51.4 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 2.0 | 4.1 | 2.1 | 0.0 | 10.3 |
| NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 0 | 5 |
| 1946 PPT: | 2.3 | 3.7 | 10.2 | 5.3 | 3.3 | 0.7 | 1.5 | 2.0 | 29.0 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 4.2 | 6.4 | 2.2 | 2.1 | 17.1 |
| NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 3 | 1 | 1 | 8 |
| 1947 PPT: | 1.2 | 7.0 | 7.1 | 6.5 | 2.2 | 0.9 | 4.2 | 3.9 | 32.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 6.5 | 6.4 | 0.0 | 2.1 | 15.0 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 3 | 3 | 0 | 1 | 7 |
| 1948 PPT: | 3.2 | 1.6 | 5.1 | 8.3 | 4.5 | 10.4 | 0.3 | 1.4 | 34.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.0 | 2.1 | 4.3 | 4.1 | 2.1 | 14.6 |
| NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 2 | 2 | 1 | 7 |

It continued

| | | | | | | | | | | |
|------|-----------------|-----|------|------|------|------|-----|-----|-----|------|
| 1949 | PPT: | 2.5 | 1.8 | 9.2 | 4.8 | 4.2 | 1.0 | 6.7 | 3.7 | 34.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.2 | 2.1 | 6.5 | 2.0 | 2.1 | 14.9 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 3 | 1 | 1 | 7 |
| 1950 | PPT: | 1.6 | 4.5 | 14.4 | 4.0 | 7.5 | 4.9 | 3.0 | 1.1 | 41.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 4.4 | 2.0 | 2.1 | 10.5 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 2 | 1 | 1 | 5 |
| 1951 | PPT: | 2.0 | 3.0 | 2.5 | 10.6 | 1.7 | 1.9 | 4.5 | 6.6 | 32.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 0.0 | 4.3 | 4.1 | 2.1 | 2.1 | 14.7 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 2 | 2 | 1 | 1 | 7 |
| 1952 | PPT: | 2.1 | 4.6 | 4.7 | 0.6 | 2.8 | 7.5 | 0.3 | 0.5 | 23.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.0 | 4.2 | 4.4 | 2.1 | 6.2 | 2.1 | 21.0 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 2 | 2 | 1 | 3 | 1 | 10 |
| 1953 | PPT: | 5.6 | 7.1 | 5.0 | 0.1 | 2.5 | 3.3 | 1.2 | 2.7 | 27.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 6.3 | 4.3 | 6.3 | 4.1 | 0.0 | 21.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 3 | 2 | 3 | 2 | 0 | 10 |
| 1954 | PPT: | 2.2 | 4.1 | 3.7 | 2.7 | 0.5 | 1.8 | 4.2 | 6.3 | 25.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 2.1 | 6.2 | 6.2 | 2.1 | 0.0 | 18.7 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 3 | 3 | 1 | 0 | 9 |
| 1955 | PPT: | 3.7 | 2.8 | 6.3 | 6.0 | 2.3 | 3.5 | 4.1 | 0.7 | 29.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 4.0 | 4.2 | 4.1 | 2.0 | 14.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 1 | 7 |
| 1956 | PPT: | 1.8 | 4.1 | 6.7 | 5.4 | 3.9 | 2.3 | 0.6 | 1.9 | 26.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 4.1 | 4.4 | 4.2 | 2.0 | 14.7 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 1 | 7 |
| 1957 | PPT: | 3.0 | 11.2 | 11.6 | 6.7 | 1.9 | 5.3 | 6.2 | 2.3 | 48.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 | 4.1 | 0.0 | 2.1 | 10.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 1 | 5 |
| 1958 | PPT: | 4.4 | 2.8 | 4.0 | 6.2 | 12.3 | 2.6 | 4.3 | 0.9 | 37.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.0 | 2.1 | 0.0 | 4.2 | 2.1 | 2.0 | 12.4 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 0 | 2 | 1 | 1 | 6 |
| 1959 | PPT: | 1.1 | 3.7 | 4.2 | 3.3 | 6.6 | 2.2 | 3.5 | 4.5 | 29.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.2 | 4.2 | 6.3 | 4.3 | 0.0 | 17.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 3 | 2 | 0 | 8 |
| 1960 | PPT: | 1.5 | 3.2 | 8.1 | 1.5 | 14.0 | 1.3 | 2.0 | 2.0 | 33.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 4.1 | 2.0 | 6.2 | 2.2 | 2.1 | 16.6 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 2 | 1 | 3 | 1 | 1 | 8 |
| 1961 | PPT: | 2.8 | 2.1 | 14.2 | 4.3 | 7.4 | 6.3 | 5.6 | 2.7 | 45.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 4.1 | 4.4 | 2.0 | 0.0 | 12.6 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 2 | 1 | 0 | 6 |
| 1962 | PPT: | 1.7 | 4.5 | 5.7 | 6.2 | 3.3 | 5.8 | 8.1 | 6.8 | 42.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 0.0 | 2.0 | 4.2 | 0.0 | 0.0 | 8.3 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 4 |

It continued

| | | | | | | | | | | |
|-----------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1963 | PPT: | 1.0 | 1.7 | 3.8 | 2.4 | 2.8 | 4.1 | 1.2 | 0.0 | 17.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 2.2 | 4.3 | 4.2 | 4.2 | 4.1 | 21.1 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 2 | 2 | 2 | 2 | 10 |
| 1964 | PPT: | 2.3 | 3.3 | 3.5 | 5.3 | 0.5 | 9.6 | 4.0 | 0.3 | 28.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 2.1 | 6.4 | 0.0 | 2.1 | 2.0 | 14.7 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 3 | 0 | 1 | 1 | 7 |
| 1965 | PPT: | 1.1 | 6.0 | 3.8 | 7.1 | 1.7 | 6.4 | 3.0 | 1.1 | 30.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.0 | 4.1 | 4.3 | 2.1 | 2.1 | 14.7 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 2 | 1 | 1 | 7 |
| 1966 | PPT: | 1.6 | 5.9 | 2.8 | 2.6 | 3.3 | 5.1 | 0.9 | 0.6 | 22.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 6.2 | 4.4 | 0.0 | 6.3 | 2.0 | 18.9 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 3 | 2 | 0 | 3 | 1 | 9 |
| 1967 | PPT: | 1.0 | 5.0 | 4.3 | 6.1 | 2.4 | 0.7 | 2.4 | 8.1 | 30.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 4.2 | 4.4 | 4.2 | 4.2 | 2.0 | 19.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 1 | 9 |
| 1968 | PPT: | 5.6 | 3.7 | 5.7 | 4.0 | 2.9 | 3.9 | 4.0 | 1.5 | 31.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 4.3 | 2.2 | 2.1 | 2.0 | 12.7 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 1 | 1 | 1 | 6 |
| 1969 | PPT: | 2.6 | 3.7 | 7.1 | 3.6 | 1.2 | 1.2 | 2.2 | 9.4 | 31.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 4.2 | 6.5 | 2.0 | 2.1 | 16.9 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 3 | 1 | 1 | 8 |
| 1970 | PPT: | 1.9 | 7.7 | 0.9 | 2.9 | 0.8 | 1.2 | 9.9 | 7.8 | 33.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 2.2 | 6.3 | 6.3 | 0.0 | 0.0 | 16.7 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 3 | 3 | 0 | 0 | 8 |
| 1971 | PPT: | 0.5 | 3.5 | 4.1 | 3.0 | 3.2 | 1.6 | 3.6 | 2.9 | 22.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 4.2 | 2.1 | 6.3 | 2.1 | 0.0 | 14.7 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 2 | 1 | 3 | 1 | 0 | 7 |
| 1972 | PPT: | 1.4 | 5.3 | 2.2 | 2.5 | 7.1 | 2.1 | 7.0 | 5.8 | 33.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.0 | 4.1 | 2.2 | 6.2 | 2.1 | 0.0 | 16.6 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 2 | 1 | 3 | 1 | 0 | 8 |
| 1973 | PPT: | 6.7 | 8.0 | 7.2 | 6.0 | 1.2 | 2.1 | 6.9 | 5.5 | 43.7 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 6.5 | 4.2 | 4.2 | 0.0 | 14.9 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 3 | 2 | 2 | 0 | 7 |
| 1974 | PPT: | 4.0 | 6.8 | 5.4 | 7.1 | 1.1 | 6.3 | 7.9 | 3.7 | 42.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 6.3 | 0.0 | 0.0 | 2.0 | 10.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 1 | 5 |
| AVERAGE PPT. : | | 2.7 | 5.0 | 5.9 | 4.9 | 3.5 | 3.8 | 4.1 | 3.7 | 33.6 |
| AVE IRRIG AMT : | | 0.0 | 0.0 | 0.7 | 2.2 | 4.1 | 4.2 | 2.6 | 1.4 | 15.2 |
| AVE NO OF IRR : | | 0.0 | 0.0 | 0.3 | 1.1 | 1.9 | 2.0 | 1.3 | 0.7 | 7.2 |
| TIME 2.6 SECS. | | | | | | | | | | |

