

FLORIDA AGRICULTURAL STATISTICS

Citrus Maturity and Yield Tests 1965-66 through 1973-74

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Agricultural Marketing Service
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To the many growers, who allowed picking of fruit samples from their groves, the Orange County Commissioner, who maintain our test facilities, and citrus organizations who have voluntarily cooperated in this program. We offer our sincere thanks.

The public spirited cooperation of these individuals and groups is appreciated.

Copies available from
Florida Crop and Livestock Reporting Service
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FLORIDA CROP AND LIVESTOCK REPORTING SERVICE
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CITRUS MATURITY TESTING PROGRAM

Introduction

Since the processing industry began to utilize the bulk of the orange crop in Florida, the concept of production estimates and forecasts only in terms of boxes of a given weight has become obsolete. To be more meaningful, forecasts and estimates of production need to be expressed in terms of total pounds of solids as well as in terms of boxes. This interest has been expressed to the Florida Crop and Livestock Reporting Service by both processors and growers.

HISTORY

In the late 1950's the Service began to collect fruit samples of oranges monthly to determine if maturity and yield factors could be determined in advance of harvest. For several years fieldmen picked a single fruit from each grove that they entered to make monthly counts and size measurements in their regular drop and growth surveys. These fruit were combined into a single sample for each type of orange -- Early, Mid-season and Late -- and juice was extracted with the aid of an electrically operated reamer. The necessary weights and test results were accumulated. Within a few seasons it was determined that declines in acid, increases in soluble solids and ratio, increases and later decreases in juice, and increases in pounds-solids followed predictable patterns. It appeared from these data that changes in these elements could be predicted over time if sufficient observations had been made to provide a valid statistical base. None of the results of these tests were published. The yield of pounds-solids shown in these tests appeared to be correlated with changes in yield levels of fruit received at the processing plants.

In early 1963, following the disastrous freeze of December 1962, the industry was very concerned over the level of pounds-solids yield that would be obtained from Valencia oranges which had been damaged severely. In response to requests from the Citrus Crop Estimates Advisory Committee and others in the citrus industry, the Florida Crop and Livestock Reporting Service conducted a series of tests using fruit from randomly selected sample groves. Three successive tests were made at 2-week intervals. These indicated rather accurately the abnormally low level of yields of juice and pounds of solids in Valencias that spring.

This pilot project provided experience in a regular survey procedure which would yield statistically reliable results. Sufficient funds and manpower were available to finance the work and a regular program of surveys on a monthly basis was begun October 1, 1963. The sample size selected in these first surveys provided for 50 groves each for Early, Midseason and Late oranges. Reports were issued individually on Early and Midseason oranges on the first of each month from October through January in the 1963-64 season, and from October 1 through February 1 in the 1964-65 and 1965-66 seasons. Valencia orange test results were reported on October 1 through

April 1 in the 1963-64 season, and through May 1 in the 1964-65 season. In the 1965-66 season, Valencias were tested at the first of each month from October through February and, beginning in February, a mid-month report was added, continuing through April of that season.

In the 1966-67 season, testing began September 1 and mid-month tests were added to the previous monthly programs.

In 1967 following a statistical evaluation of the preceding four years' results, the Service responded to industry requests for area data from the maturity and yield tests, and expanded sample sizes. In that year, the number of Early orange groves was increased to 73, Midseasons to 55, and Valencias to 100. September 1 was continued as the first test date and the schedule of mid-month tests was retained.

In the 1964-65 season, seedless grapefruit tests were added to the program with a separate series for white and pink varieties. A series for seedy grapefruit was added in the 1965-66 season. The data for grapefruit are now published in this report.

SAMPLING

Each month samples of 15 oranges and 5 grapefruit from each sample grove are picked up by men from the Florida Crop and Livestock Reporting Service. Starting in September there are 73 Early orange samples, 55 Midseason orange samples, 100 Valencia orange samples, 25 seedy grapefruit samples, 60 White seedless samples, and 50 Pink or Red seedless samples picked from pre-selected groves and predetermined sample trees.

Each sample is picked from a randomly selected cluster of five trees. Sample fruit are selected at shoulder height from the pivot tree's side nearest the road of travel and from the side of the other four sample trees nearest the pivot tree. Three oranges or one grapefruit are picked at shoulder height from each of the five sample trees. This procedure insures that fruit from all exposures are included in the samples.

LOCATION OF SAMPLE TREES FOR MATURITY AND YIELD TESTS

| Access Road | | | | | | |
|-------------|---|-----|-----|-----|---|---|
| X | X | X | X | X | X | X |
| X | X | X | (X) | X | X | X |
| X | X | (X) | (X) | (X) | X | X |
| X | X | X | (X) | X | X | X |

X - Tree

(X) - Sample Tree

Sample groves and trees remain constant from year to year to measure changes more accurately. The increase in bearing trees indicates a need to increase sample size to more accurately reflect younger groves in the current sample which is dominated by mature trees.

TESTING

Early and midseason oranges are now tested on the first of each month beginning September 1 and continuing through February 1. They are also tested December 15. Late oranges are tested on the first of each month beginning October 1 and terminating June 1. They are also tested April 15. Grapefruit tests are run the 1st of each month from September through December.

All Maturity tests are run at testing facilities located at the Orange County Agricultural Center at 2350 E. Michigan Avenue in Orlando. The testing laboratory was built with funds and labor donated by Florida Citrus Mutual, The Florida Cannery Association, The Florida Fresh Fruit Shippers Association, and the Orange County Commissioners.

All samples are run through an FMC 091 test extractor using mechanical pressure only. This machine utilizes a .040 short strainer and standard 5/8 inch orifice tube. The beam setting is 1/4 inch and no restrictors are used. Only the 3 inch cup is used for oranges, and only the 5 inch cup is used for grapefruit. This equipment and settings correspond to those used on official State tests when this program began. State tests are now run on the FMC 091B utilizing air pressure.

COMPARISONS WITH STATE TESTS

Some are confused when they compare the attached Maturity Test Results with the published State test results. There are several reasons why the juice and pounds of solids yield from these two entirely different series are not comparable.

The basic reason why these tests can never be directly compared is that they involve different fruit populations. The Maturity Test Results are from samples of fruit remaining on the tree at the time each test is made. The State tests reflect fruit actually being delivered to processing plants at a given point in time. Therefore, the two tests do not relate to fruit having the same characteristics.

However, the major area of difference is in the extraction method and the quantity of juice that is being measured. The Maturity Test Results reflect the total quantity of unfinished juice extracted using the FMC 091 equipped as indicated above. This quantity substantially exceeds the juice processing plants are allowed to use under State regulations.

The State tests for fruit samples are taken from loads arriving at processing plants. Juice is extracted by State inspectors on the FMC 091B. The air pressure setting currently in use is 45 pounds PSI. At this level, the quantity of juice extracted from a given lot of oranges exceeds that which can be extracted using the FMC 091 equipped as indicated above.

To establish the quantity of finished juice upon which payment for the fruit is based, the total juice weight determined by State inspectors is reduced using factors established by an industry committee under regulations set by the Florida Department of Citrus. These factors are not constant. They vary between seasons and between different types of fruit within a season.

The factored quantity of juice entered on inspection certificates will always be less than the amount of unfinished juice that was extracted by the State inspector and will also be less than the amount of unfinished juice reported in Maturity Test Results.

In addition to establishing juice factors, Florida Department of Citrus regulations also place restrictions on the quantity of juice which processing plants are allowed to recover. Control is based on the quantity of the factored or finished juice. Currently, the season average recovery rate is limited to 102 percent of the quantity of finished juice received at each plant.

FORECASTS OF YIELD OF F. C. O. J.

The forecasts of yield are based upon linear regressions. The yield of F. C. O. J. as reported by the Cannery Association is used as the dependent variable and the pounds-solids determined from the maturity and yield surveys as the independent variable. Actual yield data is incorporated into the forecast starting in February. The results are adjusted by prevailing juice factors and recovery limits.

The regressions currently utilize the data from 1965-66 through this past season excluding the 1970-71 season. Data from previous seasons cannot be used due to processing changes made by the industry when "hard squeeze" and "pulp washing" were discontinued for F. C. O. J. manufacture. At the same time, the standard was changed from 42° Brix to 45° Brix.

THE 1968-69 SEASON

The first indication of F. C. O. J. yield in 1968-69 was published with the December 10, 1968, citrus forecasts. "It appears possible that gallons of concentrate per box this season can be less than the 1.2358 gallons realized in the 1965-66 season." On January 10, 1969, it was reported that statistical analysis suggested 1.13 gallons per box. Fruit being delivered then was yielding, on the average, about a gallon and the 1.13 gallons was criticized as unrealistic. The February analysis indicated 1.08 gallons which was hailed as more realistic, but still high. Actually, this reduction was due primarily to a temporary change in relationship of February 1 yield tests for the years in question. In March, the yield prediction was raised to 1.12 gallons F. C. O. J. per box, which was held until June. The June 10 analysis indicated 1.13 gallons, and Florida Cannery Association reports show the season average was 1.12618 gallons per box.

THE 1969-70 SEASON

On October 10, 1969, a yield of 1.33 gallons of 45° Brix F. C. O. J. per box was indicated for all oranges used to make concentrate. This was calculated by a formula derived from the average pounds of solids in sample groves on October 1 and the yield of 45° Brix F. C. O. J. reported by the Florida Cannery Association in

the preceding four seasons. The forecast yield of 1.33 F.C.O.J. was maintained until February 1970 when the regression analysis of the February 1 maturity tests indicated a reduction from 1.33 to 1.28 gallons of 45° Brix F.C.O.J. per box. On March 1, the indicated yield for Valencias, combined with the realized yield to date for Early and Midseason oranges, resulted in a computed season average of approximately 1.25 gallons of F.C.O.J. On April 1 and May 1 the regression analysis of maturity tests and yields by the Florida Cannery Association in the past four seasons indicated a final yield of 1.27. However, on June 1 the combined tests showed a reduction to 1.24, which was caused by no gain in soluble solids and a substantial loss of juice content during the last half of May. The yield of 1.27 gallons indicated in April and May is within the range of confidence limits of the analysis upon which that yield was based. The final yield of 1.24 was only about 2.5 percent below the 1.27 projection of April 1.

THE 1970-71 SEASON

On October 13, 1970 the F.C.O.J. regression indicated a season average yield of 1.39 gallons of 45 degree Brix Concentrate per box for all oranges. There was no report on F.C.O.J. for November in accordance with industry requests. In the first of December report, the F.C.O.J. yield was changed to 1.32 gallons per box reflecting juice factors established October 13. The 1.32 yield was held in the January report. No report was issued in February because it was impossible to measure the impact of the January 21 freeze on juice and pounds-solids content of fruit remaining on trees. On March 10, 1971 the F.C.O.J. regression analysis reflected a lowering to 1.21 gallons per box showing the impact from the January 21 freeze. The expected yield was combination of actual yield of 1.16432 gallons per box through February 27 and a projected yield of 1.26 gallons for Valencias. The April 1 F.C.O.J. regression indicated 1.20 gallons per box. Yield prospects had not increased by May 1 and there was no change in the projection. However, on May 29th the juice factor was raised from 90 to 91 per cent which slightly improved the June 1 F.C.O.J. projected yield of 1.21 gallons. The final Florida Cannery Association's recorded yield was 1.2093 for all oranges.

THE 1971-72 SEASON

The October 1, 1971 maturity and yield test results suggested a yield of 1.28 gallons 45° Brix FCOJ per box. By industry request no November FCOJ forecast was made. Relatively low soluble solids for all three orange types depressed the projected average yield to 1.23 gallons per box on December 1. A similar situation prevailed on January 1 when the FCOJ yield projection was calculated at 1.25 gallons per box. However, by February 1 the sustained beneficial effects of above normal temperatures and a generous moisture supply were reflected in a gain in soluble solids, and continuation of high juice yields. The February FCOJ projection was 1.29 gallons per box. Further improvement in internal quality indicated by tests of fruit from sample groves increased the projections in March, April, and May to 1.31 gallons. The projection in June was reduced to 1.29 gallons and the report of the Florida Cannery Association issued August 5, 1972 showed a FCOJ yield of 1.28572 gallons. Prior to June all projections were based on the assumption that processors would achieve the legal season average recovery rate of 1.02. Actual recovery was less. All yield projections, except December, were within the confidence limits of the data on which they were based.

THE 1972-73 SEASON

The initial FCOJ forecast on October 13, 1972 suggested an all orange seasonal average yield of 1.29 gallons of 45° Brix concentrate per box. In accordance with industry requests, no FCOJ figures were published in November. On December 12 the FCOJ yield projection was lowered to 1.26 gallons per box, the reduction was caused primarily by lower than average juice development. However, the ideal growing conditions during December resulted in a sharp rise in both juice content and total soluble solids and the January indication was raised to 1.33 gallons per box for all oranges. In February the yield projection was lowered to 1.32 due to slightly lower indications for Valencia juice content. This 1.32 yield estimate was maintained through the May forecast. By June 1 the Brix and juice per box had developed sufficiently to return the projected level to 1.33 gallons per box. Final yield for all oranges was 1.33176 gallons per box as recorded by the Florida Cannery Association. The final yield of early and midseason oranges was 1.28800 and the Valencia yield was 1.38279 gallons per box of 45° Brix concentrate.

