

*Sent to
Jim Street*

10400

Rerun - 2/61 - 150
October 2, 1958
File 12.19

WATER HOLDING CHARACTERISTICS
OF SOME CALIFORNIA SOILS

by
L. J. Booher and Clyde E. Houston

The determinations of soil-moisture characteristics shown in this report have been summarized in order to give farm advisors a better understanding of the quantities of water that can be retained in California soils. It should be recognized that the quantities shown apply only to the particular soil sampled. However, the range of values shown should give an indication of the water holding characteristics of similar soils from other locations. These data are a start in our desire to obtain more complete information about the water holding properties of California soils.

The soil moisture characteristics shown in this report were compiled from tests conducted in the laboratories of the Department of Irrigation at Davis and in the Department of Soils and Plant Nutrition at Berkeley. Soil samples submitted for testing were collected by farm advisors, soil surveyors and by the field staff of the State Department of Water Resources. Mr. William T. Beeman, Senior Laboratory Technician with the Agricultural Extension Service, did a large portion of the laboratory work at Davis and assembled the data from other sources. Dr. Esther P. Perry, of the Department of Soils and Plant Nutrition, was in charge of the laboratory work performed in Berkeley.

The soils are listed in alphabetical order. The soil series and soil type shown were taken from existing soil surveys for the areas where the samples were collected. The county from which each soil was collected and the depth or depths of sampling are also indicated.

Field Capacity (F. C.) can be defined as the amount of water retained in a deep well drained soil after it has been wetted and drainage has taken place. This condition is generally reached in a deep, uniform, permeable well drained soil 24 to 48 hours after it has been irrigated. The values shown for F. C. in this report are, in most cases, based on laboratory determinations of the Moisture Equivalent of the soils. The moisture equivalent is the per cent of water, based on the dry weight of the soil, retained in a wetted soil after it has been exposed to a centrifugal force of 1,000 times gravity for a period of 30 minutes. This value approximates the field capacity for loam soils, is slightly higher for clay soils and is sometimes lower than the field capacity for sands. Whenever the moisture equivalent was determined to be less than 10 per cent the soil was also tested to determine its 1/3 atmosphere (bar) suction value. This was often found to be slightly higher than the moisture equivalent, and in those cases was used as the field capacity of the soil in this report. Even the 1/3 atmosphere suction value is probably lower than the field capacity of some coarse textured soils.

Permanent Wilting Percentage (P.W.P.) is the per cent of moisture remaining in the soil when plants wilt and fail to recover turgidity when placed in a high humidity chamber. This was determined by growing dwarf sunflower

plants in the soil in containers placed in the greenhouse. The plant was allowed to proliferate until four mature leaves were obtained, at which time the soil was brought up to field capacity, the can was sealed with cotton around the lid opening, and allowed to wilt. This wilting period ranged from four days to a week. When wilting occurred the plants were placed in a humid chamber overnight. If the mature leaves remained wilted (flaccid and curled) the plant was considered to be permanently wilted. However, if the plants regained turgidity, the can was again placed in the sunlight until wilting recurred, at which time the above procedure was repeated. The per cent moisture retained in the soil was then determined, correction being made for the weight of plant roots and the amount of moisture which they contained.

Estimated Bulk Density (d) is the weight of a given volume of dry soil. This can be expressed in grams per cubic centimeter, pounds per cubic foot or any other comparable units. The bulk density of the soil must be known in order to convert the percentage of available water (F.C. - P.W.P.) into depth of water for a given depth of soil.

There are no simple methods of determining the bulk density of undisturbed soils in place. In removing samples from the field errors are introduced in the measurement. For this reason the bulk densities shown in this report were estimated, unless otherwise stated. A graph was prepared from the assumed relation between the moisture equivalent and bulk density which follows:

| <u>Texture</u> | <u>Estimated Bulk Density gms/cc</u> | <u>Moisture Equivalent Range</u> |
|----------------|--------------------------------------|----------------------------------|
| Water | 1.00 | ----- |
| Clay | 1.15 - 1.25 | 40 - 20% |
| Loam | 1.25 - 1.35 | 20 - 10% |
| Sand | 1.35 - 1.50 | 10 - 3% |
| Rock | 2.65 | ----- |

While it is recognized that there are probably errors in the above table, the errors are probably no greater than those obtained in using present methods of making measurements of bulk density. Compacted soils have a higher bulk density than shown, but if the true values were used this would result in a greater calculated amount of available water being stored in the soil; whereas roots are usually not able to penetrate compacted soils with the result that less water is actually available to the plants.

Inches of Available Water per Foot Depth of Soil. The formula for calculating the inches depth of available water per foot depth of soil is as follows:

$$\frac{F.C. - P.W.P.}{100} \times d \times 12 = \text{inches of available water per foot depth of soil}$$

where d is the bulk density of the soil.

Soils containing coarse gravel were screened before testing. The inches of available water per foot depth of soil were corrected to allow for the volume of gravel screened from these soils.

Legend

- + , the 1/3 bar suction value was used as the field capacity instead of the moisture equivalent.
- (), measured field bulk density or volume weight.
- !, inches of available water per foot depth of soil has been corrected for volume of rock.

SOIL SERIES

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|-------------------|-------------|-------------------|----------------|----------------|----------------------|----------------------------------|
| <u>ADELANTO</u> | | | | | | |
| Sand | Los Angeles | 0 - 24 24 - 72 | 9.54% 11.10 | 4.80% 5.87 | 1.36 1.34 | 0.72! 0.77! |
| " | " | 0 - 24 24 - 72 | 6.83 8.35 | 3.64 4.42 | 1.40 1.37 | 0.49! 0.56! |
| <u>AHWAHNEE</u> | | | | | | |
| Coarse Sandy Loam | Fresno | 0 - 10 10 - 36 | 12.3 11.6 | | (1.6) (1.6) | 1.52 1.23 |
| <u>AIKEN</u> | | | | | | |
| Loam | Butte | 0 - 12 | 33.03 | 20.37 | 1.18 | 1.79 |
| Stony Clay Loam | Placer | 0 - 12 | 21.33 | 8.90 | 1.24 | 1.85 |
| " " | | 0 - 12 | 24.25 | 13.44 | 1.22 | 1.58 |
| " " | | 0 - 12 | 22.41 | 9.32 | 1.23 | 1.95 |
| " " | | 0 - 12 | 22.43 | 11.05 | 1.23 | 1.69 |
| " " | | 0 - 12 | 24.05 | 13.61 | 1.22 | 1.53 |
| " " | | 0 - 12 | 25.88 | 13.57 | 1.21 | 1.79 |
| " " | | 0 - 12 | 27.26 | 15.00 | 1.21 | 1.78 |
| " " | | 0 - 12 | 19.11 | 9.30 | 1.26 | 1.48 |
| Clay Loam | Placer | 0 - 12 12 - 24 | 33.61 29.69 | 21.07 20.38 | 1.18 1.19 | 1.78 1.34 |
| " " | | 0 - 8 | 29.38 | 20.11 | 1.20 | 1.33 |
| " " | | 0 - 12 | 28.33 | 19.57 | 1.20 | 1.26 |
| " " | | 0 - 12 | 36.59 | 19.51 | 1.17 | 2.40 |
| " " | | 0 - 12 | 40.29 | 26.43 | 1.15 | 1.91 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|------------------------------|-------------|-----------------|--------|--------|----------------------|----------------------------------|
| <u>AIKEN (continued)</u> | | | | | | |
| Clay Loam | Placer | 0 - 12 | 21.86 | 10.60 | 1.24 | 1.68 |
| " | " | 0 - 12 | 33.81 | 21.30 | 1.18 | 1.77 |
| (Winkleman) | " | 0 - 12 | 28.43 | | | |
| | | 12 - 24 | 25.76 | | | |
| | | 24 - 36 | 27.11 | | | |
| | | 36 - 48 | 29.98 | | | |
| (Caldwell) | " | 0 - 12 | 28.06 | | | |
| | | 12 - 24 | 27.00 | | | |
| | | 24 - 36 | 28.35 | | | |
| | | 36 - 48 | 30.36 | | | |
| <u>AIKEN - SHALLOW PHASE</u> | | | | | | |
| --- | Placer | --- | 25.06% | 12.26% | 1.22 | 1.87 |
| " | | | 32.10 | 14.66 | 1.18 | 2.47 |
| " | | | 23.69 | 9.83 | 1.23 | 2.05 |
| " | | | 22.24 | 7.94 | 1.24 | 2.13 |
| " | | | 20.84 | 9.82 | 1.24 | 1.64 |
| " | | | 31.35 | 18.78 | 1.19 | 1.79 |
| " | | | 18.08 | 7.88 | 1.27 | 1.55 |
| " | | | 23.64 | 13.65 | 1.22 | 1.46 |
| " | | | 27.84 | 16.23 | 1.20 | 1.67 |
| <u>ALAMO</u> | | | | | | |
| Clay Loam | Yuba | 0 - 12 | 25.25 | 9.59 | | |
| Adobe | | 12 - 24 | 23.61 | 9.55 | | |
| <u>ALTAMONT</u> | | | | | | |
| Fine Sandy Loam | Los Angeles | 0 - 12 | 14.88% | 7.83% | 1.30 | 1.10 |
| | | 12 - 18 | 14.66 | 7.59 | 1.30 | 1.10 |
| | | 18 - 24 | 16.62 | 8.58 | 1.28 | 1.23 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|-----------------------------|-------------|-----------------|--------|--------|----------------------|----------------------------------|
| <u>ALTAMONT (continued)</u> | | | | | | |
| Loam | Los Angeles | 0 - 15 | 18.70 | 9.78 | 1.26 | 1.35 |
| | | 15 - 27 | 18.32 | 10.15 | 1.26 | 1.25 |
| | | 27 - 42 | 19.16 | 9.35 | 1.26 | 1.48 |
| " | " | 0 - 24 | 25.91 | 14.59 | 1.21 | 1.64 |
| | | 24 - 54 | 26.37 | 14.66 | 1.21 | 1.70 |
| Silty Clay Loam | Sonoma | 12 - 24 | 22.36 | 12.04 | 1.23 | 1.52 |
| Clay Loam | Los Angeles | 0 - 30 | 20.92 | 11.29 | 1.24 | 1.43 |
| | | 30 - 50 | 24.70 | 12.76 | 1.22 | 1.75 |
| " | " | 0 - 30 | 32.11 | 18.37 | 1.18 | 1.95 |
| | | 30 - 50 | 36.53 | 20.56 | 1.17 | 2.24 |
| " | " | 0 - 18 | 28.26 | 17.58 | 1.20 | 1.54 |
| | | 18 - 36 | 28.09 | 17.15 | 1.20 | 1.58 |
| " | " | 0 - 24 | 21.65 | 12.30 | 1.24 | 1.39 |
| | | 24 - 48 | 25.50 | 14.48 | 1.21 | 1.60 |
| " | " | 0 - 24 | 28.54 | 14.95 | 1.20 | 1.96 |
| | | 24 - 60 | 32.88 | 17.45 | 1.18 | 2.18 |
| Clay | Los Angeles | 0 - 18 | 19.70 | 11.43 | 1.25 | 1.24 |
| | | 18 - 30 | 23.28 | 12.91 | 1.23 | 1.53 |
| | | 30 - 40 | 24.18 | 13.39 | 1.22 | 1.58 |
| " | " | 0 - 15 | 11.23 | 5.94 | 1.34 | 0.85 |
| | | 15 - 36 | 16.34 | 9.31 | 1.26 | 1.45 |
| <u>ALVISO</u> | | | | | | |
| Clay | Monterey | 0 - 16 | 55.15% | 37.40% | 1.10 | 2.34 |
| <u>AMADOR</u> | | | | | | |
| Loam | Stanislaus | 0 - 6 | 19.7% | 6.83% | 1.25 | 1.93 |
| | | 6 - 13 | 19.6 | 7.76 | 1.26 | 1.79 |
| <u>ANTIOCH</u> | | | | | | |
| Fine Sandy Loam | Monterey | 0 - 16 | 19.44% | 8.46% | 1.26 | 1.66 |
| Clay Loam | San Joaquin | 0 - 12 | 18.72 | 9.66 | 1.26 | 1.37 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|----------------------------------|------------|---|--|----------------|--|--|
| <u>ARBUCKLE</u> | | | | | | |
| Gravelly Loam | Glenn | 0 - 13 13 - 21 21 - 32 32 - 60 | 16.1 16.3 16.9 17.4 | | (1.6) (1.7) (1.6) --- | |
| <u>ARVIN</u> | | | | | | |
| Sandy Loam | Fresno | 0 - 36 36 - 72 | 4.4 4.2 | 1.42 1.62 | 1.46 1.47 | 0.52 0.46 |
| Fine Sandy Loam (alkaline phase) | " | 0 - 36 36 - 72 | 15.2 29.2 | 11.03 10.91 | (77.5#) (78.2#) | 0.62 2.77 |
| Very Fine Sandy Loam | " | 0 - 36 36 - 72 | 25.9 18.2 | 6.41 4.49 | (73.2#) (78.2#) | 2.74 2.06 |
| Loamy Fine Sand | " | 0 - 36 36 - 72 | 11.7 8.9 | 3.44 3.74 | 1.32 1.37 | 1.31 0.85 |
| Loam F | " | 0 - 36 36 - 72 | 16.9 19.1 | 7.88 | 1.28 | 1.39 |
| <u>ATWELL</u> | | | | | | |
| --- | Humboldt | 0 - 6 6 - 17 17 - 30 30 - 40 40 - 45 45 - 55 | 33.4 29.0 26.6 23.2 23.7 19.3 | | (1.2) (1.3) --- --- (1.8) (2.0) | 2.42 2.06 1.58 1.33 2.10 1.97 |
| <u>AUBERRY</u> | | | | | | |
| Sandy Loam | Fresno | 0 - 7 7 - 12 12 - 16 16 - 35 35 - 42 42+ | 13.3 15.8 16.0 16.9 16.2 9.10 | | (1.5) (1.6) (1.7) (1.8) (1.6) 1.4 | 1.30 1.93 1.86 1.87 2.05 0.85 |
| <u>AUBURN</u> | | | | | | |
| Stony Loam | Stanislaus | 0 - 6 | 19.7% | 7.80% | 1.25 | 1.79 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|---------------------------|--------|--|---|---|--------------------------------------|--------------------------------------|
| <u>AUBURN (continued)</u> | | | | | | |
| Stony Loam | Yuba | 0 - 12 12 - 24 | 21.97 21.50 | 9.23 9.35 | 1.24 1.24 | 1.90 1.81 |
| " " | " | 0 - 12 12 - 24 | 23.18 22.27 | 9.85 10.67 | 1.23 1.24 | 1.97 1.73 |
| Loam | Placer | 0 - 7 7 - 27 27 - 35 | 17.7 18.9 22.2 | | 1.4 1.4 1.4 | 2.4 2.2 2.4 |
| Clay Loam | " | 0 - 12 12 - 25 25 - 33 | 18.0 19.2 18.3 | | 1.4 1.4 1.4 | 2.4 2.3 2.1 |
| <u>AYAR</u> | | | | | | |
| Clay | Glenn | 0 - 10 10 - 41 | 31.1 30.6 | 17.1 15.7 | 1.19 1.19 | 2.00 2.13 |
| <u>BALE</u> | | | | | | |
| Gravelly Loam | Napa | 0 - 12 12 - 24 | 18.5 18.0 | 10.0 13.0 | 1.38 1.60 | 1.41 0.96 |
| Loam | " | 0 - 12 | 21.83 | 9.06 | 1.24 | 1.90 |
| <u>BEAR</u> | | | | | | |
| Loam | Yuba | 0 - 12 12 - 24 24 - 36 36 - 48 48 - 60 | 18.99 18.22 17.59 15.77 13.61 | 9.20 9.01 8.72 7.25 6.47 | 1.26 1.27 1.27 1.29 1.31 | 1.48 1.40 1.35 1.32 1.12 |
| " " | " | 0 - 12 12 - 24 24 - 36 36 - 48 48 - 60 | 21.96 22.37 19.67 22.75 22.58 | 10.90 11.42 10.11 11.95 12.40 | | |
| " " | " | 0 - 12 12 - 24 24 - 36 36 - 48 48 - 60 | 22.19 19.78 21.08 21.08 20.76 | 9.71 10.25 10.28 10.75 10.65 | | |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|-------------------------|------------|-----------------|-------|--------|----------------------|----------------------------------|
| <u>BEAR (continued)</u> | | | | | | |
| Loam | Fresno | 0 - 36 | 28.3 | 12.49 | 1.20 | 2.28 |
| | | 36 - 72 | 23.8 | 12.25 | 1.22 | 1.69 |
| Gravelly Clay Loam | Stanislaus | 0 - 6 | 20.3 | | 1.6 | 2.13 |
| | | 6 - 21 | 22.0 | | 1.8 | 2.87 |
| | | 21 - 36 | 22.0 | | 1.8 | 2.17 |
| | | 36 - 53 | 19.2 | | 1.7 | --- |
| <u>BENMORE</u> | | | | | | |
| Clay Loam | Lake | 0 - 7 | 22.6 | 7.5 | 1.23 | 1.90 |
| | | 7 - 21 | 25.5 | 10.9 | 1.21 | 2.06 |
| | | 21 - 37 | 22.5 | 8.0 | 1.23 | 1.45 |
| | | 37 - 41 | 21.4 | 7.7 | 1.24 | 2.04 |
| <u>BERRENDAS</u> | | | | | | |
| Clay | Tehama | --- | 29.18 | 18.80 | 1.20 | 1.50 |
| | | --- | 32.92 | 19.37 | 1.18 | 1.92 |
| <u>BOTELLA</u> | | | | | | |
| Silty Clay Loam | Monterey | Ridge - 6 | 30.29 | 16.57 | 1.19 | 1.96 |
| | | 6 - 18 | 31.77 | 19.82 | 1.18 | 1.69 |
| | | 24 - 30 | 32.96 | | | |
| " | " | Ridge - 6 | 29.67 | 17.25 | 1.19 | 1.77 |
| | | 12 - 18 | 32.20 | 19.61 | 1.18 | 1.78 |
| | | 24 - 30 | 34.04 | | | |
| " | " | Ridge - 6 | 27.94 | 11.85 | 1.20 | 2.32 |
| | | 0 - 6 | 28.67 | 12.14 | 1.20 | 2.38 |
| | | 6 - 12 | 27.76 | 12.16 | 1.20 | 2.25 |
| | | 12 - 18 | 27.49 | 11.86 | 1.20 | 2.25 |
| | | 18 - 24 | 28.85 | 12.84 | 1.20 | 2.31 |
| | | 24 - 30 | 29.77 | 13.79 | 1.20 | 2.30 |
| | | 30 - 36 | 30.07 | 14.94 | 1.19 | 2.18 |
| | | 36 - 42 | 30.06 | --- | 1.19 | --- |
| " | " | Ridge | 28.60 | | | |
| | | 0 - 6 | 29.04 | | | |
| | | 6 - 12 | 28.35 | | | |
| | | 12 - 18 | 27.42 | | | |
| | | 18 - 24 | 28.13 | | | |
| | | 24 - 30 | 29.37 | | | |
| | | 30 - 36 | 29.74 | | | |
| | | 36 - 42 | 29.59 | | | |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|----------------------------|----------|-----------------|-------|--------|----------------------|----------------------------------|
| <u>BOTELIA (continued)</u> | | | | | | |
| Silty Clay Loam | Monterey | Ridge | 29.20 | 11.44 | 1.20 | 2.56 |
| | | 0 - 6 | 29.44 | 11.76 | 1.20 | 2.55 |
| | | 6 - 12 | 30.90 | 13.48 | 1.19 | 2.50 |
| | | 12 - 18 | 31.82 | 14.66 | 1.18 | 2.43 |
| | | 18 - 24 | 30.80 | 14.61 | 1.19 | 2.33 |
| | | 24 - 30 | 30.46 | 14.74 | 1.19 | 2.26 |
| | | 30 - 36 | 29.70 | 13.98 | 1.19 | 2.26 |
| | | 36 - 42 | 31.19 | --- | 1.18 | --- |
| " | " | Ridge | 28.61 | | | |
| | | 0 - 6 | 28.93 | | | |
| | | 6 - 12 | 29.44 | | | |
| | | 12 - 18 | 31.38 | | | |
| | | 18 - 24 | 31.05 | | | |
| | | 24 - 30 | 30.35 | | | |
| | | 30 - 36 | 30.38 | | | |
| | | 36 - 42 | 29.91 | | | |
| " | " | Ridge - 6 | 29.30 | 17.97 | 1.20 | 1.63 |
| | | 12 - 18 | 30.91 | 19.16 | 1.19 | 1.69 |
| | | 24 - 30 | 29.57 | --- | --- | --- |
| " | " | Ridge - 6 | 28.04 | 15.97 | 1.20 | 1.74 |
| | | 12 - 18 | 30.12 | 19.76 | 1.19 | 1.49 |
| | | 24 - 30 | 31.84 | --- | --- | --- |
| " | " | 0 - 6 | | 15.44 | | |
| | | 6 - 12 | | 15.45 | | |
| | | 12 - 18 | | 15.71 | | |
| | | 18 - 24 | | 16.77 | | |
| " | " | 0 - 6 | | 15.12 | | |
| | | 6 - 12 | | 14.65 | | |
| | | 12 - 18 | | 15.44 | | |
| | | 18 - 24 | | 17.37 | | |
| " | " | 0 - 6 | | 16.46 | | |
| | | 6 - 12 | | 16.62 | | |
| | | 12 - 18 | | 16.79 | | |
| | | 18 - 24 | | 15.76 | | |
| " | " | 0 - 6 | | 13.82 | | |
| | | 6 - 12 | | 16.33 | | |
| | | 12 - 18 | | 17.55 | | |
| | | 18 - 24 | | 17.16 | | |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|----------------------------|----------|-----------------|-------|--------|----------------------|----------------------------------|
| <u>BOTELIA (continued)</u> | | | | | | |
| Silty Clay Loam | Monterey | 0 - 6 | 23.42 | 9.81 | 1.23 | 2.01 |
| | | 6 - 12 | 23.26 | 10.07 | 1.23 | 1.95 |
| | | 12 - 18 | 23.64 | 10.24 | 1.23 | 1.98 |
| | | 18 - 24 | 24.21 | 10.75 | 1.22 | 1.97 |
| | | 24 - 30 | 26.16 | 11.01 | 1.21 | 2.20 |
| | | 30 - 36 | 27.87 | 12.92 | 1.20 | 2.15 |
| | | 36 - 42 | 26.79 | 13.18 | 1.21 | 1.98 |
| | | 42 - 48 | 25.26 | 12.07 | 1.21 | 1.92 |
| " | " | 0 - 6 | 23.48 | 10.33 | 1.23 | 1.94 |
| | | 6 - 12 | 23.44 | 10.06 | 1.23 | 1.97 |
| | | 12 - 18 | 24.01 | 10.39 | 1.22 | 1.99 |
| | | 18 - 24 | 24.24 | 10.90 | 1.22 | 1.95 |
| | | 24 - 30 | 26.35 | 10.84 | 1.21 | 2.25 |
| | | 30 - 36 | 27.86 | 12.01 | 1.20 | 2.28 |
| | | 36 - 42 | 26.89 | 11.88 | 1.21 | 2.18 |
| | | 42 - 48 | 24.98 | 11.14 | 1.22 | 2.03 |
| " | " | 0 - 6 | 22.49 | 9.83 | 1.23 | 1.87 |
| | | 6 - 12 | 22.34 | 10.13 | 1.23 | 1.80 |
| | | 12 - 18 | 22.68 | 10.02 | 1.23 | 1.87 |
| | | 18 - 24 | 22.34 | 10.06 | 1.23 | 1.81 |
| | | 24 - 30 | 24.75 | 9.54 | 1.22 | 2.23 |
| | | 30 - 36 | 26.82 | 9.63 | 1.21 | 2.50 |
| | | 36 - 42 | 26.25 | 10.44 | 1.21 | 2.30 |
| | | 42 - 48 | 23.93 | 11.66 | 1.22 | 1.80 |
| " | " | 0 - 6 | 23.53 | 11.38 | 1.23 | 1.79 |
| | | 6 - 12 | 24.04 | 11.66 | 1.22 | 1.81 |
| | | 12 - 18 | 22.76 | 11.52 | 1.23 | 1.66 |
| | | 18 - 24 | 23.26 | 11.18 | 1.23 | 1.78 |
| | | 24 - 30 | 25.44 | 13.32 | 1.21 | 1.76 |
| | | 30 - 36 | 24.38 | 12.59 | 1.22 | 1.73 |
| | | 36 - 42 | 23.92 | 12.19 | 1.22 | 1.72 |
| | | 42 - 48 | 24.55 | 10.56 | 1.22 | 2.05 |
| " | " | 0 - 6 | 24.13 | 10.56 | 1.22 | 1.99 |
| | | 6 - 12 | 24.53 | 11.31 | 1.22 | 1.94 |
| | | 12 - 18 | 23.26 | 10.55 | 1.23 | 1.88 |
| | | 18 - 24 | 25.11 | 12.52 | 1.22 | 1.84 |
| | | 24 - 30 | 24.08 | 12.11 | 1.22 | 1.76 |
| | | 30 - 36 | 22.66 | 11.45 | 1.23 | 1.65 |
| | | 36 - 42 | 21.50 | 11.07 | 1.24 | 1.55 |
| | | 42 - 48 | 22.02 | 10.95 | 1.24 | 1.65 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|----------------------------|--------------|-----------------|-------|--------|----------------------|----------------------------------|
| <u>BOTELIA (continued)</u> | | | | | | |
| Silty Clay Loam | Monterey | 0 - 6 | 22.99 | 9.89 | 1.23 | 1.93 |
| | | 6 - 12 | 22.92 | 10.24 | 1.23 | 1.87 |
| | | 12 - 18 | 22.19 | 9.56 | 1.24 | 1.88 |
| | | 18 - 24 | 21.72 | 9.26 | 1.24 | 1.85 |
| | | 24 - 30 | 21.89 | 9.25 | 1.24 | 1.88 |
| | | 30 - 36 | 22.87 | 9.95 | 1.23 | 1.91 |
| | | 36 - 42 | 25.82 | 10.98 | 1.21 | 2.15 |
| | | 42 - 48 | 25.80 | 11.69 | 1.21 | 2.05 |
| " | " | 0 - 6 | 25.35 | 12.01 | 1.21 | 1.94 |
| | | 6 - 12 | 26.06 | 12.31 | 1.21 | 2.00 |
| | | 12 - 18 | 24.25 | 11.12 | 1.22 | 1.91 |
| | | 18 - 24 | 26.56 | 12.18 | 1.21 | 2.09 |
| | | 24 - 30 | 27.24 | 13.86 | 1.21 | 1.94 |
| | | 30 - 36 | 24.46 | 12.67 | 1.22 | 1.73 |
| | | 36 - 42 | 22.53 | 11.64 | 1.23 | 1.61 |
| | | 42 - 48 | 22.28 | 11.25 | 1.23 | 1.63 |
| " | " | 0 - 6 | 24.13 | 11.02 | 1.22 | 1.92 |
| | | 6 - 12 | 24.24 | 11.23 | 1.22 | 1.90 |
| | | 12 - 24 | 23.77 | 11.26 | 1.22 | 1.83 |
| | | 24 - 30 | 24.68 | 11.55 | 1.22 | 1.92 |
| | | 30 - 36 | 25.69 | 12.30 | 1.21 | 1.94 |
| | | 36 - 42 | 22.21 | 11.36 | 1.24 | 1.61 |
| | | 42 - 48 | 20.94 | 10.64 | 1.24 | 1.53 |
| | | 48 - 52 | 19.30 | 10.43 | 1.26 | 1.34 |
| <u>BRENTWOOD</u> | | | | | | |
| Clay Loam | Contra Costa | 0 - 8 | 25.75 | 16.03 | 1.21 | 1.41 |
| | | 8 - 20 | 26.47 | 16.35 | 1.21 | 1.47 |
| | | 20 - 50 | 26.44 | 16.43 | 1.21 | 1.45 |
| | | 50 - 76 | 26.62 | 17.04 | 1.21 | 1.39 |
| " | " | 0 - 12 | 21.28 | 12.57 | 1.24 | 1.30 |
| | | 12 - 30 | 21.01 | 11.95 | 1.24 | 1.35 |
| | | 30 - 60 | 21.85 | 11.67 | 1.24 | 1.51 |
| | | 62 - 96 | 27.23 | 16.61 | 1.21 | 1.54 |
| <u>BUNNELL</u> | | | | | | |
| Rocky Gravelly Loam | Glenn | 0 - 7 | 16.8 | --- | 1.28 | 1.33 |
| | | 7 - 23 | 15.9 | --- | 1.29 | 1.13 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|-----------------|--------|-----------------|--------|--------|----------------------|----------------------------------|
| Fine Sand | Lassen | 0 - 12 | 14.44 | 6.91 | 1.30 | 1.17 |
| | | 12 - 24 | 11.21 | 9.58 | 1.34 | 0.26 |
| | | 24 - 36 | 13.65 | 9.51 | 1.31 | 0.65 |
| | | 36 - 48 | 12.19 | 9.40 | 1.32 | 0.44 |
| " | " | 0 - 12 | 17.09 | 9.92 | (1.34) | 1.15 |
| | | 12 - 24 | 21.84 | 13.19 | (1.56) | 1.62 |
| | | 24 - 36 | 18.38 | 12.92 | (1.44) | 0.94 |
| | | 36 - 48 | 14.46 | 10.81 | (1.64) | 0.72 |
| | | 48 - 60 | 13.22 | 9.75 | (1.68) | 0.70 |
| " | " | 0 - 12 | 16.96 | 10.65 | 1.28 | 0.97 |
| (shallow phase) | | 12 - 24 | 22.89 | 16.28 | 1.23 | 0.98 |
| | | 24 - 36 | 17.62 | 11.88 | 1.27 | 0.87 |
| | | 36 - 48 | 16.37 | 11.59 | 1.28 | 0.73 |
| | | 48 - 60 | 15.40 | 11.22 | 1.29 | 0.65 |
| | | 60 - 66 | 18.45 | 11.65 | 1.26 | 1.03 |
| | | 66 - 72 | 43.67 | 20.54 | 1.14 | 3.16 |
| | | 72 - 84 | 85.46 | 30.09 | 1.08 | 7.20 |
| " | " | 0 - 12 | 16.91 | 10.81 | 1.28 | 0.94 |
| | | 12 - 24 | 24.19 | 14.62 | 1.22 | 1.40 |
| | | 24 - 36 | 15.95 | 11.82 | 1.29 | 0.64 |
| | | 36 - 48 | 14.23 | 10.89 | 1.30 | 0.52 |
| | | 48 - 60 | 16.55 | 8.70 | 1.28 | 1.21 |
| | | 60 - 66 | 16.81 | 9.00 | 1.28 | 1.20 |
| | | 66 - 72 | 54.64 | 23.80 | 1.10 | 4.07 |
| | | 72 - 84 | 84.32 | 32.98 | 1.08 | 6.65 |
| " | " | 0 - 12 | 18.24 | 11.42 | 1.27 | 1.04 |
| | | 12 - 24 | 19.88 | 13.37 | 1.25 | 0.98 |
| | | 24 - 36 | 18.58 | 13.68 | 1.26 | 0.74 |
| | | 36 - 48 | 14.20 | 11.28 | 1.30 | 0.46 |
| | | 48 - 60 | 13.12 | 10.01 | 1.31 | 0.49 |
| | | 60 - 66 | 19.81 | 10.26 | 1.25 | 1.43 |
| | | 66 - 72 | 58.16 | 19.60 | 1.09 | 5.04 |
| | | 72 - 84 | 97.85 | 35.91 | 1.04 | 7.73 |
| " | " | 0 - 12 | 17.71 | 10.37 | 1.27 | 1.12 |
| | | 12 - 24 | 22.14 | 14.52 | 1.24 | 1.13 |
| | | 24 - 36 | 19.76 | 13.35 | 1.25 | 0.96 |
| | | 36 - 48 | 13.56 | 9.85 | 1.31 | 0.58 |
| | | 48 - 60 | 13.88 | 10.03 | 1.30 | 0.60 |
| | | 60 - 66 | 19.83 | 10.45 | 1.25 | 1.40 |
| | | 66 - 72 | 52.58 | 24.61 | 1.09 | 3.66 |
| | | 72 - 84 | 104.65 | 35.44 | 1.02 | 8.47 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|-----------------------|-------------|-----------------|--------|--------|----------------------|----------------------------------|
| <u>BUTTE</u> | | | | | | |
| Sandy Loam | Lake | 0 - 4 | 28.4 | 9.2 | 1.20 | 2.62 |
| | | 4 - 11 | 20.0 | 6.5 | 1.25 | 1.73 |
| | | 11 - 24 | 16.5 | 5.9 | 1.28 | 1.18 |
| | | 24 - 38 | 13.0 | 6.0 | 1.31 | 1.04 |
| | | 38+ | 11.8 | 5.8 | 1.32 | 0.95 |
| <u>CA JON</u> | | | | | | |
| Sand | Los Angeles | 0 - 18 | 12.63 | 6.06 | 1.32 | 1.04 |
| | | 18 - 36 | 11.51 | 5.48 | 1.33 | 0.96 |
| | | 36 - 60 | 13.71 | 6.47 | 1.30 | 1.13 |
| " | " | 0 - 18 | 8.32+ | 4.07 | 1.38 | 0.70 |
| | | 18 - 36 | 7.10+ | 3.52 | 1.40 | 0.57! |
| | | 36 - 60 | 7.92+ | 4.01 | 1.38 | 0.65 |
| Fine Sandy Loam | " | 0 - 18 | 8.90+ | 3.69 | 1.37 | 0.86 |
| | | 18 - 36 | 9.67+ | 3.96 | 1.35 | 0.85! |
| | | 36 - 60 | 11.39 | 5.17 | 1.33 | 0.99 |
| " | Tulare | 0 - 6 | 17.97 | 6.63 | 1.27 | 1.73 |
| | | 6 - 12 | 17.09 | 7.41 | 1.28 | 1.49 |
| | | 12 - 24 | 14.94 | 5.93 | 1.30 | 1.41 |
| | | 24 - 36 | 19.29 | 7.71 | 1.26 | 1.75 |
| | | 36 - 48 | 20.44 | 6.72 | 1.25 | 2.06 |
| <u>CA JON/MADEIRA</u> | | | | | | |
| Fine Sandy Loam | Tulare | 0 - 12 | 21.00% | 10.86% | 1.24 | 1.51 |
| | | 12 - 24 | 17.81 | 7.87 | 1.27 | 1.51 |
| | | 24 - 36 | 14.78 | 6.95 | 1.30 | 1.22 |
| | | 36 - 48 | 14.28 | 6.84 | 1.30 | 1.16 |
| " | " | 0 - 12 | 19.20 | 10.55 | 1.26 | 1.31 |
| | | 12 - 24 | 17.66 | 8.56 | 1.27 | 1.39 |
| | | 24 - 36 | 16.10 | 7.53 | 1.29 | 1.33 |
| | | 36 - 48 | 16.38 | 7.85 | 1.28 | 1.31 |
| " | " | 0 - 12 | 20.12 | 10.78 | 1.25 | 1.32 |
| | | 12 - 24 | 16.41 | 7.96 | 1.28 | 1.30 |
| | | 24 - 36 | 15.86 | 7.47 | 1.29 | 1.30 |
| | | 36 - 48 | 14.88 | 7.21 | 1.30 | 1.20 |
| " | " | 0 - 12 | 20.34 | 10.29 | 1.25 | 1.51 |
| | | 12 - 24 | 18.46 | 8.32 | 1.26 | 1.53 |
| | | 24 - 36 | 15.94 | 7.32 | 1.29 | 1.33 |
| | | 36 - 48 | 16.40 | 7.56 | 1.28 | 1.36 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|--------------------------|--------|-------------------------------------|-------|--------|----------------------|----------------------------------|
| <u>CHINO (continued)</u> | | | | | | |
| Silty Clay Loam | Tulare | 0 - 12 | 29.03 | 14.94 | 1.19 | 2.01 |
| | | 12 - 24 | 25.27 | 13.92 | 1.22 | 1.66 |
| | | 24 - 36 | 26.63 | 11.49 | 1.21 | 2.20 |
| | | 36 - 48 | 21.66 | 10.43 | 1.24 | 1.67 |
| " | " | 0 - 12 | 28.67 | 15.84 | 1.19 | 1.97 |
| | | 12 - 24 | 26.63 | 15.39 | 1.20 | 1.63 |
| | | 24 - 36 | 25.30 | 14.12 | 1.21 | 1.64 |
| | | 36 - 48 | 25.52 | 13.26 | 1.21 | 1.78 |
| " | " | 0 - 12 | 26.49 | 15.66 | 1.20 | 1.56 |
| | | 12 - 24 | 23.90 | 12.76 | 1.22 | 1.63 |
| | | 24 - 36 | 22.11 | 11.54 | 1.23 | 1.56 |
| | | 36 - 48 | 20.88 | 9.42 | 1.25 | 1.72 |
| " | " | 0 - 12 | 27.71 | 17.01 | 1.20 | 1.54 |
| | | 12 - 24 | 27.17 | 15.06 | 1.20 | 1.74 |
| | | 24 - 36 | 24.87 | 13.53 | 1.22 | 1.66 |
| | | 36 - 48 | 24.21 | 12.42 | 1.22 | 1.73 |
| " | " | 0 - 12 | 28.28 | 16.56 | 1.19 | 1.67 |
| | | 12 - 24 | 27.83 | 15.88 | 1.19 | 1.71 |
| | | 24 - 36 | 26.18 | 13.57 | 1.21 | 1.83 |
| | | 36 - 48 | 25.74 | 13.75 | 1.20 | 1.73 |
| " | " | 0 - 12 | 28.89 | 15.88 | 1.20 | 1.87 |
| | | 12 - 24 | 26.70 | 14.40 | 1.21 | 1.79 |
| | | 24 - 36 | 23.45 | 11.47 | 1.23 | 1.77 |
| | | 36 - 48 | 26.20 | 13.42 | 1.21 | 1.86 |
| " | " | 0 - 12 | 29.93 | 15.83 | 1.19 | 2.01 |
| | | 12 - 24 | 28.78 | 15.99 | 1.20 | 1.84 |
| | | 24 - 36 | 25.72 | 12.48 | 1.21 | 1.92 |
| | | 36 - 48 | 25.25 | 12.38 | 1.22 | 1.57 |
| " | " | 0 - 12 | 28.83 | 15.06 | 1.20 | 1.98 |
| | | 12 - 24 | 26.93 | 14.38 | 1.21 | 1.82 |
| | | 24 - 36 | 23.90 | 12.24 | 1.22 | 1.71 |
| | | 36 - 48 | 23.79 | 11.65 | 1.22 | 1.78 |
| " | " | 0 - 12 | 26.01 | 14.25 | 1.21 | 1.69 |
| | | 12 - 24 | 22.93 | 12.04 | 1.23 | 1.61 |
| | | 24 - 36 | 19.47 | 10.36 | 1.26 | 1.38 |
| | | 36 - 48 | 18.91 | 9.11 | 1.26 | 1.48 |
| Clay Loam | " | 0 - 9 $\frac{1}{2}$ | 28.85 | 14.88 | 1.20 | 2.01 |
| | | 9 $\frac{1}{2}$ - 17 $\frac{1}{2}$ | 27.82 | 14.52 | 1.20 | 1.92 |
| | | 17 $\frac{1}{2}$ - 24 $\frac{1}{2}$ | 21.02 | 10.92 | 1.24 | 1.50 |
| | | 24 - 31 | 19.44 | 10.17 | 1.26 | 1.40 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|------|--------|-----------------|------|--------|----------------------|----------------------------------|
|------|--------|-----------------|------|--------|----------------------|----------------------------------|