lu: Annual Irrigated Water Balance for Blueberry; Drip

IRRIGATION SEASON FROM DAY 65 TO DAY 304

ASSUMES ACTUAL EVAPOTRANSPIRATION IS 60% OF PET

ASSUMES FIELD IS AT FIELD CAPACITY ON STARTING DAY

CROP IS BLUEBERRY

AVAILABLE SOIL MOISTURE IS 2.0 INCHES

IRRIGATION INITIATED WHEN 50% OF AVAIL. MOIST. REMAINS

| MONTHS: | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | TOT |
|-----------------|-----|------|------|-----|-----|------|-----|------|------|
| ET: | 0.4 | 1.8 | 3.2 | 4.1 | 4.9 | 5.0 | 4.0 | 2.3 | 25.7 |
| 1940 PPT: | 1.9 | 6.6 | 1.5 | 6.0 | 0.9 | 5.7 | 7.8 | 1.8 | 32.2 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 1.1 | 4.4 | 1.1 | 2.1 | 1.0 | 10.6 |
| NUMBER OF IRR : | 0 | 0 | 1 | 1 | 4 | 1 | 2 | 1 | 10 |
| 1941 PPT: | 0.5 | 8.6 | 0.7 | 4.2 | 2.2 | 4.7 | 3.8 | 13.0 | 37.8 |
| IRRIGATION AMT: | 0.0 | 0.0 | 2.2 | 2.1 | 3.2 | 3.3 | 1.1 | 0.0 | 11.9 |
| NUMBER OF IRR : | 0 | 0 | 2 | 2 | 3 | 3 | 1 | 0 | 11 |
| 1942 PPT: | 0.8 | 7.1 | 6.0 | 6.8 | 2.1 | 7.0 | 4.4 | 6.5 | 40.7 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 1.1 | 3.4 | 2.3 | 1.1 | 0.0 | 8.8 |
| NUMBER OF IRR : | 0 | 0 | 1 | 1 | 3 | 2 | 1 | 0 | 8 |
| 1943 PPT: | 3.4 | 2.9 | 15.0 | 4.9 | 0.3 | 0.8 | 3.8 | 4.7 | 35.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 1.1 | 4.4 | 4.5 | 3.2 | 0.0 | 14.2 |
| NUMBER OF IRR : | 0 | 0 | 1 | 1 | 4 | 4 | 3 | 0 | 13 |
| 1944 PPT: | 5.9 | 5.2 | 5.5 | 7.2 | 2.2 | 6.4 | 2.0 | 3.6 | 38.1 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 1.0 | 4.3 | 2.3 | 3.2 | 1.0 | 12.8 |
| NUMBER OF IRR : | 0 | 0 | 1 | 1 | 4 | 2 | 3 | 1 | 12 |
| 1945 PPT: | 8.3 | 10.9 | 4.5 | 6.7 | 6.2 | 2.4 | 9.6 | 2.8 | 51.4 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 1.1 | 2.3 | 3.3 | 2.1 | 1.1 | 10.9 |
| NUMBER OF IRR : | 0 | 0 | 1 | 1 | 2 | 3 | 2 | 1 | 10 |
| 1946 PPT: | 2.3 | 3.7 | 10.2 | 5.3 | 3.3 | 0.7 | 1.5 | 2.0 | 29.0 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 3.2 | 4.4 | 2.1 | 1.1 | 13.0 |
| NUMBER OF IRR : | 0 | 0 | 0 | 2 | 3 | 4 | 2 | 1 | 12 |
| 1947 PPT: | 1.2 | 7.0 | 7.1 | 6.5 | 2.2 | 0.9 | 4.2 | 3.9 | 32.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.0 | 4.4 | 4.4 | 2.1 | 1.0 | 12.9 |
| NUMBER OF IRR : | 0 | 0 | 0 | 1 | 4 | 4 | 2 | 1 | 12 |
| 1948 PPT: | 3.2 | 1.6 | 5.1 | 8.3 | 4.5 | 10.4 | 0.3 | 1.4 | 34.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 2.1 | 3.2 | 3.2 | 1.1 | 11.7 |
| NUMBER OF IRR : | 0 | 0 | 0 | 2 | 2 | 3 | 3 | 1 | 11 |

lu continued

| | | | | | | | | | | |
|------|-----------------|-----|------|------|------|------|-----|-----|-----|------|
| 1949 | PPT: | 2.5 | 1.8 | 9.2 | 4.8 | 4.2 | 1.0 | 6.7 | 3.7 | 34.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.0 | 3.3 | 4.3 | 2.2 | 0.0 | 10.7 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 3 | 4 | 2 | 0 | 10 |
| 1950 | PPT: | 1.6 | 4.5 | 14.4 | 4.0 | 7.5 | 4.9 | 3.0 | 1.1 | 41.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 1.1 | 1.1 | 2.2 | 2.1 | 1.0 | 8.7 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 1 | 8 |
| 1951 | PPT: | 2.0 | 3.0 | 2.5 | 10.6 | 1.7 | 1.9 | 4.5 | 6.6 | 32.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 2.1 | 3.3 | 3.3 | 2.1 | 0.0 | 11.9 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 2 | 3 | 3 | 2 | 0 | 11 |
| 1952 | PPT: | 2.1 | 4.6 | 4.7 | 0.6 | 2.8 | 7.5 | 0.3 | 0.5 | 23.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 4.3 | 3.3 | 2.2 | 3.2 | 2.1 | 16.1 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 4 | 3 | 2 | 3 | 2 | 15 |
| 1953 | PPT: | 5.6 | 7.1 | 5.0 | 0.1 | 2.5 | 3.3 | 1.2 | 2.7 | 27.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 4.4 | 2.2 | 3.2 | 3.3 | 2.1 | 16.2 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 4 | 2 | 3 | 3 | 2 | 15 |
| 1954 | PPT: | 2.2 | 4.1 | 3.7 | 2.7 | 0.5 | 1.8 | 4.2 | 6.3 | 25.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 2.1 | 4.3 | 3.3 | 2.2 | 0.0 | 13.1 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 2 | 4 | 3 | 2 | 0 | 12 |
| 1955 | PPT: | 3.7 | 2.8 | 6.3 | 6.0 | 2.3 | 3.5 | 4.1 | 0.7 | 29.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 0.0 | 3.2 | 1.2 | 3.2 | 1.0 | 9.6 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 3 | 1 | 3 | 1 | 9 |
| 1956 | PPT: | 1.8 | 4.1 | 6.7 | 5.4 | 3.9 | 2.3 | 0.6 | 1.9 | 26.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 0.0 | 2.2 | 3.2 | 3.1 | 2.0 | 11.6 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 2 | 3 | 3 | 2 | 11 |
| 1957 | PPT: | 3.0 | 11.2 | 11.6 | 6.7 | 1.9 | 5.3 | 6.2 | 2.3 | 48.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 3.4 | 2.1 | 0.0 | 2.1 | 7.7 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 2 | 7 |
| 1958 | PPT: | 4.4 | 2.8 | 4.0 | 6.2 | 12.3 | 2.6 | 4.3 | 0.9 | 37.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 2.1 | 1.1 | 3.3 | 1.0 | 2.1 | 10.6 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 2 | 1 | 3 | 1 | 2 | 10 |
| 1959 | PPT: | 1.1 | 3.7 | 4.2 | 3.3 | 6.6 | 2.2 | 3.5 | 4.5 | 29.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.2 | 2.1 | 3.2 | 3.2 | 1.0 | 11.7 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 2 | 2 | 3 | 3 | 1 | 11 |
| 1960 | PPT: | 1.5 | 3.2 | 8.1 | 1.5 | 14.0 | 1.3 | 2.0 | 2.0 | 33.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 3.1 | 2.2 | 4.2 | 2.1 | 2.1 | 14.6 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 3 | 2 | 4 | 2 | 2 | 14 |
| 1961 | PPT: | 2.8 | 2.1 | 14.2 | 4.3 | 7.4 | 6.3 | 5.6 | 2.7 | 45.4 |
| | IRRIGATION AMT: | 0.0 | 1.0 | 0.0 | 2.2 | 2.1 | 3.4 | 2.1 | 1.0 | 11.7 |
| | NUMBER OF IRR : | 0 | 1 | 0 | 2 | 2 | 3 | 2 | 1 | 11 |
| 1962 | PPT: | 1.7 | 4.5 | 5.7 | 6.2 | 3.3 | 5.8 | 8.1 | 6.8 | 42.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 1.1 | 3.2 | 3.4 | 0.0 | 0.0 | 9.9 |
| | NUMBER OF IRR : | 0 | 0 | 2 | 1 | 3 | 3 | 0 | 0 | 9 |