THE 1973-74 SEASON

The FCOJ yield projection in October based on regression analysis of maturity and yield test results was 1.28 gallons per box for all oranges. The projected yield was increased to 1.32 gallons per box in December. This increase followed excellent growing weather during the fall with maturity results showing a substantial increase in the pounds of unfinished juice per box. However, it was necessary to reduce the January yield to 1.30 gallons per box. January 1 test results showed some depression in yield which was apparently caused by the advent of colder weather which brought 4 nights of below-freezing temperatures in December with scattered light fruit damage occurring on the morning of December 12. Yield was continued unchanged through March, increased slightly to 1.31 gallons in April, but again dropped to 1.30 gallons for the final May and June projections. Final yield for all oranges was 1.29725 gallons per box of 45° Brix concentrate, as recorded by the Florida Cannery Association. The final yield for Early and Midseason oranges was 1.26386 gallons per box and the Valencia yield was 1.34205 gallons per box. The yield for late season Valencias dropped sharply, particularly following very heavy rainfall in late June when fruit remaining for harvest softened rapidly.

This public document was promulgated at a cost of \$1.15 per copy to the State of Florida. It is published to inform citrus growers and others of trends in Florida citrus production.

EARLY ORANGES

MATURITY AND YIELD TEST RESULTS
 Unadjusted Averages for Regular Bloom Fruit
 from Sample Groves
 1965-66 through 1973-74

| Crop Year | Sample Groves | Acid | Soluble Solids | Ratio | Juice per Box | Solids per Box |
|-------------|---------------|---------|----------------|--------|---------------|----------------|
| | Number | Percent | Percent | Number | Pounds | Pounds |
| SEPTEMBER 1 | | | | | | |
| 1965-66 | -- | -- | -- | -- | -- | -- |
| 1966-67 | 49 | 1.98 | 9.06 | 4.69 | 41.61 | 3.76 |
| 1967-68 | 73 | 1.77 | 8.77 | 5.06 | 44.82 | 3.93 |
| 1968-69 | 73 | 2.09 | 8.91 | 4.34 | 38.76 | 3.45 |
| 1969-70 | 73 | 1.87 | 9.00 | 4.89 | 41.72 | 3.74 |
| 1970-71 | 73 | 2.14 | 9.07 | 4.36 | 45.54 | 4.13 |
| 1971-72 | 73 | 1.92 | 8.74 | 4.62 | 45.37 | 3.97 |
| 1972-73 | 73 | 2.10 | 9.20 | 4.42 | 40.35 | 3.70 |
| 1973-74 | 73 | 2.00 | 8.99 | 4.55 | 43.02 | 3.84 |
| OCTOBER 1 | | | | | | |
| 1965-66 | 49 | 1.33 | 9.37 | 7.21 | 44.11 | 4.12 |
| 1966-67 | 49 | 1.33 | 9.32 | 7.10 | 48.33 | 4.49 |
| 1967-78 | 72 | 1.27 | 9.15 | 7.39 | 49.10 | 4.48 |
| 1968-69 | 73 | 1.37 | 8.97 | 6.73 | 44.38 | 3.98 |
| 1969-70 | 73 | 1.31 | 9.13 | 7.13 | 47.30 | 4.31 |
| 1970-71 | 73 | 1.29 | 9.41 | 7.42 | 49.18 | 4.63 |
| 1971-72 | 73 | 1.32 | 9.07 | 7.01 | 50.08 | 4.55 |
| 1972-73 | 73 | 1.50 | 9.52 | 6.49 | 46.10 | 4.38 |
| 1973-74 | 73 | 1.36 | 9.10 | 6.85 | 48.00 | 4.37 |
| NOVEMBER 1 | | | | | | |
| 1965-66 | 44 | 1.02 | 10.06 | 10.09 | 48.38 | 4.85 |
| 1966-67 | 46 | 1.07 | 10.01 | 9.59 | 1/ | 1/ |
| 1967-68 | 69 | 1.02 | 9.79 | 9.85 | 51.19 | 5.00 |
| 1968-69 | 73 | 1.02 | 9.57 | 9.60 | 47.77 | 4.58 |
| 1969-70 | 68 | 0.97 | 10.00 | 10.44 | 50.89 | 5.08 |
| 1970-71 | 72 | 1.00 | 10.43 | 10.56 | 52.76 | 5.49 |
| 1971-72 | 73 | 1.04 | 9.66 | 9.48 | 52.04 | 5.02 |
| 1972-73 | 73 | 1.14 | 10.58 | 9.47 | 50.00 | 5.29 |
| 1973-74 | 71 | 1.04 | 9.97 | 9.80 | 52.25 | 5.21 |

1/Not available. Extractor malfunctioned.

EARLY ORANGES

MATURITY AND YIELD TEST RESULTS
 Unadjusted Averages for Regular Bloom Fruit
 from Sample Groves
 1965-66 through 1973-74

| Crop Year | Sample Groves | Acid | Soluble Solids | Ratio | Juice per Box | Solids per Box |
|-------------|---------------|---------|----------------|--------|---------------|----------------|
| | Number | Percent | Percent | Number | Pounds | Pounds |
| DECEMBER 1 | | | | | | |
| 1965-66 | 37 | 0.88 | 10.79 | 12.57 | 49.90 | 5.29 |
| 1966-67 | 44 | 0.99 | 10.73 | 10.97 | 52.59 | 5.64 |
| 1967-68 | 63 | 0.91 | 10.94 | 12.21 | 52.45 | 7.74 |
| 1968-69 | 68 | 0.90 | 10.37 | 11.74 | 48.07 | 4.99 |
| 1969-70 | 58 | 0.91 | 10.77 | 12.06 | 51.31 | 5.53 |
| 1970-71 | 63 | 0.97 | 11.31 | 11.89 | 51.41 | 5.82 |
| 1971-72 | 68 | 0.91 | 10.68 | 11.86 | 52.27 | 5.59 |
| 1972-73 | 71 | 1.01 | 11.26 | 11.36 | 50.22 | 5.65 |
| 1973-74 | 69 | 0.93 | 11.14 | 12.24 | 52.42 | 5.83 |
| DECEMBER 15 | | | | | | |
| 1965-66 | -- | -- | -- | -- | -- | -- |
| 1966-67 | 36 | 0.98 | 10.88 | 11.37 | 50.36 | 5.47 |
| 1967-68 | 59 | 0.93 | 11.15 | 12.27 | 50.59 | 5.63 |
| 1968-69 | 57 | 0.92 | 10.78 | 11.91 | 46.83 | 5.04 |
| 1969-70 | 50 | 0.89 | 11.12 | 12.71 | 51.70 | 5.75 |
| 1970-71 | 57 | 0.96 | 11.50 | 12.19 | 50.84 | 5.85 |
| 1971-72 | 62 | 0.84 | 10.84 | 13.14 | 52.22 | 5.67 |
| 1972-73 | 64 | 0.98 | 11.66 | 12.22 | 50.34 | 5.86 |
| 1973-74 | 55 | 0.94 | 11.44 | 12.53 | 51.93 | 5.94 |
| JANUARY 1 | | | | | | |
| 1965-66 | 28 | 0.85 | 11.29 | 13.66 | 47.86 | 5.39 |
| 1966-67 | 34 | 0.93 | 11.47 | 12.52 | 50.59 | 5.81 |
| 1967-68 | 46 | 0.88 | 11.61 | 13.45 | 48.71 | 5.66 |
| 1968-69 | 48 | 0.83 | 10.85 | 13.28 | 44.38 | 4.82 |
| 1969-70 | 44 | 0.88 | 11.75 | 13.62 | 50.33 | 5.91 |
| 1970-71 | 49 | 0.92 | 11.95 | 13.24 | 50.24 | 6.00 |
| 1971-72 | 56 | 0.80 | 11.07 | 14.01 | 51.70 | 5.73 |
| 1972-73 | 55 | 0.91 | 11.95 | 13.36 | 50.95 | 6.09 |
| 1973-74 | 48 | 0.94 | 11.68 | 12.80 | 51.73 | 6.04 |

EARLY ORANGES

MATURITY AND YIELD TEST RESULTS
 Unadjusted Averages for Regular Bloom Fruit
 from Sample Groves
 1965-66 through 1973-74

| Crop Year | Sample Groves | Acid | Soluble Solids | Ratio | Juice per Box | Solids per Box |
|------------|---------------|------|----------------|-------|---------------|----------------|
| FEBRUARY 1 | | | | | | |
| 1965-66 | 14 | 0.86 | 12.38 | 14.62 | 46.14 | 5.70 |
| 1966-67 | 20 | 0.91 | 12.28 | 13.86 | 49.84 | 6.12 |
| 1967-68 | 20 | 0.88 | 12.53 | 14.42 | 49.43 | 6.19 |
| 1968-69 | 21 | 0.80 | 12.08 | 15.49 | 41.55 | 5.07 |
| 1969-70 | 23 | 0.79 | 12.53 | 16.23 | 46.76 | 5.87 |
| 1970-71 | 17 | 0.82 | 13.29 | 16.51 | 45.74 | 6.09 |
| 1971-72 | 27 | 0.75 | 12.16 | 16.57 | 50.62 | 6.18 |
| 1972-73 | 35 | 0.88 | 12.63 | 14.61 | 49.81 | 6.29 |
| 1973-74 | 27 | 0.85 | 12.79 | 15.38 | 51.05 | 6.53 |

MIDSEASON ORANGES

MATURITY AND YIELD TEST RESULTS
 Unadjusted Averages for Regular Bloom Fruit
 from Sample Groves
 1965-66 through 1973-74

| Crop Year | Sample Groves | Acid | Soluble Solids | Ratio | Juice per Box | Solids per Box |
|-------------|---------------|----------------|----------------|---------------|---------------|----------------|
| | <u>Number</u> | <u>Percent</u> | Percent | <u>Number</u> | <u>Pounds</u> | <u>Pounds</u> |
| SEPTEMBER 1 | | | | | | |
| 1965-66 | -- | -- | -- | -- | -- | -- |
| 1966-67 | 51 | 2.27 | 8.99 | 4.04 | 42.53 | 3.82 |
| 1967-68 | 56 | 2.06 | 8.70 | 4.37 | 44.98 | 3.92 |
| 1968-69 | 55 | 2.35 | 8.91 | 3.84 | 39.50 | 3.52 |
| 1969-70 | 55 | 2.08 | 9.04 | 4.44 | 43.17 | 3.90 |
| 1970-71 | 55 | 2.17 | 9.12 | 4.26 | 46.01 | 4.19 |
| 1971-72 | 55 | 2.21 | 8.79 | 4.04 | 45.33 | 3.99 |
| 1972-73 | 55 | 2.36 | 9.13 | 3.92 | 41.16 | 3.75 |
| 1973-74 | 55 | 2.30 | 8.85 | 3.91 | 43.64 | 3.85 |
| OCTOBER 1 | | | | | | |
| 1965-66 | 51 | 1.57 | 9.25 | 6.06 | 45.11 | 4.17 |
| 1966-67 | 51 | 1.58 | 9.38 | 6.08 | 48.70 | 4.63 |
| 1967-68 | 56 | 1.53 | 8.92 | 6.11 | 50.69 | 4.52 |
| 1968-69 | 55 | 1.65 | 8.91 | 5.56 | 44.48 | 3.97 |
| 1969-70 | 55 | 1.52 | 9.18 | 6.18 | 49.18 | 4.52 |
| 1970-71 | 55 | 1.58 | 9.39 | 6.16 | 49.99 | 4.70 |
| 1971-72 | 55 | 1.58 | 9.10 | 5.91 | 49.95 | 4.55 |
| 1972-73 | 55 | 1.79 | 9.50 | 5.47 | 47.90 | 4.55 |
| 1973-74 | 55 | 1.66 | 8.89 | 5.47 | 49.31 | 4.38 |
| NOVEMBER 1 | | | | | | |
| 1965-66 | 49 | 1.18 | 10.12 | 8.82 | 49.90 | 5.05 |
| 1966-67 | 51 | 1.29 | 9.96 | 7.87 | <u>1/</u> | <u>1/</u> |
| 1967-68 | 55 | 1.22 | 9.98 | 8.55 | 53.01 | 5.30 |
| 1968-69 | 55 | 1.27 | 9.77 | 7.95 | 48.52 | 4.74 |
| 1969-70 | 55 | 1.13 | 10.25 | 9.35 | 53.18 | 5.45 |
| 1970-71 | 54 | 1.25 | 10.57 | 8.29 | 53.83 | 5.69 |
| 1971-72 | 55 | 1.24 | 9.71 | 8.13 | 52.86 | 5.14 |
| 1972-73 | 55 | 1.37 | 10.65 | 8.13 | 51.38 | 5.47 |
| 1973-74 | 55 | 1.22 | 9.87 | 8.29 | 53.43 | 5.27 |

1/ Not available. Extractor malfunctioned.