CHIQUITO

| | | | | | | |
|------------|--------|---------|------|-----|-------|-----|
| Stony | Fresno | 0 - 5 | 13.0 | --- | 1.31 | --- |
| Clay Sandy | | 5 - 14 | 13.0 | --- | (1.5) | --- |
| Loam | | 14 - 22 | 12.3 | --- | 1.32 | --- |

CHUALAR

| | | | | | | |
|------------|------------|---------|--------|-------|-------|------|
| Sandy Loam | Monterey | --- | 14.40% | 6.43% | 1.30 | 1.24 |
| " | Stanislaus | 0 - 6 | 7.2 | --- | (1.6) | 0.81 |
| | | 6 - 14 | 8.3 | --- | (1.7) | 0.96 |
| | | 14 - 24 | 8.2 | --- | (1.7) | 0.90 |
| | | 24 - 32 | 10.6 | --- | (1.9) | 1.25 |
| | | 32 - 48 | 13.1 | --- | (1.9) | 1.57 |
| | | 48 - 58 | 13.3 | --- | (1.9) | 1.55 |
| | | 58 - 72 | 7.9 | --- | (1.6) | 0.75 |
| Loam | Monterey | 0 - 15 | 12.85 | 5.61 | 1.31 | 1.14 |

CLIMAX

| | | | | | | |
|------|-----------|---------|------|-----|-------|------|
| Clay | Mendocino | 0 - 3 | 27.2 | --- | (1.9) | 2.44 |
| | | 3 - 17 | 29.4 | --- | (1.9) | 2.49 |
| | | 17 - 27 | 34.3 | --- | (1.9) | 3.60 |
| | | 27 - 37 | 26.5 | --- | (1.9) | — |

COACHELLA

| | | | | | | |
|-----|-----------|-----|------|------|------|------|
| --- | Riverside | --- | 4.67 | 1.92 | 1.46 | 0.48 |
| | | | 3.67 | 1.55 | 1.49 | 0.37 |

COLUMBIA

| | | | | | | |
|-----------------|-------|---------|------|------|--------|------|
| Sand | Yuba | 0 - 12 | 3.21 | 1.47 | 1.50 | 0.31 |
| | | 12 - 24 | 3.02 | 1.55 | 1.50 | 0.26 |
| | | 24 - 36 | 1.23 | 0.81 | 1.58 | 0.08 |
| | | 36 - 48 | 1.29 | 0.81 | 1.58 | 0.09 |
| | | 48 - 60 | 3.96 | 1.38 | 1.47 | 0.46 |
| Fine Sandy Loam | Glenn | 0 - 9 | 19.4 | --- | (1.45) | --- |
| | | 9 - 14 | 22.7 | --- | (1.30) | --- |
| | | 14 - 28 | 19.4 | --- | (1.20) | --- |
| | | 28 - 39 | 31.1 | --- | (1.40) | --- |
| | | 39 - 58 | 33.1 | --- | (1.25) | --- |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|-----------------------------|------------|--|---|---|--------------------------------------|--------------------------------------|
| <u>COLUMBIA (continued)</u> | | | | | | |
| Fine Sandy Loam | Glenn | 0 - 20 20 - 42 42 - 60 | 31.7 21.9 17.4 | 11.3 8.8 7.4 | 1.18 1.24 1.27 | 2.90 1.95 1.55 |
| " | Placer | --- | 9.84 | 4.52 | 1.36 | 0.87 |
| Very Fine Sandy Loam | Glenn | 0 - 12 12 - 23 23 - 34 34 - 60 | 26.2 33.1 30.8 36.0 | 9.4 12.2 13.6 11.5 | 1.21 1.18 1.19 1.17 | 2.44 2.96 2.46 3.44 |
| Silt Loam | Yuba | 0 - 12 12 - 24 24 - 36 36 - 48 48 - 60 | 27.5 35.0 33.4 26.1 22.6 | 10.7 13.7 13.7 11.2 10.2 | 1.20 1.17 1.18 1.21 1.23 | 2.42 2.99 2.79 2.16 1.83 |
| Loam | Tehama | --- | 21.85 24.83 | 11.14 14.63 | 1.23 1.22 | 1.59 1.49 |
| " | Yuba | 0 - 12 12 - 24 24 - 36 36 - 48 48 - 60 | 26.54 17.02 25.51 27.70 28.47 | 12.38 8.78 11.26 11.82 12.95 | 1.21 1.28 1.21 1.20 1.20 | 2.06 1.27 2.07 2.29 2.23 |
| " | " | 0 - 12 12 - 24 24 - 36 36 - 48 48 - 60 | 29.93 36.71 30.39 37.20 36.04 | 11.60 15.22 13.00 12.03 17.66 | 1.19 1.17 1.19 1.17 1.17 | 2.62 3.02 2.48 3.53 2.58 |
| Loam | Tehama | 6 - 24 24 - 44 | 22.53 27.70 | 11.53 15.69 | | |
| " | Stanislaus | 0 - 7 7 - 13 13 - 40 40 - 60 | 30.0 24.1 12.0 18.8 | 11.4 9.9 4.7 --- | (1.3) (1.4) (1.4) (1.5) | 2.45 2.20 0.86 1.98 |

COMETA

| | | | | | | |
|-------------------|------------|---------------------------------------|---------------------------------|------------------------------|--------------------------------------|------------------------------|
| Coarse Sandy Loam | Stanislaus | 0 - 6 6 - 18 18 - 24 24 - 30 | 9.41 10.12 14.48 10.01 | 2.83 4.94 7.75 5.55 | (1.73) (1.82) (1.85) (1.81) | 1.37 1.13 1.49 0.97 |
|-------------------|------------|---------------------------------------|---------------------------------|------------------------------|--------------------------------------|------------------------------|

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|-------------------------|-------------|-----------------|-------|--------|----------------------|----------------------------------|
| <u>CONE</u> | | | | | | |
| Very Gravelly Loam | Tehama | 0 - 3 | 80.3 | | | |
| | | 3 - 7 | 59.8 | | | |
| | | 7 - 31 | 36.3 | | | |
| | | 31 - 70 | 36.7 | | | |
| Very Gravelly Silt Loam | " | 0 - 8 | 39.1 | | | |
| <u>CONEJO</u> | | | | | | |
| Gravelly Loam | San Benito | 0 - 12 | 22.57 | 11.34 | 1.23 | 1.66 |
| | | 12 - 24 | 22.69 | 11.11 | 1.23 | 1.71 |
| Clay Loam | Solano | 0 - 16 | 24.90 | 13.67 | 1.22 | 1.64 |
| | | 16 - 32 | 24.23 | 12.85 | 1.22 | 1.67 |
| | | 32 - 48 | 18.08 | 10.17 | 1.27 | 1.20 |
| Clay Adobe | Santa Clara | 6 - 36 | 34.40 | 18.30 | 1.17 | 2.26 |
| | | 36 - 48 | 30.59 | 15.57 | 1.19 | 2.14 |
| | | 48 - 96 | 23.72 | 11.60 | 1.22 | 1.77 |
| <u>CONTRA COSTA</u> | | | | | | |
| Clay Loam | Glenn | 0 - 5 | 24.6 | --- | (1.6) | 1.90 |
| | | 5 - 12 | 24.3 | --- | (1.7) | 1.90 |
| | | 12 - 21 | 24.2 | --- | (1.8) | 1.88 |
| | | 21 - 34 | 23.9 | --- | (1.8) | 2.03 |
| <u>CORNING</u> | | | | | | |
| Gravelly Loam | Placer | --- | 11.97 | 4.63 | 1.32 | 1.16 |
| " | " | --- | 15.59 | 9.19 | 1.29 | 0.99 |
| " | " | --- | 12.74 | 4.72 | 1.31 | 1.26 |
| " | " | --- | 12.19 | 4.67 | 1.32 | 1.19 |
| " | Sonoma | 12 - 24 | 24.07 | 15.41 | (1.22) | 1.21! |
| | | 24 - 36 | 33.21 | 16.00 | (1.18) | 2.43 |
| Gravelly Sandy Loam | Stanislaus | 0 - 8 | 10.4 | --- | (1.9) | 1.98 |
| | | 8 - 16 | 11.9 | --- | (1.9) | 1.48 |
| | | 16 - 26 | 13.2 | --- | (1.9) | 1.14 |
| | | 26 - 39 | 15.8 | --- | 1.29 | 1.07 |
| | | 39+ | 16.1 | --- | 1.29 | 1.25 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|----------------------------|------------|-----------------|-------|--------|----------------------|----------------------------------|
| <u>CORNING (continued)</u> | | | | | | |
| Gravelly | Glenn | 0 - 13 | 14.12 | 4.7 | 1.30 | 1.46 |
| Sandy Loam | | 13 - 26 | 36.8 | 17.5 | 1.21 | 1.37 |
| | | 26 - 40 | 27.9 | 12.7 | 1.20 | 2.19 |
| | | 40 - 60 | 30.8 | 15.5 | 1.19 | 2.09 |
| Sandy | Glenn | 0 - 12 | 14.8 | 5.2 | 1.30 | 1.50 |
| Loam | Sonoma | 12 - 24 | 20.81 | 13.30 | (1.24) | 1.12 |
| | | 24 - 36 | 20.99 | 13.44 | (1.24) | 1.12 |
| " | | 36 - 60 | 23.45 | 16.41 | (1.22) | 1.03 |
| " | Glenn | 0 - 15 | 26.0 | 15.6 | 1.21 | 1.45 |
| | | 15 - 30 | 27.0 | 16.5 | 1.21 | 1.54 |
| | | 30 - 60 | 26.8 | 17.1 | 1.20 | 1.56 |
| <u>CORTINA</u> | | | | | | |
| Very Gravelly | Glenn | 0 - 8 | 8.7 | --- | 1.37 | --- |
| Sandy Loam | | 8 - 32 | 8.2 | --- | 1.38 | --- |
| | | 32 - 60 | 3.4 | --- | 1.49 | --- |
| Gravelly Loamy Sand | " | 0 - 12 | 8.6 | 3.4 | 1.38 | 0.83 |
| | | 12 - 36 | 7.0 | 3.4 | 1.40 | 0.62 |
| <u>DAULTON</u> | | | | | | |
| Sandy Loam | Fresno | 0 - 36 | 9.7 | 3.30 | (83.4#) | 1.02 |
| | | 36 - 72 | 11.5 | 4.10 | 1.33 | 1.18 |
| Fine Sandy Loam | " | 0 - 36 | 12.6 | 3.83 | (72.0#) | 1.21 |
| | | 36 - 72 | 13.3 | 4.20 | (72.0) | 1.26 |
| Loam | " | 0 - 36 | 11.3 | 3.40 | (70.0#) | 1.06 |
| | | 36 - 72 | 12.6 | 3.83 | (72.0#) | 1.21 |
| <u>DELHI</u> | | | | | | |
| Sand | Stanislaus | 0 - 12 | 4.20 | 1.4 | 1.5 | 0.64 |
| | | 12 - 24 | 3.5 | 1.3 | (1.7) | 0.45 |
| | | 24 - 60 | 3.5 | 1.4 | (1.3) | 0.43 |
| <u>DENVERTON</u> | | | | | | |
| Clay Adobe | Solano | 0 - 16 | 31.57 | 19.00 | 1.18 | 1.78 |
| | | 16 - 32 | 31.87 | 16.33 | 1.18 | 2.20 |
| | | 32 - 48 | 31.45 | 17.52 | 1.18 | 1.97 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|---------------------------|-------------|-----------------|-------|--------|----------------------|----------------------------------|
| <u>DUBLIN (continued)</u> | | | | | | |
| Clay | Santa Clara | 6 - 12 | 30.97 | 17.61 | 1.19 | 1.91 |
| Adobe | | 12 - 24 | 29.48 | 17.39 | 1.20 | 1.74 |
| | | 24 - 48 | 25.04 | 13.74 | 1.22 | 1.61 |
| | | 48 - 72 | 20.09 | 11.44 | 1.25 | 1.30 |
| <u>DUCOR</u> | | | | | | |
| Adobe | Tulare | 0 - 12 | 22.53 | 12.28 | 1.23 | 1.51 |
| Clay | | 12 - 24 | 22.11 | 12.24 | 1.24 | 1.47 |
| " | " | 0 - 12 | 30.59 | 16.08 | 1.19 | 2.07 |
| | | 12 - 24 | 29.49 | 17.43 | 1.20 | 1.74 |
| Clay | " | --- | 26.56 | 14.4 | 1.21 | 1.77 |
| Adobe | " | 0 - 6 | 20.76 | 9.66 | 1.25 | 1.67 |
| <u>EGBERT</u> | | | | | | |
| Clay | Solano | 0 - 6 | 48.2 | | | |
| | | 6 - 12 | 51.0 | | | |
| | | 12 - 18 | 54.6 | | | |
| | | 18 - 24 | 55.8 | | | |
| " | " | 0 - 6 | 51.1 | | | |
| | | 6 - 12 | 52.3 | | | |
| | | 12 - 18 | 55.6 | | | |
| | | 18 - 24 | 56.3 | | | |
| " | " | 0 - 6 | 49.4 | | | |
| | | 6 - 12 | 52.9 | | | |
| | | 12 - 18 | 51.9 | | | |
| | | 18 - 24 | 51.1 | | | |
| <u>ELDER</u> | | | | | | |
| Gravelly Sandy Loam | Siskiyou | 0 - 12 | 12.66 | 5.03 | (1.31) | 1.20 |
| | | 12 - 24 | 12.30 | 5.58 | (1.46) | 1.18 |
| | | 24 - 36 | 9.51 | 5.09 | (1.50) | 0.80 |
| | | 36 - 48 | 9.60 | 4.58 | (1.42) | 0.86 |
| | | 48 - 60 | 8.71 | 4.03 | (1.42) | 0.80 |
| | | 60 - 72 | 11.32 | 4.51 | (1.48) | 1.21 |
| | | 72 - 84 | 9.67 | 4.14 | (1.55) | 1.03 |

| Type | County | Depth Inches | F.G. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|--------------------------|----------|--|---|--|--|--|
| <u>ELDER (continued)</u> | | | | | | |
| Gravelly Sandy Loam | Siskiyou | 0 - 12 12 - 24 24 - 36 36 - 48 48 - 60 60 - 72 72 - 84 | 20.51 16.40 14.26 11.20 11.23 9.32 7.65 | 7.35 7.14 6.46 5.16 4.79 3.51 3.36 | (1.25) (1.44) (1.42) (1.32) (1.17) (1.62) (1.60) | 1.97 1.60 1.33 0.96 0.85 1.13 0.82 |
| " " | " | 0 - 12 12 - 24 24 - 36 36 - 48 48 - 60 60 - 72 72 - 84 | 19.87 16.43 13.12 10.84 9.86 9.70 8.45 | 7.02 6.64 5.86 4.69 4.67 4.36 3.82 | (1.26) (1.38) (1.26) (1.23) (1.30) (1.41) (1.48) | 1.94 1.62 1.10 0.91 0.81 0.90 0.82 |
| " " | " | 0 - 12 12 - 24 24 - 36 36 - 48 48 - 60 60 - 72 | 14.54 14.07 11.93 8.12 8.28 8.52 | 5.73 6.63 5.24 4.24 4.02 4.25 | (1.31) (1.44) (1.46) (1.41) (1.41) (1.54) | 1.38 1.29 1.17 0.66 0.72 0.79 |
| Silt Loam | Glenn | 0 - 14 14 - 26 26 - 38 38 - 50 50 - 62 62 - 74 74 - 84 | 24.74 25.09 23.27 21.46 20.31 17.32 17.29 | 12.07 11.97 12.04 10.14 9.25 6.81 6.72 | (1.33) (1.40) (1.42) (1.56) (1.57) (1.56) (1.59) | 2.02 2.20 1.91 2.12 2.08 1.97 2.02 |
| " " | " | 0 - 14 14 - 26 26 - 38 38 - 50 50 - 62 62 - 74 74 - 84 | 20.98 --- 21.63 20.74 20.61 20.04 23.38 | 9.92 10.92 10.43 8.74 7.62 6.96 6.89 | (1.43) (1.59) (1.40) (1.54) (1.45) (1.43) (1.35) | 1.90 1.88 1.88 2.22 2.26 2.24 2.67 |
| Silty Loam | Siskiyou | 0 - 14 14 - 26 26 - 38 38 - 50 50 - 62 62 - 74 74 - 84 | 24.74 25.09 23.27 21.46 20.31 17.32 17.29 | 12.07 11.97 12.04 10.14 9.25 6.81 6.72 | (1.33) (1.40) (1.42) (1.56) (1.57) (1.56) (1.59) | 2.02 2.20 1.91 2.12 2.08 1.97 2.02 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|--------------------------|----------|-----------------|-------|--------|----------------------|----------------------------------|
| <u>ELDER (continued)</u> | | | | | | |
| Silty Loam | Siskiyou | 0 - 14 | 20.98 | 9.92 | (1.43) | 1.90 |
| | | 14 - 26 | --- | 10.92 | (1.59) | 1.88 |
| | | 26 - 38 | 21.63 | 10.43 | (1.40) | 1.88 |
| | | 38 - 50 | 20.74 | 8.74 | (1.54) | 2.22 |
| | | 50 - 62 | 20.61 | 7.62 | (1.45) | 2.26 |
| | | 62 - 74 | 20.04 | 6.96 | (1.43) | 2.24 |
| | | 74 - 84 | 23.38 | 6.89 | (1.35) | 2.67 |
| Loam | Monterey | Ridge - 6 | 27.51 | 16.57 | 1.20 | 1.58 |
| | | 12 - 18 | 29.41 | 16.42 | 1.20 | 1.87 |
| | | 24 - 30 | 28.07 | 17.71 | 1.20 | 1.49 |
| " | " | Ridge - 6 | 29.00 | 17.54 | 1.20 | 1.65 |
| | | 12 - 18 | 29.26 | 17.95 | 1.20 | 1.63 |
| | | 24 - 30 | 28.14 | 17.34 | 1.20 | 1.56 |
| <u>ELKHORN</u> | | | | | | |
| Sand | Monterey | 0 - 24 | 5.63 | 3.42 | 1.43 | 0.38 |
| <u>EMPIRE</u> | | | | | | |
| Clay Loam | Humboldt | 0 - 24 | 38.05 | 22.62 | (1.16) | 2.15 |
| " | " | 0 - 30 | 29.38 | 19.97 | (1.19) | 1.34 |
| <u>ESPARTO</u> | | | | | | |
| Silty Clay Loam | Solano | 0 - 16 | 21.27 | 12.77 | 1.24 | 1.26 |
| | | 16 - 32 | 22.39 | 13.32 | 1.24 | 1.35 |
| | | 32 - 48 | 21.97 | 12.60 | 1.24 | 1.39 |
| " | " | 0 - 16 | 24.64 | 13.08 | 1.22 | 1.69 |
| | | 16 - 32 | 24.60 | 12.33 | 1.22 | 1.80 |
| | | 32 - 48 | 22.59 | 12.45 | 1.23 | 1.50 |
| " | " | 0 - 16 | 22.67 | 12.21 | 1.23 | 1.54 |
| | | 16 - 32 | 22.76 | 12.19 | 1.23 | 1.56 |
| | | 32 - 48 | 22.93 | 12.07 | 1.23 | 1.60 |
| " | " | 0 - 16 | 22.97 | 12.53 | 1.23 | 1.54 |
| | | 16 - 32 | 24.81 | 15.04 | 1.22 | 1.43 |
| | | 32 - 48 | 25.20 | 15.31 | 1.22 | 1.45 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|------|--------|-----------------|------|--------|----------------------|----------------------------------|
|------|--------|-----------------|------|--------|----------------------|----------------------------------|