lu continued

| | | | | | | | | | | |
|-----------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1963 | PPT: | 1.0 | 1.7 | 3.8 | 2.4 | 2.8 | 4.1 | 1.2 | 0.0 | 17.0 |
| | IRRIGATION AMT: | 0.0 | 1.0 | 2.1 | 2.1 | 3.4 | 2.3 | 3.2 | 2.0 | 16.1 |
| | NUMBER OF IRR : | 0 | 1 | 2 | 2 | 3 | 2 | 3 | 2 | 15 |
| 1964 | PPT: | 2.3 | 3.3 | 3.5 | 5.3 | 0.5 | 9.6 | 4.0 | 0.3 | 28.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 2.1 | 4.3 | 1.1 | 2.2 | 2.1 | 12.9 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 2 | 4 | 1 | 2 | 2 | 12 |
| 1965 | PPT: | 1.1 | 6.0 | 3.8 | 7.1 | 1.7 | 6.4 | 3.0 | 1.1 | 30.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.1 | 3.2 | 3.2 | 1.0 | 2.1 | 10.6 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 3 | 3 | 1 | 2 | 10 |
| 1966 | PPT: | 1.6 | 5.9 | 2.8 | 2.6 | 3.3 | 5.1 | 0.9 | 0.6 | 22.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 2.2 | 3.2 | 2.2 | 3.2 | 1.0 | 12.9 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 2 | 3 | 2 | 3 | 1 | 12 |
| 1967 | PPT: | 1.0 | 5.0 | 4.3 | 6.1 | 2.4 | 0.7 | 2.4 | 8.1 | 30.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 2.1 | 3.1 | 4.4 | 2.0 | 1.0 | 13.9 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 2 | 3 | 4 | 2 | 1 | 13 |
| 1968 | PPT: | 5.6 | 3.7 | 5.7 | 4.0 | 2.9 | 3.9 | 4.0 | 1.5 | 31.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.1 | 3.3 | 2.2 | 2.0 | 2.0 | 10.6 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 3 | 2 | 2 | 2 | 10 |
| 1969 | PPT: | 2.6 | 3.7 | 7.1 | 3.6 | 1.2 | 1.2 | 2.2 | 9.4 | 31.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.1 | 4.4 | 4.4 | 2.1 | 1.0 | 13.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 4 | 4 | 2 | 1 | 12 |
| 1970 | PPT: | 1.9 | 7.7 | 0.9 | 2.9 | 0.8 | 1.2 | 9.9 | 7.8 | 33.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 2.1 | 4.3 | 4.4 | 0.0 | 0.0 | 13.0 |
| | NUMBER OF IRR : | 0 | 0 | 2 | 2 | 4 | 4 | 0 | 0 | 12 |
| 1971 | PPT: | 0.5 | 3.5 | 4.1 | 3.0 | 3.2 | 1.6 | 3.6 | 2.9 | 22.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.1 | 2.1 | 4.4 | 1.1 | 1.0 | 11.8 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 3 | 2 | 4 | 1 | 1 | 11 |
| 1972 | PPT: | 1.4 | 5.3 | 2.2 | 2.5 | 7.1 | 2.1 | 7.0 | 5.8 | 33.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 2.2 | 3.4 | 3.3 | 1.0 | 1.0 | 13.0 |
| | NUMBER OF IRR : | 0 | 0 | 2 | 2 | 3 | 3 | 1 | 1 | 12 |
| 1973 | PPT: | 6.7 | 8.0 | 7.2 | 6.0 | 1.2 | 2.1 | 6.9 | 5.5 | 43.7 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.0 | 3.2 | 4.5 | 1.1 | 0.0 | 10.8 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 2 | 3 | 4 | 1 | 0 | 10 |
| 1974 | PPT: | 4.0 | 6.8 | 5.4 | 7.1 | 1.1 | 6.3 | 7.9 | 3.7 | 42.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 4.3 | 1.1 | 1.0 | 1.0 | 9.6 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 2 | 4 | 1 | 1 | 1 | 9 |
| AVERAGE PPT. : | | 2.7 | 5.0 | 5.9 | 4.9 | 3.5 | 3.8 | 4.1 | 3.7 | 33.6 |
| AVE IRRIG AMT : | | 0.0 | 0.1 | 0.8 | 1.8 | 3.2 | 3.1 | 2.0 | 1.1 | 12.0 |
| AVE NO OF IRR : | | 0.0 | 0.1 | 0.8 | 1.7 | 2.9 | 2.8 | 1.9 | 1.0 | 11.1 |
| TIME 2.6 SECS. | | | | | | | | | | |

lv: Annual Irrigated Water Balance for Strawberry; Sprinkler

IRRIGATION SEASON FROM DAY 65 TO DAY 304

ASSUMES ACTUAL EVAPOTRANSPIRATION IS 80% OF PET

ASSUMES FIELD IS AT FIELD CAPACITY ON STARTING DAY

CROP IS STRAWBERRY

AVAILABLE SOIL MOISTURE IS 2.0INCHES

IRRIGATION INITIATED WHEN 50% OF AVAIL. MOIST. REMAINS

| MONTHS: | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | TOT |
|-----------------|-----|------|------|-----|-----|------|-----|------|------|
| ET: | 0.6 | 2.3 | 4.2 | 5.5 | 6.6 | 6.6 | 5.4 | 3.1 | 34.3 |
| 1940 PPT: | 1.9 | 6.6 | 1.5 | 6.0 | 0.9 | 5.7 | 7.8 | 1.8 | 32.2 |
| IRRIGATION AMT: | 0.0 | 0.0 | 2.0 | 1.1 | 6.3 | 3.2 | 3.3 | 3.1 | 19.1 |
| NUMBER OF IRR : | 0 | 0 | 2 | 1 | 6 | 3 | 3 | 3 | 18 |
| 1941 PPT: | 0.5 | 8.6 | 0.7 | 4.2 | 2.2 | 4.7 | 3.8 | 13.0 | 37.8 |
| IRRIGATION AMT: | 0.0 | 0.0 | 3.2 | 4.4 | 5.4 | 2.2 | 3.2 | 0.0 | 18.4 |
| NUMBER OF IRR : | 0 | 0 | 3 | 4 | 5 | 2 | 3 | 0 | 17 |
| 1942 PPT: | 0.8 | 7.1 | 6.0 | 6.8 | 2.1 | 7.0 | 4.4 | 6.5 | 40.7 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 2.3 | 6.4 | 3.2 | 3.1 | 1.0 | 17.1 |
| NUMBER OF IRR : | 0 | 0 | 1 | 2 | 6 | 3 | 3 | 1 | 16 |
| 1943 PPT: | 3.4 | 2.9 | 15.0 | 4.9 | 0.3 | 0.8 | 3.8 | 4.7 | 35.9 |
| IRRIGATION AMT: | 0.0 | 1.0 | 0.0 | 1.1 | 6.6 | 6.4 | 3.1 | 1.0 | 19.2 |
| NUMBER OF IRR : | 0 | 1 | 0 | 1 | 6 | 6 | 3 | 1 | 18 |
| 1944 PPT: | 5.9 | 5.2 | 5.5 | 7.2 | 2.2 | 6.4 | 2.0 | 3.6 | 38.1 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 3.4 | 4.5 | 3.3 | 4.3 | 1.1 | 17.6 |
| NUMBER OF IRR : | 0 | 0 | 1 | 3 | 4 | 3 | 4 | 1 | 16 |
| 1945 PPT: | 8.3 | 10.9 | 4.5 | 6.7 | 6.2 | 2.4 | 9.6 | 2.8 | 51.4 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 2.3 | 3.3 | 4.5 | 3.3 | 1.1 | 15.5 |
| NUMBER OF IRR : | 0 | 0 | 1 | 2 | 3 | 4 | 3 | 1 | 14 |
| 1946 PPT: | 2.3 | 3.7 | 10.2 | 5.3 | 3.3 | 0.7 | 1.5 | 2.0 | 29.0 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.3 | 5.3 | 6.4 | 3.3 | 2.1 | 20.4 |
| NUMBER OF IRR : | 0 | 0 | 0 | 3 | 5 | 6 | 3 | 2 | 19 |
| 1947 PPT: | 1.2 | 7.0 | 7.1 | 6.5 | 2.2 | 0.9 | 4.2 | 3.9 | 32.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 2.2 | 2.2 | 5.4 | 6.4 | 3.2 | 2.1 | 21.5 |
| NUMBER OF IRR : | 0 | 0 | 2 | 2 | 5 | 6 | 3 | 2 | 20 |
| 1948 PPT: | 3.2 | 1.6 | 5.1 | 8.3 | 4.5 | 10.4 | 0.3 | 1.4 | 34.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 2.0 | 2.2 | 3.1 | 4.3 | 5.5 | 2.0 | 19.2 |
| NUMBER OF IRR : | 0 | 0 | 2 | 2 | 3 | 4 | 5 | 2 | 18 |