MIDSEASON ORANGES

MATURITY AND YIELD TEST RESULTS
 Unadjusted Averages for Regular Bloom Fruit
 from Sample Groves
 1965-66 through 1973-74

| Crop Year | Sample Groves | Acid | Soluble Solids | Ratio | Juice per Box | Solids per Box |
|-------------|---------------|----------------|----------------|---------------|---------------|----------------|
| | <u>Number</u> | <u>Percent</u> | <u>Percent</u> | <u>Number</u> | <u>Pounds</u> | <u>Pounds</u> |
| DECEMBER 1 | | | | | | |
| 1965-66 | 48 | 1.05 | 11.05 | 10.80 | 51.15 | 5.65 |
| 1966-67 | 51 | 1.20 | 10.88 | 9.30 | 53.90 | 5.87 |
| 1967-68 | 51 | 1.10 | 11.13 | 10.45 | 54.25 | 6.04 |
| 1968-69 | 54 | 1.11 | 10.85 | 10.12 | 49.44 | 5.36 |
| 1969-70 | 51 | 1.06 | 11.43 | 11.05 | 52.76 | 6.04 |
| 1970-71 | 52 | 1.14 | 11.44 | 10.42 | 53.27 | 6.06 |
| 1971-72 | 54 | 1.07 | 10.70 | 10.32 | 53.84 | 5.77 |
| 1972-73 | 54 | 1.23 | 11.35 | 9.46 | 51.65 | 5.86 |
| 1973-74 | 55 | 1.11 | 11.02 | 10.22 | 54.93 | 6.05 |
| DECEMBER 15 | | | | | | |
| 1965-66 | -- | -- | -- | -- | -- | -- |
| 1966-67 | 48 | 1.17 | 11.21 | 9.78 | 52.05 | 5.84 |
| 1967-68 | 49 | 1.08 | 11.31 | 10.84 | 53.16 | 6.01 |
| 1968-69 | 52 | 1.11 | 11.15 | 10.34 | 48.32 | 5.39 |
| 1969-70 | 52 | 1.01 | 11.42 | 11.62 | 53.05 | 6.06 |
| 1970-71 | 49 | 1.18 | 11.92 | 10.38 | 52.07 | 6.21 |
| 1971-72 | 52 | 1.01 | 11.10 | 11.38 | 54.21 | 6.02 |
| 1972-73 | 53 | 1.11 | 11.70 | 10.88 | 52.04 | 6.09 |
| 1973-74 | 54 | 1.05 | 11.45 | 11.18 | 54.09 | 6.19 |
| JANUARY 1 | | | | | | |
| 1965-66 | 45 | 0.99 | 11.62 | 12.01 | 50.01 | 5.81 |
| 1966-67 | 46 | 1.12 | 11.74 | 10.68 | 52.01 | 6.10 |
| 1967-68 | 45 | 1.02 | 11.77 | 11.90 | 53.28 | 6.28 |
| 1968-69 | 47 | 1.05 | 11.62 | 11.29 | 45.41 | 5.29 |
| 1969-70 | 45 | 0.98 | 11.91 | 12.55 | 52.21 | 6.21 |
| 1970-71 | 48 | 1.09 | 12.24 | 11.53 | 51.49 | 6.31 |
| 1971-72 | 49 | 0.96 | 11.55 | 12.55 | 53.63 | 6.21 |
| 1972-73 | 47 | 1.15 | 12.29 | 10.89 | 52.33 | 6.43 |
| 1973-74 | 48 | 1.07 | 11.83 | 11.23 | 54.05 | 6.39 |

MIDSEASON ORANGES

MATURITY AND YIELD TEST RESULTS
 Unadjusted Averages for Regular Bloom Fruit
 from Sample Groves
 1965-66 through 1973-74

| Crop Year | Sample Groves | Acid | Soluble Solids | Ratio | Juice per Box | Solids per Box |
|------------|---------------|----------------|----------------|---------------|---------------|----------------|
| | <u>Number</u> | <u>Percent</u> | <u>Percent</u> | <u>Number</u> | <u>Pounds</u> | <u>Pounds</u> |
| FEBRUARY 1 | | | | | | |
| 1965-66 | 18 | 0.97 | 12.45 | 13.15 | 47.75 | 5.94 |
| 1966-67 | 33 | 1.02 | 12.53 | 12.44 | 51.41 | 6.44 |
| 1967-68 | 20 | 1.01 | 12.67 | 13.21 | 51.41 | 6.48 |
| 1968-69 | 23 | 1.04 | 13.07 | 13.07 | 45.71 | 5.99 |
| 1969-70 | 30 | 0.94 | 12.68 | 14.12 | 50.38 | 6.39 |
| 1970-71 | 24 | 1.01 | 13.30 | 13.53 | 47.97 | 6.38 |
| 1971-72 | 31 | 0.95 | 12.42 | 13.54 | 52.20 | 6.49 |
| 1972-73 | 36 | 1.07 | 13.08 | 12.57 | 51.49 | 6.74 |
| 1973-74 | 38 | 0.95 | 12.73 | 13.68 | 53.64 | 6.83 |

LATE ORANGES

MATURITY AND YIELD TEST RESULTS
 Unadjusted Averages for Regular Bloom Fruit
 from Sample Groves
 1965-66 through 1973-74

| Crop Year | Sample Groves | Acid | Soluble Solids | Ratio | Juice per Box | Solids per Box |
|------------|---------------|----------------|----------------|---------------|---------------|----------------|
| | <u>Number</u> | <u>Percent</u> | <u>Percent</u> | <u>Number</u> | <u>Pounds</u> | <u>Pounds</u> |
| OCTOBER 1 | | | | | | |
| 1965-66 | 50 | 2.67 | 8.52 | 3.22 | 41.43 | 3.53 |
| 1966-67 | 50 | 2.64 | 8.52 | 3.28 | 45.57 | 3.88 |
| 1967-68 | 100 | 2.73 | 8.50 | 3.18 | 45.68 | 3.88 |
| 1968-69 | 100 | 2.79 | 8.57 | 3.11 | 40.81 | 3.50 |
| 1969-70 | 100 | 2.69 | 8.42 | 3.15 | 45.23 | 3.81 |
| 1970-71 | 100 | 2.60 | 8.54 | 3.33 | 46.26 | 3.95 |
| 1971-72 | 100 | 2.74 | 8.39 | 3.09 | 46.58 | 3.91 |
| 1972-73 | 100 | 2.99 | 8.89 | 3.00 | 44.25 | 3.93 |
| 1973-74 | 100 | 2.79 | 8.35 | 2.99 | 46.20 | 3.86 |
| NOVEMBER 1 | | | | | | |
| 1965-66 | 50 | 2.02 | 8.95 | 4.48 | 47.53 | 4.25 |
| 1966-67 | 50 | 2.16 | 8.90 | 4.19 | <u>1/</u> | <u>1/</u> |
| 1967-68 | 100 | 2.26 | 9.22 | 4.17 | 50.06 | 4.62 |
| 1968-69 | 100 | 2.21 | 8.91 | 4.10 | 45.71 | 4.08 |
| 1969-70 | 100 | 2.05 | 8.61 | 4.23 | 49.75 | 4.28 |
| 1970-71 | 100 | 2.11 | 9.26 | 4.44 | 50.19 | 4.64 |
| 1971-72 | 100 | 2.23 | 8.57 | 3.92 | 49.98 | 4.32 |
| 1972-73 | 100 | 2.42 | 9.58 | 4.00 | 49.18 | 4.70 |
| 1973-74 | 100 | 2.29 | 8.96 | 3.95 | 51.39 | 4.60 |
| DECEMBER 1 | | | | | | |
| 1965-66 | 50 | 1.75 | 9.66 | 5.59 | 49.07 | 4.81 |
| 1966-67 | 50 | 1.89 | 9.70 | 5.20 | 53.42 | 5.19 |
| 1967-68 | 100 | 1.89 | 10.31 | 5.58 | 53.24 | 5.49 |
| 1968-69 | 100 | 1.79 | 9.49 | 5.38 | 48.55 | 4.61 |
| 1969-70 | 100 | 1.82 | 9.34 | 5.18 | 52.02 | 4.86 |
| 1970-71 | 100 | 1.86 | 10.04 | 5.45 | 51.98 | 5.22 |
| 1971-72 | 100 | 1.82 | 9.45 | 5.24 | 52.38 | 4.95 |
| 1972-73 | 100 | 2.02 | 9.91 | 5.01 | 50.73 | 5.03 |
| 1973-74 | 100 | 1.89 | 9.86 | 5.28 | 54.47 | 5.37 |

1/ Not available. Extractor malfunctioned.

LATE ORANGES

MATURITY AND YIELD TEST RESULTS
 Unadjusted Averages for Regular Bloom Fruit
 from Sample Groves
 1965-66 through 1973-74

| Crop Year | Sample Groves | Acid | Soluble Solids | Ratio | Juice per Box | Solids per Box |
|------------|---------------|----------------|----------------|---------------|---------------|----------------|
| | <u>Number</u> | <u>Percent</u> | <u>Percent</u> | <u>Number</u> | <u>Pounds</u> | <u>Pounds</u> |
| JANUARY 1 | | | | | | |
| 1965-66 | 50 | 1.53 | 10.24 | 6.78 | 51.33 | 5.26 |
| 1966-67 | 50 | 1.72 | 10.42 | 6.11 | 53.08 | 5.54 |
| 1967-68 | 100 | 1.62 | 10.79 | 6.81 | 54.13 | 5.84 |
| 1968-69 | 100 | 1.57 | 10.25 | 6.66 | 47.36 | 4.88 |
| 1969-70 | 100 | 1.63 | 10.33 | 6.42 | 52.91 | 5.47 |
| 1970-71 | 100 | 1.66 | 10.84 | 6.53 | 52.06 | 5.66 |
| 1971-72 | 99 | 1.51 | 10.26 | 6.88 | 54.04 | 5.54 |
| 1972-73 | 100 | 1.71 | 10.93 | 6.48 | 53.02 | 5.80 |
| 1973-74 | 100 | 1.73 | 10.52 | 6.15 | 54.05 | 5.69 |
| FEBRUARY 1 | | | | | | |
| 1965-66 | 50 | 1.36 | 10.99 | 8.15 | 51.24 | 5.63 |
| 1966-67 | 50 | 1.46 | 11.47 | 7.95 | 53.05 | 6.09 |
| 1967-68 | 99 | 1.44 | 11.45 | 8.09 | 54.66 | 6.27 |
| 1968-69 | 100 | 1.35 | 10.77 | 8.05 | 46.90 | 5.08 |
| 1969-70 | 100 | 1.47 | 10.83 | 7.46 | 51.87 | 5.63 |
| 1970-71 | 97 | 1.41 | 11.51 | 8.28 | 51.10 | 5.91 |
| 1971-72 | 99 | 1.26 | 11.20 | 8.95 | 55.12 | 6.18 |
| 1972-73 | 100 | 1.48 | 11.58 | 7.97 | 53.28 | 6.17 |
| 1973-74 | 100 | 1.42 | 11.42 | 8.15 | 55.24 | 6.31 |
| MARCH 1 | | | | | | |
| 1965-66 | 48 | 1.23 | 11.38 | 9.37 | 48.87 | 5.57 |
| 1966-67 | 49 | 1.31 | 11.97 | 9.23 | 53.21 | 6.37 |
| 1967-68 | 98 | 1.37 | 11.85 | 8.79 | 54.19 | 6.42 |
| 1968-69 | 99 | 1.25 | 11.39 | 9.21 | 46.97 | 5.37 |
| 1969-70 | 100 | 1.34 | 11.51 | 8.73 | 50.75 | 5.85 |
| 1970-71 | 93 | 1.25 | 12.06 | 9.78 | 49.31 | 5.98 |
| 1971-72 | 99 | 1.17 | 11.66 | 10.02 | 56.00 | 6.54 |
| 1972-73 | 100 | 1.42 | 12.07 | 8.65 | 53.54 | 6.46 |
| 1973-74 | 99 | 1.31 | 11.95 | 9.22 | 54.68 | 6.53 |