EXCHEQUER

| | | | | | | |
|------------|--------|--------|------|-----|-----|-----|
| Stony Loam | Placer | 0 - 12 | 19.0 | --- | 1.4 | 2.8 |
| Loam | " | 0 - 12 | 19.7 | --- | 1.4 | 2.9 |

FARWELL

| | | | | | | |
|------------|-------|--------|-------|-------|------|------|
| Sandy Loam | Butte | 0 - 12 | 25.04 | 12.73 | 1.22 | 1.80 |
| " | " | 0 - 12 | 24.22 | 12.16 | 1.22 | 1.77 |
| " | " | 0 - 12 | 24.96 | --- | --- | --- |

FERNDALE

| | | | | | | |
|-----------------|----------|--------|-------|-------|--------|------|
| Sandy Loam | Humboldt | 0 - 36 | 11.39 | 5.10 | (1.33) | 1.00 |
| Fine Sandy Loam | " | 0 - 18 | 24.48 | 13.63 | 1.22 | 1.59 |
| " | " | 0 - 18 | 22.78 | 12.16 | 1.23 | 1.57 |
| Silt Loam | " | 0 - 36 | 28.26 | 11.47 | (1.20) | 2.42 |
| " | " | 0 - 18 | 25.51 | 15.97 | 1.22 | 1.40 |

FLOURNOY

| | | | | | | |
|-----------|-------|---------|-------|-------|------|------|
| Clay Loam | Glenn | 0 - 10 | 24.22 | 11.94 | 1.22 | 1.80 |
| | | 10 - 26 | 32.19 | 16.56 | 1.18 | 2.21 |
| | | 26 - 42 | 30.92 | 15.95 | 1.19 | 2.11 |
| | | 42 - 60 | 29.96 | 14.27 | 1.19 | 2.24 |

FORGEUS

| | | | | | | |
|------|-------|---------|------|------|-----|------|
| Clay | Glenn | 0 - 8 | 31.1 | 15.0 | 1.7 | 2.30 |
| | | 8 - 25 | 29.3 | 14.6 | 1.8 | 2.12 |
| | | 25 - 35 | 31.5 | 14.9 | 1.9 | 2.37 |

FORWARD

| | | | | | | |
|------------|--------|---------|------|-----|-----|------|
| Sandy Loam | Tehama | 0 - 1 | 17.6 | 6.1 | 1.1 | 1.52 |
| | | 1 - 7 | 15.4 | 4.5 | 1.2 | 1.57 |
| | | 7 - 15 | 13.8 | 4.1 | 1.3 | 1.51 |
| | | 15 - 24 | 12.1 | 3.7 | 1.3 | 1.31 |
| | | 24+ | 13.2 | --- | --- | --- |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|------|--------|-----------------|------|--------|----------------------|----------------------------------|
|------|--------|-----------------|------|--------|----------------------|----------------------------------|

FORWARD VARIENT

| | | | |
|-----------------|--------|---------|------|
| Sandy Loam | Tehama | 0 - 2 | 22.9 |
| | | 2 - 10 | 19.3 |
| | | 10 - 22 | 18.3 |
| Sandy Clay Loam | | 22 - 36 | 18.6 |
| | | 36 - 56 | 17.9 |

FOSTER

| | | | | | | |
|-----------------|-----------|--|---|--|--|--|
| Fine Sandy Loam | Kings | --- | 6.22 9.34 | 2.7 3.7 | 1.42 1.37 | 0.60 0.93 |
| " | San Diego | --- | 9.62 9.73 | --- | 1.36 1.35 | --- |
| " | Tulare | 0 - 12 12 - 24 24 - 36 36 - 48 48 - 60 | 13.7 12.4 11.4 11.7 15.3 | 6.3 5.7 5.4 5.4 6.9 | 1.30 1.32 1.33 1.32 1.30 | 1.15 1.06 0.96 1.00 1.31 |
| " | " | 0 - 36 36 - 72 | 8.1 13.7 | 3.02 4.28 | (63.8#) (65.5#) | 0.62 1.19 |
| Loam | Fresno | 0 - 36 36 - 72 | 13.4 11.9 | 5.05 4.56 | (94.5) (93.0) | 1.51 1.31 |
| " | Tulare | 0 - 12 12 - 24 24 - 36 36 - 48 48 - 60 60 - 72 72 - 84 84 - 96 96 - 108 108 - 120 | 17.9 14.9 11.3 10.7 9.4 11.6 14.2 13.6 13.8 10.8 | 7.82 6.12 5.05 4.76 4.10 5.10 5.83 5.79 5.07 4.74 | 1.27 1.30 1.33 1.34 1.36 1.33 1.30 1.31 1.30 1.34 | 1.54 1.37 1.00 0.96 0.86 1.04 1.31 1.23 1.36 0.97 |

FRESNO

| | | | | | | |
|------------|------------|---|------------------------------|------|------|------|
| Sand | Stanislaus | 0 - 12 | 10.17 | 2.79 | 1.34 | 1.19 |
| Sandy Loam | " | 0 - 36 36 - 72 | 10.6 18.9 | | | |
| " | " | 0 - 12 12 - 24 24 - 36 36 - 48 | 8.26 7.81 8.01 8.36 | | | |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|---------------------------|------------|-----------------|-------|--------|----------------------|----------------------------------|
| <u>FRESNO (continued)</u> | | | | | | |
| Sandy Loam | Stanislaus | 0 - 12 | 6.12 | | | |
| | | 12 - 24 | 5.18 | | | |
| | | 24 - 36 | 5.14 | | | |
| | | 36 - 48 | 5.12 | | | |
| " | " | 0 - 12 | 9.76 | | | |
| | | 12 - 24 | 9.16 | | | |
| | | 24 - 36 | 9.31 | | | |
| | | 36 - 48 | 10.35 | | | |
| " | " | 0 - 12 | 8.31 | | | |
| | | 12 - 24 | 7.11 | | | |
| | | 24 - 36 | 7.18 | | | |
| | | 36 - 48 | 7.15 | | | |
| " | " | 0 - 12 | 10.4 | 3.2 | 1.34 | 1.16 |
| | | 12 - 24 | 10.3 | 3.3 | 1.34 | 1.13 |
| | | 24 - 36 | 10.7 | 3.4 | 1.34 | 1.17 |
| | | 36 - 48 | 12.4 | 3.5 | 1.32 | 1.41 |
| | | 48 - 60 | 13.9 | 3.5 | 1.30 | 1.62 |
| " | Fresno | 0 - 12 | 9.20 | | | |
| | | 12 - 24 | 7.84 | | | |
| | | 24 - 36 | 7.82 | | | |
| | | 36 - 48 | 8.09 | | | |
| " | " | 0 - 12 | 8.11 | | | |
| | | 12 - 24 | 9.08 | | | |
| | | 24 - 36 | 8.16 | | | |
| | | 36 - 48 | 7.90 | | | |
| " | " | 0 - 12 | 8.08 | | | |
| | | 12 - 24 | 8.36 | | | |
| | | 24 - 36 | 9.20 | | | |
| | | 36 - 42 | 7.60 | | | |
| " | " | 0 - 12 | 7.49 | | | |
| | | 12 - 24 | 8.04 | | | |
| | | 24 - 36 | 8.83 | | | |
| | | 36 - 42 | 7.60 | | | |
| " | " | 0 - 12 | 7.55 | | | |
| | | 12 - 24 | 7.50 | | | |
| Fine Sandy Loam | Stanislaus | 0 - 12 | 9.28 | 2.68 | 1.36 | 1.08 |
| | | 12 - 24 | 8.28 | 2.60 | 1.38 | 0.94 |
| | | 24 - 36 | 8.25 | 2.73 | 1.38 | 0.91 |
| | | 36 - 48 | 8.22 | 2.71 | 1.38 | 0.91 |
| | | 48 - 60 | 8.62 | 3.00 | 1.37 | 0.92 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|------|--------|-----------------|------|--------|----------------------|----------------------------------|
|------|--------|-----------------|------|--------|----------------------|----------------------------------|

FRESNO (continued)

| | | | | | | |
|-----------------|-------------|--|---|---------------|---|--|
| Fine Sandy Loam | Stanislaus | $\frac{1}{4}$ - 5 5 - 10 10 - 18 18 - 29 29 - 38 38 - 40 ? | 13.2 9.8 11.2 15.4 16.7 11.1 15.0 | --- | (1.8) (1.9) (1.8) (1.7) (1.7) (1.7) (1.8) | 2.24 3.21 3.30 4.18 3.98 2.84 3.93 |
| Loamy Fine Sand | " | 0 - 36 36 - 72 | 7.1 23.4 | 2.45 7.21 | 1.40 1.23 | 0.78 2.39 |
| Loam | " | 0 - 36 36 - 72 | 15.8 18.3 | 5.91 7.21 | 1.29 1.26 | 1.53 1.68 |
| Clay Loam | San Joaquin | 0 - 6 | 28.4 | 13.13° | 1.20 | 2.08 |
| " | Fresno | 0 - 36 36 - 72 | 37.0 15.3 | 13.78 6.34 | 1.17 1.29 | 3.26 1.39 |
| Clay | " | 0 - 36 36 - 72 | 18.9 --- | --- | --- | --- |
| | | | | 12.80 | --- | --- |

GARNETT

| | | | | | | |
|------|-------|---------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Clay | Glenn | 0 - 1 1 - 11 11 - 22 22 - 31 | 28.1 28.3 26.7 26.9 | 17.6 17.8 17.4 16.6 | 1.20 1.20 1.21 1.21 | 1.51 1.51 1.35 1.50 |
|------|-------|---------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|

GENEVERA

| | | | | | | |
|------|-------|---------------------------------------|------------------------------|-----|----------------------------------|-----|
| Clay | Glenn | 0 - 9 9 - 33 33 - 45 45 - 60 | 31.6 31.6 30.8 28.8 | --- | (1.8) (1.9) (1.9) (1.7) | --- |
|------|-------|---------------------------------------|------------------------------|-----|----------------------------------|-----|

GILA

| | | | | | | |
|----------------|-----------|--------|------|------|------|------|
| Very Fine Sand | Riverside | 0 - 12 | 7.85 | 2.62 | 1.38 | 0.87 |
|----------------|-----------|--------|------|------|------|------|

GLENHAVEN

| | | | | | | |
|--------------------|------|--|--------------------------------------|-----|--------------------------------------|--------------------------------------|
| Fine Gravelly Loam | Lake | 0 - 8 8 - 18 18 - 29 29 - 45 45 - 51 | 23.1 17.6 17.8 18.6 19.0 | --- | 1.23 1.27 1.27 1.26 1.26 | 1.36 0.91 0.81 0.95 0.85 |
|--------------------|------|--|--------------------------------------|-----|--------------------------------------|--------------------------------------|

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|--------------------|-----------------|---|--|--|--|--|
| <u>GLENVIEW</u> | | | | | | |
| Slightly Gravelly | Lake Loam | 0 - 3 3 - 15 15 - 27 27 - 43 | 26.1 25.0 29.6 25.6 | 11.6 11.4 21.3 20.6 | 1.21 1.22 1.20 1.21 | 2.11 1.99 1.43 1.48 |
| <u>GLOYD</u> | | | | | | |
| Gravelly | Lake Loam | 0 - 3 3 - 13 13 - 21 21 - 29 | 29.0 27.1 25.6 24.0 | 12.7 13.0 13.5 13.3 | 1.20 1.21 1.21 1.22 | 2.35 2.05 1.76 1.57 |
| <u>GOLD RIDGE</u> | | | | | | |
| Fine Sandy | Sonoma Loam | 0 - 12 12 - 24 24 - 36 36 - 48 48 - 60 60 - 72 | 10.0 10.0 10.3 16.2 22.2 20.3 | 3.3 3.0 2.9 8.9 10.7 10.2 | 1.35 1.35 1.35 1.29 1.24 1.25 | 1.09 1.13 1.20 1.13 1.71 1.52 |
| <u>GOULDING</u> | | | | | | |
| Very Gravelly | Glenn Loam | 0 - 4 4 - 16 | 21.3 21.1 | --- | 1.24 1.24 | 1.72 1.61 |
| <u>GRANGEVILLE</u> | | | | | | |
| Very Fine Sandy | Stanislaus Loam | 0 - 7 7 - 20 20 - 40 40 - 60 | 22.3 21.1 18.6 18.0 | 6.9 7.6 6.0 --- | (1.3) (1.3) (1.2) 1.27 | 2.40 2.11 1.81 1.75 |
| <u>GREENFIELD</u> | | | | | | |
| Sand | Monterey | 0 - 16 | 8.90 | 4.13 | 1.37 | 0.78 |
| Gravelly Loamy | Fresno Sand | 0 - 36 36 - 72 | 6.8 6.8 | 2.16 2.75 | (91.4#) (101.6#) | 0.87 0.79 |
| Gravelly Loamy | " Fine Sand | 0 - 36 36 - 72 | 7.1 7.2 | 2.24 2.69 | 1.40 1.40 | 0.82 0.76 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|-------------------------------|------------|--|-------------------------------------|------------------------------|---|--------------------------------------|
| <u>GREENFIELD (continued)</u> | | | | | | |
| Loamy Sand | Fresno | 0 - 36 36 - 72 | 5.4 4.2 | 1.83 1.80 | (86.4#) (91.4#) | 0.59 0.45 |
| Loamy Fine Sand | " | 0 - 36 36 - 72 | 9.6 12.3 | 3.08 3.76 | 1.36 1.32 | 1.06 1.35 |
| Gravelly Sandy Loam | " | 0 - 36 36 - 72 | 6.7 5.7 | 2.41 2.22 | 1.40 1.42 | 0.72 0.59 |
| Gravelly Fine Sandy Loam | " | 0 - 36 36 - 72 | 8.0 4.6 | 2.36 1.47 | 1.38 1.45 | 0.93 0.54 |
| Coarse Sandy Loam | Monterey | 0 - 15 | 13.15 | 5.61 | 1.31 | 1.19 |
| " | " | 0 - 12 12 - 24 24 - 36 36 - 48 | 8.04 8.35 10.03 9.22 | 3.17 3.24 4.26 4.51 | 1.38 1.37 1.35 1.37 | 0.81 0.84 0.93 0.77 |
| " | " | 0 - 12 12 - 24 24 - 36 36 - 48 | 8.29 7.43 7.50 6.05 | 3.07 3.05 3.12 3.22 | 1.38 1.39 1.39 1.42 | 0.86 0.73 0.73 0.48 |
| " | " | 0 - 12 12 - 24 24 - 36 36 - 48 | 8.98 8.57 11.05 10.04 | 3.87 3.56 4.83 4.72 | 1.37 1.37 1.34 1.35 | 0.84 0.82 1.00 0.86 |
| " | " | 0 - 12 12 - 24 24 - 36 36 - 48 | 8.85 8.94 9.18 7.50 | 3.64 3.81 4.70 3.53 | 1.37 1.37 1.37 1.39 | 0.86 0.84 0.74 0.66 |
| " | " | 0 - 12 12 - 24 24 - 36 36 - 48 | 9.61 9.01 11.10 9.97 | 3.48 4.23 5.73 5.17 | 1.36 1.37 1.34 1.35 | 1.00 0.79 0.86 0.78 |
| Sandy Loam | Stanislaus | 0 - 18 18 - 36 | 5.4 7.0 | 3.2 3.8 | 1.43 1.40 | 0.38 0.54 |
| " | " | 0 - 9 9 - 21 21 - 42 42 - 52 52 - 70 | 12.3 12.0 13.1 10.5 8.5 | --- | (1.6) (1.6) (1.7) (1.7) (1.7) | 1.71 1.56 1.77 1.39 1.10 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|-----------------|------------|--|--------------------------------------|--------------|---|-------------------------------------|
| Fine Sandy Loam | Monterey | 0 - 36 36 - 72 | 6.8 11.3 | 2.39 4.00 | (82.8#) (80.5#) | 0.70 1.13 |
| " | Stanislaus | 0 - 7 7 - 15 15 - 24 24 - 32 32 - 34 | 12.4 12.7 13.1 13.5 14.8 | --- | (1.8) (1.7) (1.5) (1.7) --- | 1.62 1.55 1.40 1.96 --- |

GRIDLEY

| | | | | | | |
|------|------|---|----------------------------------|----------------------------------|----------------------|----------------------|
| --- | Yuba | 0 - 12 12 - 24 24 - 36 | 24.85 29.00 33.62 | 10.04 17.44 18.53 | 1.22 1.20 1.18 | 2.17 1.66 2.29 |
| " | " | 0 - 1 1 - 2 | 21.53 23.04 | 9.26 11.74 | 1.24 1.23 | 1.83 1.67 |
| Loam | " | 0 - 12 12 - 24 24 - 36 36 - 48 | 22.83 22.73 24.36 24.93 | 11.25 12.24 14.43 14.23 | | |
| " | " | 0 - 12 12 - 24 24 - 36 36 - 48 | 17.36 18.99 14.43 12.65 | 6.51 6.29 5.72 5.34 | | |

GUENOC

| | | | |
|------|--------|----------------------------|----------------------|
| Loam | Tehama | 0 - 2 2 - 16 16 - 30 | 30.1 27.3 27.9 |
|------|--------|----------------------------|----------------------|

GUEGOR

| | | | | | | |
|-----------|------|---------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Clay Loam | Lake | 0 - 5 5 - 11 11 - 28 28 - 36 | 35.2 27.1 24.4 22.2 | 14.6 15.7 16.8 17.4 | 1.17 1.21 1.22 1.24 | 2.54 1.50 1.11 0.71 |
|-----------|------|---------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|

HAIGH

| | | | | | | |
|-----------------|-------|--|--------------------------------------|---------------------------------|--------------------------------------|--------------------------------------|
| Fine Sandy Loam | Glenn | 0 - 8 8 - 15 15 - 27 27 - 38 38 - 60 | 12.5 13.8 16.5 15.2 13.8 | 4.5 5.5 7.6 6.8 6.0 | 1.32 1.30 1.28 1.30 1.30 | 1.32 1.29 1.37 1.31 1.22 |
|-----------------|-------|--|--------------------------------------|---------------------------------|--------------------------------------|--------------------------------------|

