UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Albuquerque, New Mexico



SOIL INTERPRETATIONS FOR IRRIGATION IN THE Grants FO

Date: Feb. 1977

| Map Symbol 1 | Soil Name 2 | Available Moisture-holding Capacity per foot of soil Depth (in.) 3 | Shallow Rooted Crops: Moisture Replacement Depth (ft.) 4 | Shallow Rooted Crops: Net Moisture to be Replaced (in.) 5 | Medium Rooted Crops: Moisture Replacement Depth (ft.) 6 | Medium Rooted Crops: Net Moisture to be Replaced (in.) 7 | Deep Rooted Crops: Moisture Replacement Depth (ft.) 8 | Deep Rooted Crops: Net Moisture to be Replaced (in.) 9 | Family Intake Curve Designation Curve No. 10 | Recommended Maximum Irrigation Grade Feet per 100 feet 11 | Adapted Conservation Irrigation Systems: Level 12 | Graded 13 | 1/ Sprinkler 14 | 2/ Drip 15 | 16 | 17 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| La | Ladrillo Clay | 1.8<br>1.8<br>2.0 | 2.0 | 1.5 | 2.5 | 2.0 | 2.5 | 2.0 | .1 | B-1.0<br>F- .5 | | 3/ X | X | X | | |
| Pg<br>Ph | Puerco Clay<br>Puerco Clay-Sandy Substratum | 1.8<br>1.8<br>2.2<br>1.6 | 2.0 | 1.5 | 3.0 | 2.5 | 4.0 | 3.5 | .1 | B-1.0<br>F- .5 | X | 3/ X | X | X | | |
| Pf | Prieta Stony Loam | 1.5<br>2.0 | 1.5 | 1.0 | 1.5 | 1.0 | 1.5 | 1.0 | .3 | B-1.0<br>F- .5 | | 3/ X | X | X | | |
| Pc | Prewitt Clay | 1.8<br>2.0<br>1.8<br>2.0 | 2.0 | 1.5 | 3.0 | 2.5 | 4.0 | 3.5 | .3 | B-1.0<br>F- .5 | X | 3/ X | X | X | | |
| Pd<br>2f<br>3f | Prewitt Clay Loam | 2.2<br>2.0<br>2.0<br>2.0 | 2.0 | 2.0 | 3.0 | 3.0 | 4.0 | 4.0 | .3 | B-1.0<br>F- .5 | X | 3/ X | X | X | | |

1/ Some puddling may occur when using pivotal sprinklers on .1-.5 intake family soils B - Borders F - Furrows
2/ Drip irrigation recommended on orchards or high value row crops only.
3/ Tailwater recovery systems may be used to increase irrigation uniformity where soils permit building of pit.

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pe | Prewitt Clay Loam-Sandy Substratum | 2.2<br>2.0<br>1.8<br>.6 | 2.0 | 2.0 | 3.0 | 3.0 | 4.0 | 3.0 | .5 | B-.7<br>F-.4 | | 3/ X | X | X | | |
| Sa 5f | San Jose Loam | 1.8<br>1.6<br>2.0<br>2.0 | 2.0 | 1.5 | 3.0 | 2.5 | 4.0 | 3.5 | .5 | B-.7<br>F-.4 | | 3/ X | X | X | | |
| Sb Sc 6f | San Jose Loam-Sandy Substratum | 1.8<br>2.0<br>2.0<br>1.0 | 2.0 | 1.5 | 3.0 | 2.5 | 4.0 | 3.0 | .5 | B-.7<br>F-.4 | | 3/ X | X | X | | |
| | Penistaja Soils | 1.6<br>1.8<br>1.8<br>1.8 | 2.0 | 1.5 | 3.0 | 2.5 | 4.0 | 3.5 | .75 | B-.5<br>F-.3 | | 3/ X | X | X | | |

B - Borders F - Furrows

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pa | Preston Fine Sand | .8<br>.8<br>.8<br>.6 | 2.0 | 1.0 | 3.0 | 1.0 | 4.0 | 1.5 | 1.0 | | | | X | X | | |
| Pb | Preston-San Mateo Complex | | | | | | | | | | | | | | | |
| | Preston Portion | See Preston Fine Sand | | | | | | | | | | | | | | |
| | San Mateo Portion | 1.8<br>1.8<br>1.8<br>1.8 | 2.0 | 1.5 | 3.0 | 2.5 | 4.0 | 3.5 | .5 | B-.7<br>F-.4 | | 3/ X | X | X | | |
| | | | | B - Borders | | | | F - Furrows | | | | | | | | |

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