LATE ORANGES

MATURITY AND YIELD TEST RESULTS
 Unadjusted Averages for Regular Bloom Fruit
 from Sample Groves
 1965-66 through 1973-74

| Crop Year | Sample Groves | Acid | Soluble Solids | Ratio | Juice per Box | Solids per Box |
|-----------|---------------|----------------|----------------|---------------|---------------|----------------|
| | <u>Number</u> | <u>Percent</u> | <u>Percent</u> | <u>Number</u> | <u>Pounds</u> | <u>Pounds</u> |
| APRIL 1 | | | | | | |
| 1965-66 | 39 | 1.02 | 11.54 | 11.40 | 48.82 | 5.64 |
| 1966-67 | 48 | 1.11 | 12.24 | 11.08 | 52.79 | 6.47 |
| 1967-68 | 92 | 1.25 | 12.64 | 10.27 | 53.75 | 6.79 |
| 1968-69 | 95 | 1.07 | 11.57 | 10.95 | 47.36 | 5.51 |
| 1969-70 | 90 | 1.14 | 11.92 | 10.56 | 51.96 | 6.22 |
| 1970-71 | 83 | 1.15 | 12.27 | 10.79 | 50.32 | 6.20 |
| 1971-72 | 95 | 1.06 | 12.21 | 11.58 | 55.34 | 6.76 |
| 1972-73 | 96 | 1.22 | 12.59 | 10.45 | 53.29 | 6.71 |
| 1973-74 | 94 | 1.13 | 12.47 | 11.22 | 56.07 | 6.98 |
| APRIL 15 | | | | | | |
| 1965-66 | 36 | 0.97 | 11.98 | 12.46 | 49.74 | 5.97 |
| 1966-67 | 47 | 1.05 | 12.53 | 12.09 | 54.15 | 6.80 |
| 1967-68 | 88 | 1.17 | 12.78 | 11.09 | 53.23 | 6.80 |
| 1968-69 | 84 | 1.02 | 12.02 | 11.98 | 48.63 | 5.87 |
| 1969-70 | 81 | 1.03 | 12.26 | 12.11 | 52.86 | 6.51 |
| 1970-71 | 75 | 1.10 | 12.43 | 11.43 | 50.32 | 6.28 |
| 1971-72 | 86 | 1.00 | 12.30 | 12.41 | 54.25 | 6.69 |
| 1972-73 | 93 | 1.13 | 12.81 | 11.48 | 54.75 | 7.01 |
| 1973-74 | 86 | 1.11 | 12.67 | 11.55 | 55.45 | 7.03 |
| MAY 1 | | | | | | |
| 1965-66 | 24 | 0.93 | 12.15 | 13.20 | 49.22 | 5.99 |
| 1966-67 | 41 | 0.99 | 12.82 | 13.09 | 54.61 | 7.01 |
| 1967-68 | 77 | 1.11 | 13.00 | 11.92 | 54.24 | 7.06 |
| 1968-69 | 75 | 0.97 | 12.13 | 12.69 | 48.29 | 5.90 |
| 1969-70 | 66 | 0.97 | 12.72 | 13.26 | 53.12 | 6.78 |
| 1970-71 | 59 | 1.05 | 12.55 | 12.06 | 50.53 | 6.35 |
| 1971-72 | 69 | 0.97 | 12.65 | 13.18 | 55.07 | 6.97 |
| 1972-73 | 75 | 1.07 | 13.07 | 12.38 | 54.67 | 7.15 |
| 1973-74 | 69 | 1.04 | 12.86 | 12.60 | 55.69 | 7.17 |

LATE ORANGES

MATURITY AND YIELD TEST RESULTS
 Unadjusted Averages for Regular Bloom Fruit
 from Sample Groves
 1965-66 through 1973-74

| Crop Year | Sample Groves | Acid | Soluble Solids | Ratio | Juice per Box | Solids per Box |
|-----------|---------------|----------------|----------------|---------------|---------------|----------------|
| | <u>Number</u> | <u>Percent</u> | <u>Percent</u> | <u>Number</u> | <u>Pounds</u> | <u>Pounds</u> |
| JUNE 1 | | | | | | |
| 1965-66 | -- | -- | -- | -- | -- | -- |
| 1966-67 | 24 | 0.97 | 14.03 | 14.68 | 54.47 | 7.64 |
| 1967-68 | 35 | 0.98 | 13.29 | 13.79 | 53.59 | 7.14 |
| 1968-69 | 36 | 0.93 | 13.14 | 14.44 | 49.57 | 6.55 |
| 1969-70 | 40 | 0.96 | 13.21 | 14.02 | 51.39 | 6.82 |
| 1970-71 | 22 | 0.94 | 13.70 | 14.62 | 50.84 | 7.02 |
| 1971-72 | 47 | 0.86 | 12.85 | 15.14 | 54.68 | 7.04 |
| 1972-73 | 54 | 0.95 | 13.45 | 14.52 | 54.42 | 7.33 |
| 1973-74 | 29 | 0.90 | 13.42 | 15.04 | 54.19 | 7.27 |

EARLY ORANGES

MATURITY AND YIELD TEST RESULTS
 Unadjusted Matched Averages for Regular Bloom Fruit
 from Identical Sample Trees
 1965-66 through 1973-74

| Season and Date | Acid | Soluble Solids | Ratio | Juice per Box | Solids per Box |
|---------------------|----------------|-------------------|---------------|------------------|-------------------|
| | <u>Percent</u> | <u>Percent</u> | <u>Number</u> | <u>Pounds</u> | <u>Pounds</u> |
| 1965-66 (14 groves) | | | | | |
| Oct. 1 | 1.49 | 9.54 | 6.51 | 43.74 | 4.16 |
| Nov. 1 | 1.12 | 10.43 | 9.44 | 48.52 | 5.05 |
| Dec. 1 | 0.97 | 11.20 | 11.72 | 49.42 | 5.52 |
| Dec. 15 | -- | -- | -- | -- | -- |
| Jan. 1 | 0.91 | 11.74 | 13.16 | 47.10 | 5.51 |
| Feb. 1 | 0.86 | 12.38 | 14.62 | 46.14 | 5.70 |
| 1966-67 (20 groves) | | | | | |
| Sept. 1 | 2.02 | 9.05 | 4.70 | 41.64 | 3.76 |
| Oct. 1 | 1.46 | 9.48 | 6.58 | 48.77 | 4.61 |
| Nov. 1 | 1.15 | 10.01 | 8.84 | 1/ | 1/ |
| Dec. 1 | 1.06 | 10.76 | 10.29 | 52.42 | 5.63 |
| Dec. 15 | 1.04 | 10.88 | 10.70 | 50.47 | 5.48 |
| Jan. 1 | 0.96 | 11.48 | 12.11 | 51.01 | 5.85 |
| Feb. 1 | 0.91 | 12.28 | 13.86 | 49.84 | 6.12 |
| 1967-68 (20 groves) | | | | | |
| Sept. 1 | 1.85 | 8.90 | 4.89 | 44.13 | 3.91 |
| Oct. 1 | 1.36 | 9.30 | 6.97 | 49.02 | 4.54 |
| Nov. 1 | 1.12 | 9.96 | 9.07 | 50.65 | 5.03 |
| Dec. 1 | 0.97 | 11.27 | 11.78 | 53.27 | 6.00 |
| Dec. 15 | 0.97 | 11.50 | 12.02 | 50.62 | 5.79 |
| Jan. 1 | 0.93 | 11.88 | 13.06 | 48.99 | 5.81 |
| Feb. 1 | 0.88 | 12.53 | 14.42 | 49.43 | 6.19 |
| 1968-69 (21 groves) | | | | | |
| Sept. 1 | 2.18 | 9.11 | 4.26 | 38.89 | 3.54 |
| Oct. 1 | 1.45 | 9.15 | 6.48 | 43.82 | 4.01 |
| Nov. 1 | 1.07 | 9.79 | 9.39 | 47.58 | 4.66 |
| Dec. 1 | 0.91 | 10.59 | 11.95 | 48.94 | 5.19 |
| Dec. 15 | 0.94 | 10.99 | 11.92 | 46.33 | 5.10 |
| Jan. 1 | 0.87 | 10.92 | 12.77 | 44.90 | 4.93 |
| Feb. 1 | 0.80 | 12.08 | 15.49 | 41.55 | 5.07 |

1/ Not available. Extractor malfunctioned.

EARLY ORANGES

MATURITY AND YIELD TEST RESULTS
 Unadjusted Matched Averages for Regular Bloom Fruit
 from Identical Sample Trees
 1965-66 through 1973-74

| Season and Date | Acid | Soluble Solids | Ratio | Juice per Box | Solids per Box |
|---------------------|---------|----------------|--------|---------------|----------------|
| | Percent | Percent | Number | Pounds | Pounds |
| 1969-70 (23 groves) | | | | | |
| Sept. 1 | 2.09 | 9.27 | 4.51 | 39.60 | 3.67 |
| Oct. 1 | 1.48 | 9.30 | 6.39 | 46.19 | 4.30 |
| Nov. 1 | 1.08 | 10.10 | 9.49 | 49.82 | 5.02 |
| Dec. 1 | 1.00 | 10.87 | 11.08 | 51.17 | 5.56 |
| Dec. 15 | 0.93 | 11.33 | 12.45 | 51.34 | 5.82 |
| Jan. 1 | 0.94 | 11.81 | 12.91 | 50.85 | 6.01 |
| Feb. 1 | 0.80 | 12.52 | 16.12 | 45.91 | 5.76 |
| 1970-71 (17 groves) | | | | | |
| Sept. 1 | 2.24 | 9.29 | 4.26 | 46.15 | 4.28 |
| Oct. 1 | 1.38 | 9.64 | 7.06 | 50.36 | 4.86 |
| Nov. 1 | 1.08 | 10.89 | 10.24 | 52.87 | 5.74 |
| Dec. 1 | 1.05 | 11.60 | 11.18 | 52.46 | 6.07 |
| Dec. 15 | 1.03 | 11.87 | 11.63 | 51.97 | 6.17 |
| Jan. 1 | 0.97 | 12.39 | 12.98 | 50.10 | 6.21 |
| Feb. 1 | 0.82 | 13.29 | 16.51 | 45.74 | 6.09 |
| 1971-72 (27 groves) | | | | | |
| Sept 1 | 1.93 | 8.77 | 4.60 | 45.48 | 3.99 |
| Oct. 1 | 1.34 | 9.18 | 6.69 | 51.56 | 4.74 |
| Nov. 1 | 1.09 | 9.91 | 9.31 | 52.14 | 5.16 |
| Dec. 1 | 0.95 | 10.94 | 11.75 | 53.16 | 5.81 |
| <u>1/</u> Dec. 15 | 0.88 | 11.13 | 13.02 | 52.51 | 5.84 |
| Jan. 1 | 0.83 | 11.46 | 14.00 | 51.46 | 5.90 |
| Feb. 1 | 0.75 | 12.16 | 16.75 | 50.62 | 6.18 |
| 1972-73 (35 groves) | | | | | |
| Sept. 1 | 2.10 | 9.20 | 4.42 | 40.35 | 3.70 |
| Oct. 1 | 1.57 | 9.50 | 6.16 | 46.25 | 4.38 |
| Nov. 1 | 1.20 | 10.52 | 8.93 | 49.83 | 5.24 |
| Dec. 1 | 1.07 | 11.33 | 10.78 | 50.18 | 5.68 |
| Dec. 15 | 1.01 | 11.61 | 11.75 | 50.47 | 5.86 |
| Jan. 1 | 0.92 | 11.85 | 13.08 | 51.61 | 6.12 |
| Feb. 1 | 0.88 | 12.63 | 14.61 | 49.81 | 6.29 |
| 1973-74 (27 groves) | | | | | |
| Sept. 1 | 2.00 | 8.99 | 4.55 | 43.02 | 3.84 |
| Oct. 1 | 1.45 | 9.21 | 6.54 | 47.79 | 4.40 |
| Nov. 1 | 1.10 | 9.97 | 9.37 | 52.25 | 5.21 |
| Dec. 1 | 0.97 | 11.22 | 11.82 | 52.28 | 5.86 |
| Dec. 15 | 0.94 | 11.50 | 12.57 | 52.60 | 6.05 |
| Jan. 1 | 0.95 | 11.76 | 12.73 | 51.47 | 6.05 |
| Feb. 1 | 0.85 | 12.79 | 15.38 | 51.05 | 6.53 |

1/ For 1971-72 Dec. 15 was the only mid month test for early oranges.

MIDSEASON ORANGES

MATURITY AND YIELD TEST RESULTS
 Unadjusted Matched Averages for Regular Bloom Fruit
 from Identical Sample Trees
 1965-66 through 1973-74

| Season and Date | Acid | Soluble Solids | Ratio | Juice per Box | Solids per Box |
|---------------------|---------|----------------|--------|---------------|----------------|
| | Percent | Percent | Number | Pounds | Pounds |
| 1965-66 (18 groves) | | | | | |
| Oct. 1 | 1.68 | 9.32 | 5.71 | 44.90 | 4.19 |
| Nov. 1 | 1.22 | 10.18 | 8.61 | 49.66 | 5.05 |
| Dec. 1 | 1.09 | 11.22 | 10.60 | 51.12 | 5.73 |
| Jan. 1 | 1.01 | 11.70 | 11.90 | 49.70 | 5.82 |
| Feb. 1 | 0.97 | 12.45 | 13.15 | 47.75 | 5.94 |
| 1966-67 (33 groves) | | | | | |
| Sept. 1 | 2.29 | 9.05 | 4.06 | 42.59 | 3.85 |
| Oct. 1 | 1.60 | 9.40 | 6.03 | 48.81 | 4.59 |
| Nov. 1 | 1.31 | 9.96 | 7.77 | <u>1/</u> | <u>1/</u> |
| Dec. 1 | 1.25 | 10.82 | 8.86 | 54.18 | 5.86 |
| Dec. 15 | 1.17 | 11.15 | 9.67 | 52.32 | 5.84 |
| Jan. 1 | 1.13 | 11.72 | 10.49 | 52.44 | 6.14 |
| Feb. 1 | 1.02 | 12.53 | 12.44 | 51.41 | 6.44 |
| 1967-68 (20 groves) | | | | | |
| Sept. 1 | 2.19 | 8.83 | 4.12 | 44.51 | 3.93 |
| Oct. 1 | 1.65 | 9.03 | 5.63 | 50.06 | 4.52 |
| Nov. 1 | 1.32 | 10.00 | 7.75 | 53.16 | 5.32 |
| Dec. 1 | 1.17 | 11.25 | 9.89 | 54.87 | 6.17 |
| Dec. 15 | 1.16 | 11.58 | 10.34 | 52.84 | 6.12 |
| Jan. 1 | 1.09 | 12.08 | 11.45 | 53.23 | 6.44 |
| Feb. 1 | 1.01 | 12.67 | 13.21 | 51.14 | 6.48 |

1/ Not available. Extractor malfunctioned.