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|--------------------------------|-------------|---|--|--|--|--|
| <u>HAMBRIGHT</u> | | | | | | |
| Stony Loam | Glenn | 0 - 6 6 - 16 | 23.9 23.9 | — — | 1.22 1.22 | 2.02 1.84 |
| <u>HANFORD</u> | | | | | | |
| Sand | Monterey | 0 - 12 12 - 24 | 13.01 13.29 | 6.02 6.71 | 1.31 1.31 | 1.20 1.03 |
| " | " | 0 - 16 | 10.27 | 3.90 | 1.35 | 1.03 |
| " | Los Angeles | 0 - 24 24 - 48 48 - 72 | 7.07+ 6.01+ 3.67+ | 3.94 3.27 2.77 | 1.40 1.42 1.47 | 0.44! 0.36! 0.13! |
| " | Fresno | 0 - 36 36 - 72 | 5.8 4.6 | 2.11 1.91 | (68.0#) (71.2#) | 0.48 0.37 |
| Gravelly Sand | " | 0 - 36 36 - 72 | 7.1 6.4 | 2.64 2.71 | (66.7#) (71.9#) | 0.57 0.51 |
| " | " | 0 - 36 36 - 72 | 7.2 7.0 | 2.46 3.36 | 1.40 1.40 | 0.80 0.61 |
| Gravelly Fine Sand | " | 0 - 36 36 - 72 | 7.4 2.3 | 2.31 0.88 | 1.39 1.60 | 0.85 0.27 |
| Gravelly Loamy Sand | " | 0 - 36 36 - 72 | 5.2 3.2 | 2.30 1.54 | (69.6#) (81.9#) | 0.39 0.26 |
| Gravelly Loamy Fine Sand | " | 0 - 36 36 - 72 | 7.0 6.7 | 2.33 2.62 | (77.0#) (78.9#) | 0.69 0.62 |
| Loamy Sand | " | 0 - 36 36 - 72 | 14.9 5.9 | 5.18 2.55 | (84.4) (77.5) | 1.57 0.58 |
| Loamy Fine Sand | " | 0 - 36 36 - 72 | 7.5 6.9 | 2.81 3.30 | (64.6#) (83.1#) | 0.58 0.57 |
| " | Sacramento | 0 - 12 12 - 24 24 - 36 36 - 48 48 - 60 60 - 72 | 18.6 20.2 20.0 20.7 24.0 23.4 | 7.3 8.6 9.0 9.8 11.2 11.0 | 1.42 1.42 1.42 1.42 1.42 1.42 | 1.9 2.0 1.9 1.9 2.2 2.1 |
| Loamy Sand Fresno | | 0 - 36 36 - 72 | 16.2 15.1 | 4.22 5.36 | 1.29 1.30 | 1.85 1.52 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|----------------------------|-------------|-----------------|--------|--------|----------------------|----------------------------------|
| <u>HANFORD (continued)</u> | | | | | | |
| Loamy Fine Sand | Sacramento | 0 - 12 | 20.0 | 7.4 | 1.42 | 2.1 |
| | | 12 - 24 | 18.8 | 8.3 | 1.42 | 1.8 |
| | | 24 - 36 | 22.5 | 9.0 | 1.42 | 2.3 |
| | | 36 - 48 | 22.5 | 9.8 | 1.42 | 2.2 |
| | | 48 - 60 | 25.1 | 11.5 | 1.42 | 1.4 |
| | | 60 - 72 | 23.9 | 11.5 | 1.42 | 2.1 |
| " | Fresno | 0 - 36 | 8.0 | 2.74 | (75.3#) | 0.76 |
| | | 36 - 72 | 7.9 | 2.86 | (79.1#) | 0.76 |
| Loamy Very Fine Sand | " | 0 - 36 | 11.6 | 3.76 | 1.33 | 1.25 |
| | | 36 - 72 | 11.2 | 4.33 | 1.34 | 1.10 |
| Fine Sand | Monterey | 0 - 16 | 20.01 | 8.80 | 1.25 | 1.68 |
| " | Fresno | 0 - 36 | 6.7 | 2.51 | (72.9#) | 0.59 |
| | | 36 - 72 | 6.4 | 2.99 | (80.9#) | 0.53 |
| Stony Sandy Loam | Los Angeles | 0 - 12 | 7.85+ | 4.34 | 1.38 | 0.38! |
| | | 12 - 24 | 2.96+ | 2.21 | 1.50 | 0.10! |
| | | 24 - 36 | 7.76+ | 4.17 | 1.38 | 0.49! |
| | | 36 - 48 | 3.24+ | 2.37 | 1.50 | 0.11! |
| " | " | 0 - 9 | 10.28 | 5.75 | 1.35 | 0.55! |
| | | 9 - 18 | 7.24 | 3.50 | 1.40 | 0.44! |
| | | 18 - 27 | 7.35 | 3.66 | 1.39 | 0.35! |
| Gravelly Sandy Loam | " | 0 - 18 | 10.13 | 4.52 | 1.35 | 0.64! |
| | | 18 - 36 | 8.77 | 4.16 | 1.37 | 0.53! |
| " | " | 0 - 12 | 12.02 | 6.21 | 1.32 | 0.77! |
| | | 12 - 24 | 14.61 | 7.34 | 1.30 | 0.98! |
| | | 24 - 42 | 13.77 | 7.15 | 1.30 | 0.95! |
| " | " | 0 - 18 | 9.20+ | 5.42 | 1.37 | 0.51! |
| | | 18 - 36 | 10.15+ | 4.70 | 1.35 | 0.70! |
| | | 36 - 60 | 10.51+ | 5.45 | 1.34 | 0.63! |
| " | " | 0 - 18 | 6.23+ | 3.27 | 1.41 | 0.36! |
| | | 18 - 30 | 3.82+ | 2.32 | 1.47 | 0.13! |
| " | " | 0 - 18 | 8.63+ | 3.96 | 1.37 | 0.61! |
| | | 18 - 36 | 7.48+ | 3.86 | 1.39 | 0.52! |
| | | 36 - 60 | 6.68+ | 3.64 | 1.40 | 0.51 |
| " | Fresno | 0 - 36 | 5.9 | 2.70 | (80.5#) | 0.50 |
| | | 36 - 72 | 4.8 | 2.57 | 1.45 | 0.39 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|----------------------------|-------------|-----------------|-------|--------|----------------------|----------------------------------|
| <u>HANFORD (continued)</u> | | | | | | |
| Gravelly | Fresno | 0 - 36 | 7.8 | 2.39 | (82.5#) | 0.85 |
| Fine Sandy | | 36 - 72 | 7.6 | 2.47 | (82.7#) | 0.81 |
| Loam | | | | | | |
| Sandy | Stanislaus | 0 - 12 | 7.80 | 2.82 | 1.38 | 0.82 |
| Loam | | 12 - 24 | 6.64 | 2.45 | 1.41 | 0.71 |
| | | 24 - 36 | 6.10 | 2.30 | 1.42 | 0.65 |
| | | 36 - 48 | 6.01 | 2.38 | 1.42 | 0.62 |
| " | " | 0 - 12 | 10.34 | 4.50 | 1.34 | 0.94 |
| | | 12 - 24 | 8.30 | 3.61 | 1.38 | 0.78 |
| | | 24 - 36 | 7.90 | 3.91 | 1.30 | 0.66 |
| " | " | 0 - 12 | 6.55 | 3.46 | 1.38 | 0.73 |
| | | 12 - 24 | 6.16 | 3.60 | 1.40 | 0.60 |
| | | 24 - 36 | 6.65 | 4.38 | 1.39 | 0.50 |
| " | " | 0 - 12 | 7.63 | 3.50 | 1.37 | 0.84 |
| | | 12 - 24 | 6.13 | 3.25 | 1.39 | 0.69 |
| | | 24 - 36 | 6.31 | 4.41 | 1.40 | 0.46 |
| " | Fresno | 0 - 36 | 11.3 | 3.50 | (79.5#) | 1.19 |
| | | 36 - 72 | 11.7 | 4.01 | (84.0#) | 1.23 |
| " | " | 0 - 6 | 11.9 | 5.8 | 1.32 | 0.97 |
| " | Kern | 0 - 12 | 16.0 | | | |
| | | 12 - 24 | 10.8 | | | |
| | | 24 - 36 | 12.4 | | | |
| " | " | 0 - 12 | 16.6 | | | |
| | | 12 - 24 | 24.2 | | | |
| | | 24 - 36 | 21.9 | | | |
| " | " | 0 - 12 | 16.5 | | | |
| | | 12 - 24 | 15.3 | | | |
| | | 24 - 36 | 20.4 | | | |
| " | San Joaquin | 0 - 12 | 7.14 | 3.36 | 1.40 | 0.64 |
| | | 12 - 24 | 6.73 | 3.03 | 1.40 | 0.62 |
| | | 24 - 36 | 6.59 | 2.80 | 1.41 | 0.64 |
| | | 36 - 48 | 6.32 | 2.71 | 1.41 | 0.61 |
| | | 48 - 60 | 7.00 | 2.69 | 1.40 | 0.72 |
| | | 60 - 72 | 8.41 | 2.89 | 1.37 | 0.91 |
| | | 72 - 108 | 5.96 | 2.86 | 1.42 | 0.53 |
| | | 108 - 144 | 7.25 | 3.22 | 1.39 | 0.67 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|----------------------------|---------------------------|-----------------|-------|--------|----------------------|----------------------------------|
| <u>HANFORD (continued)</u> | | | | | | |
| Sandy Loam | San Joaquin | 0 - 12 | 7.12 | 3.36 | (1.55) | 0.70 |
| | | 12 - 24 | 6.73 | 3.03 | (1.53) | 0.68 |
| | | 24 - 36 | 6.59 | 2.80 | (1.62) | 0.74 |
| | | 36 - 48 | 6.32 | 2.71 | (1.67) | 0.72 |
| | | 48 - 60 | 7.00 | 2.69 | (1.66) | 0.86 |
| | | 60 - 72 | 8.41 | 2.89 | (1.67) | 1.10 |
| | | 72 - 108 | 5.96 | 2.86 | --- | --- |
| | | 108 - 144 | 7.25 | 3.22 | --- | --- |
| " | " | 0 - 36 | 9.81 | 4.14 | 1.35 | 0.92 |
| | | 36 - 72 | 11.41 | 5.03 | 1.33 | 1.02 |
| " | " | 0 - 36 | 12.23 | 4.87 | 1.32 | 1.17 |
| | | 36 - 84 | 11.15 | 5.03 | 1.34 | 0.98 |
| " | " | 0 - 36 | 9.97 | 3.77 | 1.35 | 1.00 |
| | | 36 - 72 | 10.07 | 3.48 | 1.35 | 1.07 |
| " | " | 0 - 36 | 10.09 | 3.58 | 1.35 | 1.05 |
| | | 36 - 72 | 11.80 | 3.77 | 1.32 | 1.27 |
| " | " | 0 - 36 | 6.61 | 3.21 | 1.41 | 0.58 |
| | | 36 - 60 | 6.84 | 3.45 | 1.40 | 0.57 |
| | | 72 - 108 | 3.07 | 2.37 | 1.50 | 0.13 |
| " | " | 0 - 36 | 7.77 | 3.55 | 1.38 | 0.70 |
| | | 36 - 72 | 8.27 | 3.99 | 1.38 | 0.71 |
| " | " | 0 - 36 | 2.42 | 2.88 | 1.50 | --- |
| | | 36 - 72 | 7.49 | 3.20 | 1.39 | 0.72 |
| | | 72 - 108 | 4.00 | 2.34 | 1.47 | 0.29 |
| " | Tulare | 0 - 12 | 12.0 | 4.5 | (1.65) | 1.49 |
| | | 12 - 24 | 10.7 | 4.0 | (1.50) | 1.21 |
| | | 24 - 36 | 9.1 | 3.4 | (1.55) | 1.06 |
| | | 36 - 48 | 7.4 | 3.1 | (1.57) | 0.81 |
| | | 48 - 60 | 6.5 | 3.3 | (1.55) | 0.60 |
| | | 60 - 72 | 7.2 | 3.6 | (1.58) | 0.68 |
| " | Fresno (shallow phase) | 0 - 36 | 21.9 | 9.32 | 1.24 | 1.87 |
| | | 36 - 72 | 17.5 | 8.02 | 1.27 | 1.44 |
| " | " | 0 - 36 | 5.4 | 1.86 | 1.43 | 0.61 |
| | | 36 - 72 | 23.5 | 6.30 | 1.23 | 2.54 |
| Fine Sandy Loam | Los Angeles | 0 - 15 | 12.70 | 4.70 | 1.31 | 1.26 |
| | | 15 - 30 | 12.19 | 4.66 | 1.32 | 1.19 |
| | | 30 - 60 | 11.92 | 4.81 | 1.32 | 1.13 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|----------------------------|-------------|------------------------------|-------------------------|----------------------|-------------------------|----------------------------------|
| <u>HANFORD (continued)</u> | | | | | | |
| Fine Sandy Loam | Los Angeles | 0 - 9 9 - 24 24 - 60 | 10.86 14.20 13.13 | 4.83 5.72 5.54 | 1.34 1.30 1.31 | 0.89! 1.32 1.17 |
| " " | | 0 - 18 18 - 36 36 - 60 | 15.23 12.97 11.40 | 6.84 6.49 5.46 | 1.30 1.31 1.33 | 1.15! 0.83! 0.80! |
| " " | Fresno | 0 - 36 36 - 72 | 17.5 18.1 | 5.09 6.21 | 1.27 1.27 | 1.89 1.81 |
| " " | | 0 - 36 36 - 72 | 9.5 8.6 | 3.43 3.64 | (75.2#) (75.0#) | 0.88 0.71 |
| " " | Tulare | 0 - 12 12 - 24 | 12.74 9.36 | 3.95 3.60 | 1.31 1.36 | 1.38 0.94 |
| Very Fine Sandy Loam | Monterey | 0 - 16 | 17.99 | 7.50 | 1.27 | 1.60 |
| " " | Fresno | 0 - 36 36 - 72 | 5.6 2.9 | 1.99 1.34 | 1.43 1.50 | 0.62 0.28 |
| Loam | Los Angeles | 0 - 18 18 - 36 36 - 60 | 16.52 16.33 17.62 | 7.97 8.67 9.18 | 1.28 1.29 1.27 | 1.31 1.19 1.29 |
| " " | | 0 - 18 18 - 36 36 - 60 | 15.59 17.30 15.77 | 8.46 9.92 8.95 | 1.29 1.27 1.29 | 0.96! 1.12 1.06! |
| <u>HENNEKE</u> | | | | | | |
| Stony Clay Loam | Glenn | 0 - 3 3 - 7 7 - 22 | 34.9 36.6 45.5 | --- | (1.2) (1.2) (1.3) | 2.25 1.96 2.23 |
| Gravelly Clay Loam | Lake | 0 - 4 4 - 14 14 - 22 | 36.9 55.2 67.8 | 24.1 39.4 52.1 | 1.17 1.0 1.0 | 1.80 1.92 1.88 |
| " " | Mendocino | 0 - 5 5 - 10 | 49.2 59.2 | --- | 1.0 1.0 | 1.66 1.28 |
| <u>HERNDON</u> | | | | | | |
| Sandy Loam | Fresno | 0 - 36 36 - 72 | 6.0 5.6 | 2.48 2.61 | (80.3#) (90.9#) | 0.53 0.52 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|-----------------|-------------|-----------------|-------|--------|----------------------|----------------------------------|
| <u>HESPERIA</u> | | | | | | |
| Loamy Sand | Los Angeles | 0 - 30 | 6.39+ | 3.30 | 1.42 | 0.46+ |
| | | 30 - 60 | 5.90+ | 3.02 | 1.42 | 0.45+ |
| " | Fresno | 0 - 36 | 5.8 | 2.31 | (75.3#) | 0.50 |
| | | 36 - 72 | 3.8 | 1.89 | (87.0) | 0.32 |
| " | " | 0 - 36 | 5.7 | 2.10 | (78.7#) | 0.55 |
| | | 36 - 72 | 9.1 | 3.28 | (67.3#) | 0.74 |
| " | " | 0 - 36 | 5.7 | 2.10 | (78.7) | 0.55 |
| | | 36 - 72 | 9.1 | 3.28 | (67.3) | 0.75 |
| Fine Sand | " | 0 - 36 | 8.5 | 2.92 | 1.37 | 0.92 |
| | | 36 - 72 | 8.0 | 3.17 | 1.38 | 0.80 |
| " | " | 0 - 36 | 6.8 | 2.22 | (73.0#) | 0.64 |
| | | 36 - 72 | 5.9 | 2.67 | (75.0#) | 0.46 |
| " | " | 0 - 36 | 8.1 | 3.02 | (68.3#) | 0.66 |
| | | 36 - 72 | 13.7 | 4.28 | (71.8#) | 1.16 |
| Loamy Fine Sand | Kern | 0 - 12 | 7.0 | 4.3 | 1.40 | 0.45 |
| | | 12 - 24 | 9.7 | 5.5 | 1.35 | 0.68 |
| | | 24 - 36 | 11.0 | 6.3 | 1.34 | 0.76 |
| | | 36 - 48 | 10.4 | 5.2 | 1.34 | 0.84 |
| " | " | 0 - 12 | 8.2 | 4.8 | 1.38 | 0.56 |
| | | 12 - 24 | 10.1 | 5.9 | 1.35 | 0.68 |
| | | 24 - 36 | 10.1 | 5.4 | 1.35 | 0.76 |
| | | 36 - 48 | 8.9 | 5.1 | 1.37 | 0.62 |
| " | " | 0 - 12 | 9.7 | 5.1 | 1.35 | 1.49 |
| | | 12 - 24 | 9.8 | 5.1 | 1.35 | 0.76 |
| | | 24 - 36 | 10.2 | 5.5 | 1.35 | 0.76 |
| | | 36 - 48 | 9.6 | 5.0 | 1.35 | 0.75 |
| " | " | 0 - 12 | 8.1 | 4.8 | 1.38 | 0.55 |
| | | 12 - 24 | 13.8 | 7.0 | 1.30 | 1.06 |
| | | 24 - 36 | 11.7 | 6.1 | 1.32 | 0.89 |
| | | 36 - 48 | 9.1 | 5.0 | 1.37 | 0.67 |
| " | " | 0 - 12 | 8.9 | 4.9 | 1.37 | 0.66 |
| | | 12 - 24 | 9.9 | 5.6 | 1.35 | 0.70 |
| | | 24 - 36 | 11.2 | 5.7 | 1.34 | 0.88 |
| | | 36 - 48 | 9.6 | 5.3 | 1.35 | 0.70 |
| " | " | 0 - 12 | 9.7 | 5.2 | 1.35 | 0.73 |
| | | 12 - 24 | 10.2 | 6.3 | 1.35 | 0.63 |
| | | 24 - 36 | 10.4 | 6.0 | 1.34 | 0.71 |
| | | 36 - 48 | 10.8 | 5.9 | 1.34 | 0.79 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|---|----------------------|-----------------|------|--------|----------------------|----------------------------------|
| <u>HESPERIA (continued)</u> | | | | | | |
| Loamy Fine Sand | Kern | 0 - 12 | 11.8 | 5.77 | 1.32 | 0.96 |
| | | 12 - 24 | 11.9 | 6.17 | 1.32 | 0.91 |
| | | 24 - 36 | 14.7 | 6.64 | 1.30 | 1.28 |
| | | 36 - 48 | 12.8 | 6.19 | 1.31 | 1.04 |
| | | 48 - 60 | 14.0 | 6.21 | 1.30 | 1.22 |
| | | 60 - 72 | 13.9 | 6.52 | 1.30 | 1.15 |
| | | 72 - 84 | 12.4 | 5.95 | 1.32 | 1.02 |
| | | 84 - 96 | 9.0 | 4.40 | 1.37 | 0.76 |
| " | " | 0 - 12 | 9.9 | 5.28 | 1.35 | 0.75 |
| | | 12 - 24 | 14.3 | 7.66 | 1.30 | 1.03 |
| | | 24 - 36 | 15.4 | 7.59 | 1.29 | 1.21 |
| | | 36 - 48 | 16.4 | 8.30 | 1.28 | 1.24 |
| | | 48 - 60 | 19.7 | 8.40 | 1.25 | 1.70 |
| | | 60 - 72 | 21.0 | 8.92 | 1.24 | 1.80 |
| | | 72 - 84 | 19.4 | 8.55 | 1.26 | 1.64 |
| | | 84 - 96 | 18.5 | 7.97 | 1.26 | 1.59 |
| Gravelly Sandy Loam (shallow phase) | Fresno | 0 - 36 | 15.9 | 5.79 | (79.2#) | 1.53 |
| | | 36 - 72 | 15.0 | 5.80 | (84.5#) | 1.50 |
| Gravelly Fine Sandy Loam | " | 0 - 36 | 14.0 | 5.12 | (82.0#) | 1.40 |
| | | 36 - 72 | 4.4 | 2.12 | (89.4#) | 0.40 |
| " | " (shallow phase) | 0 - 36 | 11.9 | 4.17 | (86.5#) | 1.29 |
| | | 36 - 72 | 13.2 | 3.87 | (76.4#) | 1.34 |
| Sandy Loam | " | 0 - 36 | 18.3 | 9.29 | 1.26 | 1.21 |
| | | 36 - 72 | 21.9 | --- | --- | --- |
| " | " | 0 - 36 | 5.5 | 1.93 | 1.43 | 0.61 |
| | | 36 - 72 | 4.6 | 1.86 | 1.46 | 0.48 |
| " | " | 0 - 36 | 18.3 | 9.29 | 1.26 | 1.36 |
| | | 36 - 72 | 21.9 | --- | --- | --- |
| " | " | 0 - 36 | 12.6 | 4.78 | 1.32 | 1.24 |
| | | 36 - 72 | 16.7 | 7.94 | 1.28 | 1.35 |
| " | Kern | 0 - 12 | 10.9 | 5.48 | 1.34 | 0.87 |
| | | 12 - 24 | 9.9 | 5.19 | 1.35 | 0.76 |
| | | 24 - 36 | 16.4 | 8.40 | 1.28 | 1.23 |
| | | 36 - 48 | 16.0 | 6.62 | 1.29 | 1.45 |
| | | 48 - 60 | 12.4 | 5.20 | 1.32 | 1.14 |
| | | 60 - 72 | 11.1 | 4.76 | 1.34 | 1.02 |
| | | 72 - 84 | 6.6 | 3.39 | 1.40 | 0.54 |
| | | 84 - 96 | 8.3 | 3.86 | 1.38 | 0.74 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|-----------------------------|---------------------------|-----------------|-------|--------|----------------------|----------------------------------|
| <u>HESPERIA (continued)</u> | | | | | | |
| Sandy Loam | Kern | 0 - 12 | 8.3 | 4.05 | 1.37 | 0.70 |
| | | 12 - 24 | 5.9 | 3.55 | 1.42 | 0.40 |
| | | 24 - 36 | 7.3 | 3.74 | 1.39 | 0.59 |
| | | 36 - 48 | 4.7 | 2.80 | 1.45 | 0.33 |
| | | 48 - 60 | 6.9 | 3.42 | 1.40 | 0.58 |
| | | 60 - 72 | 6.2 | 3.60 | 1.42 | 0.44 |
| | | 72 - 84 | 6.0 | 3.08 | 1.42 | 0.50 |
| | | 84 - 96 | 3.4 | 2.22 | 1.49 | 0.21 |
| " | Fresno (shallow phase) | 0 - 36 | 5.3 | 1.70 | (79.3#) | 0.54 |
| | | 36 - 72 | 5.9 | 2.24 | (83.4#) | 0.58 |
| Fine Sandy Loam | " | 0 - 36 | 9.5 | 3.45 | (71.8#) | 0.83 |
| | | 36 - 72 | 7.8 | 3.52 | (80.3#) | 0.65 |
| " | " (shallow phase) | 0 - 36 | 13.2 | --- | (80.9) | --- |
| | | 36 - 72 | --- | 4.17 | (83.9) | --- |
| Very Fine Sandy Loam | " | 0 - 36 | 15.2 | 4.64 | (60.5#) | 1.27 |
| | | 36 - 72 | 13.6 | 4.76 | (65.7#) | 1.12 |
| Loam | " | 0 - 36 | 20.1 | 6.33 | (83.4#) | 2.20 |
| | | 36 - 72 | 5.0 | 1.94 | (81.8#) | 0.48 |
| " | " | 0 - 36 | 21.5 | | | |
| | | 36 - 72 | 33.7 | | | |
| " | " (shallow phase) | 0 - 36 | 15.6 | 5.36 | (94.7#) | 1.86 |
| | | 36 - 72 | 14.4 | 5.14 | 1.30 | 1.44 |
| <u>HESSE</u> | | | | | | |
| Gravelly Loam | Lake | 0 - 3 | 28.2 | 14.4 | 1.20 | 2.16 |
| | | 3 - 18 | 23.3 | 13.3 | 1.23 | 1.42 |
| | | 18 - 22 | 24.8 | 15.5 | 1.22 | 1.36 |
| <u>HIDEAWAY</u> | | | | | | |
| Stony Loam | Stanislaus | 1 - 11 | 17.19 | 5.73 | 1.28 | 1.76 |
| <u>HILLGATE</u> | | | | | | |
| Very Fine Sandy Loam | Glenn | 0 - 12 | 20.0 | 5.5 | 1.25 | 2.18 |
| | | 12 - 33 | 30.5 | 13.5 | 1.19 | 2.42 |
| | | 33 - 40 | 25.3 | 12.9 | 1.21 | 1.80 |
| | | 40 - 60 | 23.4 | 10.4 | 1.23 | 1.92 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|-----------------------------|------------|--|----------------------------------|---------------|--------------------------------------|-------------------------------------|
| <u>HILLGATE (continued)</u> | | | | | | |
| Loam | Tehama | 0 - 8 12 - 24 | 16.59 30.52 | 7.04 16.80 | 1.28 1.19 | 1.33 1.96 |
| <u>HILMAR</u> | | | | | | |
| Loamy Sand | Stanislaus | 0 - 7 7 - 14 14 - 21 21 - 29 29 - 66 | 3.6 4.2 4.2 8.4 16.3 | --- | 1.50 1.47 1.47 1.37 1.28 | 0.31 0.50 0.85 1.80 --- |
| <u>HOHMANN</u> | | | | | | |
| Gravelly Loam | Glenn | 0 - 4 4 - 12 12 - 29 | 27.5 25.6 23.9 | --- | 1.20 1.21 1.22 | 2.32 2.09 1.60 |
| <u>HOLLAND</u> | | | | | | |
| Sandy Loam | Placer | 0 - 12 12 - 24 | 11.43 10.69 | 3.78 4.01 | 1.33 1.34 | 1.22 1.08 |
| " | " | --- | 13.90 | 4.31 | 1.30 | 1.50 |
| " | " | --- | 6.26 | 3.43 | 1.42 | 0.48 |
| " | " | --- | 9.03 | 4.20 | 1.37 | 0.79 |
| " | " | --- | 10.64 | 4.15 | 1.34 | 1.04 |
| " | " | --- | 13.36 | 4.58 | 1.31 | 1.38 |
| " | " | 0 - 12 12 - 24 | 14.59 14.95 | 5.05 6.44 | 1.30 1.30 | 1.49 1.33 |
| " | " | --- | 13.79 | 4.30 | 1.30 | 1.48 |
| " | " | --- | 13.53 | 4.36 | 1.31 | 1.44 |
| " | " | --- | 10.56 | 3.54 | 1.34 | 1.13 |
| " | " | --- | 12.68 | 4.85 | 1.31 | 1.23 |
| " | " | 0 - 12 12 - 24 24 - 36 36 - 48 | 18.09 17.00 18.72 19.16 | | | |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|----------------------------|------------|-----------------|-------|--------|----------------------|----------------------------------|
| <u>HOLLAND (continued)</u> | | | | | | |
| Sandy Loam | Tulare | 0 - 6 | 8.94 | 2.56 | 1.37 | 1.05 |
| Loam | Fresno | 0 - 7 | 24.3 | --- | (1.1) | 1.53 |
| | | 7 - 24 | 19.6 | --- | (1.4) | 1.51 |
| | | 24 - 60 | 18.5 | --- | (1.6) | 1.29 |
| | | 60+ | 20.1 | --- | (1.6) | 1.63 |
| <u>HOLTVILLE</u> | | | | | | |
| Silty Clay Loam | Riverside | 0 - 12 | 22.79 | 14.26 | 1.23 | 1.26 |
| " | Imperial | 0 - 12 | 22.68 | 12.74 | 1.23 | 1.47 |
| | | 12 - 24 | 26.17 | 15.49 | 1.21 | 1.55 |
| | | 24 - 36 | 23.14 | 15.09 | 1.23 | 1.19 |
| | | 36 - 48 | 16.62 | 8.13 | 1.28 | 1.30 |
| Clay Loam | " | 0 - 12 | 25.09 | 13.83 | 1.22 | 1.65 |
| | | 12 - 24 | 28.30 | 17.08 | 1.20 | 1.62 |
| | | 24 - 36 | 31.22 | 18.97 | 1.19 | 1.75 |
| | | 36 - 48 | 17.37 | 9.46 | 1.27 | 1.21 |
| " | " | 0 - 12 | 25.76 | 15.04 | 1.21 | 1.56 |
| | | 12 - 24 | 24.94 | 17.38 | 1.22 | 1.11 |
| | | 24 - 36 | 19.45 | 7.85° | 1.26 | 1.75 |
| | | 36 - 48 | 30.76 | 16.61 | 1.19 | 2.02 |
| Clay | Riverside | 0 - 12 | 33.09 | 16.78 | 1.18 | 2.31 |
| | | 12 - 24 | 31.35 | 16.60 | 1.19 | 2.11 |
| <u>HONCUT</u> | | | | | | |
| Loam | Yuba | 0 - 12 | 17.12 | 6.33 | 1.28 | 1.66 |
| | | 12 - 24 | 16.67 | 6.04 | 1.28 | 1.63 |
| | | 24 - 36 | 14.96 | 6.07 | 1.30 | 1.39 |
| | | 36 - 48 | 15.46 | 7.22 | 1.29 | 1.28 |
| | | 48 - 60 | 14.32 | 6.81 | 1.30 | 1.17 |
| " | Stanislaus | 0 - 10 | 20.8 | 9.2 | (1.5) | 2.09 |
| | | 10 - 26 | 19.7 | 8.5 | (1.5) | 2.01 |
| | | 26 - 41 | 18.3 | 8.3 | (1.5) | 1.80 |
| | | 41 - 60 | 16.6 | --- | (1.4) | 1.33 |
| Clay Loam | Placer | 0 - 12 | 19.22 | 8.84 | 1.26 | 1.57 |
| " | " | 0 - 12 | 18.04 | 7.03 | 1.27 | 1.68 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|-------------------------|------------|-----------------|-------|--------|----------------------|----------------------------------|
| <u>HOPETON</u> | | | | | | |
| Clay Loam | Stanislaus | 0 - 11 | 20.0 | 7.9 | (1.8) | 2.61 |
| | | 11 - 20 | 35.7 | 14.1 | (1.9) | 4.92 |
| | | 20 - 29 | 31.7 | 11.6 | (1.9) | 4.58 |
| | | 29 - 38 | 33.8 | 11.3 | (1.9) | 5.13 |
| <u>HORNITOS</u> | | | | | | |
| Gravelly | Stanislaus | 0 - 7 | 12.4 | 8.53 | 1.32 | 0.61 |
| Fine Sandy Loam | | 7 - 9 | 21.3 | 12.07 | 1.24 | 1.37 |
| <u>HUGO</u> | | | | | | |
| Stony Loam | Mendocino | 0 - 7 | 32.5 | --- | (1.9) | --- |
| | | 7 - 27 | 21.9 | --- | (2.0) | --- |
| Fine Sandy Loam | Solano | 0 - 16 | 15.25 | 8.03 | 1.29 | 1.12 |
| | | 16 - 32 | 25.08 | 10.56 | 1.21 | 2.11 |
| | | 32 - 48 | 25.47 | 12.95 | 1.21 | 1.82 |
| Clay Loam | " | 0 - 16 | 25.56 | 15.72 | 1.21 | 1.43 |
| | | 16 - 32 | 27.31 | 15.82 | 1.20 | 1.65 |
| | | 32 - 48 | 26.06 | 14.66 | 1.21 | 1.66 |
| <u>HULLS</u> | | | | | | |
| Gravelly Loam | Glenn | 0 - 8 | 20.2 | 4.5 | 1.5 | 2.83 |
| | | 8 - 22 | 17.0 | 5.3 | 1.5 | 2.11 |
| " | " | 0 - 6 | 27.0 | --- | (1.5) | --- |
| | | 6 - 18 | 26.4 | --- | (1.5) | --- |
| | | 18 - 35 | 23.5 | --- | --- | --- |
| <u>IMPERIAL</u> | | | | | | |
| Very Fine Sandy Loam | Riverside | 0 - 12 | 21.71 | 9.12 | 1.24 | 1.87 |
| Silty Clay Loam | " | 0 - 12 | 31.49 | 16.89 | 1.19 | 2.08 |
| | | 12 - 24 | 31.06 | 16.59 | 1.19 | 2.07 |
| <u>INDIO</u> | | | | | | |
| --- | Riverside | --- | 21.80 | 14.87 | 1.24 | 1.06 |
| " | " | --- | 21.85 | 8.25 | 1.24 | 2.02 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|----------------------|--------|-------------------------------------|------------------------------|--------------------------|--------------------------|----------------------------------|
| <u>INKS</u> | | | | | | |
| Gravelly Loam | Tehama | 0 - 6 6 - 10 10 - 13 | 23.0 24.3 26.5 | | | |
| Loam | " | 0 - 6 6 - 13 13 - 22 | 22.1 23.3 30.1 | | | |
| <u>INSKIP</u> | | | | | | |
| Gravelly Silt Loam | Tehama | 0 - 8 | 45.7 | | | |
| " | " | 0 - 8 | 46.0 | | | |
| Very Rocky Silt Loam | " | 0 - 3 3 - 10 10 - 33 | 40.1 40.2 43.0 | | | |
| <u>IRON MOUNTAIN</u> | | | | | | |
| Fine Sandy Loam | Tehama | 0 - 5 5 - 9 | 22.9 22.8 | | | |
| <u>JACINTO</u> | | | | | | |
| Fine Sandy Loam | Glenn | 0 - 10 10 - 21 21 - 38 | 10.0 11.8 14.1 | 2.7 5.1 6.3 | (1.7) (1.6) (1.7) | 1.18 1.06 1.22 |
| <u>JEFFCOAT</u> | | | | | | |
| Rocky Loam | Tehama | 0 - 1 1 - 9 9 - 12 | 27.0 24.6 26.0 | | | |
| <u>JIGGS</u> | | | | | | |
| Sandy Loam | Tehama | 0 - 2 2 - 5 5 - 10 10 - 20 | 26.7 17.8 14.4 13.8 | 8.2 5.5 4.0 5.1 | 1.0 1.3 1.3 1.4 | 2.22 1.92 1.62 1.46 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|------|--------|-----------------|------|--------|----------------------|----------------------------------|
|------|--------|-----------------|------|--------|----------------------|----------------------------------|

JOSEPHINE

| | | | | | | |
|------------------|-----------|--|--------------------------------------|--------------------------|--------------------------------------|--------------------------------------|
| Gravelly Loam | Glenn | 0 - 4 4 - 11 11 - 25 25 - 46 | 24.7 24.7 27.8 27.4 | --- | (1.6) (1.6) (1.6) (1.6) | 3.13 2.69 2.02 1.88 |
| " | Lake | 0 - 4 4 - 11 11 - 20 20 - 44 44 - 50 | 38.8 34.0 32.0 35.1 34.8 | 12.6 --- | 1.16 1.18 1.18 1.17 1.17 | 2.27 1.69 1.16 1.47 1.73 |
| Loam | Mendocino | 0 - 10 10 - 24 24 - 40 40 - 50 | 22.0 20.4 21.2 25.4 | 7.2 8.4 9.8 --- | (1.5) (1.5) (1.6) 1.5 | 2.66 2.16 2.19 2.00 |

KEYES

| | | | | | | |
|----------------------|------------|-------------------------------------|------------------------------|--------------------------------|------------------------------|------------------------------|
| Cobbley Clay Loam | Stanislaus | 0 - 3 3 - 6 6 - 12 12 - 18 | 21.0 19.8 22.7 37.7 | 8.27 8.89 10.08 19.99 | 1.24 1.25 1.23 1.16 | 1.89 1.64 1.86 2.47 |
|----------------------|------------|-------------------------------------|------------------------------|--------------------------------|------------------------------|------------------------------|

KIDD

| | | | | | | |
|------------------------|------|-----------------|--------------|--|--|--|
| Gravelly Sandy Loam | Lake | 0 - 4 4 - 12 | 27.5 20.0 | | | |
|------------------------|------|-----------------|--------------|--|--|--|