lv continued

| | | | | | | | | | | |
|-----------------|------|-----|------|------|------|------|-----|-----|------|------|
| 1949 | PPT: | 2.5 | 1.8 | 9.2 | 4.8 | 4.2 | 1.0 | 6.7 | 3.7 | 34.0 |
| IRRIGATION AMT: | 0.0 | 1.1 | 1.1 | 2.2 | 4.2 | 6.4 | 3.2 | 1.0 | 19.3 | |
| NUMBER OF IRR : | 0 | 1 | 1 | 2 | 4 | 6 | 3 | 1 | 18 | |
| 1950 | PPT: | 1.6 | 4.5 | 14.4 | 4.0 | 7.5 | 4.9 | 3.0 | 1.1 | 41.1 |
| IRRIGATION AMT: | 0.0 | 1.1 | 1.0 | 3.3 | 3.2 | 3.1 | 3.3 | 2.1 | 17.0 | |
| NUMBER OF IRR : | 0 | 1 | 1 | 3 | 3 | 3 | 3 | 2 | 16 | |
| 1951 | PPT: | 2.0 | 3.0 | 2.5 | 10.6 | 1.7 | 1.9 | 4.5 | 6.6 | 32.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 1.2 | 4.5 | 5.3 | 2.1 | 2.1 | 17.4 | |
| NUMBER OF IRR : | 0 | 0 | 2 | 1 | 4 | 5 | 2 | 2 | 16 | |
| 1952 | PPT: | 2.1 | 4.6 | 4.7 | 0.6 | 2.8 | 7.5 | 0.3 | 0.5 | 23.2 |
| IRRIGATION AMT: | 0.0 | 0.0 | 3.1 | 4.6 | 5.2 | 3.2 | 5.4 | 3.1 | 24.6 | |
| NUMBER OF IRR : | 0 | 0 | 3 | 4 | 5 | 3 | 5 | 3 | 23 | |
| 1953 | PPT: | 5.6 | 7.1 | 5.0 | 0.1 | 2.5 | 3.3 | 1.2 | 2.7 | 27.6 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 5.6 | 5.5 | 4.3 | 5.4 | 1.1 | 22.9 | |
| NUMBER OF IRR : | 0 | 0 | 1 | 5 | 5 | 4 | 5 | 1 | 21 | |
| 1954 | PPT: | 2.2 | 4.1 | 3.7 | 2.7 | 0.5 | 1.8 | 4.2 | 6.3 | 25.6 |
| IRRIGATION AMT: | 0.0 | 0.0 | 2.2 | 3.4 | 6.3 | 4.4 | 4.5 | 0.0 | 20.9 | |
| NUMBER OF IRR : | 0 | 0 | 2 | 3 | 6 | 4 | 4 | 0 | 19 | |
| 1955 | PPT: | 3.7 | 2.8 | 6.3 | 6.0 | 2.3 | 3.5 | 4.1 | 0.7 | 29.6 |
| IRRIGATION AMT: | 0.0 | 1.0 | 0.0 | 2.3 | 4.5 | 4.2 | 3.3 | 2.1 | 17.4 | |
| NUMBER OF IRR : | 0 | 1 | 0 | 2 | 4 | 4 | 3 | 2 | 16 | |
| 1956 | PPT: | 1.8 | 4.1 | 6.7 | 5.4 | 3.9 | 2.3 | 0.6 | 1.9 | 26.8 |
| IRRIGATION AMT: | 0.0 | 0.0 | 2.2 | 2.1 | 3.4 | 4.4 | 4.4 | 2.1 | 18.6 | |
| NUMBER OF IRR : | 0 | 0 | 2 | 2 | 3 | 4 | 4 | 2 | 17 | |
| 1957 | PPT: | 3.0 | 11.2 | 11.6 | 6.7 | 1.9 | 5.3 | 6.2 | 2.3 | 48.3 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 2.3 | 4.3 | 4.4 | 1.1 | 2.2 | 15.4 | |
| NUMBER OF IRR : | 0 | 0 | 1 | 2 | 4 | 4 | 1 | 2 | 14 | |
| 1958 | PPT: | 4.4 | 2.8 | 4.0 | 6.2 | 12.3 | 2.6 | 4.3 | 0.9 | 37.6 |
| IRRIGATION AMT: | 0.0 | 0.0 | 2.0 | 2.1 | 2.3 | 5.4 | 2.2 | 2.2 | 16.1 | |
| NUMBER OF IRR : | 0 | 0 | 2 | 2 | 2 | 5 | 2 | 2 | 15 | |
| 1959 | PPT: | 1.1 | 3.7 | 4.2 | 3.3 | 6.6 | 2.2 | 3.5 | 4.5 | 29.1 |
| IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 4.4 | 4.3 | 5.3 | 3.4 | 1.1 | 20.5 | |
| NUMBER OF IRR : | 0 | 0 | 2 | 4 | 4 | 5 | 3 | 1 | 19 | |
| 1960 | PPT: | 1.5 | 3.2 | 8.1 | 1.5 | 14.0 | 1.3 | 2.0 | 2.0 | 33.8 |
| IRRIGATION AMT: | 0.0 | 1.0 | 2.1 | 4.2 | 4.4 | 4.5 | 4.5 | 1.1 | 21.9 | |
| NUMBER OF IRR : | 0 | 1 | 2 | 4 | 4 | 4 | 4 | 1 | 20 | |
| 1961 | PPT: | 2.8 | 2.1 | 14.2 | 4.3 | 7.4 | 6.3 | 5.6 | 2.7 | 45.4 |
| IRRIGATION AMT: | 0.0 | 1.1 | 2.2 | 2.3 | 4.3 | 5.5 | 2.2 | 1.1 | 18.7 | |
| NUMBER OF IRR : | 0 | 1 | 2 | 2 | 4 | 5 | 2 | 1 | 17 | |
| 1962 | PPT: | 1.7 | 4.5 | 5.7 | 6.2 | 3.3 | 5.8 | 8.1 | 6.8 | 42.2 |
| IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 1.1 | 4.3 | 5.5 | 1.1 | 0.0 | 14.1 | |
| NUMBER OF IRR : | 0 | 0 | 2 | 1 | 4 | 5 | 1 | 0 | 13 | |

lv continued

| | | | | | | | | | | |
|-----------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1963 | PPT: | 1.0 | 1.7 | 3.8 | 2.4 | 2.8 | 4.1 | 1.2 | 0.0 | 17.0 |
| | IRRIGATION AMT: | 0.0 | 1.0 | 2.1 | 4.4 | 4.4 | 4.4 | 4.5 | 3.1 | 23.9 |
| | NUMBER OF IRR : | 0 | 1 | 2 | 4 | 4 | 4 | 4 | 3 | 22 |
| 1964 | PPT: | 2.3 | 3.3 | 3.5 | 5.3 | 0.5 | 9.6 | 4.0 | 0.3 | 28.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 3.2 | 3.3 | 6.3 | 2.2 | 3.4 | 3.2 | 21.6 |
| | NUMBER OF IRR : | 0 | 0 | 3 | 3 | 6 | 2 | 3 | 3 | 20 |
| 1965 | PPT: | 1.1 | 6.0 | 3.8 | 7.1 | 1.7 | 6.4 | 3.0 | 1.1 | 30.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 2.3 | 4.2 | 5.4 | 3.4 | 1.1 | 18.5 |
| | NUMBER OF IRR : | 0 | 0 | 2 | 2 | 4 | 5 | 3 | 1 | 17 |
| 1966 | PPT: | 1.6 | 5.9 | 2.8 | 2.6 | 3.3 | 5.1 | 0.9 | 0.6 | 22.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 4.5 | 5.4 | 2.2 | 5.5 | 2.1 | 21.9 |
| | NUMBER OF IRR : | 0 | 0 | 2 | 4 | 5 | 2 | 5 | 2 | 20 |
| 1967 | PPT: | 1.0 | 5.0 | 4.3 | 6.1 | 2.4 | 0.7 | 2.4 | 8.1 | 30.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 4.2 | 4.4 | 5.5 | 3.3 | 1.0 | 19.6 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 4 | 4 | 5 | 3 | 1 | 18 |
| 1968 | PPT: | 5.6 | 3.7 | 5.7 | 4.0 | 2.9 | 3.9 | 4.0 | 1.5 | 31.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 3.4 | 4.4 | 3.3 | 3.3 | 2.1 | 18.6 |
| | NUMBER OF IRR : | 0 | 0 | 2 | 3 | 4 | 3 | 3 | 2 | 17 |
| 1969 | PPT: | 2.6 | 3.7 | 7.1 | 3.6 | 1.2 | 1.2 | 2.2 | 9.4 | 31.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 3.4 | 5.3 | 5.4 | 4.4 | 1.1 | 20.7 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 3 | 5 | 5 | 4 | 1 | 19 |
| 1970 | PPT: | 1.9 | 7.7 | 0.9 | 2.9 | 0.8 | 1.2 | 9.9 | 7.8 | 33.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 3.2 | 3.3 | 6.4 | 5.4 | 2.2 | 1.0 | 21.5 |
| | NUMBER OF IRR : | 0 | 0 | 3 | 3 | 6 | 5 | 2 | 1 | 20 |
| 1971 | PPT: | 0.5 | 3.5 | 4.1 | 3.0 | 3.2 | 1.6 | 3.6 | 2.9 | 22.3 |
| | IRRIGATION AMT: | 0.0 | 1.0 | 2.2 | 3.2 | 4.4 | 5.4 | 2.1 | 2.1 | 20.4 |
| | NUMBER OF IRR : | 0 | 1 | 2 | 3 | 4 | 5 | 2 | 2 | 19 |
| 1972 | PPT: | 1.4 | 5.3 | 2.2 | 2.5 | 7.1 | 2.1 | 7.0 | 5.8 | 33.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 3.2 | 3.2 | 4.5 | 5.5 | 3.1 | 1.0 | 20.5 |
| | NUMBER OF IRR : | 0 | 0 | 3 | 3 | 4 | 5 | 3 | 1 | 19 |
| 1973 | PPT: | 6.7 | 8.0 | 7.2 | 6.0 | 1.2 | 2.1 | 6.9 | 5.5 | 43.7 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 2.2 | 5.2 | 5.6 | 2.2 | 1.1 | 17.3 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 2 | 5 | 5 | 2 | 1 | 16 |
| 1974 | PPT: | 4.0 | 6.8 | 5.4 | 7.1 | 1.1 | 6.3 | 7.9 | 3.7 | 42.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.2 | 3.5 | 5.5 | 2.1 | 1.2 | 3.0 | 17.6 |
| | NUMBER OF IRR : | 0 | 0 | 2 | 3 | 5 | 2 | 1 | 3 | 16 |
| AVERAGE PPT. : | | 2.7 | 5.0 | 5.9 | 4.9 | 3.5 | 3.8 | 4.1 | 3.7 | 33.6 |
| AVE IRRIG AMT : | | 0.0 | 0.2 | 1.8 | 3.0 | 4.8 | 4.5 | 3.3 | 1.6 | 19.3 |
| AVE NO OF IRR : | | 0.0 | 0.2 | 1.7 | 2.7 | 4.4 | 4.2 | 3.1 | 1.5 | 17.8 |
| TIME 2.6 SECS. | | | | | | | | | | |