MIDSEASON ORANGES

MATURITY AND YIELD TEST RESULTS
 Unadjusted Matched Averages for Regular Bloom Fruit
 from Identical Sample Trees
 1965-66 through 1973-74

| Season and Date | Acid | Soluble Solids | Ratio | Juice per Box | Solids per Box |
|---------------------|----------------|----------------|---------------|---------------|----------------|
| | <u>Percent</u> | <u>Percent</u> | <u>Number</u> | <u>Pounds</u> | <u>Pounds</u> |
| 1968-69 (23 groves) | | | | | |
| Sept. 1 | 2.14 | 9.14 | 3.79 | 39.87 | 3.64 |
| Oct. 1 | 1.75 | 9.23 | 5.42 | 45.15 | 4.17 |
| Nov. 1 | 1.35 | 10.07 | 7.70 | 49.17 | 4.95 |
| Dec. 1 | 1.17 | 11.20 | 9.95 | 50.53 | 5.66 |
| Dec. 15 | 1.17 | 11.54 | 10.11 | 49.28 | 5.68 |
| Jan. 1 | 1.11 | 12.07 | 11.19 | 47.40 | 5.72 |
| Feb. 1 | 1.04 | 13.07 | 13.07 | 45.71 | 5.99 |
| 1969-70 (30 groves) | | | | | |
| Sept. 1 | 2.14 | 9.18 | 4.37 | 43.49 | 3.99 |
| Oct. 1 | 1.57 | 9.28 | 6.02 | 49.74 | 4.62 |
| Nov. 1 | 1.16 | 10.40 | 9.33 | 53.62 | 5.57 |
| Dec. 1 | 1.09 | 11.63 | 10.96 | 52.91 | 6.16 |
| Dec. 15 | 1.05 | 11.60 | 11.37 | 53.57 | 6.22 |
| Jan. 1 | 0.99 | 11.99 | 12.63 | 52.28 | 6.26 |
| Feb. 1 | 0.94 | 12.68 | 14.12 | 50.38 | 6.39 |
| 1970-71 (24 groves) | | | | | |
| Sept. 1 | 2.30 | 9.28 | 4.07 | 46.26 | 4.29 |
| Oct. 1 | 1.72 | 9.57 | 5.77 | 49.38 | 4.73 |
| Nov. 1 | 1.34 | 10.71 | 7.74 | 55.09 | 5.90 |
| Dec. 1 | 1.24 | 11.66 | 9.65 | 54.16 | 6.24 |
| Dec. 15 | 1.24 | 12.14 | 9.89 | 52.55 | 6.38 |
| Jan. 1 | 1.17 | 12.39 | 10.85 | 52.62 | 6.53 |
| Feb. 1 | 1.01 | 13.30 | 13.53 | 47.97 | 6.38 |

MIDSEASON ORANGES

MATURITY AND YIELD TEST RESULTS
 Unadjusted Matched Averages for Regular Bloom Fruit
 from Identical Sample Trees
 1965-66 through 1973-74

| Season and Date | | Acid | Soluble Solids | Ratio | Juice per Box | Solids per Box |
|---------------------|----|---------|----------------|--------|---------------|----------------|
| | | Percent | Percent | Number | Pounds | Pounds |
| 1971-72 (31 groves) | | | | | | |
| Sept. | 1 | 2.28 | 8.91 | 3.98 | 45.54 | 4.05 |
| Oct. | 1 | 1.65 | 9.28 | 5.78 | 49.76 | 4.63 |
| Nov. | 1 | 1.31 | 9.83 | 7.82 | 53.17 | 5.23 |
| Dec. | 1 | 1.14 | 10.87 | 9.88 | 53.80 | 5.85 |
| 1/ Dec. | 15 | 1.06 | 11.35 | 11.12 | 54.37 | 6.17 |
| Jan. | 1 | 1.01 | 11.73 | 12.05 | 53.96 | 6.33 |
| Feb. | 1 | 0.95 | 12.42 | 13.54 | 52.20 | 6.40 |
| 1972-73 (36 groves) | | | | | | |
| Sept. | 1 | 2.36 | 9.13 | 3.92 | 41.16 | 3.75 |
| Oct. | 1 | 1.87 | 9.55 | 5.24 | 48.59 | 4.64 |
| Nov. | 1 | 1.44 | 10.72 | 7.71 | 52.00 | 5.58 |
| Dec. | 1 | 1.30 | 11.39 | 8.94 | 51.70 | 5.89 |
| Dec. | 15 | 1.16 | 11.80 | 10.37 | 52.20 | 6.17 |
| Jan. | 1 | 1.16 | 12.28 | 10.72 | 52.04 | 6.38 |
| Feb. | 1 | 1.07 | 13.08 | 12.57 | 51.49 | 6.74 |
| 1973-74 (38 groves) | | | | | | |
| Sept. | 1 | 2.30 | 8.85 | 3.91 | 43.64 | 3.85 |
| Oct. | 1 | 1.73 | 8.98 | 5.23 | 49.58 | 4.45 |
| Nov. | 1 | 1.29 | 9.91 | 7.90 | 54.21 | 5.37 |
| Dec. | 1 | 1.16 | 11.01 | 9.77 | 55.15 | 6.07 |
| Dec. | 15 | 1.07 | 11.48 | 10.94 | 54.17 | 6.21 |
| Jan. | 1 | 1.09 | 11.78 | 10.98 | 54.19 | 6.38 |
| Feb. | 1 | 0.95 | 12.73 | 13.68 | 53.64 | 6.83 |

1/ For 1971-72 Dec. 15 was the only mid month test for midseason oranges.

LATE ORANGES

MATURITY AND YIELD TEST RESULTS
 Unadjusted Matched Averages for Regular Bloom Fruit
 from Identical Sample Trees
 1965-66 through 1973-74

| Season and Date | Acid | Soluble Solids | Ratio | Juice per Box | Solids per Box |
|---------------------|----------------|----------------|---------------|---------------|----------------|
| | <u>Percent</u> | <u>Percent</u> | <u>Number</u> | <u>Pounds</u> | <u>Pounds</u> |
| 1965-66 (24 groves) | | | | | |
| Oct. 1 | 2.80 | 8.71 | 3.14 | 40.75 | 3.60 |
| Nov. 1 | 2.12 | 9.13 | 4.35 | 47.81 | 4.36 |
| Dec. 1 | 1.80 | 9.77 | 5.50 | 50.12 | 4.91 |
| Jan. 1 | 1.61 | 10.46 | 6.61 | 51.99 | 5.44 |
| Feb. 1 | 1.44 | 11.25 | 7.90 | 51.18 | 5.76 |
| Mar. 1 | 1.31 | 11.63 | 9.03 | 49.20 | 5.73 |
| Apr. 1 | 1.09 | 11.90 | 11.03 | 49.33 | 5.86 |
| Apr. 15 | 1.01 | 12.13 | 12.18 | 50.11 | 6.09 |
| May 1 | 0.93 | 12.15 | 13.20 | 49.22 | 5.99 |
| 1966-67 (41 groves) | | | | | |
| Oct. 1 | 2.67 | 8.50 | 3.23 | 45.58 | 3.87 |
| Nov. 1 | 2.17 | 8.94 | 4.18 | 1/ | 1/ |
| Dec. 1 | 1.92 | 9.75 | 5.15 | 53.11 | 5.19 |
| Jan. 1 | 1.74 | 10.51 | 6.08 | 53.28 | 5.61 |
| Feb. 1 | 1.49 | 11.53 | 7.85 | 53.30 | 6.15 |
| Mar. 1 | 1.33 | 12.04 | 9.17 | 53.37 | 6.43 |
| Apr. 1 | 1.13 | 12.26 | 10.95 | 53.00 | 6.53 |
| Apr. 15 | 1.08 | 12.58 | 12.05 | 54.16 | 6.83 |
| May 1 | 0.99 | 12.82 | 13.09 | 54.61 | 7.01 |
| 1967-68 (77 groves) | | | | | |
| Oct. 1 | 2.80 | 8.56 | 3.12 | 45.40 | 3.88 |
| Nov. 1 | 2.31 | 9.26 | 4.10 | 50.10 | 4.64 |
| Dec. 1 | 1.95 | 10.40 | 5.46 | 53.19 | 5.53 |
| Jan. 1 | 1.65 | 10.89 | 6.72 | 53.93 | 5.87 |
| Feb. 1 | 1.47 | 11.58 | 8.02 | 54.57 | 6.33 |
| Mar. 1 | 1.42 | 11.98 | 8.61 | 54.35 | 6.51 |
| Apr. 1 | 1.29 | 12.79 | 10.07 | 53.68 | 6.87 |
| Apr. 15 | 1.19 | 12.88 | 10.98 | 53.15 | 6.85 |
| May. 1 | 1.11 | 13.00 | 11.92 | 54.24 | 7.06 |

1/ Not available. Extractor malfunctioned.

LATE ORANGES

MATURITY AND YIELD TEST RESULTS
 Unadjusted Matched Averages for Regular Bloom Fruit
 from Identical Sample Trees
 1965-66 through 1973-74

| Season and Date | Acid | Soluble Solids | Ratio | Juice per Box | Solids per Box |
|---------------------|----------------|-------------------|---------------|------------------|-------------------|
| | <u>Percent</u> | <u>Percent</u> | <u>Number</u> | <u>Pounds</u> | <u>Pounds</u> |
| 1968-69 (75 groves) | | | | | |
| Oct. 1 | 2.87 | 8.64 | 3.04 | 40.70 | 3.52 |
| Nov. 1 | 2.29 | 8.97 | 3.97 | 45.71 | 4.10 |
| Dec. 1 | 1.83 | 9.54 | 5.27 | 48.60 | 4.64 |
| Jan. 1 | 1.63 | 10.33 | 6.48 | 47.55 | 4.93 |
| Feb. 1 | 1.39 | 10.90 | 7.86 | 47.32 | 5.18 |
| Mar. 1 | 1.29 | 11.43 | 8.97 | 47.42 | 5.44 |
| Apr. 1 | 1.10 | 11.67 | 10.76 | 47.64 | 5.59 |
| Apr. 15 | 1.03 | 12.05 | 11.86 | 48.73 | 5.91 |
| May 1 | 0.97 | 12.13 | 12.69 | 48.29 | 5.90 |
| 1969-70 (66 groves) | | | | | |
| Oct. 1 | 2.75 | 8.56 | 3.13 | 45.28 | 3.88 |
| Nov. 1 | 2.10 | 8.69 | 4.19 | 50.10 | 4.35 |
| Dec. 1 | 1.88 | 9.52 | 5.13 | 52.20 | 4.97 |
| Jan. 1 | 1.69 | 10.53 | 6.32 | 53.05 | 5.59 |
| Feb. 1 | 1.52 | 11.11 | 7.41 | 52.28 | 5.82 |
| Mar. 1 | 1.38 | 11.77 | 8.62 | 51.35 | 6.05 |
| Apr. 1 | 1.17 | 12.13 | 10.48 | 52.95 | 6.44 |
| Apr. 15 | 1.04 | 12.40 | 12.03 | 53.04 | 6.60 |
| May 1 | 0.97 | 12.72 | 13.26 | 52.12 | 6.78 |
| 1970-71 (59 groves) | | | | | |
| Oct. 1 | 2.61 | 8.52 | 3.31 | 45.90 | 3.91 |
| Nov. 1 | 2.12 | 9.18 | 4.39 | 49.92 | 4.58 |
| Dec. 1 | 1.88 | 9.98 | 5.37 | 52.06 | 5.20 |
| Jan. 1 | 1.69 | 10.83 | 6.51 | 52.46 | 5.69 |
| Feb. 1 | 1.44 | 11.62 | 8.19 | 51.92 | 6.05 |
| Mar. 1 | 1.26 | 12.17 | 9.82 | 49.97 | 6.10 |
| Apr. 1 | 1.16 | 12.34 | 10.72 | 50.40 | 6.25 |
| Apr. 15 | 1.12 | 12.57 | 11.31 | 50.29 | 6.34 |
| May 1 | 1.05 | 12.55 | 12.06 | 50.53 | 6.35 |