KIMBALL

| | | | | | | |
|---|--------|---|------------------------------|-----------------------------|--------------------------------------|------------------------------|
| Slightly Gravelly Fine Sandy Loam | Glenn | 0 - 16 16 - 27 27 - 33 33 - 60 | 12.5 36.8 20.8 19.5 | --- | (1.90) (2.00) (1.95) (2.00) | --- |
| " " | " | 0 - 12 12 - 23 23 - 30 30 - 36 | 13.5 38.9 27.2 25.9 | 4.9 17.7 15.6 15.2 | 1.31 1.16 1.21 1.21 | 1.37 2.95 1.68 1.49 |
| Loam | Placer | --- | 21.87 | 9.33 | 1.24 | 1.87 |
| " " | " | --- | 15.07 | 7.09 | 1.30 | 1.24 |
| " " | " | --- | 22.04 | 12.48 | 1.24 | 1.42 |
| " " | " | --- | 21.27 | 9.58 | 1.24 | 1.74 |
| " " | " | --- | 15.57 | 7.19 | 1.29 | 1.30 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|-----------------|------------|-----------------|-------|--------|----------------------|----------------------------------|
| <u>KONOKTI</u> | | | | | | |
| Loam | Lake | 0 - 5 | 31.4 | 10.9 | 1.19 | 2.93 |
| | | 5 - 15 | 24.6 | 8.6 | 1.22 | 2.34 |
| | | 15 - 28 | 23.3 | 9.2 | 1.23 | 2.08 |
| | | 28 - 36 | 20.8 | 8.8 | 1.24 | 1.79 |
| <u>LAGUNA</u> | | | | | | |
| Sand | Santa Cruz | 0 - 12 | 4.35 | 2.65 | 1.42 | 0.27 |
| " | " | 0 - 12 | 5.08 | 2.44 | 1.42 | 0.41 |
| <u>LANE</u> | | | | | | |
| Sandy Loam | Fresno | 0 - 36 | 10.9 | 3.95 | (89.3#) | 1.18 |
| | | 36 - 72 | 12.4 | 5.54 | (86.1#) | 1.13 |
| Fine Sandy Loam | " | 0 - 36 | 10.9 | 3.41 | (77.5) | 1.11 |
| | | 36 - 72 | 10.9 | 3.03 | (78.5) | 1.19 |
| <u>LANINGER</u> | | | | | | |
| Sandy Loam | Tehama | 0 - 3/4 | 30.3 | --- | (1.6) | 1.11 |
| | | 3/4 - 4 | 11.5 | --- | (1.6) | 1.42 |
| | | 4 - 9 | 8.59 | --- | (1.6) | 1.00 |
| | | 9 - 16 | 8.95 | --- | (1.5) | 0.93 |
| | | 16 - 34 | 8.42 | --- | (1.5) | 0.85 |
| <u>LAUGHLIN</u> | | | | | | |
| Loam | Mendocino | 0 - 3 | 21.0 | 7.3 | (1.4) | 2.30 |
| | | 3 - 11 | 16.5 | 5.7 | (1.6) | 2.07 |
| | | 11 - 23 | 14.7 | 7.4 | (1.7) | 1.49 |
| <u>LOCKWOOD</u> | | | | | | |
| Gravelly Loam | Kern | 0 - 12 | 30.78 | 22.80 | 1.19 | 1.14 |
| | | 12 - 24 | 31.43 | 23.14 | 1.19 | 1.18 |
| | | 24 - 36 | 30.96 | 23.58 | 1.19 | 1.05 |
| | | 36 - 48 | 32.48 | 25.23 | 1.18 | 1.03 |
| " | " | 0 - 12 | 32.50 | 23.60 | 1.18 | 1.26 |
| | | 12 - 24 | 32.50 | 24.00 | 1.18 | 1.20 |
| | | 24 - 36 | 32.20 | 25.03 | 1.18 | 1.02 |
| | | 36 - 48 | 33.88 | 26.45 | 1.18 | 1.05 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|-----------------------------|-----------|-----------------|-------|--------|----------------------|----------------------------------|
| <u>LOCKWOOD (continued)</u> | | | | | | |
| Gravelly Loam | Monterey | 0 - 16 | 28.90 | 17.02 | 1.20 | 1.70 |
| " " | | 0 - 8 | 28.39 | 20.69 | 1.20 | 1.11 |
| | | 10 - 18 | 28.83 | 21.00 | 1.20 | 1.13 |
| <u>LODO</u> | | | | | | |
| Fine Shale Loam | Tehama | 0 - 2 | 17.4 | --- | (1.5) | 1.63 |
| | | 2 - 6½ | 16.4 | --- | (1.5) | 1.50 |
| | | 6½+ | 17.8 | --- | 1.5 | 1.48 |
| Gritty Clay Loam | Glenn | 0 - 7 | 19.7 | --- | (1.8) | 1.94 |
| <u>LOS GATOS</u> | | | | | | |
| Gravelly Loam | Glenn | 0 - 4 | 32.3 | 9.8 | (1.2) | 3.24 |
| | | 4 - 20 | 24.1 | 7.4 | (1.3) | 2.60 |
| " " | | 0 - 10 | 20.9 | --- | (1.9) | --- |
| | | 10 - 22 | 20.3 | --- | (1.8) | --- |
| Loam | Mendocino | 0 - 6 | 26.6 | 9.6 | (1.4) | 2.86 |
| | | 6 - 11 | 21.2 | 8.7 | (1.7) | 2.55 |
| | | 11 - 18 | 18.3 | 8.6 | (1.8) | 2.10 |
| <u>LOS OSOS</u> | | | | | | |
| Sandy Loam | Lake | 0 - 8 | 25.7 | --- | 1.21 | 1.97 |
| | | 8 - 20 | 25.6 | --- | 1.21 | 1.60 |
| | | 20 - 43 | 27.3 | --- | 1.20 | 1.18 |
| | | 43 - 50 | 26.6 | --- | 1.21 | 1.26 |
| <u>LYONSVILLE</u> | | | | | | |
| Sandy Loam | Tehama | 0 - 2 | 39.7 | | | |
| | | 2 - 5 | 33.6 | | | |
| | | 5 - 18 | 30.3 | | | |
| | | 18 - 30 | 28.6 | | | |
| Loam | " | 0 - 3 | 37.8 | | | |
| | | 3 - 11 | 37.7 | | | |
| Sandy Loam | | 11 - 20 | 35.8 | | | |
| Loam | | 20 - 28 | 37.1 | | | |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|------------------|------------|-----------------|-------|--------|----------------------|----------------------------------|
| <u>MC CARTHY</u> | | | | | | |
| Sandy Loam | Tehama | 0 - 2 | 31.9 | 18.1 | 1.0 | 1.66 |
| | | 2 - 10 | 31.1 | 18.2 | 1.1 | 1.70 |
| | | 10 - 17 | 33.6 | 18.7 | 1.1 | 1.97 |
| " | " | 0 - 3 | 36.5 | 15.9 | 1.0 | 2.47 |
| | | 3 - 18 | 29.9 | 15.9 | 1.2 | 2.02 |
| | | 18 - 30 | 35.3 | 19.6 | 1.2 | 2.26 |
| <u>MC CLUSKY</u> | | | | | | |
| Sandy Loam | Monterey | 0 - 30 | 6.94 | 3.06 | 1.40 | 0.65 |
| <u>MADERA</u> | | | | | | |
| Sandy Loam | Fresno | 0 - 12 | 9.72 | 3.22 | (1.60) | 1.25 |
| | | 12 - 24 | 9.38 | 3.85 | (1.60) | 1.06 |
| | | 24 - 36 | 10.37 | 5.52 | (1.82) | 1.06 |
| | | 36 - 48 | 9.43 | 5.04 | (1.73) | 0.91 |
| | | 48 - 60 | 8.33 | 4.47 | (1.83) | 0.85 |
| | | 60 - 72 | 9.48 | 4.84 | (1.89) | 1.05 |
| " | Stanislaus | 0 - 9 | 12.1 | 3.6 | 1.32 | 1.35 |
| | | 9 - 24 | 11.5 | 5.2 | 1.33 | 1.01 |
| | | 24 - 34 | 13.0 | 7.6 | 1.31 | 0.85 |
| " | Tulare | 0 - 12 | 14.56 | 3.62 | 1.30 | 1.71 |
| | | 12 - 24 | 12.28 | 3.46 | 1.32 | 1.40 |
| " | " | 0 - 12 | 12.80 | 4.02 | 1.31 | 1.38 |
| " | " | 0 - 12 | 12.60 | 2.88 | 1.32 | 1.54 |
| | | 12 - 24 | 13.98 | 3.20 | 1.30 | 1.68 |
| | | 24 - 36 | 11.56 | 3.36 | 1.32 | 1.30 |
| | | 36 - 48 | 16.66 | 7.92 | 1.28 | 1.34 |
| | | 48 - 60 | 8.48 | 3.02 | 1.37 | 0.90 |
| | | 60 - 72 | 7.14 | 3.02 | 1.40 | 0.69 |
| Silt Loam | Mariposa | 0 - 12 | 16.83 | 6.97 | 1.28 | 1.51 |
| Loam | Placer | --- | 7.73 | 4.37 | 1.38 | 0.56 |
| " | " | --- | 11.02 | 3.98 | 1.34 | 1.13 |
| " | " | --- | 11.03 | 4.79 | 1.34 | 1.00 |
| " | " | --- | 13.15 | 6.85 | 1.31 | 0.99 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|--------------------|----------|-----------------|------|--------|----------------------|----------------------------------|
| <u>MALTON</u> | | | | | | |
| Slightly Gravelly | Glenn | 0 - 11 | 16.0 | 4.4 | 1.29 | 1.79 |
| Gravelly Fine | | 11 - 20 | 15.9 | 5.2 | 1.29 | 1.65 |
| Sandy Loam | | 20 - 32 | 16.2 | 6.6 | 1.29 | 1.48 |
| | | 32 - 46 | 17.8 | 9.3 | 1.27 | 1.28 |
| | | 46 - 60 | 18.7 | 10.1 | 1.26 | 1.30 |
| <u>MANTON</u> | | | | | | |
| Gravelly Loam | Tehama | 0 - 8 | 28.8 | | | |
| <u>MARINA</u> | | | | | | |
| Sand | Monterey | 0 - 15 | 5.81 | 2.40 | 1.42 | 0.58 |
| <u>MASTERSON</u> | | | | | | |
| Gravelly Loam | Glenn | 0 - 4 | 30.9 | 8.6 | (1.1) | 2.94 |
| | | 4 - 19 | 26.3 | 7.4 | (1.2) | 2.72 |
| | | 19 - 32 | 24.7 | 5.6 | (1.4) | 3.21 |
| " | " | 0 - 7 | 32.8 | | | |
| | | 7 - 21 | 29.3 | | | |
| | | 21 - 35 | 26.6 | | | |
| <u>MATTOLE</u> | | | | | | |
| --- | Humboldt | 0 - 8 | 35.5 | --- | 1.17 | 2.44 |
| | | 8 - 15 | 28.8 | --- | 1.20 | 1.41 |
| | | 15 - 20 | 26.1 | --- | 1.21 | 1.39 |
| | | 20 - 38 | 27.0 | --- | 1.21 | 1.57 |
| | | 38 - 58 | 24.0 | --- | 1.22 | 1.54 |
| | | 58 - 63 | 24.5 | --- | 1.22 | 1.52 |
| <u>MAYMEN</u> | | | | | | |
| Gravelly Loam | Glenn | 0 - 10 | 16.0 | 4.5 | (1.5) | 2.07 |
| " | Lake | 0 - 10 | 22.8 | 10.8 | 1.23 | 1.76 |
| " | " | 0 - 8 | 21.6 | 10.3 | 1.24 | 1.74 |
| Very Gravelly Loam | Glenn | 0 - 5 | 22.7 | --- | (1.5) | 2.69 |
| | | 5 - 9 | 21.2 | --- | (1.6) | 2.33 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|---------------------------|------------------|---|--|--|--|---|
| <u>MAYMEN (continued)</u> | | | | | | |
| Loam | Mendocino | 0 - 1 1 - 8 | 25.0 23.4 | 7.7 7.4 | 1.22 1.23 | 2.53 2.36 |
| <u>MAYWOOD</u> | | | | | | |
| Sandy Loam | Glenn | 0 - 24 24 - 60 | 10.8 3.45 | 4.9 2.1 | 1.34 1.49 | 0.95 0.24 |
| <u>MEIKLE</u> | | | | | | |
| Clay | Stanislaus | 0 - 4 4 - 16 16 - 24 24 - 36 36 - 48 48 - 60 | 21.2 34.3 32.0 21.3 18.4 21.4 | — — — — — 8.3 | (1.9) (1.9) (1.9) (1.9) (1.8) (1.8) | 2.53 4.26 3.30 — — — |
| <u>MELOLAND</u> | | | | | | |
| Very Fine Sandy Loam | Riverside | 0 - 12 | 23.40 | 11.02 | 1.23 | 1.83 |
| <u>MERCED</u> | | | | | | |
| Loam | Fresno | 0 - 36 36 - 72 | 28.3 23.5 | 12.15 9.22 | 1.20 1.23 | 2.33 2.11 |
| Clay Loam | " | 0 - 36 36 - 72 | 24.0 24.4 | 10.65 6.34 | 1.22 1.22 | 1.95 2.64 |
| " | (Fresno subsoil) | 0 - 36 36 - 72 | 23.5 20.8 | 10.65 6.67 | 1.23 1.24 | 1.90 2.10 |
| <u>METZ</u> | | | | | | |
| Fine Sandy Loam | Monterey | 0 - 16 | 15.67 | 6.50 | 1.29 | 1.42 |
| " | " | Ridge 0 - 6 6 - 12 12 - 18 18 - 24 24 - 30 | 24.27 23.57 27.51 34.11 30.69 23.28 | 9.62 9.84 13.91 17.62 14.04 — | 1.22 1.22 1.20 1.18 1.19 — | 2.14 2.01 2.54 2.33 2.38 — |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|-------------------------|----------|-----------------|-------|--------|----------------------|----------------------------------|
| <u>METZ (continued)</u> | | | | | | |
| Very Fine Sandy Loam | Monterey | 0 - 15 | 18.78 | 8.59 | 1.26 | 1.54 |
| " | " | 0 - 12 | 20.88 | 9.09 | 1.24 | 1.75 |
| | | 12 - 24 | 22.85 | 11.78 | 1.23 | 1.63 |
| | | 24 - 36 | --- | 7.81 | --- | --- |
| " | " | 0 - 12 | 17.85 | 7.66 | 1.27 | 1.55 |
| | | 12 - 24 | 19.49 | 9.14 | 1.26 | 1.56 |
| | | 24 - 36 | 20.10 | 9.50 | 1.25 | 1.59 |
| | | 36 - 48 | 18.29 | --- | 1.26 | --- |
| | | 48 - 60 | 20.10 | --- | 1.25 | --- |
| | | 60 - 72 | 29.68 | --- | 1.19 | --- |
| " | " | 0 - 12 | 12.66 | 6.53 | 1.32 | 0.97 |
| | | 12 - 24 | 10.80 | 4.96 | 1.34 | 0.94 |
| | | 24 - 36 | --- | 10.92 | --- | --- |
| " | " | 0 - 12 | 16.00 | 7.11 | 1.29 | 1.38 |
| | | 12 - 24 | 21.28 | 8.77 | 1.24 | 1.78 |
| | | 24 - 36 | 22.65 | 10.67 | 1.23 | 1.77 |
| | | 36 - 48 | 23.05 | --- | 1.23 | --- |
| | | 48 - 60 | 27.66 | --- | 1.20 | --- |
| | | 60 - 72 | 35.25 | --- | 1.17 | --- |
| Loam | " | 0 - 16 | 25.37 | 12.84 | 1.21 | 1.83 |
| Silty Clay Loam | " | 0 - 16 | 28.67 | 15.66 | 1.20 | 1.87 |

MILLSAP

| | | | | | | |
|-----------|--------|---------|------|-----|-------|------|
| Loam | Tehama | 0 - 2 | 29.4 | --- | (1.7) | 3.61 |
| | | 2 - 9 | 26.8 | --- | (1.8) | 3.13 |
| | | 9 - 21 | 32.4 | --- | (1.9) | 3.28 |
| | | 21 - 31 | 34.6 | --- | (2.0) | 3.58 |
| | | 31 - 39 | 33.5 | --- | (1.9) | 3.35 |
| Clay Loam | Glenn | 0 - 6 | 20.7 | --- | 1.24 | 1.46 |
| | | 6 - 17 | 27.7 | --- | 1.20 | 1.40 |

MILLSHOLM

| | | | | | | |
|------|--------|---------|------|-----|-------|------|
| Loam | Tehama | 0 - 2½ | 22.5 | --- | (1.7) | 2.49 |
| | | 2½ - 9 | 19.6 | --- | (1.7) | 1.88 |
| | | 9 - 14 | 20.6 | --- | (1.7) | 1.75 |
| | | 14 - 16 | 21.9 | --- | (1.7) | 1.75 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|------------------------------|------------|-----------------|-------|--------|----------------------|----------------------------------|
| <u>MILLSHOLM (continued)</u> | | | | | | |
| Clay Loam | Glenn | 0 - 3/4 | 23.1 | --- | 1.23 | 1.80 |
| | | 3/4 - 6 | 22.0 | --- | 1.24 | 1.47 |
| | | 6 - 16 | 22.3 | --- | 1.23 | 1.37 |
| <u>MODESTO</u> | | | | | | |
| Loam | Stanislaus | 0 - 10 | 15.7 | --- | 1.29 | 1.43 |
| | | 10 - 12 | 16.4 | --- | (1.7) | 2.06 |
| | | 12 - 25 | 20.0 | --- | (2.0) | 2.00 |
| | | 25 - 35 | 18.8 | --- | (1.9) | 2.02 |
| | | 35 - 44 | 13.8 | --- | (1.8) | 1.47 |
| | | 44 - 55 | 16.1 | --- | (1.8) | 1.87 |
| | | 55 - 62 | 35.3 | --- | (1.5) | 3.78 |
| <u>MOLINOS</u> | | | | | | |
| Clay Loam | Tehama | --- | 26.43 | 14.26 | 1.21 | 1.77 |
| " | " | --- | 26.95 | 16.74 | 1.20 | 1.48 |
| <u>MONTARA</u> | | | | | | |
| Clay | Mendocino | 0 - 4 | 30.1 | --- | (1.9) | --- |
| | | 4 - 13 | 32.3 | --- | (1.9) | --- |
| <u>MONTEZUMA</u> | | | | | | |
| Clay Loam | Monterey | 0 - 40 | 27.52 | 12.35 | 1.20 | 2.18 |
| Clay Adobe | San Benito | 0 - 6 | 28.07 | 13.19 | 1.20 | 2.14 |
| | | 6 - 12 | 31.47 | 14.73 | 1.19 | 2.39 |
| Adobe | Tulare | 0 - 6 | 21.80 | 10.94 | 1.24 | 1.62 |
| <u>MORO COJO</u> | | | | | | |
| Sand | Santa Cruz | 0 - 6 | 8.26 | 3.70 | 1.42 | 0.78 |
| Loamy Sand | Monterey | 0 - 15 | 5.92 | 1.61 | 1.42 | 0.73 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|---------------------|--------|-----------------|------|--------|----------------------|----------------------------------|
| <u>MUSICK</u> | | | | | | |
| Loam | Fresno | 0 - 6 | 24.1 | --- | (1.2) | 2.07 |
| | | 6 - 14 | 21.2 | --- | (1.4) | 1.78 |
| | | 14 - 34 | 19.2 | --- | (1.7) | 1.53 |
| | | 34 - 60 | 15.9 | --- | (1.6) | 1.43 |
| | | 60+ | 12.7 | --- | (1.6) | 1.28 |
| <u>MYERS</u> | | | | | | |
| Clay Loam | Glenn | 0 - 12 | 23.8 | 11.5 | 1.22 | 1.80 |
| | | 12 - 30 | 32.9 | 16.5 | 1.18 | 2.32 |
| | | 30 - 50 | 33.4 | 16.6 | 1.18 | 2.38 |
| | | 50 - 60 | 31.4 | 15.7 | 1.19 | 2.24 |
| <u>NACIMIENTO</u> | | | | | | |
| Heavy Clay Loam | Glenn | 0 - 19 | 25.7 | --- | (1.75) | --- |
| | | 19 - 29 | 28.7 | --- | (1.70) | --- |
| | | 29 - 60 | 20.8 | --- | (1.80) | --- |
| <u>NEUNS</u> | | | | | | |
| Coarse Sandy Loam & | Lake | 0 - 4 | 31.6 | 13.6 | 1.18 | 2.55 |
| Gravelly Loam | | 4 - 13 | 26.4 | 14.0 | 1.21 | 1.80 |
| | | 13 - 28 | 26.5 | 12.3 | 1.21 | 2.06 |
| <u>NEWVILLE</u> | | | | | | |
| Gravelly Sandy Loam | Glenn | 0 - 8 | 14.5 | 4.6 | 1.30 | 1.54 |
| | | 8 - 19 | 13.4 | 5.0 | 1.31 | 1.33 |
| | | 19 - 30 | 36.0 | 18.5 | 1.17 | 2.46 |
| | | 30 - 36 | 29.6 | 15.7 | 1.19 | 1.99 |
| | | 36 - 60 | 22.3 | 12.0 | 1.24 | 1.54 |
| Gravelly Silty Loam | Tehama | 0 - 1½ | 26.1 | --- | (1.9) | 4.30 |
| | | 1½ - 6 | 23.5 | --- | (1.9) | 3.76 |
| | | 6 - 9½ | 23.5 | --- | (1.8) | 3.26 |
| | | 9½ - 13 | 25.4 | --- | (1.9) | 2.99 |
| | | 13 - 20 | 26.6 | --- | (2.0) | 3.22 |
| | | 20 - 42 | 19.3 | --- | (2.0) | 1.97 |
| | | 42 - 56+ | 18.6 | --- | (2.0) | 1.92 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|----------------|---------------|-----------------|--------|--------|----------------------|----------------------------------|
| <u>OAKDALE</u> | | | | | | |
| Sandy Loam | Stanislaus | 0 - 1 | 22.9 | --- | (1.7) | --- |
| | | 1 - 13 | 10.1 | 2.8 | (1.7) | 1.37 |
| | | 13 - 25 | 10.4 | 3.6 | (1.7) | 1.35 |
| | | 25 - 38 | 14.5 | 5.7 | (1.9) | 1.85 |
| | | 38 - 45 | 11.6 | --- | (1.9) | 1.60 |
| | | 45 - 60 | 8.7 | --- | (1.7) | 0.90 |
| <u>OAKLEY</u> | | | | | | |
| Sand | Contra Costa | 0 - 12 | 5.30++ | 2.26 | 1.43 | 0.52 |
| | | 12 - 96 | 4.66++ | 2.17 | 1.46 | 0.44 |
| Fine Sand | Santa Barbara | 0 - 6 | 5.22+ | 2.03 | 1.45 | 0.54 |
| | | 12 - 36 | 5.69+ | 2.29 | 1.43 | 0.58 |
| | | 36 below | 8.45+ | 4.14 | 1.37 | 0.71 |
| " | Stanislaus | 0 - 12 | 3.28 | 1.88 | 1.50 | 0.25 |
| " | " | 0 - 12 | 3.30 | 1.40 | 1.50 | 0.34 |
| Sandy Loam | Yuba | 0 - 12 | 10.66 | 4.41 | 1.34 | 1.01 |
| | | 12 - 24 | 10.68 | 4.68 | 1.34 | 0.96 |
| | | 24 - 36 | 10.41 | 4.85 | 1.34 | 0.89 |
| | | 36 - 48 | 11.93 | 6.13 | 1.32 | 0.92 |
| | | 48 - 60 | 14.06 | 7.66 | 1.30 | 1.00 |
| <u>OLYMPIA</u> | | | | | | |
| Stony Loam | Sonoma | 12 - 24 | 17.47 | 10.09 | 1.27 | 1.01 ! |
| <u>OLYMPIC</u> | | | | | | |
| Stony Loam | Sonoma | 12 - 24 | 25.21 | 11.40 | 1.22 | 1.58 ! |
| | | 30 - 32 | 25.86 | 11.08 | 1.21 | 1.29 ! |
| " | " | 12 - 24 | 21.37 | 11.89 | 1.24 | 1.35 ! |
| | | 30 - 36 | 23.96 | 13.51 | 1.22 | 1.35 ! |
| Loam | Tehama | 0 - 4 | 32.9 | | | |
| | | 4 - 15 | 28.6 | | | |
| Clay Loam | | 15 - 29 | 30.0 | | | |
| | | 29 - 40 | 34.6 | | | |
| Clay | - | 40 - 55 | 55.9 | | | |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|------|--------|-----------------|------|--------|----------------------|----------------------------------|
|------|--------|-----------------|------|--------|----------------------|----------------------------------|

OLYMPIC (continued)

| | | | | | | |
|-----------------|--------|----------------------------|----------------------|-------|------|------|
| Sandy Loam | Tehama | 0 - 5 5 - 12 12 - 18 | 24.7 24.6 26.4 | | | |
| Sandy Clay Loam | | 18 - 30 30 - 42 | 26.2 29.9 | | | |
| Sandy Loam | " | 0 - 1½ 1½ - 13 | 40.4 36.9 | | | |
| Sandy Clay Loam | | 13 - 21 21 - 36 | 38.1 45.6 | | | |
| Adobe | Tulare | --- | 24.14 | 13.14 | 1.22 | 1.61 |
| " | " | --- | 22.36 | 12.94 | 1.24 | 1.40 |
| " | " | --- | 26.86 | 16.06 | 1.21 | 1.58 |
| " | " | --- | 22.96 | 12.66 | 1.23 | 1.52 |

ORLAND

| | | | | | | |
|-----------------|--------|--|--------------------------------------|---------------------------------|--------------------------------------|--------------------------------------|
| Fine Sandy Loam | Glenn | 0 - 10 10 - 26 26 - 38 38 - 52 52 - 60 | 20.5 18.9 16.8 16.4 10.8 | 7.8 6.7 6.8 6.6 4.6 | 1.25 1.26 1.26 1.26 1.35 | 1.97 1.86 1.82 1.78 1.00 |
| " | " | 1 - 11 11 - 19 19 - 39 39 - 60 | 16.2 17.0 17.5 5.8 | --- | (1.60) (1.30) (1.40) --- | --- |
| Silty Loam | Tehama | 0 - 8 42 - 60 | 28.52 24.42 | 10.24 11.89 | 1.20 1.22 | 2.63 1.83 |

PA JARO

| | | | | | | |
|------|------------|--|---|--|--|--|
| Loam | Santa Cruz | 0 - 12 12 - 24 24 - 36 36 - 48 48 - 60 60 - 72 72 - 108 108 - 144 | 9.82 7.75 7.83 14.10 12.29 25.32 25.34 13.95 | 5.38 4.75 4.79 7.71 6.96 11.50 12.07 7.36 | 1.35 1.38 1.38 1.30 1.32 1.21 1.21 1.30 | 0.72 0.50 0.50 1.00 0.84 2.01 1.93 1.03 |
|------|------------|--|---|--|--|--|

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|------|--------|-----------------|------|--------|----------------------|----------------------------------|
|------|--------|-----------------|------|--------|----------------------|----------------------------------|

PAJARO (continued)

| | | | | | | |
|-----------|------------|-----------|-------|-------|------|------|
| Loam | Santa Cruz | 0 - 12 | 10.55 | 5.74 | 1.34 | 0.77 |
| | | 12 - 24 | 8.98 | 5.11 | 1.37 | 0.64 |
| | | 24 - 36 | 9.21 | 5.24 | 1.37 | 0.65 |
| | | 36 - 48 | 16.00 | 7.07 | 1.29 | 1.38 |
| | | 48 - 60 | 16.09 | 8.78 | 1.29 | 1.13 |
| | | 60 - 72 | 24.34 | 11.61 | 1.22 | 1.86 |
| | | 72 - 108 | 22.83 | 11.08 | 1.23 | 1.73 |
| | | 108 - 144 | 26.38 | 12.42 | 1.21 | 2.03 |
| " | Monterey | 0 - 12 | 30.59 | 15.52 | 1.19 | 2.15 |
| " | | 12 - 24 | 30.83 | 19.21 | 1.19 | 1.66 |
| " | | 24 - 36 | 30.41 | 18.38 | 1.19 | 1.72 |
| " | " | 0 - 12 | 29.12 | 15.50 | 1.19 | 1.94 |
| | | 12 - 24 | 30.83 | 16.39 | 1.19 | 2.06 |
| | | 24 - 36 | 30.15 | 16.06 | 1.19 | 2.01 |
| Clay Loam | Monterey | 0 - 12 | 30.90 | 16.14 | 1.19 | 2.11 |
| Adobe | | 12 - 24 | 30.95 | 16.76 | 1.19 | 2.03 |
| | | 24 - 36 | 30.83 | 17.06 | 1.19 | 1.97 |
| | | 36 - 48 | 25.30 | 12.66 | 1.21 | 1.84 |
| | | 48 - 60 | 20.74 | 8.87 | 1.25 | 1.78 |
| | | 60 - 72 | 23.68 | 9.73 | 1.22 | 2.04 |
| | | 72 - 108 | 29.95 | 12.63 | 1.19 | 2.47 |
| | | 108 - 144 | 29.60 | 11.86 | 1.20 | 2.55 |

PANOCHÉ

| | | | | | | |
|------|--------|---------|---------|------|--|--|
| Loam | Fresno | 0 - 12 | 19.80 | | | |
| | | 12 - 24 | 23.14 | | | |
| | | 24 - 36 | 20.69 | | | |
| | | 36 - 48 | 27.44 | | | |
| " | " | 0 - 12 | 17.38 | | | |
| | | 12 - 24 | 28.28 | | | |
| | | 24 - 36 | 29.69 | | | |
| | | 36 - 48 | 26.35 | | | |
| " | " | 0 - 6 | 19.02) | | | |
| | | 6 - 12 | 18.74) | 9.32 | | |
| | | 12 - 24 | 23.76) | | | |
| | | 24 - 36 | 25.41) | | | |
| | | 36 - 48 | 15.96) | 8.44 | | |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|----------------------------|--------|-----------------|---------|--------|----------------------|----------------------------------|
| <u>PANOCHE (continued)</u> | | | | | | |
| Loam | Fresno | 0 - 6 | 18.61) | | | |
| | | 6 - 12 | 19.96) | 9.08 | | |
| | | 12 - 24 | 22.94) | | | |
| | | 24 - 36 | 18.43) | | | |
| | | 36 - 48 | 18.28) | 8.20 | | |
| " | " | 0 - 12 | 18.49 | | | |
| | | 12 - 24 | 22.52 | | | |
| | | 24 - 36 | 22.60 | | | |
| | | 36 - 48 | 22.27 | | | |
| " | " | 0 - 6 | 19.73) | | | |
| | | 6 - 12 | 19.65) | 9.01 | | |
| | | 12 - 24 | 23.47) | | | |
| | | 24 - 36 | 19.93) | | | |
| | | 36 - 48 | 17.07) | 8.27 | | |
| " | " | 0 - 12 | 22.89 | | | |
| | | 12 - 24 | 21.04 | | | |
| | | 24 - 36 | 17.99 | | | |
| | | 36 - 48 | 16.76 | | | |
| " | " | 0 - 6 | 17.32) | | | |
| | | 6 - 12 | 18.72) | 9.61 | | |
| | | 12 - 24 | 22.86) | | | |
| | | 24 - 36 | 22.99) | | | |
| | | 36 - 48 | 17.70) | 9.15 | | |
| Clay Loam | " | 0 - 12 | 24.03 | 13.18 | 1.22 | 1.57 |
| | | 12 - 24 | 27.58 | --- | --- | --- |
| | | 24 - 36 | 25.68 | --- | --- | --- |
| | | 36 - 48 | 26.93 | --- | --- | --- |
| " | " | 0 - 12 | 23.44 | | | |
| | | 12 - 24 | 23.46 | | | |
| | | 24 - 36 | 24.66 | | | |
| | | 36 - 48 | 27.98 | | | |
| " | " | 0 - 12 | 24.74 | | | |
| | | 12 - 24 | 24.11 | | | |
| | | 24 - 36 | 24.81 | | | |
| | | 36 - 48 | 25.89 | | | |
| " | " | 0 - 12 | 22.24 | 11.90 | 1.24 | 1.54 |
| | | 12 - 24 | 22.37 | --- | --- | --- |
| | | 24 - 36 | 22.70 | --- | --- | --- |
| | | 36 - 48 | 25.41 | --- | --- | --- |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|----------------------------|--------|-----------------|-------|--------|----------------------|----------------------------------|
| <u>PANOCHE (continued)</u> | | | | | | |
| Clay Loam | Fresno | 0 - 12 | 23.68 | 12.90 | 1.23 | 1.58 |
| | | 12 - 24 | 21.66 | --- | --- | --- |
| | | 24 - 36 | 23.25 | --- | --- | --- |
| | | 36 - 48 | 24.99 | --- | --- | --- |
| " | " | 0 - 12 | 23.53 | | | |
| | | 12 - 24 | 22.94 | | | |
| | | 24 - 36 | 22.13 | | | |
| | | 36 - 48 | 23.91 | | | |
| " | " | 0 - 12 | 23.12 | 12.80 | 1.23 | 1.52 |
| | | 12 - 24 | 27.66 | --- | --- | --- |
| | | 24 - 36 | 24.69 | --- | --- | --- |
| | | 36 - 48 | 23.85 | --- | --- | --- |
| " | " | 0 - 12 | 22.91 | 12.99 | 1.23 | 1.46 |
| | | 12 - 24 | 23.50 | --- | --- | --- |
| | | 24 - 36 | 23.33 | --- | --- | --- |
| | | 36 - 48 | 24.20 | --- | --- | --- |
| " | " | 0 - 12 | 23.69 | | | |
| | | 12 - 24 | 25.57 | | | |
| | | 24 - 36 | 23.63 | | | |
| | | 36 - 48 | 25.19 | | | |
| " | " | 0 - 12 | 23.23 | 11.24 | 1.23 | 1.77 |
| | | 12 - 24 | 25.11 | --- | --- | --- |
| | | 24 - 36 | 23.61 | --- | --- | --- |
| | | 36 - 48 | 26.58 | --- | --- | --- |
| " | " | 0 - 12 | 22.97 | 12.40 | 1.23 | 1.56 |
| | | 12 - 24 | 24.53 | --- | --- | --- |
| | | 24 - 36 | 25.89 | --- | --- | --- |
| | | 36 - 48 | 24.68 | --- | --- | --- |
| " | " | 0 - 12 | 22.96 | | | |
| | | 12 - 24 | 24.50 | | | |
| | | 24 - 36 | 22.99 | | | |
| | | 36 - 48 | 24.83 | | | |
| " | " | 0 - 12 | 29.88 | | | |
| | | 12 - 24 | 23.31 | | | |
| | | 24 - 36 | 23.98 | | | |
| | | 36 - 48 | 27.07 | | | |
| " | " | 0 - 12 | 26.40 | | | |
| | | 12 - 24 | 23.48 | | | |
| | | 24 - 36 | 25.29 | | | |
| | | 36 - 48 | 25.71 | | | |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|------|--------|-----------------|------|--------|----------------------|----------------------------------|
|------|--------|-----------------|------|--------|----------------------|----------------------------------|