lw: Annual Irrigated Water Balance for Greens; Sprinkler

IRRIGATION SEASON FROM DAY 91 TO DAY 135

ASSUMES ACTUAL EVAPOTRANSPIRATION IS 80% OF PET

ASSUMES FIELD IS AT FIELD CAPACITY ON STARTING DAY

CROP IS GREENS

AVAILABLE SOIL MOISTURE IS 2.0INCHES

IRRIGATION INITIATED WHEN 50% OF AVAIL. MOIST. REMAINS

| MONTHS: | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | TOT |
|-----------------|-----|------|-----|-----|-----|-----|-----|-----|------|
| ET: | 0.0 | 2.3 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 |
| 1940 PPT: | 0.0 | 6.6 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.8 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1941 PPT: | 0.0 | 8.6 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.3 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 |
| NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1942 PPT: | 0.0 | 7.1 | 4.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.7 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1943 PPT: | 0.0 | 2.9 | 9.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.1 |
| IRRIGATION AMT: | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| NUMBER OF IRR : | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1944 PPT: | 0.0 | 5.2 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.6 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1945 PPT: | 0.0 | 10.9 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.1 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1946 PPT: | 0.0 | 3.7 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.3 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1947 PPT: | 0.0 | 7.0 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.1 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1948 PPT: | 0.0 | 1.6 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 |
| NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |

lw continued

| | | | | | | | | | | |
|------|-----------------|-----|------|------|-----|-----|-----|-----|-----|------|
| 1949 | PPT: | 0.0 | 1.8 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.8 |
| | IRRIGATION AMT: | 0.0 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 |
| | NUMBER OF IRR : | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1950 | PPT: | 0.0 | 4.5 | 10.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15.4 |
| | IRRIGATION AMT: | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 |
| | NUMBER OF IRR : | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1951 | PPT: | 0.0 | 3.0 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1952 | PPT: | 0.0 | 4.6 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 |
| | NUMBER OF IRR : | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1953 | PPT: | 0.0 | 7.1 | 4.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1954 | PPT: | 0.0 | 4.1 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.5 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1955 | PPT: | 0.0 | 2.8 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.7 |
| | IRRIGATION AMT: | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| | NUMBER OF IRR : | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1956 | PPT: | 0.0 | 4.1 | 4.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.7 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1957 | PPT: | 0.0 | 11.2 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1958 | PPT: | 0.0 | 2.8 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1959 | PPT: | 0.0 | 3.7 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1960 | PPT: | 0.0 | 3.2 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1961 | PPT: | 0.0 | 2.1 | 10.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.8 |
| | IRRIGATION AMT: | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 |
| | NUMBER OF IRR : | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1962 | PPT: | 0.0 | 4.5 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.7 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |

lw continued

| | | | | | | | | | | |
|-----------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1963 | PPT: | 0.0 | 1.7 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 |
| | IRRIGATION AMT: | 0.0 | 1.1 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 |
| | NUMBER OF IRR : | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1964 | PPT: | 0.0 | 3.3 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1965 | PPT: | 0.0 | 6.0 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1966 | PPT: | 0.0 | 5.9 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1967 | PPT: | 0.0 | 5.0 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1968 | PPT: | 0.0 | 3.7 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1969 | PPT: | 0.0 | 3.7 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1970 | PPT: | 0.0 | 7.7 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1971 | PPT: | 0.0 | 3.5 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1972 | PPT: | 0.0 | 5.3 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1973 | PPT: | 0.0 | 8.0 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1974 | PPT: | 0.0 | 6.8 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.7 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| AVERAGE PPT. : | | 0.0 | 5.0 | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.9 |
| AVE IRRIG AMT : | | 0.0 | 0.2 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 |
| AVE NO OF IRR : | | 0.0 | 0.2 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 |
| TIME 1.5 SECS. | | | | | | | | | | |

lx: Annual Irrigated Water Balance for Tomatoes; Sprinkler

IRRIGATION SEASON FROM DAY 135 TO DAY 274

ASSUMES ACTUAL EVAPOTRANSPIRATION IS 80% OF PET

ASSUMES FIELD IS AT FIELD CAPACITY ON STARTING DAY

CROP IS TOMATO SP

AVAILABLE SOIL MOISTURE IS 4.0INCHES

IRRIGATION INITIATED WHEN 50% OF AVAIL. MOIST. REMAINS

| MONTHS: | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | TOT |
|-----------------|-----|-----|-----|-----|-----|------|-----|-----|------|
| ET: | 0.0 | 0.0 | 2.5 | 5.5 | 6.6 | 6.6 | 5.4 | 0.1 | 26.8 |
| 1940 PPT: | 0.0 | 0.0 | 1.3 | 6.0 | 0.9 | 5.7 | 7.8 | 0.0 | 21.7 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 6.3 | 0.0 | 2.1 | 0.0 | 10.5 |
| NUMBER OF IRR : | 0 | 0 | 0 | 1 | 3 | 0 | 1 | 0 | 5 |
| 1941 PPT: | 0.0 | 0.0 | 0.0 | 4.2 | 2.2 | 4.7 | 3.8 | 0.4 | 15.4 |
| IRRIGATION AMT: | 0.0 | 0.0 | 2.0 | 2.2 | 6.3 | 2.2 | 4.1 | 0.0 | 16.7 |
| NUMBER OF IRR : | 0 | 0 | 1 | 1 | 3 | 1 | 2 | 0 | 8 |
| 1942 PPT: | 0.0 | 0.0 | 1.6 | 6.8 | 2.1 | 7.0 | 4.4 | 0.0 | 21.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 4.2 | 4.3 | 2.1 | 2.1 | 0.0 | 12.7 |
| NUMBER OF IRR : | 0 | 0 | 0 | 2 | 2 | 1 | 1 | 0 | 6 |
| 1943 PPT: | 0.0 | 0.0 | 5.9 | 4.9 | 0.3 | 0.8 | 3.8 | 0.9 | 16.7 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 6.4 | 6.3 | 2.1 | 0.0 | 14.7 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 3 | 3 | 1 | 0 | 7 |
| 1944 PPT: | 0.0 | 0.0 | 3.2 | 7.2 | 2.2 | 6.4 | 2.0 | 0.0 | 21.0 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 4.1 | 2.0 | 4.2 | 0.0 | 12.4 |
| NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 1 | 2 | 0 | 6 |
| 1945 PPT: | 0.0 | 0.0 | 3.1 | 6.7 | 6.2 | 2.4 | 9.6 | 0.9 | 28.8 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 2.0 | 4.1 | 2.1 | 0.0 | 10.3 |
| NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 0 | 5 |
| 1946 PPT: | 0.0 | 0.0 | 8.2 | 5.3 | 3.3 | 0.7 | 1.5 | 0.0 | 19.0 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 4.2 | 6.4 | 2.2 | 0.0 | 15.0 |
| NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 3 | 1 | 0 | 7 |
| 1947 PPT: | 0.0 | 0.0 | 4.9 | 6.5 | 2.2 | 0.9 | 4.2 | 0.0 | 18.7 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 6.5 | 6.4 | 0.0 | 0.0 | 12.9 |
| NUMBER OF IRR : | 0 | 0 | 0 | 0 | 3 | 3 | 0 | 0 | 6 |
| 1948 PPT: | 0.0 | 0.0 | 1.9 | 8.3 | 4.5 | 10.4 | 0.3 | 0.0 | 25.4 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.0 | 2.1 | 4.3 | 4.1 | 2.1 | 14.6 |
| NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 2 | 2 | 1 | 7 |