LATE ORANGES

MATURITY AND YIELD TEST RESULTS
 Unadjusted Matched Averages for Regular Bloom Fruit
 from Identical Sample Trees
 1965-66 through 1973-74

| Season and Date | Acid | Soluble Solids | Ratio | Juice per Box | Solids per Box |
|---------------------|----------------|----------------|---------------|---------------|----------------|
| | <u>Percent</u> | <u>Percent</u> | <u>Number</u> | <u>Pounds</u> | <u>Pounds</u> |
| 1971-72 (69 groves) | | | | | |
| Oct. 1 | 2.76 | 8.46 | 3.09 | 46.66 | 3.95 |
| Nov. 1 | 2.25 | 8.57 | 3.90 | 49.91 | 4.32 |
| Dec. 1 | 1.84 | 9.50 | 5.22 | 52.57 | 5.00 |
| Jan. 1 | 1.52 | 10.30 | 6.85 | 53.93 | 5.56 |
| Feb. 1 | 1.28 | 11.28 | 8.87 | 54.99 | 6.21 |
| Mar. 1 | 1.20 | 11.74 | 9.92 | 55.94 | 6.58 |
| Apr. 1 | 1.07 | 12.32 | 11.61 | 54.91 | 6.76 |
| <u>1/</u> Apr. 15 | 1.01 | 12.41 | 12.42 | 54.09 | 6.72 |
| May 1 | 0.97 | 12.65 | 13.18 | 55.07 | 6.97 |
| 1972-73 (75 groves) | | | | | |
| Oct. 1 | 3.03 | 8.98 | 2.99 | 44.18 | 3.96 |
| Nov. 1 | 2.47 | 9.66 | 3.95 | 49.19 | 4.74 |
| Dec. 1 | 2.04 | 9.99 | 4.99 | 50.89 | 5.08 |
| Jan. 1 | 1.74 | 10.99 | 6.43 | 53.07 | 5.84 |
| Feb. 1 | 1.51 | 11.63 | 7.82 | 53.40 | 6.21 |
| Mar. 1 | 1.44 | 12.11 | 8.59 | 53.52 | 6.48 |
| Apr. 1 | 1.25 | 12.71 | 10.36 | 53.42 | 6.79 |
| Apr. 15 | 1.14 | 12.86 | 11.43 | 54.81 | 7.05 |
| May 1 | 1.07 | 13.07 | 12.38 | 54.67 | 7.15 |
| 1973-74 (69 groves) | | | | | |
| Oct. 1 | 2.86 | 8.41 | 2.96 | 45.95 | 3.86 |
| Nov. 1 | 2.31 | 8.97 | 3.91 | 51.13 | 4.59 |
| Dec. 1 | 1.92 | 9.95 | 5.26 | 54.48 | 5.42 |
| Jan. 1 | 1.75 | 10.60 | 6.12 | 53.97 | 5.72 |
| Feb. 1 | 1.42 | 11.47 | 8.16 | 55.13 | 6.32 |
| Mar. 1 | 1.33 | 12.05 | 9.23 | 55.33 | 6.67 |
| Apr. 1 | 1.12 | 12.50 | 11.34 | 55.84 | 6.98 |
| Apr. 15 | 1.11 | 12.68 | 11.63 | 55.47 | 7.04 |
| May 1 | 1.04 | 12.68 | 12.60 | 55.69 | 7.17 |

1/ For 1971-72 April 15 was the only midmonth test for late oranges.

EARLY ORANGES

MATURITY AND YIELD TEST RESULTS
 Unadjusted Matched Averages for Regular Bloom Fruit
 from Identical Sample Trees
 1965-66 through 1973-74

| Date | 1965-66 | 1966-67 | 1967-68 | 1968-69 | 1969-70 | 1970-71 | 1971-72 | 1972-73 | 1973-74 |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Percent | Percent | Percent | Percent | Percent | Percent | Percent | Percent | Percent |
| ACID | | | | | | | | | |
| Sept. 1 | -- | 2.02 | 1.85 | 2.18 | 2.09 | 2.24 | 1.93 | 2.10 | 2.00 |
| Oct. 1 | 1.49 | 1.46 | 1.36 | 1.45 | 1.48 | 1.38 | 1.34 | 1.57 | 1.45 |
| Nov. 1 | 1.12 | 1.15 | 1.12 | 1.07 | 1.08 | 1.08 | 1.09 | 1.20 | 1.10 |
| Dec. 1 | 0.97 | 1.06 | 0.97 | 0.91 | 1.00 | 1.05 | 0.95 | 1.07 | 0.97 |
| Dec. 15 | -- | 1.04 | 0.97 | 0.94 | 0.93 | 1.03 | 0.88 | 1.01 | 0.94 |
| Jan. 1 | 0.91 | 0.96 | 0.93 | 0.87 | 0.94 | 0.97 | 0.83 | 0.92 | 0.95 |
| Feb. 1 | 0.86 | 0.91 | 0.88 | 0.80 | 0.80 | 0.82 | 0.75 | 0.88 | 0.85 |

| | | | | | | | | | |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SOLUBLE SOLIDS | | | | | | | | | |
| Sept. 1 | -- | 9.05 | 8.90 | 9.11 | 9.27 | 9.29 | 8.77 | 9.20 | 8.98 |
| Oct. 1 | 9.54 | 9.48 | 9.30 | 9.15 | 9.30 | 9.64 | 9.18 | 9.50 | 9.21 |
| Nov. 1 | 10.43 | 10.01 | 9.96 | 9.79 | 10.10 | 10.89 | 9.91 | 10.52 | 9.97 |
| Dec. 1 | 11.20 | 10.76 | 11.27 | 10.59 | 10.87 | 11.60 | 10.94 | 11.33 | 11.22 |
| Dec. 15 | -- | 10.88 | 11.50 | 10.99 | 11.33 | 11.87 | 11.13 | 11.61 | 11.50 |
| Jan. 1 | 11.74 | 11.48 | 11.88 | 10.92 | 11.81 | 12.39 | 11.46 | 11.85 | 11.76 |
| Feb. 15 | 12.38 | 12.28 | 12.53 | 12.08 | 12.52 | 13.29 | 12.16 | 12.63 | 12.79 |

| RATIO | | | | | | | | | |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | Number | Number | Number | Number | Number | Number | Number | Number | Number |
| Sept. 1 | -- | 4.70 | 4.89 | 4.26 | 4.51 | 4.26 | 4.60 | 4.42 | 4.54 |
| Oct. 1 | 6.51 | 6.58 | 6.97 | 6.48 | 6.39 | 7.06 | 6.69 | 6.16 | 6.54 |
| Nov. 1 | 9.44 | 8.84 | 9.07 | 9.39 | 9.49 | 10.24 | 9.31 | 8.93 | 9.37 |
| Dec. 1 | 11.72 | 10.29 | 11.78 | 11.95 | 11.08 | 11.18 | 11.75 | 10.78 | 11.82 |
| Dec. 15 | -- | 10.70 | 12.02 | 11.92 | 12.45 | 11.63 | 13.02 | 11.75 | 12.57 |
| Jan. 1 | 13.16 | 12.11 | 13.06 | 12.77 | 12.91 | 12.98 | 14.00 | 13.08 | 12.73 |
| Feb. 1 | 14.62 | 13.86 | 14.42 | 15.49 | 16.12 | 16.51 | 16.57 | 14.61 | 15.38 |

EARLY ORANGES

MATURITY AND YIELD TEST RESULTS
 Unadjusted Matched Averages for Regular Bloom Fruit
 from Identical Sample Trees
 1965-66 through 1973-74

| Date | 1965-66 | 1966-67 | 1967-68 | 1968-69 | 1969-70 | 1970-71 | 1971-72 | 1972-73 | 1973-74 |
|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | <u>Pounds</u> | <u>Pounds</u> | <u>Pounds</u> | <u>Pounds</u> | <u>Pounds</u> | <u>Pounds</u> | <u>Pounds</u> | <u>Pounds</u> | <u>Pounds</u> |
| JUICE PER BOX | | | | | | | | | |
| Sept. 1 | -- | 41.64 | 44.13 | 38.89 | 39.60 | 46.15 | 45.48 | 40.35 | 43.14 |
| Oct. 1 | 43.74 | 48.77 | 49.02 | 43.82 | 46.19 | 50.36 | 51.56 | 46.25 | 47.79 |
| Nov. 1 | 48.52 | <u>1/</u> | 50.65 | 47.58 | 49.82 | 52.87 | 52.16 | 49.83 | 52.25 |
| Dec. 1 | 49.42 | 52.42 | 53.27 | 48.94 | 51.17 | 52.46 | 53.16 | 50.18 | 52.28 |
| Dec. 15 | -- | 50.47 | 50.62 | 46.33 | 51.34 | 51.97 | 52.51 | 50.47 | 52.60 |
| Jan. 1 | 47.10 | 51.01 | 48.99 | 44.90 | 50.85 | 50.10 | 51.46 | 51.61 | 51.47 |
| Feb. 1 | 46.14 | 49.84 | 49.43 | 41.55 | 45.91 | 45.74 | 50.62 | 49.81 | 51.05 |
| SOLIDS PER BOX | | | | | | | | | |
| Sept. 1 | -- | 3.76 | 3.91 | 3.54 | 3.67 | 4.28 | 3.99 | 3.70 | 3.85 |
| Oct. 1 | 4.16 | 4.61 | 4.54 | 4.01 | 4.30 | 4.86 | 4.74 | 4.38 | 4.40 |
| Nov. 1 | 5.05 | <u>1/</u> | 5.03 | 4.66 | 5.02 | 5.74 | 5.16 | 5.24 | 5.21 |
| Dec. 1 | 5.52 | 5.63 | 6.00 | 5.19 | 5.56 | 6.07 | 5.81 | 5.68 | 5.86 |
| Dec. 15 | -- | 5.48 | 5.79 | 5.10 | 5.82 | 6.17 | 5.84 | 5.86 | 6.05 |
| Jan. 1 | 5.51 | 5.85 | 5.81 | 4.93 | 6.01 | 6.21 | 5.90 | 6.12 | 6.05 |
| Feb. 1 | 5.70 | 6.12 | 6.19 | 5.07 | 5.76 | 6.09 | 6.18 | 6.29 | 6.53 |

1/ Not available. Extractor malfunctioned.

MIDSEASON ORANGES

MATURITY AND YIELD TEST RESULTS
 Unadjusted Matched Averages for Regular Bloom Fruit
 from Identical Sample Trees
 1965-66 through 1973-74

| Date | 1965-66 | 1966-67 | 1967-68 | 1968-69 | 1969-70 | 1970-71 | 1971-72 | 1972-73 | 1973-74 |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|

Percent Percent Percent Percent Percent Percent Percent Percent Percent

ACID

| | | | | | | | | | |
|---------|------|------|------|------|------|------|------|------|------|
| Sept. 1 | -- | 2.29 | 2.19 | 2.14 | 2.14 | 2.30 | 2.28 | 2.36 | 2.30 |
| Oct. 1 | 1.68 | 1.60 | 1.65 | 1.75 | 1.57 | 1.72 | 1.65 | 1.87 | 1.73 |
| Nov. 1 | 1.22 | 1.31 | 1.32 | 1.35 | 1.16 | 1.34 | 1.34 | 1.44 | 1.29 |
| Dec. 1 | 1.09 | 1.25 | 1.17 | 1.17 | 1.09 | 1.24 | 1.14 | 1.30 | 1.16 |
| Dec. 15 | -- | 1.17 | 1.16 | 1.17 | 1.05 | 1.24 | 1.06 | 1.16 | 1.07 |
| Jan. 1 | 1.01 | 1.13 | 1.09 | 1.11 | 0.99 | 1.17 | 1.01 | 1.16 | 1.09 |
| Feb. 1 | 0.97 | 1.02 | 1.01 | 1.04 | 0.94 | 1.01 | 0.95 | 1.07 | 0.95 |

SOLUBLE SOLIDS

| | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Sept. 1 | -- | 9.05 | 8.83 | 9.14 | 9.18 | 9.28 | 8.91 | 9.13 | 8.85 |
| Oct. 1 | 9.32 | 9.40 | 9.03 | 9.23 | 9.28 | 9.57 | 9.28 | 9.55 | 8.98 |
| Nov. 1 | 10.18 | 9.96 | 10.00 | 10.07 | 10.40 | 10.71 | 9.83 | 10.72 | 9.91 |
| Dec. 1 | 11.22 | 10.82 | 11.25 | 11.20 | 11.63 | 11.66 | 10.87 | 11.39 | 11.01 |
| Dec. 15 | -- | 11.15 | 11.58 | 11.54 | 11.60 | 12.14 | 11.35 | 11.80 | 11.48 |
| Jan. 1 | 11.70 | 11.72 | 12.08 | 12.07 | 11.99 | 12.39 | 11.73 | 12.28 | 11.78 |
| Feb. 1 | 12.45 | 12.53 | 12.67 | 13.07 | 12.68 | 13.30 | 12.42 | 13.08 | 12.73 |