PANOCHÉ (continued)

| | | | |
|-----------|--------|---------|-------|
| Clay Loam | Fresno | 0 - 12 | 24.44 |
| | | 12 - 24 | 24.97 |
| | | 24 - 36 | 23.86 |
| | | 36 - 48 | 25.67 |

PARRISH

| | | | | | | |
|---------------|--------|---------|------|------|-------|------|
| Gravelly Loam | Glenn | 0 - 1 | 20.0 | --- | 1.25 | 1.72 |
| | | 1 - 6 | 19.0 | --- | 1.26 | 1.75 |
| | | 6 - 11 | 19.3 | --- | 1.26 | 1.35 |
| | | 11 - 25 | 24.4 | --- | 1.22 | 1.33 |
| Loam | " | 0 - 5 | 21.1 | 7.2 | (1.4) | 2.34 |
| | | 5 - 11 | 18.0 | 9.7 | (1.4) | 1.39 |
| | | 11 - 25 | 26.8 | 15.0 | (1.5) | 2.12 |
| " | Tehama | 0 - 2 | 29.2 | --- | (1.5) | 3.10 |
| | | 2 - 6½ | 28.1 | --- | (1.5) | 2.59 |
| | | 6½ - 17 | 30.3 | --- | (1.9) | 3.15 |
| | | 17 - 26 | 28.0 | --- | (1.9) | 3.06 |
| | | 26 - 35 | 26.5 | --- | (2.0) | 3.10 |

PAULSELL

| | | | | | | |
|------|------------|---------|------|-----|-------|------|
| Clay | Stanislaus | 0 - 12 | 41.0 | --- | (1.9) | 4.56 |
| | | 12 - 24 | 38.0 | --- | (1.9) | 3.88 |
| | | 24 - 36 | 31.7 | --- | (1.8) | 2.74 |
| | | 36 - 60 | 20.1 | --- | (1.8) | 2.14 |

PENTZ

| | | | | | | |
|---------------|------------|-------|------|-----|-------|------|
| Gravelly Loam | Stanislaus | 0 - 3 | 23.1 | --- | (1.8) | 2.94 |
| | | 3 - 8 | --- | --- | (1.6) | 1.46 |
| | | 8+ | 22.3 | --- | (1.7) | 2.08 |

PETERS

| | | | | | | |
|------|------------|--------|------|------|------|------|
| Clay | Stanislaus | 0 - 16 | 32.5 | 16.6 | 1.18 | 2.25 |
|------|------------|--------|------|------|------|------|

PHIPPS

| | | | | | | |
|------|------|---------|------|------|------|------|
| Loam | Lake | 0 - 4 | 21.8 | 10.1 | 1.24 | 1.74 |
| | | 4 - 10 | 21.1 | 11.8 | 1.24 | 1.38 |
| | | 10 - 23 | 26.7 | 14.5 | 1.21 | 1.77 |
| | | 23 - 34 | 22.1 | 14.1 | 1.24 | 1.19 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|------------------|-------------|-----------------|-------|--------|----------------------|----------------------------------|
| <u>PINOLE</u> | | | | | | |
| Gravelly Loam | Sonoma | 12 - 24 | 20.02 | 10.34 | 1.25 | 1.16 ! |
| Clay Loam | Santa Clara | 6 - 24 | 13.15 | 7.20 | 1.31 | 0.94 |
| | | 24 - 42 | 16.91 | 7.74 | 1.28 | 1.41 |
| | | 42 - 60 | 18.29 | 9.78 | 1.26 | 1.29 |
| | | 60 - 72 | 22.25 | 11.90 | 1.22 | 1.52 |
| | | 72 - 96 | 19.93 | 10.72 | 1.25 | 1.38 |
| " | " | 6 - 12 | 16.69 | 7.33 | 1.28 | 1.25 ! |
| | | 12 - 24 | 15.66 | 6.59 | 1.29 | 1.20 ! |
| | | 24 - 48 | 15.25 | 7.98 | 1.30 | 0.76 ! |
| | | 48 - 72 | 13.74 | 8.01 | 1.30 | 0.58 ! |
| " | " | 6 - 12 | 14.78 | 8.06 | 1.30 | 1.05 |
| | | 12 - 24 | 15.73 | 7.72 | 1.29 | 1.24 |
| | | 24 - 48 | 14.46 | 8.43 | 1.30 | 0.74 ! |
| | | 48 - 60 | 14.68 | 8.30 | 1.30 | 1.00 |
| " | " | 8 - 18 | 20.01 | 10.54 | 1.25 | 1.42 |
| | | 20 - 30 | 19.56 | 10.83 | 1.25 | 1.31 |
| | | 42 - 50 | 23.23 | 12.34 | 1.23 | 1.61 |
| | | 66 - 78 | 22.42 | 15.27 | 1.24 | 1.06 |
| <u>PINTO</u> | | | | | | |
| Loam | Santa Cruz | 0 - 6 | 12.27 | 7.58 | 1.42 | 0.76 |
| <u>PLACENTIA</u> | | | | | | |
| Sandy Loam | Placer | --- | 15.34 | 6.74 | 1.30 | 1.34 |
| " | " | --- | 10.80 | 4.11 | 1.34 | 1.08 |
| " | " | --- | 15.18 | 6.71 | 1.30 | 1.32 |
| " | " | --- | 13.60 | 5.29 | 1.31 | 1.31 |
| Fine Sandy Loam | " | --- | 13.78 | 4.99 | 1.30 | 1.37 |
| Loam | " | --- | 13.43 | 5.59 | 1.31 | 1.23 |
| " | Los Angeles | 0 - 18 | 15.57 | 7.10 | 1.29 | 1.30 ! |
| | | 18 - 36 | 17.01 | 7.69 | 1.28 | 1.42 ! |
| | | 36 - 60 | 17.88 | 9.39 | 1.27 | 1.29 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|------|--------|-----------------|------|--------|----------------------|----------------------------------|
|------|--------|-----------------|------|--------|----------------------|----------------------------------|

PLACENTIA (continued)

| | | | | | | |
|------|-------------|---------|-------|-------|------|------|
| Loam | Los Angeles | 0 - 30 | 16.46 | 8.44 | 1.28 | 1.23 |
| | | 30 - 60 | 21.27 | 12.20 | 1.24 | 1.35 |

PLASKETT

| | | | | | | |
|--------------------------|-------|---------|------|-----|-------|------|
| Gravelly Loam | Glenn | 0 - 3 | 27.6 | | | |
| | | 3 - 13 | 23.4 | | | |
| | | 13 - 27 | 23.2 | | | |
| Slightly " Gravelly Loam | " | 0 - 2 | 24.0 | 8.3 | (1.1) | 2.02 |
| | | 2 - 10 | 24.0 | 4.6 | (1.4) | 3.26 |
| | | 10 - 21 | 23.8 | 4.6 | (1.5) | 3.46 |
| | | 21 - 31 | 23.1 | 4.3 | (1.5) | 3.33 |

PLEASANTON

| | | | | | | |
|---------------------|---------------|---------|--------|------|--------|--------|
| Gravelly Loam | Santa Clara | 6 - 24 | 17.64 | 8.68 | (1.27) | 1.32 |
| | | 24 - 36 | 14.87 | 7.24 | (1.30) | 1.19 |
| | | 36 - 48 | 11.33 | 7.40 | (1.33) | 0.46 ! |
| | | 48 - 84 | 11.16 | 7.54 | (1.33) | 0.45 ! |
| | | 84 - 96 | 11.61 | 6.89 | (1.33) | 0.60 ! |
| " " | " | 6 - 12 | 15.34 | 7.24 | 1.30 | 1.05 ! |
| | | 12 - 24 | 14.21 | 7.44 | 1.30 | 0.76 ! |
| | | 24 - 48 | 11.40 | 7.74 | 1.33 | 0.32 ! |
| | | 48 - 72 | 11.99 | 7.83 | 1.32 | 0.42 ! |
| Gravelly Sandy Loam | San Benito | 0 - 24 | 15.63 | 7.13 | 1.29 | 1.32 |
| Sandy Loam | Santa Barbara | 0 - 24 | 9.02 | 4.31 | 1.37 | 0.77 |
| | | 30 - 42 | 8.48 | 4.06 | 1.37 | 0.73 |
| | | 42 - 48 | 10.42+ | 5.05 | 1.35 | 0.87 |
| | | 48 - 60 | 10.83 | 4.62 | 1.34 | 1.00 |

PLUTH

| | | | | | | |
|------|------|---------|------|------|------|------|
| Loam | Lake | 0 - 11 | 38.2 | 17.4 | 1.16 | 2.90 |
| | | 11 - 28 | 37.1 | 18.2 | 1.17 | 2.65 |
| | | 28 - 46 | 25.5 | 15.4 | 1.21 | 1.47 |

POLE

| | | | | | | |
|-----------|--------|--------|-----|------|------|------|
| Clay Loam | Fresno | 0 - 36 | 7.8 | 3.70 | 1.38 | 0.68 |
|-----------|--------|--------|-----|------|------|------|

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|--------------------|-------------|------------------------------|-------------------------|----------------------|-------------------------|----------------------------------|
| <u>POLEBAR</u> | | | | | | |
| Gravelly Loam | Glenn | 0 - 8 8 - 18 18 - 35 | 17.1 19.7 18.2 | --- | 1.28 1.25 1.27 | 1.50 0.90 1.26 |
| Light Clay Loam | " | 0 - 6 6 - 17 17 - 32 | 20.1 21.8 18.5 | 8.0 11.7 8.0 | (1.5) (1.5) (1.7) | 2.27 1.82 1.89 |
| <u>POND</u> | | | | | | |
| Sandy Loam | Los Angeles | 12 - 42 | 8.51+ | 4.38 | 1.37 | 0.68 |
| Loam | " | 8 - 36 | 9.63 | 4.60 | 1.36 | 0.82 |
| <u>PORTERVILLE</u> | | | | | | |
| Adobe Clay | Tulare | 0 - 12 12 - 24 | 33.76 33.58 | 19.27 18.82 | 1.18 1.18 | 2.05 2.09 |
| Adobe | " | --- | 26.24 | 13.40 | 1.21 | 1.86 |
| " | " | --- | 19.80 | 8.48 | 1.25 | 1.70 |
| " | " | --- | 19.20 | 9.04 | 1.26 | 1.54 |
| " | " | --- | 26.36 | 12.76 | 1.21 | 1.97 |
| " | " | --- | 26.04 | 14.12 | 1.21 | 1.73 |
| " | " | --- | 17.10 | 8.28 | 1.28 | 1.35 |
| " | " | --- | 22.26 | 12.60 | 1.24 | 1.42 |
| " | " | --- | 25.76 | 14.82 | 1.21 | 1.59 |
| " | " | --- | 24.96 | 13.68 | 1.22 | 1.65 |
| <u>RAMONA</u> | | | | | | |
| Loam | Los Angeles | 0 - 18 18 - 36 36 - 60 | 14.66 15.12 14.13 | 7.33 8.39 8.62 | 1.30 1.30 1.30 | 1.14 0.97 0.74 |
| " | " | 0 - 60 | 16.36 | 6.71 | 1.28 | 1.48 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|---------------------------|-------------|-----------------|-------|--------|----------------------|----------------------------------|
| <u>RAMONA (continued)</u> | | | | | | |
| Loam | Los Angeles | 0 - 18 | 13.33 | 6.30 | 1.31 | 1.02 ! |
| | | 18 - 36 | 15.01 | 7.42 | 1.30 | 1.09 ! |
| | | 36 - 60 | 14.73 | 7.54 | 1.30 | 1.03 ! |
| " | " | 0 - 18 | 13.55 | 6.29 | 1.31 | 1.14 |
| | | 18 - 48 | 14.59 | 7.69 | 1.30 | 1.03 ! |
| | | 48 - 72 | 14.51 | 7.79 | 1.30 | 0.99 ! |
| " | " | 0 - 18 | 16.11 | 7.50 | 1.29 | 1.33 |
| | | 18 - 36 | 16.88 | 8.89 | 1.28 | 1.23 |
| | | 36 - 60 | 17.32 | 9.11 | 1.28 | 1.26 |
| " | " | 0 - 24 | 12.59 | 5.78 | 1.31 | 1.07 |
| | | 24 - 48 | 13.92 | 7.22 | 1.30 | 1.05 |
| " | " | 0 - 12 | 16.23 | 7.40 | 1.29 | 1.37 |
| | | 12 - 24 | 19.34 | 10.56 | 1.26 | 1.34 |
| Clay Loam | " | 0 - 15 | 19.80 | 9.75 | 1.25 | 1.51 |
| | | 15 - 36 | 18.77 | 9.88 | 1.26 | 1.34 |
| | | 36 - 54 | 18.17 | 9.86 | 1.27 | 1.27 |
| <u>RAYNOR</u> | | | | | | |
| Clay | Stanislaus | 0 - 15 | 26.0 | --- | (2.0) | 3.36 |
| | | 15 - 30 | 31.1 | --- | (1.9) | 3.31 |
| | | 30 - 39 | 33.1 | --- | (1.8) | 3.82 |
| | | 39 - 50 | 33.6 | --- | (1.9) | 4.72 |
| | | 50+ | 29.4 | --- | 1.20 | 2.20 |
| <u>REDDING</u> | | | | | | |
| Gravelly Loam | Stanislaus | 0 - 3 | 15.0 | --- | (1.9) | 2.51 |
| | | 3 - 12 | 15.4 | --- | (1.9) | 2.50 |
| | | 12 - 18 | 34.0 | --- | (1.9) | 3.19 |
| | | 18 - 28 | 20.9 | --- | (1.9) | --- |
| | | 28 - 52 | 24.8 | --- | (1.8) | --- |
| <u>RINCON</u> | | | | | | |
| Very Fine Sandy Loam | Monterey | 0 - 12 | 14.15 | 6.45 | 1.30 | 1.20 |
| Loam | " | 0 - 16 | 27.58 | 15.21 | 1.20 | 1.78 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|---------------------------|--------------|-----------------|-------|--------|----------------------|----------------------------------|
| <u>RINCON (continued)</u> | | | | | | |
| Loam | San Benito | 0 - 6 | 19.17 | 9.17 | 1.26 | 1.51 |
| | | 6 - 12 | 22.77 | 11.58 | 1.23 | 1.65 |
| | | 12 - 18 | 25.09 | 13.82 | 1.22 | 1.65 |
| Clay Loam | San Joaquin | 0 - 12 | 26.40 | 15.29 | (1.55) | 2.07 |
| | | 12 - 24 | 28.26 | 16.94 | (1.60) | 2.17 |
| | | 24 - 36 | 23.30 | 15.05 | 1.23 | 1.22 |
| | | 36 - 48 | 23.79 | 15.00 | 1.22 | 1.29 |
| Clay | Stanislaus | 0 - 11 | 19.21 | 11.16 | 1.26 | 1.22 |
| | | 12 - 24 | 19.52 | 11.38 | 1.26 | 1.23 |
| | | 25 - 40 | 19.40 | 10.40 | 1.26 | 1.36 |
| | | 40 - 57 | 17.32 | 9.38 | 1.27 | 1.21 |
| " | Contra Costa | 0 - 12 | 25.64 | 15.39 | 1.21 | 1.49 |
| | | 12 - 40 | 23.84 | 15.28 | 1.22 | 1.25 |
| | | 40 - 80 | 23.73 | 15.60 | 1.22 | 1.19 |
| <u>RIPPERDAN</u> | | | | | | |
| Sandy Loam | Stanislaus | 0 - 6 | 10.66 | 3.08 | (1.70) | 1.55 |
| | | 6 - 12 | 10.15 | 3.40 | (1.71) | 1.39 |
| | | 12 - 24 | 9.80 | 3.14 | (1.55) | 1.24 |
| | | 24 - 30 | 10.06 | 3.20 | (1.62) | 1.33 |
| <u>ROCKCRUSHER</u> | | | | | | |
| Silt | Los Angeles | --- | 3.99+ | 2.24 | 1.47 | 0.31 |
| <u>ROCKLIN</u> | | | | | | |
| Fine Sandy Loam | Placer | --- | 16.88 | 6.85 | 1.28 | 1.54 |
| " | " | --- | 11.03 | 4.24 | 1.34 | 1.09 |
| " | " | --- | 12.13 | 4.62 | 1.32 | 1.19 |
| " | " | --- | 11.58 | 4.83 | 1.33 | 1.08 |
| " | " | --- | 14.49 | 6.27 | 1.30 | 1.28 |
| " | " | --- | 11.36 | 4.54 | 1.33 | 1.09 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|----------------------------|------------|-----------------|-------|--------|----------------------|----------------------------------|
| <u>ROCKLIN (continued)</u> | | | | | | |
| Fine Sandy Loam | Stanislaus | 0 - 7 | 9.5 | 2.4 | (1.7) | 1.42 |
| | | 7 - 9 | 9.8 | --- | (1.8) | --- |
| | | 9 - 17 | 9.8 | --- | (1.9) | --- |
| | | 17 - 22 | 11.1 | --- | (1.9) | --- |
| | | 22 - 28 | 14.1 | --- | (1.9) | --- |
| <u>ROHNERVILLE</u> | | | | | | |
| Fine Sandy Loam | Humboldt | 0 - 32 | 23.38 | 14.56 | (1.22) | 1.29 |
| " " | " | 0 - 36 | 24.12 | 14.80 | (1.22) | 1.36 |
| <u>ROSITAS</u> | | | | | | |
| Fine Sand | Riverside | 0 - 12 | 12.20 | 4.47 | 1.32 | 1.22 |
| Fine Sandy Loam | " | 0 - 12 | 15.47 | 7.39 | 1.29 | 1.25 |
| <u>ROSSI</u> | | | | | | |
| Clay Loam | Stanislaus | 0 - 3 | 28.3 | --- | (1.6) | 4.42 |
| | | 3 - 11 | 32.0 | --- | (1.9) | --- |
| | | 11 - 21 | 32.3 | --- | (1.9) | 6.34 |
| | | 21 - 38 | 25.5 | --- | (1.9) | 5.79 |
| | | 38 - 56 | 23.7 | --- | (1.8) | 5.57 |
| <u>RUMSEY</u> | | | | | | |
| Silty Loam | Tehama | 0 - 2 | 25.4 | --- | (1.7) | 3.23 |
| | | 2 - 6 | 22.6 | --- | (1.7) | 2.46 |
| | | 6 - 9 | 22.8 | --- | (1.7) | 1.94 |
| | | 9 - 17 | 24.9 | --- | (1.8) | 2.18 |
| | | 17 - 24 | 25.9 | --- | (1.9) | 2.53 |
| | | 24 - 34 | 26.4 | --- | (1.8) | 2.81 |
| | | 34+ | 28.7 | --- | (1.7) | 3.16 |
| <u>RYERE</u> | | | | | | |
| Loam | Stanislaus | 0 - 6 | 23.7 | 11.24 | (1.60) | 2.39 |
| | | 6 - 16 | 22.2 | 11.00 | (1.62) | 2.18 |
| | | 16 - 25 | 23.6 | 11.98 | (1.67) | 2.33 |
| | | 25 - 37 | 23.8 | 12.5 | (1.58) | 2.14 |
| | | 37 - 48 | 23.8 | 13.17 | (1.51) | 1.93 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|------------------|---------------|-----------------|-------|--------|----------------------|----------------------------------|
| <u>RIVERWASH</u> | | | | | | |
| --- | Yuba | 0 - 12 | 7.40 | 3.43 | | |
| | | 12 - 24 | 7.09 | 3.36 | | |
| | | 24 - 36 | 6.76 | 3.19 | | |
| | | 36 - 48 | 18.41 | 6.72 | | |
| | | 48 - 60 | 22.75 | 7.61 | | |
| " | " | 0 - 12 | 17.59 | 6.20 | | |
| | | 12 - 24 | 15.97 | 5.66 | | |
| | | 24 - 36 | 16.62 | 5.47 | | |
| | | 36 - 48 | 15.98 | 5.93 | | |
| | | 48 - 60 | 22.33 | 7.16 | | |
| " | " | 0 - 12 | 14.72 | 6.32 | | |
| | | 12 - 24 | 18.00 | 6.34 | | |
| | | 24 - 36 | 13.68 | 5.80 | | |
| " | " | 0 - 12 | 15.34 | 6.07 | | |
| | | 12 - 24 | 12.99 | 5.38 | | |
| | | 24 - 36 | 12.29 | 4.87 | | |
| <u>SALINAS</u> | | | | | | |
| Fine Sandy | Monterey Loam | 0 - 15 | 15.41 | 6.82 | 1.30 | 1.34 |
| " | " | 0 - 12 | 29.32 | 16.17 | 1.20 | 1.89 |
| | | 12 - 24 | 29.93 | 17.22 | 1.19 | 1.81 |
| | | 24 - 36 | 31.14 | 18.66 | 1.19 | 1.80 |
| " | " | 0 - 12 | 27.71 | 16.15 | 1.20 | 1.66 |
| | | 12 - 24 | 30.82 | 17.04 | 1.19 | 1.97 |
| | | 24 - 36 | 29.93 | 16.82 | 1.19 | 1.89 |
| " | " | 0 - 12 | 29.46 | 16.14 | 1.20 | 1.92 |
| | | 12 - 24 | 32.10 | 19.79 | 1.18 | 1.74 |
| | | 24 - 36 | 28.23 | 20.05 | 1.20 | 1.18 |
| | | 36 - 48 | 28.56 | --- | --- | --- |
| | | 48 - 60 | 28.58 | --- | --- | --- |
| | | 60 - 72 | 19.84 | --- | --- | --- |
| " | " | 0 - 12 | 29.16 | 15.96 | 1.20 | 1.90 |
| | | 12 - 24 | 32.27 | 19.81 | 1.18 | 1.76 |
| | | 24 - 36 | 31.69 | 19.15 | 1.18 | 1.78 |
| | | 36 - 48 | 28.56 | --- | --- | --- |
| | | 48 - 60 | 35.27 | --- | --- | --- |
| | | 60 - 72 | 26.11 | --- | --- | --- |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|----------------------------|----------|-----------------|-------|--------|----------------------|----------------------------------|
| <u>SALINAS (continued)</u> | | | | | | |
| Fine Sandy Loam | Monterey | 0 - 12 | 29.22 | 16.31 | 1.20 | 1.86 |
| | | 12 - 24 | 31.44 | 19.40 | 1.19 | 1.72 |
| | | 24 - 36 | 30.63 | 19.09 | 1.19 | 1.65 |
| | | 36 - 48 | 28.92 | 16.28 | 1.20 | 1.82 |
| " " | " | 0 - 12 | 29.45 | 15.23 | 1.20 | 2.05 |
| | | 12 - 24 | 31.02 | 18.45 | 1.19 | 1.79 |
| | | 24 - 36 | 33.92 | 22.07 | 1.18 | 1.68 |
| | | 36 - 48 | 30.45 | 19.68 | 1.19 | 1.54 |
| " " | " | 0 - 12 | 29.10 | 15.75 | 1.20 | 1.92 |
| | | 12 - 24 | 31.02 | 17.77 | 1.19 | 1.89 |
| | | 24 - 36 | 33.62 | 20.21 | 1.18 | 1.90 |
| | | 36 - 48 | 30.21 | 17.71 | 1.19 | 1.79 |
| | | 48 - 60 | 32.05 | --- | 1.18 | --- |
| | | 60 - 72 | 25.90 | --- | 1.21 | --- |
| " " | " | 0 - 12 | 28.55 | 16.45 | 1.20 | 1.74 |
| | | 12 - 24 | 31.76 | 18.62 | 1.19 | 1.88 |
| | | 24 - 36 | 30.54 | --- | --- | --- |
| | | 36 - 48 | 28.25 | --- | --- | --- |
| | | 48 - 60 | 31.75 | --- | --- | --- |
| | | 60 - 72 | 26.99 | --- | --- | --- |
| " " | " | 0 - 12 | 17.54 | 7.09 | 1.27 | 1.59 |
| (over-wash phase) | | | | | | |
| Very Fine Sandy Loam | Monterey | 0 - 18 | 27.90 | 15.20 | 1.20 | 1.83 |
| Silty Clay Loam | " | 0 - 48 | 26.11 | 13.17 | 1.21 | 1.88 |
| " " | " | 0 - 12 | 29.56 | 13.11 | 1.19 | 2.35 |
| | | 12 - 24 | 28.33 | 12.49 | 1.20 | 2.28 |
| " " | " | Ridge - 6 | 24.63 | 13.42 | 1.22 | 1.64 |
| | | 12 - 18 | 25.17 | 13.05 | 1.22 | 1.77 |
| | | 24 - 30 | 24.33 | 11.74 | 1.22 | 1.84 |
| " " | " | Ridge - 6 | 25.16 | 13.07 | 1.22 | 1.77 |
| | | 12 - 18 | 26.35 | 12.82 | 1.21 | 1.96 |
| | | 24 - 30 | 24.50 | 12.65 | 1.22 | 1.73 |
| Clay Loam | " | 0 - 16 | 18.34 | 8.27 | 1.26 | 1.52 |
| Clay | " | 0 - 18 | 29.85 | 14.00 | 1.19 | 2.26 |
| " " | " | 0 - 12 | 32.63 | 16.39 | 1.18 | 2.30 |
| | | 12 - 24 | 34.53 | 16.80 | 1.17 | 2.49 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|--------------------|--------|-----------------|-------|--------|----------------------|----------------------------------|
| <u>SALMINUS</u> | | | | | | |
| Gravelly | Tehama | 0 - 3 | 36.8 | | | |
| Loam | | 3 - 8 | 30.8 | | | |
| | | 8 - 22 | 27.9 | | | |
| | | 22 - 34 | 27.8 | | | |
| | | 34 - 45 | 30.3 | | | |
| Loam | " | 0 - 2 | 28.1 | | | |
| | | 2 - 8 | 25.9 | | | |
| | | 8 - 24 | 24.9 | | | |
| | | 24 - 39 | 32.0 | | | |
| | | 39 - 54 | 42.5 | | | |
| " | Lake | 0 - 2 | 31.3 | 10.6 | 1.19 | 2.56 |
| | | 2 - 10 | 28.3 | 12.3 | 1.20 | 2.15 |
| | | 10 - 33 | 25.4 | 12.7 | 1.22 | 1.58 |
| | | 33 - 48 | 29.9 | 17.5 | 1.20 | 1.83 |
| <u>SAN JOAQUIN</u> | | | | | | |
| Gravelly | Placer | --- | 23.67 | 10.35 | 1.23 | 1.97 |
| Loam | " | --- | 15.33 | 6.14 | 1.30 | 1.43 |
| " | " | --- | 15.68 | 5.38 | 1.29 | 1.59 |
| " | " | --- | 9.87 | 3.88 | 1.35 | 0.97 |
| " | Yuba | 0 - 12 | 10.42 | 6.69 | (1.34) | 0.60 |
| | | 12 - 24 | 9.86 | 6.68 | (1.35) | 0.52 |
| Sandy | Tulare | 0 - 7 | 10.97 | 4.40 | 1.34 | 1.06 |
| Loam | " | 0 - 7 | 11.66 | 4.38 | 1.32 | 1.15 |
| " | " | 8 - 15 | 10.01 | 4.70 | 1.35 | 0.84 |
| " | " | 8 - 15 | 11.82 | 4.85 | 1.32 | 1.10 |
| " | " | --- | 11.80 | 2.82 | 1.32 | 1.42 |
| " | " | --- | 9.76 | 3.32 | 1.35 | 1.04 |
| " | " | 0 - 12 | 13.70 | 3.93 | 1.30 | 1.52 |
| | | 12 - 24 | 13.40 | 4.10 | 1.31 | 1.46 |
| Gravelly | Yuba | 0 - 12 | 12.88 | 6.88 | (1.31) | 0.94 |
| Loam | | 12 - 24 | 12.27 | 6.77 | (1.32) | 0.87 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|--------------------------------|------------|-----------------|-------|--------|----------------------|----------------------------------|
| <u>SAN JOAQUIN (continued)</u> | | | | | | |
| Sandy Loam | Stanislaus | 0 - 3 | 16.3 | --- | (1.5) | 1.58 |
| | | 3 - 10 | 12.6 | 3.3 | (1.8) | 1.90 |
| | | 10 - 13 | 13.2 | --- | (1.8) | 1.36 |
| | | 13 - 19 | 15.0 | 6.5 | (1.8) | 1.81 |
| | | 19 - 24 | 19.0 | --- | (1.9) | 2.14 |
| | | 24 - 48 | --- | --- | (1.9) | --- |
| | | 48 - 60 | --- | --- | (1.9) | --- |
| Fine Sandy Loam | Placer | --- | 14.63 | 6.30 | 1.30 | 1.30 |
| " | " | --- | 10.47 | 4.65 | 1.35 | 0.94 |
| " | " | --- | 14.48 | 4.89 | 1.30 | 1.50 |
| " | " | --- | 14.22 | 4.41 | 1.30 | 1.53 |
| " | " | --- | 13.14 | 5.12 | 1.31 | 1.26 |
| " | " | --- | 13.90 | 5.64 | 1.30 | 1.28 |
| " | " | --- | 11.29 | 4.81 | 1.34 | 1.04 |
| " | " | --- | 12.05 | 4.87 | 1.32 | 1.14 |
| Loam | " | --- | 15.38 | 5.64 | 1.29 | 1.51 |
| " | " | --- | 12.96 | 6.25 | 1.31 | 1.05 |
| " | " | --- | 12.55 | 6.08 | 1.32 | 1.02 |
| " | " | --- | 12.84 | 5.32 | 1.32 | 1.19 |
| " | " | --- | 10.71 | 3.69 | 1.34 | 1.13 |
| " | " | --- | 27.95 | 19.13 | 1.20 | 1.27 |
| " | " | --- | 14.66 | 6.10 | 1.30 | 1.34 |
| " | " | --- | 14.66 | 5.83 | 1.30 | 1.38 |
| " | Tulare | --- | 16.36 | 6.12 | 1.28 | 1.57 |
| | | | 12.06 | 4.80 | 1.32 | 1.15 |
| | | | 12.56 | 4.04 | 1.32 | 1.35 |
| | | | 17.98 | 4.98 | 1.27 | 1.98 |
| | | | 11.30 | 4.60 | 1.33 | 1.07 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|--------------------------------|-------------|-----------------|-------|--------|----------------------|----------------------------------|
| <u>SAN JOAQUIN (continued)</u> | | | | | | |
| Loam | Fresno | --- | 7.0 | 3.0 | 1.40 | 0.67 |
| " | " | 0 - 12 | 7.8 | 3.0 | 1.38 | 0.79 |
| | | 12 - 24 | 8.0 | 4.2 | 1.38 | 0.63 |
| | | 24 - 36 | 9.1 | 4.4 | 1.37 | 0.77 |
| | | 36 - 48 | 9.6 | 4.9 | 1.36 | 0.77 |
| | | 48 - 60 | 10.1 | 5.5 | 1.35 | 0.75 |
| --- | Yuba | 0 - 12 | 15.97 | 6.30 | 1.29 | 1.50 |
| | | 12 - 24 | 19.90 | 9.65 | 1.26 | 1.55 |
| <u>SAN YSIDRO</u> | | | | | | |
| Clay Loam | Santa Clara | 6 - 24 | 19.04 | 8.77 | 1.26 | 1.55 |
| | | 24 - 30 | 24.30 | 13.21 | 1.22 | 1.62 |
| | | 30 - 48 | 24.48 | 13.30 | 1.22 | 1.64 |
| | | 48 - 72 | 18.89 | 10.64 | 1.26 | 1.25 |
| | | 72 - 90 | 21.12 | 11.66 | 1.24 | 1.41 |
| <u>SEHORN</u> | | | | | | |
| Silty Clay Loam | Glenn | 0 - 5 | 25.8 | --- | 1.21 | 1.64 |
| | | 5 - 13 | 26.5 | --- | 1.21 | 1.38 |
| | | 13 - 27 | 27.0 | --- | 1.21 | 1.34 |
| Clay | Tehama | 0 - 3 | 30.7 | --- | (1.9) | 2.64 |
| | | 3 - 10 | 29.7 | --- | (1.9) | 2.67 |
| | | 10 - 18 | 28.7 | --- | (1.9) | 2.17 |
| | | 18 - 26 | 28.8 | --- | (2.0) | 2.35 |
| | | 26 - 33 | 29.0 | --- | (2.0) | 3.00 |
| <u>SHAVER</u> | | | | | | |
| Coarse Sandy Loam | Fresno | 0 - 5 | 19.3 | --- | (1.1) | --- |
| | | 5 - 36 | 14.1 | --- | (1.4) | --- |
| | | 36 - 72 | 11.6 | --- | (1.5) | --- |
| <u>SHEETIRON</u> | | | | | | |
| Gritty Loam | Glenn | 0 - 4 | 24.1 | 8.3 | (1.2) | 2.28 |
| | | 4 - 11 | 26.6 | 8.1 | (1.3) | 2.89 |
| | | 11 - 26 | 24.2 | 9.3 | (1.4) | 2.50 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|------------------------------|------------|-----------------|-------|--------|----------------------|----------------------------------|
| <u>SHEETIRON (continued)</u> | | | | | | |
| Gravelly Loam | Glenn | 0 - 5 | 27.6 | --- | (1.6) | --- |
| | | 5 - 15 | 23.0 | --- | (1.8) | --- |
| | | 15 - 28 | 23.5 | --- | (1.7) | --- |
| Loam | Lake | 0 - 1 | 22.6 | --- | --- | --- |
| | | 1 - 8 | 20.7 | --- | 1.24 | 1.53 |
| | | 8 - 25 | 23.8 | --- | --- | --- |
| <u>SHERIDAN</u> | | | | | | |
| Sandy Loam | Santa Cruz | 0 - 12 | 13.11 | 5.72 | 1.42 | 1.19 |
| | | 12 - 24 | 13.56 | 6.13 | 1.42 | 1.20 |
| <u>SHINN</u> | | | | | | |
| Coarse Sandy Loam | Fresno | 0 - 3 | 14.9 | --- | (1.2) | 1.42 |
| | | 3 - 8 | 13.0 | --- | (1.2) | 1.16 |
| | | 8 - 17 | 12.2 | --- | (1.3) | 1.10 |
| | | 17 - 30 | 11.9 | --- | (1.5) | 1.19 |
| | | 30 - 54 | 11.4 | --- | (1.9) | 1.35 |
| | | 54+ | 6.18 | --- | (1.8) | 8.42? |
| <u>SIEGLER</u> | | | | | | |
| Gravelly Loam | Mendocino | 0 - 8 | 23.4 | 9.0 | (1.4) | 2.42 |
| | | 8 - 15 | 25.0 | 13.0 | (1.7) | 2.45 |
| | | 15 - 26 | 25.1 | 14.0 | (1.8) | 2.38 |
| | | 26 - 36 | 26.1 | 13.9 | (1.8) | 2.64 |
| Loam | Lake | 0 - 5 | 26.2 | 13.4 | 1.21 | 1.86 |
| | | 5 - 14 | 26.3 | 13.4 | 1.21 | 1.87 |
| | | 14 - 24 | 29.9 | 17.7 | 1.19 | 1.74 |
| | | 24 - 30 | 25.2 | 15.5 | 1.22 | 1.42 |
| <u>SITES</u> | | | | | | |
| Stony Loam | Placer | --- | 23.49 | 12.43 | 1.23 | 1.63 |
| " | " | --- | 21.41 | 12.85 | 1.24 | 1.27 |
| " | " | --- | 26.49 | 14.90 | 1.21 | 1.68 |
| " | " | --- | 25.71 | 12.24 | 1.21 | 1.96 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|------|--------|-----------------|------|--------|----------------------|----------------------------------|
|------|--------|-----------------|------|--------|----------------------|----------------------------------|