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|------|-----------------|-----|-----|-----|------|------|-----|-----|-----|------|
| 1949 | PPT: | 0.0 | 0.0 | 7.4 | 4.8 | 4.2 | 1.0 | 6.7 | 0.0 | 24.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.2 | 2.1 | 6.5 | 2.0 | 0.0 | 12.8 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 1 | 3 | 1 | 0 | 6 |
| 1950 | PPT: | 0.0 | 0.0 | 3.4 | 4.0 | 7.5 | 4.9 | 3.0 | 0.0 | 23.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 4.4 | 2.0 | 0.0 | 8.4 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 0 | 2 | 1 | 0 | 4 |
| 1951 | PPT: | 0.0 | 0.0 | 0.9 | 10.6 | 1.7 | 1.9 | 4.5 | 0.0 | 19.7 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 | 4.1 | 2.1 | 0.0 | 10.5 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 0 | 5 |
| 1952 | PPT: | 0.0 | 0.0 | 4.3 | 0.6 | 2.8 | 7.5 | 0.3 | 0.0 | 15.5 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 4.2 | 4.4 | 2.1 | 6.2 | 0.0 | 16.8 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 2 | 2 | 1 | 3 | 0 | 8 |
| 1953 | PPT: | 0.0 | 0.0 | 0.9 | 0.1 | 2.5 | 3.3 | 1.2 | 0.0 | 8.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 6.3 | 4.3 | 6.3 | 4.1 | 0.0 | 21.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 3 | 2 | 3 | 2 | 0 | 10 |
| 1954 | PPT: | 0.0 | 0.0 | 1.3 | 2.7 | 0.5 | 1.8 | 4.2 | 0.0 | 10.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 4.1 | 4.2 | 6.3 | 4.3 | 0.0 | 18.9 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 2 | 2 | 3 | 2 | 0 | 9 |
| 1955 | PPT: | 0.0 | 0.0 | 4.5 | 6.0 | 2.3 | 3.5 | 4.1 | 0.0 | 20.5 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 4.0 | 4.2 | 4.1 | 0.0 | 12.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 0 | 6 |
| 1956 | PPT: | 0.0 | 0.0 | 5.3 | 5.4 | 3.9 | 2.3 | 0.6 | 0.0 | 17.5 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 4.1 | 4.4 | 4.2 | 0.0 | 12.7 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 0 | 6 |
| 1957 | PPT: | 0.0 | 0.0 | 9.7 | 6.7 | 1.9 | 5.3 | 6.2 | 0.0 | 29.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 | 4.1 | 0.0 | 0.0 | 8.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 4 |
| 1958 | PPT: | 0.0 | 0.0 | 0.4 | 6.2 | 12.3 | 2.6 | 4.3 | 0.0 | 25.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 2.1 | 0.0 | 4.2 | 2.1 | 0.0 | 10.4 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 0 | 2 | 1 | 0 | 5 |
| 1959 | PPT: | 0.0 | 0.0 | 2.7 | 3.3 | 6.6 | 2.2 | 3.5 | 0.0 | 18.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.2 | 4.2 | 6.3 | 4.3 | 0.0 | 17.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 3 | 2 | 0 | 8 |
| 1960 | PPT: | 0.0 | 0.0 | 4.4 | 1.5 | 14.0 | 1.3 | 2.0 | 0.0 | 23.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 4.1 | 2.0 | 6.2 | 2.2 | 0.0 | 14.5 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 2 | 1 | 3 | 1 | 0 | 7 |
| 1961 | PPT: | 0.0 | 0.0 | 3.5 | 4.3 | 7.4 | 6.3 | 5.6 | 0.0 | 27.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 4.1 | 4.4 | 2.0 | 0.0 | 12.6 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 2 | 1 | 0 | 6 |
| 1962 | PPT: | 0.0 | 0.0 | 5.6 | 6.2 | 3.3 | 5.8 | 8.1 | 0.1 | 29.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 4.2 | 0.0 | 0.0 | 6.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 3 |

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|-----------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1963 | PPT: | 0.0 | 0.0 | 3.7 | 2.4 | 2.8 | 4.1 | 1.2 | 0.0 | 14.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.2 | 4.3 | 4.2 | 4.2 | 0.0 | 14.9 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 2 | 2 | 0 | 7 |
| 1964 | PPT: | 0.0 | 0.0 | 0.7 | 5.3 | 0.5 | 9.6 | 4.0 | 0.0 | 20.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 4.2 | 6.4 | 0.0 | 2.1 | 0.0 | 12.7 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 2 | 3 | 0 | 1 | 0 | 6 |
| 1965 | PPT: | 0.0 | 0.0 | 1.9 | 7.1 | 1.7 | 6.4 | 3.0 | 0.0 | 20.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.0 | 4.1 | 4.3 | 2.1 | 0.0 | 12.6 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 2 | 1 | 0 | 6 |
| 1966 | PPT: | 0.0 | 0.0 | 1.4 | 2.6 | 3.3 | 5.1 | 0.9 | 0.0 | 13.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 6.2 | 4.4 | 0.0 | 6.3 | 0.0 | 16.9 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 3 | 2 | 0 | 3 | 0 | 8 |
| 1967 | PPT: | 0.0 | 0.0 | 0.7 | 6.1 | 2.4 | 0.7 | 2.4 | 0.0 | 12.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 4.2 | 4.4 | 4.2 | 4.2 | 0.0 | 17.0 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 0 | 8 |
| 1968 | PPT: | 0.0 | 0.0 | 2.6 | 4.0 | 2.9 | 3.9 | 4.0 | 0.0 | 17.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 4.3 | 2.2 | 2.1 | 0.0 | 10.6 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 1 | 1 | 0 | 5 |
| 1969 | PPT: | 0.0 | 0.0 | 6.0 | 3.6 | 1.2 | 1.2 | 2.2 | 0.0 | 14.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 4.2 | 6.5 | 2.0 | 2.1 | 16.9 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 2 | 3 | 1 | 1 | 8 |
| 1970 | PPT: | 0.0 | 0.0 | 0.6 | 2.9 | 0.8 | 1.2 | 9.9 | 0.0 | 15.5 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.0 | 2.2 | 6.3 | 6.3 | 0.0 | 0.0 | 16.7 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 3 | 3 | 0 | 0 | 8 |
| 1971 | PPT: | 0.0 | 0.0 | 2.4 | 3.0 | 3.2 | 1.6 | 3.6 | 0.0 | 13.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 4.2 | 2.1 | 6.3 | 2.1 | 0.0 | 14.7 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 2 | 1 | 3 | 1 | 0 | 7 |
| 1972 | PPT: | 0.0 | 0.0 | 0.3 | 2.5 | 7.1 | 2.1 | 7.0 | 0.0 | 19.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 2.0 | 4.3 | 6.2 | 2.1 | 0.0 | 16.7 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 2 | 3 | 1 | 0 | 8 |
| 1973 | PPT: | 0.0 | 0.0 | 4.1 | 6.0 | 1.2 | 2.1 | 6.9 | 0.0 | 20.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 0.0 | 6.5 | 4.2 | 4.2 | 0.0 | 14.9 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 0 | 3 | 2 | 2 | 0 | 7 |
| 1974 | PPT: | 0.0 | 0.0 | 3.5 | 7.1 | 1.1 | 6.3 | 7.9 | 0.0 | 25.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 6.3 | 0.0 | 0.0 | 0.0 | 8.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 4 |
| AVERAGE PPT. : | | 0.0 | 0.0 | 3.2 | 4.9 | 3.5 | 3.8 | 4.1 | 0.1 | 19.6 |
| AVE IRRIG AMT : | | 0.0 | 0.0 | 0.2 | 2.3 | 4.1 | 4.2 | 2.7 | 0.1 | 13.6 |
| AVE NO OF IRR : | | 0.0 | 0.0 | 0.1 | 1.1 | 1.9 | 2.0 | 1.3 | 0.1 | 6.5 |
| TIME 2.1 SECS. | | | | | | | | | | |