RATIO

| | <u>Number</u> | <u>Number</u> | <u>Number</u> | <u>Number</u> | <u>Number</u> | <u>Number</u> | <u>Number</u> | <u>Number</u> | <u>Number</u> |
|---------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Sept. 1 | -- | 4.06 | 4.12 | 3.79 | 4.37 | 4.07 | 3.98 | 3.92 | 3.91 |
| Oct. 1 | 5.71 | 6.03 | 5.63 | 5.42 | 6.02 | 5.77 | 5.78 | 5.24 | 5.23 |
| Nov. 1 | 8.61 | 7.77 | 7.75 | 7.70 | 9.33 | 7.74 | 7.82 | 7.71 | 7.90 |
| Dec. 1 | 10.60 | 8.86 | 9.89 | 9.95 | 10.96 | 9.65 | 9.88 | 8.94 | 9.77 |
| Dec. 15 | -- | 9.67 | 10.34 | 10.11 | 11.37 | 9.89 | 11.12 | 10.37 | 10.94 |
| Jan. 1 | 11.90 | 10.49 | 11.45 | 11.19 | 12.63 | 10.85 | 12.05 | 10.72 | 10.98 |
| Feb. 1 | 13.15 | 12.44 | 13.21 | 13.07 | 14.12 | 13.53 | 13.54 | 12.57 | 13.68 |

MIDSEASON ORANGES

MATURITY AND YIELD TEST RESULTS
 Unadjusted Matched Averages for Regular Bloom Fruit
 from Identical Sample Trees
 1965-66 through 1973-74

| Date | 1965-66 | 1966-67 | 1967-68 | 1968-69 | 1969-70 | 1970-71 | 1971-72 | 1972-73 | 1973-74 |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | <u>Pounds</u> | <u>Pounds</u> | <u>Pounds</u> | <u>Pounds</u> | <u>Pounds</u> | <u>Pounds</u> | <u>Pounds</u> | <u>Pounds</u> | <u>Pounds</u> |
| JUICE PER BOX | | | | | | | | | |
| Sept. 1 | -- | 42.59 | 44.51 | 39.87 | 43.49 | 46.26 | 45.54 | 41.16 | 43.64 |
| Oct. 1 | 44.90 | 48.81 | 50.06 | 45.15 | 49.74 | 49.38 | 49.76 | 48.59 | 49.58 |
| Nov. 1 | 49.66 | <u>1/</u> | 53.16 | 49.17 | 53.62 | 55.09 | 53.17 | 52.00 | 54.21 |
| Dec. 1 | 51.12 | 54.18 | 54.87 | 50.53 | 52.91 | 54.16 | 53.80 | 51.70 | 55.15 |
| Dec. 15 | -- | 52.32 | 52.84 | 49.28 | 53.57 | 52.55 | 54.37 | 52.20 | 54.17 |
| Jan. 1 | 49.70 | 52.44 | 53.23 | 47.40 | 52.28 | 52.62 | 53.96 | 52.04 | 54.19 |
| Feb. 1 | 47.75 | 51.41 | 51.14 | 45.71 | 50.38 | 47.97 | 52.20 | 51.49 | 53.64 |

| | | | | | | | | | |
|----------------|------|-----------|------|------|------|------|------|------|------|
| SOLIDS PER BOX | | | | | | | | | |
| Sept. 1 | -- | 3.85 | 3.93 | 3.64 | 3.99 | 4.29 | 4.05 | 3.75 | 3.85 |
| Oct. 1 | 4.19 | 4.59 | 4.52 | 4.17 | 4.62 | 4.73 | 4.63 | 4.64 | 4.45 |
| Nov. 1 | 5.05 | <u>1/</u> | 5.32 | 4.95 | 5.57 | 5.90 | 5.23 | 5.58 | 5.37 |
| Dec. 1 | 5.73 | 5.86 | 6.17 | 5.66 | 6.16 | 6.24 | 5.85 | 5.89 | 6.07 |
| Dec. 15 | -- | 5.84 | 6.12 | 5.68 | 6.22 | 6.38 | 6.17 | 6.17 | 6.21 |
| Jan. 1 | 5.82 | 6.14 | 6.44 | 5.72 | 6.26 | 6.53 | 6.33 | 6.38 | 6.38 |
| Feb. 1 | 5.94 | 6.44 | 6.48 | 5.99 | 6.39 | 6.38 | 6.49 | 6.74 | 6.83 |

1/ Not available. Extractor malfunctioned.

LATE ORANGES

MATURITY AND YIELD TEST RESULTS
 Unadjusted Matched Averages for Regular Bloom Fruit
 from Identical Sample Trees
 1965-66 through 1973-74

| Date | 1965-66 | 1966-67 | 1967-68 | 1968-69 | 1969-70 | 1970-71 | 1971-72 | 1972-73 | 1973-74 |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | <u>Percent</u> | <u>Percent</u> | <u>Percent</u> | <u>Percent</u> | <u>Percent</u> | <u>Percent</u> | <u>Percent</u> | <u>Percent</u> | <u>Percent</u> |
| ACID | | | | | | | | | |
| Oct. 1 | 2.80 | 2.67 | 2.80 | 2.87 | 2.75 | 2.61 | 2.76 | 3.03 | 2.86 |
| Nov. 1 | 2.12 | 2.17 | 2.31 | 2.29 | 2.10 | 2.12 | 2.25 | 2.47 | 2.31 |
| Dec. 1 | 1.80 | 1.92 | 1.95 | 1.83 | 1.88 | 1.88 | 1.84 | 2.04 | 1.92 |
| Jan. 1 | 1.61 | 1.74 | 1.65 | 1.63 | 1.69 | 1.69 | 1.52 | 1.74 | 1.75 |
| Feb. 1 | 1.44 | 1.49 | 1.47 | 1.39 | 1.52 | 1.44 | 1.28 | 1.51 | 1.42 |
| Mar. 1 | 1.31 | 1.33 | 1.42 | 1.29 | 1.38 | 1.26 | 1.20 | 1.44 | 1.33 |
| Apr. 1 | 1.09 | 1.13 | 1.29 | 1.10 | 1.17 | 1.16 | 1.07 | 1.25 | 1.12 |
| Apr. 15 | 1.01 | 1.08 | 1.19 | 1.03 | 1.04 | 1.12 | 1.01 | 1.14 | 1.11 |
| May 1 | 0.93 | 0.99 | 1.11 | 0.97 | 0.97 | 1.05 | 0.97 | 1.07 | 1.04 |
| SOLUBLE SOLIDS | | | | | | | | | |
| Oct. 1 | 8.71 | 8.50 | 8.56 | 8.64 | 8.56 | 8.52 | 8.46 | 8.98 | 8.41 |
| Nov. 1 | 9.13 | 8.94 | 9.26 | 8.97 | 8.69 | 9.18 | 8.57 | 9.66 | 8.97 |
| Dec. 1 | 9.77 | 9.75 | 10.40 | 9.54 | 9.52 | 9.98 | 9.50 | 9.99 | 9.95 |
| Jan. 1 | 10.46 | 10.51 | 10.89 | 10.33 | 10.53 | 10.83 | 10.30 | 10.99 | 10.60 |
| Feb. 1 | 11.25 | 11.53 | 11.58 | 10.90 | 11.11 | 11.62 | 11.28 | 11.63 | 11.47 |
| Mar. 1 | 11.63 | 12.04 | 11.98 | 11.43 | 11.77 | 12.17 | 11.74 | 12.11 | 12.05 |
| Apr. 1 | 11.90 | 12.26 | 12.79 | 11.67 | 12.13 | 12.34 | 12.32 | 12.71 | 12.50 |
| Apr. 15 | 12.13 | 12.58 | 12.88 | 12.05 | 12.40 | 12.57 | 12.41 | 12.86 | 12.68 |
| May 1 | 12.15 | 12.82 | 13.00 | 12.13 | 12.72 | 12.55 | 12.65 | 13.07 | 12.86 |
| RATIO | | | | | | | | | |
| | <u>Number</u> | <u>Number</u> | <u>Number</u> | <u>Number</u> | <u>Number</u> | <u>Number</u> | <u>Number</u> | <u>Number</u> | <u>Number</u> |
| Oct. 1 | 3.14 | 3.23 | 3.12 | 3.04 | 3.13 | 3.31 | 3.09 | 2.99 | 2.96 |
| Nov. 1 | 4.35 | 4.18 | 4.10 | 3.97 | 4.19 | 4.39 | 3.90 | 3.95 | 3.91 |
| Dec. 1 | 5.50 | 5.15 | 5.46 | 5.27 | 5.13 | 5.37 | 5.22 | 4.99 | 5.26 |
| Jan. 1 | 6.61 | 6.08 | 6.72 | 6.48 | 6.32 | 6.51 | 6.85 | 6.43 | 6.12 |
| Feb. 1 | 7.90 | 7.85 | 8.02 | 7.86 | 7.41 | 8.19 | 8.87 | 7.82 | 8.16 |
| Mar. 1 | 9.03 | 9.17 | 8.61 | 8.97 | 8.62 | 9.82 | 9.92 | 8.59 | 9.23 |
| Apr. 1 | 11.03 | 10.95 | 10.07 | 10.76 | 10.48 | 10.72 | 11.61 | 10.36 | 11.34 |
| Apr. 15 | 12.18 | 12.05 | 10.98 | 11.86 | 12.03 | 11.31 | 12.42 | 11.43 | 11.63 |
| May 1 | 13.20 | 13.09 | 11.92 | 12.69 | 13.26 | 12.06 | 13.18 | 12.38 | 12.60 |

LATE ORANGES

MATURITY AND YIELD TEST RESULTS
 Unadjusted Matched Averages for Regular Bloom Fruit
 from Identical Sample Trees
 1965-66 through 1973-74

| Date | 1965-66 | 1966-67 | 1967-68 | 1968-69 | 1969-70 | 1970-71 | 1971-72 | 1972-73 | 1973-74 |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | <u>Pounds</u> | <u>Pounds</u> | <u>Pounds</u> | <u>Pounds</u> | <u>Pounds</u> | <u>Pounds</u> | <u>Pounds</u> | <u>Pounds</u> | <u>Pounds</u> |
| JUICE PER BOX | | | | | | | | | |
| Oct. 1 | 40.75 | 45.58 | 45.40 | 40.70 | 45.28 | 45.90 | 46.66 | 44.18 | 45.95 |
| Nov. 1 | 47.81 | 1/ | 50.10 | 45.71 | 50.10 | 49.92 | 49.91 | 49.19 | 51.13 |
| Dec. 1 | 50.12 | 53.11 | 53.19 | 48.60 | 52.20 | 52.06 | 52.57 | 50.89 | 54.48 |
| Jan. 1 | 51.99 | 53.28 | 53.93 | 47.55 | 53.05 | 52.46 | 53.93 | 53.07 | 53.97 |
| Feb. 1 | 51.18 | 53.30 | 54.57 | 47.32 | 52.28 | 51.92 | 54.99 | 53.40 | 55.13 |
| Mar. 1 | 49.20 | 53.37 | 54.35 | 47.42 | 51.35 | 49.97 | 55.94 | 53.52 | 55.33 |
| Apr. 1 | 49.33 | 53.00 | 53.68 | 47.64 | 52.95 | 50.40 | 54.91 | 53.42 | 55.84 |
| Apr. 15 | 50.11 | 54.16 | 53.15 | 48.73 | 53.04 | 50.29 | 54.09 | 54.81 | 55.47 |
| May 1 | 49.22 | 54.61 | 54.24 | 48.29 | 53.12 | 50.53 | 55.07 | 54.67 | 55.69 |

| | | | | | | | | | |
|----------------|------|------|------|------|------|------|------|------|------|
| SOLIDS PER BOX | | | | | | | | | |
| Oct. 1 | 3.60 | 3.87 | 3.88 | 3.52 | 3.88 | 3.91 | 3.95 | 3.96 | 3.86 |
| Nov. 1 | 4.36 | 1/ | 4.64 | 4.10 | 4.35 | 4.58 | 4.32 | 4.74 | 4.59 |
| Dec. 1 | 4.91 | 5.19 | 5.53 | 4.64 | 4.97 | 5.20 | 5.00 | 5.08 | 5.42 |
| Jan. 1 | 5.44 | 5.61 | 5.87 | 4.93 | 5.59 | 5.69 | 5.56 | 5.84 | 5.72 |
| Feb. 1 | 5.76 | 6.15 | 6.33 | 5.18 | 5.82 | 6.05 | 6.21 | 6.21 | 6.32 |
| Mar. 1 | 5.73 | 6.43 | 6.51 | 5.44 | 6.05 | 6.10 | 6.58 | 6.48 | 6.67 |
| Apr. 1 | 5.86 | 6.53 | 6.87 | 5.59 | 6.44 | 6.25 | 6.76 | 6.79 | 6.98 |
| Apr. 15 | 6.09 | 6.83 | 6.85 | 5.91 | 6.60 | 6.34 | 6.72 | 7.05 | 7.04 |
| May 1 | 5.99 | 7.01 | 7.06 | 5.90 | 6.78 | 6.35 | 6.97 | 7.15 | 7.17 |

1/Not available. Extractor malfunctioned.