SITES (continued)

| | | | | | | |
|--------------------|--------|---------|-------|-------|-------|------|
| Stony Loam | Placer | --- | 19.38 | 9.10 | 1.26 | 1.55 |
| " | " | --- | 24.19 | 11.19 | 1.22 | 1.90 |
| Gravelly Loam | Glenn | 0 - 3 | 29.4 | --- | --- | --- |
| | | 3 - 23 | 22.5 | --- | --- | --- |
| | | 23 - 52 | 22.1 | --- | (1.8) | --- |
| Stony Clay Loam | Placer | --- | 23.89 | 12.77 | 1.22 | 1.63 |

SNELLING

| | | | | | | |
|---------------|------------|---------|------|-----|-------|------|
| Sandy Loam | Stanislaus | 0 - 15 | 7.9 | --- | (1.7) | 0.93 |
| | | 15 - 19 | 8.3 | --- | (1.9) | 1.10 |
| | | 19 - 27 | 9.7 | --- | (2.0) | 1.05 |
| | | 27 - 40 | 14.1 | --- | (1.8) | 1.46 |
| | | 40 - 56 | 13.3 | --- | (1.8) | 1.40 |
| | | 56 - 74 | 10.9 | --- | (1.6) | 0.98 |

SOBRANTE

| | | | | | | |
|------|------|---------|------|------|------|------|
| Loam | Lake | 0 - 3 | 21.6 | 10.8 | 1.24 | 1.61 |
| | | 3 - 12 | 19.3 | --- | 1.26 | 0.95 |
| | | 12 - 28 | 26.3 | --- | 1.21 | 0.70 |

SOPER

| | | | | | | |
|------------------|------|---------|------|------|------|------|
| Gravelly Loam | Lake | 0 - 6 | 17.9 | 12.1 | 1.27 | 1.23 |
| | | 6 - 22 | 22.6 | 10.8 | 1.23 | 1.39 |
| | | 22 - 37 | 24.3 | 17.4 | 1.22 | 1.01 |

SORRENTO

| | | | | | | |
|------------------------|-----------------------|---------|-------|------|------|------|
| Gravelly Fine Sandy | Santa Barbara Loam | 0 - 6 | 7.67+ | 4.38 | 1.39 | 0.55 |
| | | 6 - 18 | 8.87+ | 4.86 | 1.37 | 0.66 |
| | | 18 - 30 | 9.12+ | 5.09 | 1.37 | 0.66 |
| | | 30 - 48 | 10.46 | 5.89 | 1.34 | 0.73 |
| " | " | 0 - 6 | 8.65+ | 4.37 | 1.37 | 0.70 |
| | | 6 - 18 | 7.86+ | 5.09 | 1.38 | 0.46 |
| | | 18 - 30 | 7.75+ | 4.74 | 1.38 | 0.50 |
| | | 30 - 48 | 8.65+ | 4.34 | 1.37 | 0.71 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|-----------------------------|---------------|---|--|----------------------------------|--|----------------------------------|
| <u>SORRENTO (continued)</u> | | | | | | |
| Fine Sandy Loam | Santa Barbara | 0 - 6 6 - 18 18 - 30 30 - 48 | 12.37 14.26 13.80 13.04 | 6.64 7.53 8.13 7.20 | 1.32 1.30 1.30 1.31 | 0.91 1.05 0.88 0.92 |
| " " | " | 0 - 6 6 - 18 18 - 30 30 - 48 | 12.23 13.61 13.42 12.89 | 6.76 7.66 7.63 7.20 | 1.32 1.31 1.31 1.31 | 0.87 0.94 0.91 0.89 |
| Loam | Stanislaus | 0 - 13 13 - 26 26 - 53 | 27.87 27.48 26.22 | 15.10 15.67 15.91 | 1.20 1.20 1.21 | 1.84 1.70 1.50 |
| " " | " | 0 - 13 13 - 26 26 - 53 | 23.09 22.95 21.90 | 11.62 13.56 12.18 | 1.23 1.23 1.24 | 1.69 1.39 1.45 |
| " " | " | 0 - 12 12 - 24 24 - 36 | 24.01 23.73 21.94 | 13.47 11.96 11.89 | 1.22 1.23 1.24 | 1.54 1.74 1.50 |
| Silty Clay | San Joaquin | 0 - 12 12 - 24 24 - 36 36 - 48 | 25.01 27.98 25.80 25.31 | 13.76 15.90 14.77 13.62 | (1.44) (1.55) 1.21 1.21 | 1.96 2.25 1.60 1.70 |
| Clay Loam | Stanislaus | 0 - 12 12 - 24 24 - 36 36 - 48 48 - 60 60 - 72 | 23.33 23.67 22.46 21.41 20.51 17.84 | --- | 1.23 1.23 1.23 1.24 1.25 1.27 | --- |
| " | Contra Costa | 0 - 20 20 - 78 | 22.57 23.02 | 11.22 12.33 | 1.23 1.23 | 1.68 1.58 |

STANDISH

| | | | | | | |
|------|--------|--|--|---|--|--|
| Loam | Lassen | 0 - 14 14 - 26 26 - 32 32 - 44 44 - 56 56 - 68 68 - 80 80 - 92 92 - 104 104 - 116 | 14.14 16.01 17.50 19.21 19.69 19.72 21.41 36.44 44.94 45.73 | 8.56 9.42 9.90 11.56 11.00 10.74 13.12 20.91 23.59 25.95 | (1.28) (1.20) (1.23) (1.25) (1.37) (1.49) (1.46) (1.19) (0.86) (0.83) | 0.86 0.95 1.12 1.15 1.43 1.61 1.98 2.22 2.20 1.97 |
|------|--------|--|--|---|--|--|

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|------|--------|-----------------|------|--------|----------------------|----------------------------------|
|------|--------|-----------------|------|--------|----------------------|----------------------------------|

STANDISH (continued)

| | | | | | | |
|------|--------|---------|-------|-------|--------|------|
| Loam | Lassen | 0 - 12 | 16.81 | 9.30 | (1.29) | 1.16 |
| | | 12 - 24 | 18.58 | 10.07 | (1.16) | 1.18 |
| | | 24 - 36 | 18.61 | 10.54 | (1.20) | 1.16 |
| | | 36 - 48 | 19.36 | 10.40 | (1.25) | 1.34 |
| | | 48 - 60 | 20.59 | 11.80 | (1.40) | 1.48 |
| | | 60 - 72 | 23.62 | 13.49 | (1.39) | 1.69 |
| | | 72 - 84 | 25.45 | 14.13 | (1.39) | 1.89 |
| | | 84 - 96 | 37.96 | 21.93 | (1.21) | 2.33 |

STONYFORD

| | | | | | | |
|-----------------------|-----------|--------|------|------|-------|------|
| Gravelly Clay Loam | Mendocino | 0 - 5 | 33.9 | 17.8 | (1.4) | 2.69 |
| | | 5 - 15 | 32.2 | 19.3 | (1.5) | 2.32 |
| Clay Loam | Glenn | 0 - 4 | 31.4 | 16.4 | (1.3) | 2.34 |
| | | 4 - 17 | 33.9 | 21.6 | (1.3) | 1.92 |

STOVER

| | | | | | | |
|------------------|--------|---------|------|--|--|--|
| Gravelly Loam | Tehama | 0 - 8 | 24.6 | | | |
| Loam | " | 0 - 3 | 27.5 | | | |
| Clay Loam | | 3 - 21 | 25.2 | | | |
| | | 21 - 34 | 25.9 | | | |
| | | 34 - 51 | 27.0 | | | |

STUMP SPRINGS

| | | | | | | |
|---------------|--------|---------|------|-----|-------|------|
| Sandy Loam | Fresno | 0 - 4 | 16.1 | --- | (1.3) | 1.59 |
| | | 4 - 17 | 12.4 | --- | (1.4) | 1.30 |
| | | 17 - 42 | 17.4 | --- | (1.7) | 1.12 |
| | | 42+ | 13.8 | --- | (1.8) | 0.90 |

SUPAN

| | | | | | | |
|------------------|--------|---------|------|--|--|--|
| Gravelly Loam | Tehama | 0 - 5 | 28.7 | | | |
| | | 5 - 18 | 24.3 | | | |
| | | 18 - 36 | 25.7 | | | |
| | | 36 - 42 | 30.5 | | | |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|------|--------|-----------------|------|--------|----------------------|----------------------------------|
|------|--------|-----------------|------|--------|----------------------|----------------------------------|

SURPRISE

| | | | | | | |
|-----------------|-------|---|--|--|--|--|
| Fine Sandy Loam | Modoc | 0 - 12 12 - 24 24 - 36 36 - 48 48 - 60 60 - 78 | 18.23 19.64 17.94 22.87 23.14 15.92 | 9.34 10.78 9.81 10.86 11.06 8.38 | (1.16) (1.24) (1.20) (1.15) (0.94) (0.42) | 1.24 1.32 1.17 1.66 1.36 0.38 |
| " " | " | 0 - 12 12 - 24 24 - 36 36 - 48 48 - 60 60 - 72 72 - 84 84 - 96 | 26.57 26.76 31.16 33.66 28.25 25.11 22.26 19.75 | 14.84 15.31 17.07 18.04 15.58 13.86 12.37 10.79 | (1.12) (1.27) (1.18) (1.29) (1.19) (1.23) (1.42) (1.37) | 1.58 1.72 1.37 2.42 1.81 1.66 1.69 1.47 |

SUTHERLIN

| | | | | | | |
|------|-----------|---|--|--|--|--|
| Loam | Mendocino | 0 - 2 2 - 6 6 - 11 11 - 26 36 - 41 41 - 53 | 27.9 18.9 19.2 26.6 23.5 23.1 | 10.9 5.8 7.6 14.3 --- --- | (1.3) (1.7) (1.7) (1.8) (2.0) (1.9) | 2.65 2.22 1.98 2.66 --- --- |
|------|-----------|---|--|--|--|--|

SUTTER

| | | | | | | |
|-------------------------|--------|--------|-------|-----|------|-----|
| Clay Loam Sandy Loam | Sutter | 0 - 12 | 23.78 | --- | 1.23 | --- |
| " " | " | 0 - 12 | 11.69 | --- | 1.33 | --- |
| " " | " | 0 - 12 | 12.49 | --- | 1.32 | --- |
| " " | " | 0 - 12 | 15.20 | --- | 1.30 | --- |

TEHAMA

| | | | | | | |
|---------------|--------|-------------------------------|-------------------------|-------------------------|----------------------|--------------------------|
| Gravelly Loam | Sonoma | 12 - 24 24 - 36 36 - 42 | 19.77 18.28 21.56 | 10.19 10.07 11.00 | 1.25 1.27 1.24 | 1.44 1.21 ! 1.00 ! |
| Silty Loam | Tehama | 0 - 8 10 - 20 | 23.41 21.81 | 7.41 8.58 | 1.22 1.23 | 2.34 1.96 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|------|--------|-----------------|------|--------|----------------------|----------------------------------|
|------|--------|-----------------|------|--------|----------------------|----------------------------------|

TEHAMA (continued)

| | | | | | | |
|------------|-------|------------------------------|----------------------|---------------------|----------------------|----------------------|
| Silty Loam | Glenn | 0 - 12 12 - 28 28 - 60 | 20.0 21.9 22.2 | 8.3 11.6 11.3 | 1.25 1.24 1.24 | 1.75 1.50 1.61 |
| Loam | Glenn | 0 - 10 10 - 32 32 - 40 | 13.6 14.6 28.3 | 4.0 4.8 16.3 | 1.30 1.30 1.20 | 1.54 1.53 1.89 |

TEMPLE

| | | | | | | |
|-----------------|------------|---|---|-----|---|--|
| Silty Clay Loam | Stanislaus | 0 - 8½ 8½ - 15 15 - 21 21 - 26 26 - 31 31 - 44 44 - 60? | 36.2 33.9 32.2 29.0 24.4 19.6 4.0 | --- | (1.4) (1.7) (1.7) (1.8) (1.8) (1.6) (1.6) | 4.62 4.65 4.51 3.72 3.76 3.39 0.36 |
|-----------------|------------|---|---|-----|---|--|

TOLLHOUSE

| | | | | | | |
|------------|--------|--------------------------|----------------------|-----|----------------------|----------------------|
| Sandy Loam | Fresno | 0 - 11 11 - 18 18+ | 12.2 11.7 8.19 | --- | 1.32 1.32 1.38 | 1.10 1.08 1.18 |
|------------|--------|--------------------------|----------------------|-----|----------------------|----------------------|

TOOMES

| | | | |
|------------|--------|--------------------------|----------------------|
| Rocky Loam | Tehama | 0 - 8 | 24.9 |
| " | " | 0 - 8 | 26.0 |
| " | " | 0 - 8 | 28.4 |
| " | " | 0 - 2 2 - 7 7 - 12 | 22.1 22.1 22.4 |
| " | " | 0 - 1½ 1½ - 6 | 34.1 27.3 |

TRAVER

| | | | | | | |
|------------|------------|-----------------------------------|---------------------------|-----|----------------------------------|------------------------------|
| Sandy Loam | Stanislaus | 0 - 7 7 - 23 23 - 31 31+ | 11.9 6.2 6.2 6.1 | --- | (1.6) (1.7) (1.7) (1.7) | 1.44 0.80 1.39 1.60 |
|------------|------------|-----------------------------------|---------------------------|-----|----------------------------------|------------------------------|

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|------------------|---------------------------|-----------------|-------|--------|----------------------|----------------------------------|
| <u>TUJUNGA</u> | | | | | | |
| Sand | Stanislaus | 0 - 10 | 6.0 | 2.6 | (1.3) | 0.53 |
| | | 10 - 30 | 5.2 | 2.3 | (1.6) | 0.56 |
| | | 30 - 60 | 15.4 | --- | 1.29 | 1.47 |
| " | Fresno (shallow phase) | 0 - 36 | 8.7 | 3.08 | (62.7) | 0.72 |
| | | 36 - 72 | 3.5 | 1.12 | (84.0) | 0.39 |
| " | " | 0 - 3 | 1.3 | 0.51 | 2.0 | 0.19 |
| Stony Sand | Los Angeles | 0 - 24 | 7.30 | 3.66 | 1.39 | 0.31 ! |
| " | " | 0 - 24 | 7.47 | 3.49 | 1.38 | 0.58 ! |
| | | 24 - 36 | 2.03 | 2.14 | 1.51 | ? |
| Gravelly Sand | Fresno | 0 - 3 | 1.7 | 0.72 | 2.0 | 0.24 |
| <u>TUSCAN</u> | | | | | | |
| Stony Loam | Stanislaus | 0 - 4 | 19.75 | 8.27 | 1.26 | 1.74 |
| <u>TYSON</u> | | | | | | |
| Gravelly Loam | Glenn | 0 - 7 | 25.9 | 8.1 | (1.1) | 2.35 |
| | | 7 - 16 | 26.9 | 8.5 | (1.3) | 2.87 |
| | | 16 - 28 | 25.4 | 7.6 | (1.3) | 2.78 |
| | | 28 - 40 | 23.8 | 7.4 | (1.3) | 2.56 |
| <u>VINA</u> | | | | | | |
| Sandy Loam | Siskiyou | 0 - 12 | 17.97 | 6.98 | (1.29) | 1.70 |
| | | 12 - 24 | 12.82 | 8.37 | (1.34) | 0.72 |
| | | 24 - 36 | 20.51 | 10.65 | (1.24) | 1.47 |
| | | 36 - 48 | 13.60 | 6.95 | (1.47) | 1.24 |
| | | 48 - 60 | 7.09 | 4.49 | (1.56) | 0.49 |
| | | 60 - 72 | 5.20 | 3.43 | (1.62) | 0.34 |
| | | 72 - 84 | 4.73 | 3.01 | (1.62) | 0.22 |
| Loam | Tehama | 0 - 12 | 22.66 | 11.32 | 1.23 | 1.67 |
| | | 12 - 24 | 20.81 | 11.28 | 1.24 | 1.41 |
| " | " | 6 - 30 | 22.96 | 12.30 | | |
| | | 36 - 60 | 23.15 | 11.48 | | |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|-------------------------|------------|-----------------|-------|--------|----------------------|----------------------------------|
| <u>VINA (continued)</u> | | | | | | |
| Loam | Butte | 0 - 12 | 31.4 | 20.6 | | |
| (deep phase) | | 12 - 24 | 28.8 | 18.8 | | |
| | | 24 - 36 | 27.7 | 18.2 | | |
| | | 36 - 48 | 26.9 | 17.7 | | |
| | | 48 - 60 | 26.7 | 17.7 | | |
| | | 60 - 72 | 27.0 | 17.8 | | |
| | | 72 - 84 | 25.8 | 17.0 | | |
| | | 84 - 96 | 26.0 | 17.1 | | |
| | | 96 - 108 | 25.6 | 16.8 | | |
| | | 108 - 120 | 27.3 | 17.9 | | |
| | | 120 - 132 | 26.4 | 17.4 | | |
| | | 132 - 144 | 25.2 | 16.5 | | |
| Clay Loam | Tehama | 6 - 24 | 22.30 | 11.55 | | |
| | | 24 - 44 | 23.06 | 11.22 | | |
| <u>WALKER</u> | | | | | | |
| Clay | Glenn | 0 - 1 | 27.7 | --- | (1.9) | 2.33 |
| | | 1 - 6 | 28.0 | --- | (2.0) | 2.35 |
| | | 6 - 18 | 28.0 | --- | (2.0+) | 2.21 |
| | | 18 - 29 | 28.5 | --- | (2.0) | 2.35 |
| | | 29 - 43 | 29.2 | --- | (1.9) | 3.01 |
| | | 43+ | 28.8 | --- | (1.8) | 3.02 |
| <u>WATSONVILLE</u> | | | | | | |
| Sandy Clay Loam | Monterey | Ridge | 20.70 | 8.15 | 1.25 | 1.88 |
| | | 0 - 6 | 20.73 | 7.50 | 1.25 | 1.98 |
| | | 6 - 12 | 20.39 | 8.07 | 1.25 | 1.85 |
| | | 12 - 18 | 19.88 | 8.36 | 1.25 | 1.73 |
| | | 18 - 24 | 28.78 | 13.92 | 1.20 | 2.14 |
| " | " | Ridge | 20.61 | 8.20 | 1.25 | 1.86 |
| | | 0 - 6 | 21.15 | 8.85 | 1.24 | 1.83 |
| | | 6 - 12 | 21.69 | 9.62 | 1.24 | 1.80 |
| | | 12 - 18 | 20.49 | 8.53 | 1.25 | 1.79 |
| | | 18 - 24 | 21.38 | 10.62 | 1.24 | 1.60 |
| Silty Clay Loam | Santa Cruz | 0 - 6 | 12.47 | 4.98 | 1.32 | 1.19 |
| | | 6 - 12 | 12.14 | 4.92 | 1.32 | 1.14 |
| | | 12 - 18 | 12.07 | 4.43 | 1.32 | 1.21 |
| | | 18 - 24 | 9.36 | 3.04 | 1.36 | 1.03 |
| | | 24 - 30 | 8.11 | 2.52 | 1.38 | 0.93 |
| | | 30 - 36 | 13.84 | 7.01 | 1.30 | 1.07 |
| | | 36 - 42 | 16.63 | 8.39 | 1.28 | 1.27 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|------|--------|-----------------|------|--------|----------------------|----------------------------------|
|------|--------|-----------------|------|--------|----------------------|----------------------------------|

WATSONVILLE (continued)

| | | | | | | |
|-----------------|------------|--|--|--|--|--|
| Silty Clay Loam | Santa Cruz | 0 - 6 6 - 12 12 - 18 18 - 24 24 - 30 30 - 36 36 - 42 | 13.21 13.58 12.17 10.36 9.30 14.54 16.39 | 5.70 5.32 4.69 3.51 3.20 7.02 8.34 | 1.31 1.31 1.32 1.34 1.36 1.30 1.28 | 1.18 1.30 1.18 1.24 0.99 1.17 1.24 |
| Clay Loam | " | 0 - 12 12 - 24 24 - 36 36 - 42 | 11.93 11.93 13.26 18.52 | 5.24 4.57 6.25 9.26 | 1.32 1.32 1.31 1.26 | 1.06 1.18 1.10 1.40 |
| " | " | 0 - 12 12 - 24 24 - 36 36 - 42 | 11.43 11.31 12.00 16.84 | 5.26 4.78 5.17 8.55 | 1.33 1.33 1.32 1.28 | 0.98 1.04 1.08 1.27 |

WAUKENA

| | | | | | | |
|-----------------|------------|--|-------------------------------------|-----|--|--------------------------------------|
| Fine Sandy Loam | Stanislaus | 0 - 4 4 - 6 6 - 14 14 - 24 24+ | 17.5 9.6 14.7 14.4 19.0 | --- | 1.27 (1.8) (2.0) (1.8) (1.7) | 1.25 1.68 2.25 1.79 3.09 |
|-----------------|------------|--|-------------------------------------|-----|--|--------------------------------------|

WESTFALL

| | | | | | | |
|-------------------|--------|----------------------------|----------------------|-----|-------------------------|----------------------|
| Loamy Sand | Fresno | 0 - 5 5 - 20 20 - 32 | 10.5 7.77 6.87 | --- | 1.34 1.38 1.40 | 1.11 0.86 1.01 |
| Coarse Sandy Loam | " | 0 - 9 9 - 21 21 - 34 | 14.9 12.4 10.9 | --- | (1.5) (1.2) (1.2) | --- |

WHITE ROCK

| | | | | | | |
|------------|------------|-------|------|-----|-------|------|
| Silty Loam | Stanislaus | 0 - 6 | 26.4 | --- | (1.6) | 3.87 |
|------------|------------|-------|------|-----|-------|------|