ly: Annual Irrigated Water Balance for Tomatoes; Drip

IRRIGATION SEASON FROM DAY 135 TO DAY 274

ASSUMES ACTUAL EVAPOTRANSPIRATION IS 80% OF PET

ASSUMES FIELD IS AT FIELD CAPACITY ON STARTING DAY

CROP IS TOMATO DR

AVAILABLE SOIL MOISTURE IS 2.0INCHES

IRRIGATION INITIATED WHEN 50% OF AVAIL. MOIST. REMAINS

| MONTHS: | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | TOT |
|-----------------|-----|-----|-----|-----|-----|------|-----|-----|------|
| ET: | 0.0 | 0.0 | 2.5 | 5.5 | 6.6 | 6.6 | 5.4 | 0.1 | 26.8 |
| 1940 PPT: | 0.0 | 0.0 | 1.3 | 6.0 | 0.9 | 5.7 | 7.8 | 0.0 | 21.7 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 1.2 | 6.3 | 3.2 | 3.3 | 0.0 | 15.2 |
| NUMBER OF IRR : | 0 | 0 | 1 | 1 | 6 | 3 | 3 | 0 | 14 |
| 1941 PPT: | 0.0 | 0.0 | 0.0 | 4.2 | 2.2 | 4.7 | 3.8 | 0.4 | 15.4 |
| IRRIGATION AMT: | 0.0 | 0.0 | 2.2 | 3.3 | 5.4 | 2.2 | 3.2 | 0.0 | 16.3 |
| NUMBER OF IRR : | 0 | 0 | 2 | 3 | 5 | 2 | 3 | 0 | 15 |
| 1942 PPT: | 0.0 | 0.0 | 1.6 | 6.8 | 2.1 | 7.0 | 4.4 | 0.0 | 21.9 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 2.3 | 6.4 | 3.2 | 3.1 | 0.0 | 16.1 |
| NUMBER OF IRR : | 0 | 0 | 1 | 2 | 6 | 3 | 3 | 0 | 15 |
| 1943 PPT: | 0.0 | 0.0 | 5.9 | 4.9 | 0.3 | 0.8 | 3.8 | 0.9 | 16.7 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 1.1 | 6.6 | 6.4 | 3.1 | 0.0 | 17.1 |
| NUMBER OF IRR : | 0 | 0 | 0 | 1 | 6 | 6 | 3 | 0 | 16 |
| 1944 PPT: | 0.0 | 0.0 | 3.2 | 7.2 | 2.2 | 6.4 | 2.0 | 0.0 | 21.0 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 3.4 | 4.5 | 3.3 | 4.3 | 0.0 | 16.5 |
| NUMBER OF IRR : | 0 | 0 | 1 | 3 | 4 | 3 | 4 | 0 | 15 |
| 1945 PPT: | 0.0 | 0.0 | 3.1 | 6.7 | 6.2 | 2.4 | 9.6 | 0.9 | 28.8 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 2.3 | 3.3 | 4.5 | 3.3 | 0.0 | 14.4 |
| NUMBER OF IRR : | 0 | 0 | 1 | 2 | 3 | 4 | 3 | 0 | 13 |
| 1946 PPT: | 0.0 | 0.0 | 8.2 | 5.3 | 3.3 | 0.7 | 1.5 | 0.0 | 19.0 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.3 | 5.3 | 6.4 | 3.3 | 0.0 | 18.3 |
| NUMBER OF IRR : | 0 | 0 | 0 | 3 | 5 | 6 | 3 | 0 | 17 |
| 1947 PPT: | 0.0 | 0.0 | 4.9 | 6.5 | 2.2 | 0.9 | 4.2 | 0.0 | 18.7 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.2 | 2.2 | 5.4 | 6.4 | 3.2 | 0.0 | 18.4 |
| NUMBER OF IRR : | 0 | 0 | 1 | 2 | 5 | 6 | 3 | 0 | 17 |
| 1948 PPT: | 0.0 | 0.0 | 1.9 | 8.3 | 4.5 | 10.4 | 0.3 | 0.0 | 25.4 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 2.2 | 3.1 | 4.3 | 5.5 | 0.0 | 16.1 |
| NUMBER OF IRR : | 0 | 0 | 1 | 2 | 3 | 4 | 5 | 0 | 15 |

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|------|-----------------|-----|-----|-----|------|------|-----|-----|-----|------|
| 1949 | PPT: | 0.0 | 0.0 | 7.4 | 4.8 | 4.2 | 1.0 | 6.7 | 0.0 | 24.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.2 | 4.2 | 6.4 | 3.2 | 0.0 | 16.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 2 | 4 | 6 | 3 | 0 | 15 |
| 1950 | PPT: | 0.0 | 0.0 | 3.4 | 4.0 | 7.5 | 4.9 | 3.0 | 0.0 | 23.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 3.3 | 3.2 | 3.1 | 3.3 | 0.0 | 13.9 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 3 | 3 | 3 | 3 | 0 | 13 |
| 1951 | PPT: | 0.0 | 0.0 | 0.9 | 10.6 | 1.7 | 1.9 | 4.5 | 0.0 | 19.7 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 1.2 | 4.5 | 5.3 | 2.1 | 0.0 | 14.2 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 4 | 5 | 2 | 0 | 13 |
| 1952 | PPT: | 0.0 | 0.0 | 4.3 | 0.6 | 2.8 | 7.5 | 0.3 | 0.0 | 15.5 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 4.6 | 5.2 | 3.2 | 5.4 | 0.0 | 19.4 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 4 | 5 | 3 | 5 | 0 | 18 |
| 1953 | PPT: | 0.0 | 0.0 | 0.9 | 0.1 | 2.5 | 3.3 | 1.2 | 0.0 | 8.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 5.6 | 5.5 | 4.3 | 5.4 | 0.0 | 21.9 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 5 | 5 | 4 | 5 | 0 | 20 |
| 1954 | PPT: | 0.0 | 0.0 | 1.3 | 2.7 | 0.5 | 1.8 | 4.2 | 0.0 | 10.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 3.4 | 6.3 | 4.4 | 4.5 | 0.0 | 19.8 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 3 | 6 | 4 | 4 | 0 | 18 |
| 1955 | PPT: | 0.0 | 0.0 | 4.5 | 6.0 | 2.3 | 3.5 | 4.1 | 0.0 | 20.5 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.3 | 4.5 | 4.2 | 3.3 | 0.0 | 14.3 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 2 | 4 | 4 | 3 | 0 | 13 |
| 1956 | PPT: | 0.0 | 0.0 | 5.3 | 5.4 | 3.9 | 2.3 | 0.6 | 0.0 | 17.5 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 2.1 | 3.4 | 4.4 | 4.4 | 0.0 | 15.5 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 2 | 3 | 4 | 4 | 0 | 14 |
| 1957 | PPT: | 0.0 | 0.0 | 9.7 | 6.7 | 1.9 | 5.3 | 6.2 | 0.0 | 29.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.3 | 4.3 | 4.4 | 1.1 | 0.0 | 12.2 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 2 | 4 | 4 | 1 | 0 | 11 |
| 1958 | PPT: | 0.0 | 0.0 | 0.4 | 6.2 | 12.3 | 2.6 | 4.3 | 0.0 | 25.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 3.2 | 2.3 | 5.4 | 2.2 | 0.0 | 14.1 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 3 | 2 | 5 | 2 | 0 | 13 |
| 1959 | PPT: | 0.0 | 0.0 | 2.7 | 3.3 | 6.6 | 2.2 | 3.5 | 0.0 | 18.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 4.4 | 4.3 | 5.3 | 3.4 | 0.0 | 18.4 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 4 | 4 | 5 | 3 | 0 | 17 |
| 1960 | PPT: | 0.0 | 0.0 | 4.4 | 1.5 | 14.0 | 1.3 | 2.0 | 0.0 | 23.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 4.2 | 4.4 | 4.5 | 4.5 | 0.0 | 18.7 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 4 | 4 | 4 | 4 | 0 | 17 |
| 1961 | PPT: | 0.0 | 0.0 | 3.5 | 4.3 | 7.4 | 6.3 | 5.6 | 0.0 | 27.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.2 | 2.3 | 4.3 | 5.5 | 2.2 | 0.0 | 15.5 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 2 | 4 | 5 | 2 | 0 | 14 |
| 1962 | PPT: | 0.0 | 0.0 | 5.6 | 6.2 | 3.3 | 5.8 | 8.1 | 0.1 | 29.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 1.1 | 4.3 | 5.5 | 1.1 | 0.0 | 13.1 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 4 | 5 | 1 | 0 | 12 |

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|-----------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1963 | PPT: | 0.0 | 0.0 | 3.7 | 2.4 | 2.8 | 4.1 | 1.2 | 0.0 | 14.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 4.4 | 4.4 | 4.4 | 4.5 | 0.0 | 18.8 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 4 | 4 | 4 | 4 | 0 | 17 |
| 1964 | PPT: | 0.0 | 0.0 | 0.7 | 5.3 | 0.5 | 9.6 | 4.0 | 0.0 | 20.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 4.4 | 6.3 | 2.2 | 3.4 | 0.0 | 17.4 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 4 | 6 | 2 | 3 | 0 | 16 |
| 1965 | PPT: | 0.0 | 0.0 | 1.9 | 7.1 | 1.7 | 6.4 | 3.0 | 0.0 | 20.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 2.3 | 4.2 | 5.4 | 3.4 | 0.0 | 16.3 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 2 | 4 | 5 | 3 | 0 | 15 |
| 1966 | PPT: | 0.0 | 0.0 | 1.4 | 2.6 | 3.3 | 5.1 | 0.9 | 0.0 | 13.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 4.5 | 5.4 | 2.2 | 5.5 | 0.0 | 18.7 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 4 | 5 | 2 | 5 | 0 | 17 |
| 1967 | PPT: | 0.0 | 0.0 | 0.7 | 6.1 | 2.4 | 0.7 | 2.4 | 0.0 | 12.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 4.2 | 4.4 | 5.5 | 3.3 | 0.0 | 18.6 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 4 | 4 | 5 | 3 | 0 | 17 |
| 1968 | PPT: | 0.0 | 0.0 | 2.6 | 4.0 | 2.9 | 3.9 | 4.0 | 0.0 | 17.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 3.4 | 4.4 | 3.3 | 3.3 | 0.0 | 15.4 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 3 | 4 | 3 | 3 | 0 | 14 |
| 1969 | PPT: | 0.0 | 0.0 | 6.0 | 3.6 | 1.2 | 1.2 | 2.2 | 0.0 | 14.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 3.4 | 5.3 | 5.4 | 4.4 | 0.0 | 18.5 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 3 | 5 | 5 | 4 | 0 | 17 |
| 1970 | PPT: | 0.0 | 0.0 | 0.6 | 2.9 | 0.8 | 1.2 | 9.9 | 0.0 | 15.5 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 3.3 | 6.4 | 5.4 | 2.2 | 0.0 | 18.4 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 3 | 6 | 5 | 2 | 0 | 17 |
| 1971 | PPT: | 0.0 | 0.0 | 2.4 | 3.0 | 3.2 | 1.6 | 3.6 | 0.0 | 13.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 3.2 | 4.4 | 5.4 | 2.1 | 0.0 | 16.1 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 3 | 4 | 5 | 2 | 0 | 15 |
| 1972 | PPT: | 0.0 | 0.0 | 0.3 | 2.5 | 7.1 | 2.1 | 7.0 | 0.0 | 19.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.2 | 3.1 | 4.5 | 5.5 | 3.1 | 0.0 | 18.4 |
| | NUMBER OF IRR : | 0 | 0 | 2 | 3 | 4 | 5 | 3 | 0 | 17 |
| 1973 | PPT: | 0.0 | 0.0 | 4.1 | 6.0 | 1.2 | 2.1 | 6.9 | 0.0 | 20.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.2 | 5.2 | 5.6 | 2.2 | 0.0 | 15.1 |
| | NUMBER OF IRR : | 0 | 0 | 0 | 2 | 5 | 5 | 2 | 0 | 14 |
| 1974 | PPT: | 0.0 | 0.0 | 3.5 | 7.1 | 1.1 | 6.3 | 7.9 | 0.0 | 25.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 3.5 | 5.5 | 2.1 | 1.2 | 1.0 | 14.5 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 3 | 5 | 2 | 1 | 1 | 13 |
| AVERAGE PPT. : | | 0.0 | 0.0 | 3.2 | 4.9 | 3.5 | 3.8 | 4.1 | 0.1 | 19.6 |
| AVE IRRIG AMT : | | 0.0 | 0.0 | 0.9 | 3.0 | 4.8 | 4.5 | 3.3 | 0.0 | 16.6 |
| AVE NO OF IRR : | | 0.0 | 0.0 | 0.9 | 2.7 | 4.4 | 4.2 | 3.1 | 0.0 | 15.3 |
| TIME 2.1 SECS. | | | | | | | | | | |