SEEDY GRAPEFRUIT

MATURITY AND YIELD TEST RESULTS
 Unadjusted Averages for Regular Bloom Fruit
 from Sample Groves
 1965-66 through 1973-74

| Crop Year | Sample Groves | Acid | Soluble Solids | Ratio | Juice per Box | Solids per Box |
|-------------|---------------|---------|----------------|--------|---------------|----------------|
| | Number | Percent | Percent | Number | Pounds | Pounds |
| SEPTEMBER 1 | | | | | | |
| 1965-66 | -- | -- | -- | -- | -- | -- |
| 1966-67 | 25 | 1.64 | 8.73 | 5.34 | 28.60 | 2.50 |
| 1967-68 | 25 | 1.79 | 9.00 | 5.06 | 28.54 | 2.57 |
| 1968-69 | -- | -- | -- | -- | -- | -- |
| 1969-70 | 25 | 1.67 | 9.17 | 5.51 | 29.51 | 2.20 |
| 1970-71 | 25 | 1.70 | 9.67 | 5.73 | 32.17 | 3.11 |
| 1971-72 | 25 | 1.70 | 8.98 | 5.34 | 31.64 | 2.84 |
| 1972-73 | 25 | 1.78 | 9.50 | 5.35 | 29.00 | 2.75 |
| 1973-74 | 25 | 1.84 | 9.03 | 4.93 | 30.28 | 2.74 |
| OCTOBER 1 | | | | | | |
| 1965-66 | -- | -- | -- | -- | -- | -- |
| 1966-67 | 25 | 1.48 | 9.28 | 6.29 | 37.95 | 3.53 |
| 1967-68 | 25 | 1.63 | 9.42 | 5.81 | 34.14 | 3.22 |
| 1968-69 | 25 | 1.56 | 9.36 | 6.04 | 34.40 | 3.22 |
| 1969-70 | 25 | 1.44 | 9.27 | 6.47 | 35.22 | 3.27 |
| 1970-71 | 25 | 1.53 | 9.96 | 6.58 | 37.67 | 3.75 |
| 1971-72 | 25 | 1.57 | 9.22 | 5.93 | 36.35 | 3.35 |
| 1972-73 | 25 | 1.63 | 10.02 | 6.18 | 35.40 | 3.54 |
| 1973-74 | 25 | 1.54 | 9.11 | 5.98 | 35.64 | 3.26 |
| NOVEMBER 1 | | | | | | |
| 1965-66 | -- | -- | -- | -- | -- | -- |
| 1966-67 | 24 | 1.40 | 9.46 | 6.81 | 41.22 | 3.91 |
| 1967-68 | -- | -- | -- | -- | -- | -- |
| 1968-69 | 24 | 1.50 | 9.65 | 6.47 | 38.35 | 3.70 |
| 1969-70 | 22 | 1.29 | 9.40 | 7.34 | 39.48 | 3.72 |
| 1970-71 | 22 | 1.51 | 10.41 | 7.00 | 41.50 | 4.32 |
| 1971-72 | 25 | 1.49 | 9.46 | 6.46 | 41.08 | 3.88 |
| 1972-73 | 25 | 1.70 | 10.71 | 6.32 | 40.79 | 4.36 |
| 1973-74 | 23 | 1.56 | 9.70 | 6.29 | 41.80 | 4.06 |
| DECEMBER 1 | | | | | | |
| 1965-66 | -- | -- | -- | -- | -- | -- |
| 1966-67 | 21 | 1.42 | 9.71 | 6.89 | 44.04 | 4.28 |
| 1967-68 | -- | -- | -- | -- | -- | -- |
| 1968-69 | 23 | 1.48 | 9.93 | 6.75 | 40.25 | 4.00 |
| 1969-70 | 19 | 1.38 | 9.61 | 7.09 | 41.40 | 3.99 |
| 1970-71 | 18 | 1.60 | 10.83 | 6.88 | 44.77 | 4.84 |
| 1971-72 | 22 | 1.45 | 9.99 | 7.01 | 44.28 | 4.42 |
| 1972-73 | 21 | 1.55 | 10.96 | 7.10 | 41.85 | 4.59 |
| 1973-74 | 19 | 1.46 | 10.29 | 7.15 | 44.54 | 4.58 |

WHITE SEEDLESS GRAPEFRUIT

MATURITY AND YIELD TEST RESULTS
 Unadjusted Averages for Regular Bloom Fruit
 from Sample Groves
 1965-66 through 1973-74

| Crop Year | Sample Groves | Acid | Soluble Solids | Ratio | Juice per Box | Solids per Box |
|-------------|---------------|---------|----------------|--------|---------------|----------------|
| | Number | Percent | Percent | Number | Pounds | Pounds |
| SEPTEMBER 1 | | | | | | |
| 1965-66 | -- | -- | -- | -- | -- | -- |
| 1966-67 | 60 | 1.73 | 9.18 | 5.31 | 31.56 | 2.90 |
| 1967-68 | 60 | 1.82 | 9.35 | 5.16 | 27.92 | 2.61 |
| 1968-69 | -- | -- | -- | -- | -- | -- |
| 1969-70 | 60 | 1.72 | 9.27 | 5.40 | 29.41 | 2.72 |
| 1970-71 | 60 | 1.81 | 9.95 | 5.33 | 31.83 | 3.16 |
| 1971-72 | 60 | 1.81 | 9.76 | 5.45 | 32.73 | 3.18 |
| 1972-73 | 60 | 1.87 | 9.64 | 5.16 | 29.89 | 2.88 |
| 1973-74 | 60 | 1.84 | 8.89 | 4.86 | 31.39 | 2.79 |
| OCTOBER 1 | | | | | | |
| 1965-66 | 60 | 1.59 | 9.64 | 6.12 | 33.31 | 3.21 |
| 1966-67 | 60 | 1.43 | 9.26 | 6.52 | 37.81 | 3.45 |
| 1967-68 | 60 | 1.63 | 9.64 | 5.99 | 34.62 | 3.32 |
| 1968-69 | 60 | 1.54 | 9.57 | 6.23 | 35.30 | 3.38 |
| 1969-70 | 60 | 1.44 | 9.24 | 6.43 | 35.56 | 3.28 |
| 1970-71 | 60 | 1.51 | 10.04 | 6.69 | 36.55 | 3.66 |
| 1971-72 | 60 | 1.56 | 9.83 | 6.33 | 38.23 | 3.75 |
| 1972-73 | 60 | 1.62 | 9.86 | 6.14 | 35.85 | 3.52 |
| 1973-74 | 60 | 1.49 | 8.78 | 5.92 | 36.75 | 3.23 |
| NOVEMBER 1 | | | | | | |
| 1965-66 | 52 | 1.37 | 9.83 | 7.23 | 38.88 | 3.82 |
| 1966-67 | 58 | 1.33 | 9.30 | 7.10 | 41.07 | 3.82 |
| 1967-68 | -- | -- | -- | -- | -- | -- |
| 1968-69 | 59 | 1.36 | 9.66 | 7.11 | 39.79 | 3.84 |
| 1969-70 | 59 | 1.24 | 9.14 | 7.44 | 40.15 | 3.67 |
| 1970-71 | 54 | 1.37 | 10.24 | 7.53 | 41.06 | 4.20 |
| 1971-72 | 58 | 1.43 | 9.79 | 6.94 | 40.88 | 4.07 |
| 1972-73 | 58 | 1.50 | 10.07 | 6.77 | 40.38 | 4.07 |
| 1973-74 | 58 | 1.36 | 9.11 | 6.75 | 41.88 | 3.81 |
| DECEMBER 1 | | | | | | |
| 1965-66 | 44 | 1.30 | 9.91 | 7.75 | 42.44 | 4.22 |
| 1966-67 | 53 | 1.32 | 9.89 | 7.61 | 43.17 | 4.27 |
| 1967-68 | -- | -- | -- | -- | -- | -- |
| 1968-69 | 58 | 1.34 | 9.66 | 7.30 | 41.48 | 4.01 |
| 1969-70 | 56 | 1.23 | 9.05 | 7.38 | 42.87 | 3.88 |
| 1970-71 | 45 | 1.44 | 10.46 | 7.34 | 42.79 | 4.47 |
| 1971-72 | 55 | 1.32 | 9.90 | 7.62 | 45.04 | 4.47 |
| 1972-73 | 55 | 1.39 | 10.21 | 7.39 | 43.05 | 4.40 |
| 1973-74 | 55 | 1.29 | 9.22 | 7.24 | 44.74 | 4.13 |

PINK SEEDLESS GRAPEFRUIT

MATURITY AND YIELD TEST RESULTS
 Unadjusted Averages for Regular Bloom Fruit
 from Sample Groves
 1965-66 through 1973-74

| Crop Year | Sample Groves Number | Acid Percent | Soluble Solids Percent | Ratio Number | Juice per Box Pounds | Solids per Box Pounds |
|-------------|-------------------------|-----------------|---------------------------|-----------------|----------------------------|-----------------------------|
| SEPTEMBER 1 | | | | | | |
| 1965-66 | -- | -- | -- | -- | -- | -- |
| 1966-67 | 50 | 1.66 | 8.88 | 5.36 | 31.34 | 2.78 |
| 1967-68 | 50 | 1.72 | 9.66 | 5.30 | 29.45 | 2.66 |
| 1968-69 | -- | -- | -- | -- | -- | -- |
| 1969-70 | 50 | 1.67 | 9.16 | 5.52 | 30.47 | 2.79 |
| 1970-71 | 50 | 1.73 | 9.55 | 5.56 | 32.18 | 3.07 |
| 1971-72 | 50 | 1.80 | 9.39 | 5.22 | 32.02 | 3.00 |
| 1972-73 | 50 | 1.79 | 9.57 | 5.33 | 29.81 | 2.85 |
| 1973-74 | 50 | 1.86 | 9.02 | 4.86 | 30.94 | 2.79 |
| OCTOBER 1 | | | | | | |
| 1965-66 | 50 | 1.45 | 9.26 | 6.45 | 34.82 | 3.22 |
| 1966-67 | 50 | 1.34 | 9.01 | 6.74 | 37.54 | 3.83 |
| 1967-68 | 50 | 1.49 | 9.15 | 6.21 | 35.32 | 3.23 |
| 1968-69 | 50 | 1.54 | 9.35 | 6.08 | 35.64 | 3.32 |
| 1969-70 | 50 | 1.41 | 9.05 | 6.45 | 35.87 | 3.24 |
| 1970-71 | 49 | 1.42 | 9.61 | 6.79 | 37.23 | 3.56 |
| 1971-72 | 50 | 1.52 | 9.39 | 6.22 | 37.93 | 3.56 |
| 1972-73 | 50 | 1.56 | 9.91 | 6.40 | 36.49 | 3.60 |
| 1973-74 | 50 | 1.48 | 8.94 | 6.05 | 36.61 | 3.27 |
| NOVEMBER 1 | | | | | | |
| 1965-66 | 49 | 1.26 | 9.46 | 7.57 | 40.78 | 3.86 |
| 1966-67 | 47 | 1.23 | 8.92 | 7.26 | 41.92 | 3.74 |
| 1967-68 | -- | -- | -- | -- | -- | -- |
| 1968-69 | 49 | 1.34 | 9.40 | 7.07 | 39.66 | 3.73 |
| 1969-70 | 46 | 1.22 | 9.07 | 7.48 | 41.11 | 3.69 |
| 1970-71 | 46 | 1.30 | 9.78 | 7.58 | 41.78 | 4.08 |
| 1971-72 | 50 | 1.39 | 9.50 | 6.87 | 41.17 | 3.91 |
| 1972-73 | 50 | 1.45 | 10.13 | 7.04 | 40.52 | 4.10 |
| 1973-74 | 50 | 1.37 | 9.28 | 6.85 | 42.33 | 3.93 |
| DECEMBER 1 | | | | | | |
| 1965-66 | 43 | 1.21 | 9.67 | 8.12 | 41.90 | 4.05 |
| 1966-67 | 47 | 1.19 | 9.27 | 7.82 | 42.87 | 3.98 |
| 1967-68 | -- | -- | -- | -- | -- | -- |
| 1968-69 | 47 | 1.29 | 9.46 | 7.37 | 42.02 | 3.98 |
| 1969-70 | 45 | 1.20 | 9.27 | 7.81 | 43.54 | 4.04 |
| 1970-71 | 39 | 1.31 | 9.97 | 7.73 | 43.50 | 4.31 |
| 1971-72 | 44 | 1.31 | 9.77 | 7.52 | 44.65 | 4.36 |
| 1972-73 | 47 | 1.33 | 10.21 | 7.75 | 43.12 | 4.40 |
| 1973-74 | 41 | 1.27 | 9.75 | 7.75 | 44.73 | 4.36 |