WHITNEY

| | | | | | | |
|-----------------|--------|-----|-------|------|------|------|
| Fine Sandy Loam | Placer | --- | 13.59 | 6.13 | 1.31 | 1.17 |
| " | " | --- | 12.41 | 5.55 | 1.32 | 1.09 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|----------------------------|------------|--|--------------------------------------|----------------------|--------------------------------------|--------------------------------------|
| <u>WHITNEY (continued)</u> | | | | | | |
| Fine Sandy Loam | Placer | --- | 15.39 | 6.80 | 1.29 | 1.33 |
| " | " | --- | 22.58 | 8.49 | 1.23 | 2.08 |
| " | " | --- | 14.45 | 6.06 | 1.30 | 1.31 |
| " | " | --- | 10.73 | 4.08 | 1.34 | 1.07 |
| " | " | --- | 9.96 | 4.37 | 1.35 | 0.91 |
| " | " | --- | 13.91 | 5.58 | 1.30 | 1.30 |
| " | Stanislaus | 0 - 7 7 - 16 16 - 31 | 15.1 14.8 16.6 | 5.2 5.1 --- | 1.30 1.30 1.28 | 1.54 1.51 --- |
| <u>WILDER</u> | | | | | | |
| --- | Humboldt | 0 - 4 4 - 23 23 - 31 31 - 39 39 - 47 | 28.0 26.1 24.4 23.2 20.1 | --- | 1.20 1.21 1.22 1.23 1.25 | 1.79 1.80 2.01 1.79 1.28 |
| " | " | 0 - 9 9 - 21 21 - 34 34 - 54 54 - 70 | 29.7 28.7 25.2 19.2 16.7 | --- | 1.19 1.20 1.22 1.26 1.28 | 1.84 1.96 1.86 1.29 1.17 |
| <u>WILLOWS</u> | | | | | | |
| Silty Clay | Glenn | 0 - 10 10 - 29 29 - 60 | 22.8 33.7 32.3 | 10.0 12.6 13.8 | 1.23 1.18 1.18 | 1.89 2.99 2.59 |
| <u>WINDY</u> | | | | | | |
| Loamy Sand | Tehama | 0 - 3 | 44.0 | | | |
| Sandy Loam | | 3 - 15 | 34.6 | | | |
| Sandy Clay Loam | | 15 - 27 | 35.9 | | | |
| Clay Loam | | 27 - 44 | 38.2 | | | |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|------------------|------------|-----------------|-------|--------|----------------------|----------------------------------|
| <u>WYMAN</u> | | | | | | |
| Loam | Stanislaus | 0 - 6 | 18.0 | 5.7 | (1.7) | 2.45 |
| | | 6 - 11 | 20.0 | 8.2 | (1.8) | 2.55 |
| | | 11 - 25 | 21.6 | 9.1 | (1.8) | 2.10 |
| | | 25 - 40 | 19.6 | --- | (1.6) | 2.25 |
| | | 40 - 60 | 18.7 | --- | (1.5) | --- |
| <u>WYO</u> | | | | | | |
| Silt Loam | Glenn | 0 - 11 | 22.4 | --- | (1.70) | --- |
| | | 11 - 29 | 22.1 | --- | (1.75) | --- |
| | | 29 - 43 | 21.0 | --- | (1.55) | --- |
| | | 43 - 50 | 23.2 | --- | (1.65) | --- |
| | | 50 - 60 | 21.5 | --- | (1.60) | --- |
| " | " | 0 - 15 | 24.8 | 9.3 | 1.22 | 2.26 |
| | | 15 - 32 | 23.8 | 10.7 | 1.22 | 1.92 |
| | | 32 - 60 | 21.5 | 8.6 | 1.24 | 1.93 |
| Loam | Tehama | 0 - 12 | 27.36 | 15.15 | 1.20 | 1.76 |
| | | 12 - 24 | 23.97 | 13.04 | 1.20 | 1.57 |
| <u>YOKOHL</u> | | | | | | |
| Loam | Stanislaus | 0 - 10 | 23.0 | 10.21 | (1.56) | 2.39 |
| | | 10 - 16 | 23.2 | 11.50 | (1.63) | 2.29 |
| | | 16 - 20 | 27.4 | 14.00 | (1.51) | 2.43 |
| <u>YOLO</u> | | | | | | |
| Fine Sand | Sonoma | 0 - 12 | 14.80 | 6.59 | 1.30 | 1.28 |
| | | 12 - 24 | 14.47 | 6.63 | 1.30 | 1.03 |
| | | 24 - 36 | 13.65 | 6.10 | 1.31 | 1.19 |
| | | 36 - 48 | 10.90 | 5.46 | 1.34 | 0.87 |
| | | 48 - 60 | 9.70 | 5.10 | 1.36 | 0.75 |
| Gravelly Loam | Mendocino | 0 - 12 | 17.51 | 7.34 | 1.27 | 1.55 |
| | | 12 - 24 | 19.62 | 9.68 | 1.26 | 1.50 |
| | | 24 - 36 | 21.24 | 11.27 | 1.24 | 1.48 |
| | | 36 - 48 | 21.64 | 11.20 | 1.24 | 1.55 |
| | | 48 - 60 | 20.83 | 10.92 | 1.24 | 1.47 |
| | | 60 - 72 | 21.43 | 11.75 | 1.24 | 1.44 |
| " | San Benito | 0 - 12 | 23.71 | 14.10 | 1.22 | 1.41 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|-------------------------|---------------|-----------------|-------|--------|----------------------|----------------------------------|
| <u>YOLO (continued)</u> | | | | | | |
| Gravelly Loam | Sonoma | 12 - 24 | 19.43 | 10.03 | (1.25) | 1.41 |
| | | 24 - 36 | 20.34 | 11.78 | (1.25) | 1.20 |
| | | 36 - 60 | 20.13 | 10.60 | (1.25) | 1.43 |
| Gravelly Sandy Loam | Los Angeles | 0 - 24 | 17.92 | 9.60 | 1.27 | 1.17 ! |
| | | 24 - 48 | 16.38 | 9.05 | 1.29 | 1.02 ! |
| " " | | 0 - 24 | 8.78 | 4.78 | 1.37 | 0.74 ! |
| | | 24 - 48 | 7.93 | 4.33 | 1.38 | 0.60 ! |
| " " | | 0 - 18 | 15.53 | 7.08 | 1.29 | 1.30 ! |
| | | 18 - 48 | 11.09 | 5.52 | 1.34 | 1.01 ! |
| Sandy Loam | Orange | 0 - 12 | 13.3 | 6.5 | 1.31 | 1.07 |
| | | 12 - 24 | 11.1 | 5.5 | 1.34 | 0.90 |
| | | 24 - 36 | 9.2 | 4.7 | 1.37 | 0.74 |
| | | 36 - 48 | 8.9 | 4.9 | 1.37 | 0.66 |
| " " | | 0 - 12 | 17.8 | 8.4 | 1.27 | 1.43 |
| | | 12 - 24 | 16.3 | 7.5 | 1.28 | 1.35 |
| | | 24 - 36 | 13.6 | 6.3 | 1.30 | 1.14 |
| | | 36 - 48 | 14.5 | 6.5 | 1.30 | 1.25 |
| " | Santa Barbara | 0 - 6 | 15.61 | 7.15 | 1.40 | 1.42 |
| | | 12 - 24 | 12.63 | 6.34 | 1.32 | 1.00 |
| | | 36+ | 5.10+ | 2.79 | 1.45 | 0.40 |
| " | Yolo | 0 - 12 | 17.0 | 7.6 | 1.28 | 1.44 |
| | | 12 - 24 | 16.3 | 9.1 | 1.29 | 1.11 |
| | | 24 - 36 | 16.6 | 10.4 | 1.28 | 0.95 |
| | | 36 - 48 | 20.7 | 10.8 | 1.25 | 1.49 |
| | | 48 - 60 | 20.9 | 9.3 | 1.24 | 1.73 |
| | | 60 - 72 | 17.4 | 10.8 | 1.27 | 1.01 |
| Fine Sandy Loam | Los Angeles | 0 - 24 | 19.31 | 9.28 | 1.26 | 1.52 |
| | | 24 - 42 | 21.26 | 10.34 | 1.24 | 1.62 |
| | | 42 - 72 | 19.46 | 9.57 | 1.26 | 1.50 |
| " | Mendocino | 0 - 12 | 16.0 | 6.7 | 1.29 | 1.44 |
| | | 12 - 24 | 15.8 | 8.5 | 1.29 | 1.13 |
| | | 24 - 36 | 19.8 | 10.9 | 1.25 | 1.34 |
| | | 36 - 48 | 22.9 | 12.0 | 1.23 | 1.61 |
| | | 48 - 60 | 21.5 | 11.5 | 1.24 | 1.49 |
| | | 60 - 72 | 20.4 | 11.1 | 1.25 | 1.40 |
| | | 72 - 108 | 17.7 | 7.6 | 1.27 | 1.54 |
| | | 108 - 144 | 16.9 | 7.7 | 1.28 | 1.41 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|-------------------------|---------------------------------|-----------------|-------|--------|----------------------|----------------------------------|
| <u>YOLO (continued)</u> | | | | | | |
| Fine Sandy Loam | Santa Clara | 6 - 18 | 20.04 | 10.14 | 1.25 | 1.64 |
| | | 18 - 28 | 19.09 | 10.40 | 1.26 | 1.31 |
| | | 32 - 40 | 26.76 | 13.44 | 1.20 | 1.92 |
| | | 44 - 50 | 15.76 | 9.69 | 1.28 | .93 |
| | | 56 - 66 | 15.14 | 9.68 | 1.28 | .84 |
| | | 70 - 76 | 16.44 | 10.14 | 1.27 | .96 |
| | | 80 - 86 | 11.48 | 7.21 | 1.34 | .68 ! |
| " | Solano | 0 - 16 | 20.46 | 10.23 | 1.25 | 1.53 |
| | | 16 - 32 | 15.00 | 8.75 | 1.30 | 0.97 |
| | | 32 - 48 | 12.28 | 7.59 | 1.32 | 0.74 |
| " | Sonoma (Stream bottom phase) | 12 - 24 | 15.63 | 8.43 | (1.29) | 1.14 |
| | | 24 - 36 | 13.88 | 6.61 | (1.30) | 1.23 |
| | | 36 - 60 | 10.12 | 5.91 | (1.35) | 0.68 |
| | | 60 - 72 | 16.10 | 7.87 | (1.29) | 1.27 |
| Silt Loam | San Benito | 0 - 12 | 22.77 | 11.31 | 1.23 | 1.69 |
| | | 12 - 24 | 19.97 | 8.67 | 1.25 | 1.70 |
| | | 24 - 36 | 20.74 | 8.42 | 1.25 | 1.85 |
| " | " | 0 - 12 | 18.25 | 7.84 | 1.27 | 1.60 |
| | | 12 - 24 | 19.03 | 7.83 | 1.26 | 1.69 |
| | | 24 - 36 | 17.92 | 6.96 | 1.27 | 1.67 |
| " | Santa Barbara | 0 - 6 | 8.28+ | 4.05 | 1.38 | 0.70 |
| | | 12 - 24 | 7.94+ | 3.50 | 1.38 | 0.74 |
| | | 30 - 40 | 7.56+ | 3.66 | 1.39 | 0.65 |
| " | Santa Clara | 6 - 18 | 23.51 | 12.76 | (1.23) | 1.59 |
| | | 36 - 48 | 13.63 | 8.29 | (1.31) | 0.84 |
| | | 66 - 78 | 26.12 | 13.98 | (1.21) | 1.76 |
| | | 84 - 96 | 29.56 | 15.99 | (1.19) | 1.94 |
| " | " | 6 - 24 | 25.25 | 14.85 | (1.21) | 1.51 |
| | | 24 - 42 | 24.31 | 13.60 | (1.22) | 1.57 |
| | | 42 - 60 | 34.17 | 20.43 | (1.18) | 1.95 |
| | | 60 - 72 | 27.38 | 15.94 | (1.20) | 1.65 |
| | | 72 - 84 | 34.03 | 20.09 | (1.18) | 1.98 |
| | | 84 - 96 | 33.23 | 18.17 | (1.18) | 2.13 |
| " | " | 6 - 24 | 25.36 | 14.90 | 1.21 | 1.52 |
| | | 24 - 48 | 26.11 | 14.42 | 1.21 | 1.70 |
| | | 48 - 72 | 11.83 | 7.48 | 1.33 | 0.69 |
| | | 72 - 96 | 11.57 | 6.80 | 1.33 | 0.76 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|-------------------------|---------------|-----------------|-------|--------|----------------------|----------------------------------|
| <u>Yolo (continued)</u> | | | | | | |
| Silt Loam | Santa Clara | 6 - 12 | 24.78 | 14.82 | 1.22 | 1.46 |
| | | 12 - 24 | 24.28 | 14.81 | 1.22 | 1.39 |
| | | 24 - 48 | 21.08 | 12.85 | 1.24 | 1.22 |
| | | 48 - 72 | 17.58 | 9.81 | 1.27 | 1.18 |
| Silty Loam | " | 8 - 18 | 19.31 | 10.53 | 1.26 | 1.33 |
| | | 20 - 30 | 19.97 | 10.83 | 1.25 | 1.36 |
| | | 42 - 50 | 22.38 | 12.34 | 1.23 | 1.48 |
| | | 66 - 78 | 26.11 | 15.27 | 1.22 | 1.58 |
| Loam | Los Angeles | 0 - 24 | 20.69 | 11.35 | 1.24 | 1.39 |
| | | 24 - 36 | 20.15 | 10.73 | 1.25 | 0.93! |
| " | " | 0 - 42 | 13.91 | 6.65 | 1.30 | 0.83! |
| | | 42 - 72 | 13.00 | 6.01 | 1.31 | 0.81! |
| " | " | 0 - 18 | 20.53 | 10.03 | 1.25 | 1.40! |
| | | 18 - 36 | 20.21 | 10.28 | 1.25 | 1.39! |
| | | 36 - 48 | 17.72 | 8.61 | 1.27 | 1.17! |
| " | " | 0 - 18 | 12.83 | 7.39 | 1.31 | 0.86 |
| | | 18 - 36 | 13.28 | 7.23 | 1.31 | 0.95 |
| | | 36 - 60 | 15.00 | 8.23 | 1.30 | 1.06 |
| " | Santa Barbara | 6 - 18 | 14.79 | 7.63 | 1.30 | 1.12 |
| | | 20 - 30 | 17.36 | 9.50 | 1.27 | 1.20 |
| | | 30 - 40 | 29.07 | 17.46 | 1.20 | 1.67 |
| " | Sonoma | 12 - 24 | 14.71 | 8.20 | (1.30) | 1.02 |
| | | 24 - 36 | 14.28 | 7.29 | (1.30) | 1.08 |
| | | 36 - 60 | 13.25 | 6.63 | (1.31) | 1.04 |
| " | " | 0 - 12 | 21.0 | 9.6 | 1.24 | 1.70 |
| | | 12 - 24 | 16.9 | 8.4 | 1.28 | 1.31 |
| | | 24 - 36 | 14.1 | 7.3 | 1.30 | 1.06 |
| | | 36 - 48 | 14.3 | 8.0 | 1.30 | 0.98 |
| | | 48 - 60 | 13.3 | 6.4 | 1.31 | 1.08 |
| | | 60 - 72 | 12.3 | 6.1 | 1.32 | 0.98 |
| " | Yolo | 0 - 12 | 17.43 | 8.79 | 1.27 | 1.32 |
| | | 12 - 24 | 16.91 | 8.83 | 1.28 | 1.24 |
| | | 24 - 36 | 15.71 | 8.63 | 1.29 | 1.10 |
| | | 36 - 48 | 20.87 | 9.66 | 1.24 | 1.67 |
| | | 48 - 60 | 24.69 | 10.89 | 1.22 | 2.02 |
| | | 60 - 72 | 21.23 | 9.77 | 1.24 | 1.71 |
| | | 72 - 108 | 15.09 | 7.71 | 1.30 | 1.15 |
| | | 108 - 144 | 34.00 | 11.86 | 1.18 | 3.14 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|-------------------------|---|-----------------|-------|--------|----------------------|----------------------------------|
| <u>Yolo (continued)</u> | | | | | | |
| Loam | Yolo | 0 - 12 | 22.59 | 10.59 | 1.23 | 1.77 |
| | | 12 - 24 | 21.04 | 9.95 | 1.24 | 1.65 |
| | | 24 - 36 | 18.97 | 9.26 | 1.26 | 1.47 |
| | | 36 - 48 | 16.59 | 8.48 | 1.28 | 1.25 |
| | | 48 - 60 | 15.22 | 7.99 | 1.30 | 1.13 |
| | | 60 - 72 | 14.94 | 7.96 | 1.30 | 1.09 |
| " | " | 0 - 12 | 24.2 | 12.5 | 1.22 | 1.71 |
| | | 12 - 24 | 24.3 | 12.6 | 1.22 | 1.71 |
| | | 24 - 36 | 22.7 | 11.8 | 1.23 | 1.61 |
| | | 36 - 48 | 19.6 | 10.5 | 1.25 | 1.37 |
| | | 48 - 60 | 21.6 | 10.3 | 1.24 | 1.69 |
| | | 60 - 72 | 21.6 | 10.7 | 1.24 | 1.62 |
| Silty Clay Loam | San Benito | 0 - 12 | 31.47 | 16.70 | 1.19 | 2.11 |
| | | 12 - 24 | 30.20 | 15.75 | 1.19 | 2.06 |
| | | 24 - 36 | 29.10 | 15.16 | 1.20 | 2.01 |
| " | Santa Barbara | 0 - 6 | 15.85 | 7.64 | 1.29 | 1.27 |
| | | 12 - 40 | 15.66 | 8.06 | 1.29 | 1.18 |
| | | 48 - 60 | 21.90 | 10.58 | 1.24 | 1.68 |
| " | Santa Clara (Brown says: Campbell Silty Clay Loam) | 6 - 24 | 21.84 | 12.02 | 1.24 | 1.46 |
| | | 24 - 72 | 16.99 | 8.91 | 1.28 | 1.24 |
| | | 72 - 96 | 10.37 | 5.87 | 1.34 | 0.72 |
| Silty Clay Loam | Solano | 0 - 16 | 25.54 | 13.37 | 1.21 | 1.77 |
| | | 16 - 32 | 25.31 | 13.12 | 1.21 | 1.77 |
| | | 32 - 48 | 24.71 | 12.96 | 1.22 | 1.72 |
| " | " | 0 - 16 | 24.74 | 13.08 | 1.22 | 1.71 |
| | | 16 - 32 | 26.86 | 11.71 | 1.21 | 2.20 |
| | | 32 - 48 | 26.58 | 12.99 | 1.21 | 1.97 |
| " | " | 0 - 16 | 25.99 | 12.53 | 1.21 | 1.95 |
| | | 16 - 32 | 26.19 | 13.68 | 1.21 | 1.82 |
| | | 32 - 48 | 24.57 | 13.06 | 1.22 | 1.69 |
| " | " | 0 - 16 | 17.48 | 9.23 | 1.27 | 1.26 |
| | | 16 - 32 | 15.09 | 8.98 | 1.29 | 0.95 |
| | | 32 - 48 | 20.00 | 9.98 | 1.25 | 1.50 |
| " | " | 0 - 16 | 21.85 | 11.88 | 1.23 | 1.47 |
| | | 16 - 32 | 21.03 | 11.19 | 1.24 | 1.46 |
| | | 32 - 48 | 22.30 | 12.49 | 1.23 | 1.45 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|-------------------------|-------------|--|--|---|--|--|
| <u>YOLO (continued)</u> | | | | | | |
| Silty Clay Loam | Solano | 0 - 16 16 - 32 32 - 48 | 23.85 25.01 25.71 | 12.46 13.85 13.87 | 1.23 1.21 1.21 | 1.68 1.62 1.72 |
| " " | " | 0 - 16 16 - 32 32 - 48 | 23.74 20.11 21.24 | 12.06 10.37 10.41 | 1.23 1.25 1.24 | 1.72 1.46 1.61 |
| " " | " | 0 - 16 16 - 32 32 - 48 | 22.36 23.48 23.80 | 12.52 13.20 11.85 | 1.23 1.22 1.22 | 1.45 1.50 1.75 |
| Heavy Clay Loam | Santa Clara | 0 - 24 24 - 48 48 - 72 | 19.69 23.11 19.21 | 10.50 12.42 11.18 | (1.25) (1.23) (1.25) | 1.38 1.58 1.20 |
| " " | " | 0 - 24 24 - 48 48 - 60 | 16.28 22.64 23.56 | 7.33 12.00 13.39 | (1.28) (1.23) (1.23) | 1.37 1.57 1.50 |
| Clay Loam | Los Angeles | 0 - 30 30 - 60 | 22.28 24.78 | 12.59 12.64 | 1.24 1.22 | 1.44 1.78 |
| " " | " | 0 - 36 36 - 72 | 27.15 25.27 | 13.78 12.78 | 1.21 1.22 | 1.94 1.83 |
| " " | " | 0 - 36 36 - 72 | 24.91 27.58 | 11.30 14.08 | 1.22 1.20 | 1.99 1.94 |
| " " | " | 0 - 12 12 - 36 36 - 60 | 22.03 24.77 26.06 | 12.04 12.48 14.85 | 1.24 1.22 1.21 | 1.49 1.80 1.63 |
| Clay Loam | San Benito | 0 - 12 12 - 24 24 - 36 36 - 48 48 - 60 60 - 72 72 - 108 108 - 144 | 24.93 27.16 29.01 34.00 24.63 24.33 17.54 15.37 | 10.90 11.72 12.29 14.57 10.01 9.33 7.37 6.52 | 1.22 1.21 1.20 1.18 1.22 1.22 1.27 1.29 | 2.05 2.24 2.42 2.75 2.14 2.20 1.55 1.37 |
| " | Santa Clara | 6 - 30 30 - 48 48 - 72 72 - 84 84 - 96 | 25.69 24.24 17.00 26.79 35.99 | 14.34 13.25 9.57 14.25 16.94 | 1.21 1.22 1.27 1.21 1.17 | 1.65 1.61 1.14 1.82 2.67 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|------------|-------------|-----------------|-------|--------|----------------------|----------------------------------|
| Clay Loam | Santa Clara | 6 - 12 | 24.40 | 14.97 | (1.22) | 1.38 |
| | | 12 - 24 | 25.65 | 14.64 | (1.21) | 1.60 |
| | | 24 - 48 | 22.19 | 13.05 | (1.24) | 1.36 |
| | | 48 - 72 | 16.08 | 9.35 | (1.29) | 1.04 |
| " | " | 6 - 12 | 22.27 | 12.02 | 1.24 | 1.51 |
| | | 12 - 24 | 23.62 | 16.37 | 1.20 | 1.76 |
| | | 24 - 48 | 24.55 | 15.34 | 1.22 | 1.31 |
| | | 48 - 72 | 24.59 | 14.33 | 1.22 | 1.37 |
| " | " | 6 - 18 | 29.96 | 17.72 | 1.19 | 1.75 |
| | | 18 - 30 | 30.61 | 17.48 | 1.18 | 1.86 |
| | | 40 - 54 | 29.19 | 18.54 | 1.19 | 1.52 |
| | | 60 - 76 | 25.57 | 14.33 | 1.22 | 1.65 |
| " | " | 6 - 18 | 25.74 | 14.03 | 1.22 | 1.72 |
| | | 18 - 30 | 29.80 | 16.67 | 1.19 | 1.88 |
| | | 40 - 54 | 25.19 | 15.22 | 1.22 | 1.43 |
| | | 60 - 76 | 24.26 | 13.78 | 1.22 | 1.53 |
| " | " | 6 - 18 | 29.79 | 18.10 | 1.19 | 1.67 |
| | | 18 - 30 | 30.66 | 18.18 | 1.19 | 1.78 |
| | | 40 - 54 | 27.02 | 14.39 | 1.21 | 1.83 |
| | | 60 - 76 | 25.80 | 14.68 | 1.22 | 1.63 |
| " | " | 6 - 18 | 23.53 | 12.92 | 1.23 | 1.57 |
| | | 18 - 30 | 30.58 | 16.92 | 1.19 | 1.95 |
| | | 40 - 54 | 25.00 | 14.90 | 1.22 | 1.48 |
| | | 60 - 76 | 22.68 | 12.70 | 1.23 | 1.40! |
| Clay | Yolo | 0 - 12 | 26.16 | 13.05 | 1.21 | 1.90 |
| Clay Adobe | Santa Clara | 6 - 12 | 28.53 | 17.33 | 1.20 | 1.61 |
| | | 12 - 24 | 27.55 | 17.97 | 1.20 | 1.38 |
| | | 24 - 48 | 23.96 | 13.55 | 1.22 | 1.52 |
| | | 48 - 72 | 25.92 | 15.31 | 1.21 | 1.54 |
| Adobe | " | 0 - 30 | 25.12 | 15.48 | 1.22 | 1.42 |
| | | 30 - 42 | 28.62 | 15.40 | 1.20 | 1.91 |
| | | 42 - 54 | 25.20 | 13.80 | 1.22 | 1.67 |
| | | 54 - 72 | 24.60 | 16.48 | 1.22 | 1.18 |
| | | 72 - 84 | 23.02 | 15.55 | 1.23 | 1.11 |

YORKVILLE

| | | | | | | |
|------|-----------|---------|------|------|-------|------|
| Loam | Mendocino | 0 - 5 | 18.2 | 8.5 | (1.8) | 2.10 |
| | | 5 - 11 | 18.4 | 9.5 | (1.7) | 1.82 |
| | | 11 - 30 | 22.8 | 12.0 | (1.9) | 2.46 |
| | | 30 - 42 | 22.2 | --- | (2.0) | 1.90 |
| | | 42 - 52 | 19.8 | --- | (2.0) | 1.68 |

| Type | County | Depth Inches | F.C. | P.W.P. | Est. Bulk Density | In. Avail. Water/Ft. Depth |
|------------------------------|--------------|-----------------|-------|--------|----------------------|----------------------------------|
| <u>YORKVILLE (continued)</u> | | | | | | |
| Clay Loam | Lake | 0 - 8 | 18.7 | 7.5 | (1.8) | 2.42 |
| | | 8 - 15 | 21.3 | 12.2 | 1.24 | 0.98 |
| | | 15 - 27 | 21.4 | 11.1 | 1.24 | 1.53 |
| | | 27 - 41 | 18.6 | 9.5 | 1.26 | 1.38 |
| | | 41 - 49 | 16.8 | 8.6 | 1.28 | 1.26 |
| <u>ZACA</u> | | | | | | |
| Clay | Stanislaus | 0 - 6 | 40.3 | --- | (1.7) | 3.30 |
| | | 6 - 10 | 39.0 | --- | (1.7) | 3.43 |
| | | 10 - 16 | 41.5 | --- | (1.3) | 3.88 |
| | | 16 - 30 | --- | --- | (1.3) | 3.20 |
| | | 30+ | 21.5 | --- | (1.5) | 1.67 |
| <u>ZAMORA</u> | | | | | | |
| Loam | Glenn | 0 - 20 | 22.2 | 11.7 | 1.23 | 1.58 |
| | | 20 - 30 | 25.0 | 14.4 | 1.22 | 1.54 |
| | | 30 - 60 | 25.3 | 14.6 | 1.21 | 1.63 |
| " | Contra Costa | 0 - 11 | 21.11 | 12.85 | 1.24 | 1.23 |
| | | 12 - 30 | 23.51 | 15.01 | 1.23 | 1.25 |
| | | 33 - 82 | 15.00 | 9.46 | 1.30 | 0.86 |
| Silty Clay Loam | Solano | 0 - 16 | 25.49 | 13.73 | 1.21 | 1.71 |
| | | 16 - 32 | 24.43 | 14.65 | 1.22 | 1.43 |
| | | 32 - 48 | 28.59 | 15.31 | 1.20 | 1.91 |
| Clay Loam | " | 0 - 16 | 23.81 | 12.39 | 1.22 | 1.67 |
| | | 16 - 32 | 24.27 | 13.30 | 1.22 | 1.61 |
| | | 32 - 48 | 23.89 | 12.54 | 1.22 | 1.66 |
| " | " | 0 - 16 | 25.08 | 13.12 | 1.22 | 1.75 |
| | | 16 - 32 | 25.47 | 14.05 | 1.21 | 1.66 |
| | | 32 - 48 | 26.73 | 14.64 | 1.21 | 1.76 |
| " | Contra Costa | 0 - 12 | 22.6 | 11.30 | 1.23 | 1.67 |
| | | 12 - 24 | 21.2 | 10.01 | 1.24 | 1.67 |
| | | 24 - 36 | 20.9 | 10.34 | 1.24 | 1.57 |
| | | 36 - 48 | 20.9 | 10.49 | 1.24 | 1.55 |
| | | 47 - 60 | 24.7 | 12.47 | 1.22 | 1.80 |
| | | 60 - 72 | 22.6 | 11.48 | 1.23 | 1.64 |
| <u>ZANONE</u> | | | | | | |
| --- | Humboldt | 0 - 8 | 29.2 | --- | (1.3) | 2.07 |
| | | 8 - 15 | 28.1 | --- | (1.4) | 1.95 |
| | | 15 - 21 | 24.0 | --- | (1.6) | 2.11 |
| | | 21 - 28 | 22.9 | --- | (1.8) | 2.95 |
| | | 28 - 53 | 25.9 | --- | (1.9) | 2.23 |
| | | 53 - 60 | 23.9 | --- | (2.0) | 2.45 |