1z: Annual Irrigated Water Balance for Green Beans; Sprinkler

IRRIGATION SEASON FROM DAY 110 TO DAY 171

ASSUMES ACTUAL EVAPOTRANSPIRATION IS 80% OF PET

ASSUMES FIELD IS AT FIELD CAPACITY ON STARTING DAY

CROP IS GREEN BEAN

AVAILABLE SOIL MOISTURE IS 2.0INCHES

IRRIGATION INITIATED WHEN 50% OF AVAIL. MOIST. ~~IS DEPLETED~~
REMAINS

| MONTHS: | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | TOT |
|-----------------|-----|-----|------|-----|-----|-----|-----|-----|------|
| ET: | 0.0 | 1.1 | 4.2 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 8.8 |
| 1940 PPT: | 0.0 | 2.6 | 1.5 | 3.9 | 0.0 | 0.0 | 0.0 | 0.0 | 8.0 |
| IRRIGATION AMT: | 0.0 | 0.0 | 2.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 3.2 |
| NUMBER OF IRR : | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 3 |
| 1941 PPT: | 0.0 | 0.5 | 0.7 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 5.5 |
| IRRIGATION AMT: | 0.0 | 0.0 | 3.2 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 5.3 |
| NUMBER OF IRR : | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 5 |
| 1942 PPT: | 0.0 | 4.5 | 6.0 | 6.1 | 0.0 | 0.0 | 0.0 | 0.0 | 16.6 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 |
| NUMBER OF IRR : | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 2 |
| 1943 PPT: | 0.0 | 0.5 | 15.0 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 18.7 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 |
| NUMBER OF IRR : | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 2 |
| 1944 PPT: | 0.0 | 1.8 | 5.5 | 7.2 | 0.0 | 0.0 | 0.0 | 0.0 | 14.5 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 |
| NUMBER OF IRR : | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 2 |
| 1945 PPT: | 0.0 | 1.6 | 4.5 | 5.9 | 0.0 | 0.0 | 0.0 | 0.0 | 12.0 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 |
| NUMBER OF IRR : | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 2 |
| 1946 PPT: | 0.0 | 2.3 | 10.2 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 13.2 |
| IRRIGATION AMT: | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 |
| NUMBER OF IRR : | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| 1947 PPT: | 0.0 | 2.1 | 7.1 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 13.5 |
| IRRIGATION AMT: | 0.0 | 0.0 | 2.2 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 4.4 |
| NUMBER OF IRR : | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 4 |
| 1948 PPT: | 0.0 | 1.1 | 5.1 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 8.6 |
| IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 3.2 |
| NUMBER OF IRR : | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 3 |

lz continued

| | | | | | | | | | | |
|------|-----------------|-----|-----|------|-----|-----|-----|-----|-----|------|
| 1949 | PPT: | 0.0 | 0.9 | 9.2 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 14.3 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 2 |
| 1950 | PPT: | 0.0 | 2.1 | 14.4 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 19.4 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 3.2 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 3 |
| 1951 | PPT: | 0.0 | 1.2 | 2.5 | 7.3 | 0.0 | 0.0 | 0.0 | 0.0 | 11.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 |
| | NUMBER OF IRR : | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1952 | PPT: | 0.0 | 0.5 | 4.7 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 5.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 3.2 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 5.5 |
| | NUMBER OF IRR : | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 5 |
| 1953 | PPT: | 0.0 | 2.6 | 5.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 7.7 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 4.4 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 4 |
| 1954 | PPT: | 0.0 | 2.5 | 3.7 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 8.5 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.2 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 4.4 |
| | NUMBER OF IRR : | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 4 |
| 1955 | PPT: | 0.0 | 0.5 | 6.3 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 11.1 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 2.3 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 2 |
| 1956 | PPT: | 0.0 | 2.4 | 6.7 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 12.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.2 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.3 |
| | NUMBER OF IRR : | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 3 |
| 1957 | PPT: | 0.0 | 4.0 | 11.6 | 5.2 | 0.0 | 0.0 | 0.0 | 0.0 | 20.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1958 | PPT: | 0.0 | 1.8 | 4.0 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 8.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.0 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 4.1 |
| | NUMBER OF IRR : | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 4 |
| 1959 | PPT: | 0.0 | 0.5 | 4.2 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 7.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 |
| | NUMBER OF IRR : | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 4 |
| 1960 | PPT: | 0.0 | 1.7 | 8.1 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 10.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 5.3 |
| | NUMBER OF IRR : | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 5 |
| 1961 | PPT: | 0.0 | 0.0 | 14.2 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 18.0 |
| | IRRIGATION AMT: | 0.0 | 1.1 | 2.2 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 4.4 |
| | NUMBER OF IRR : | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 4 |
| 1962 | PPT: | 0.0 | 2.2 | 5.7 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 10.5 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 3.2 |
| | NUMBER OF IRR : | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 3 |

lz continued

| | | | | | | | | | | |
|-----------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1963 | PPT: | 0.0 | 1.5 | 3.8 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 6.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 5.3 |
| | NUMBER OF IRR : | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 5 |
| 1964 | PPT: | 0.0 | 1.3 | 3.5 | 5.2 | 0.0 | 0.0 | 0.0 | 0.0 | 10.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.2 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.3 |
| | NUMBER OF IRR : | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 3 |
| 1965 | PPT: | 0.0 | 1.4 | 3.8 | 5.1 | 0.0 | 0.0 | 0.0 | 0.0 | 10.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 |
| | NUMBER OF IRR : | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 3 |
| 1966 | PPT: | 0.0 | 4.8 | 2.8 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 10.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 5.4 |
| | NUMBER OF IRR : | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 5 |
| 1967 | PPT: | 0.0 | 1.9 | 4.3 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 8.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 4.4 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 4 |
| 1968 | PPT: | 0.0 | 0.6 | 5.7 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 7.9 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.1 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 4.4 |
| | NUMBER OF IRR : | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 4 |
| 1969 | PPT: | 0.0 | 2.3 | 7.1 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 12.5 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 2.3 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 2 |
| 1970 | PPT: | 0.0 | 5.5 | 0.9 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 9.0 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 3.2 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 5.4 |
| | NUMBER OF IRR : | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 5 |
| 1971 | PPT: | 0.0 | 2.9 | 4.1 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 7.6 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.2 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 |
| | NUMBER OF IRR : | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 4 |
| 1972 | PPT: | 0.0 | 2.7 | 2.2 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 5.7 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 3.2 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 5.4 |
| | NUMBER OF IRR : | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 5 |
| 1973 | PPT: | 0.0 | 4.7 | 7.2 | 5.2 | 0.0 | 0.0 | 0.0 | 0.0 | 17.2 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 |
| | NUMBER OF IRR : | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 2 |
| 1974 | PPT: | 0.0 | 5.2 | 5.4 | 7.1 | 0.0 | 0.0 | 0.0 | 0.0 | 17.8 |
| | IRRIGATION AMT: | 0.0 | 0.0 | 2.2 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 3.3 |
| | NUMBER OF IRR : | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 3 |
| AVERAGE PPT. : | | 0.0 | 2.1 | 5.9 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 11.4 |
| AVE IRRIG AMT : | | 0.0 | 0.0 | 1.8 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 3.6 |
| AVE NO OF IRR : | | 0.0 | 0.0 | 1.7 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 3.3 |
| TIME 1.6 SECS. | | | | | | | | | | |