UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

SOIL INTERPRETATIONS FOR IRRIGATION IN THE Las Cruces FO

Date: Dec. 1976

| 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 (4/) | Sprinkler 14 (1/) | Drip 15 (2/) | 16 | 17 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13-15<br>18-18 | Armijo Loam<br>Belen Loam | 2.0<br>1.8<br>1.8<br>1.8 | 2 | 1.5 | 3 | 2.5 | 4 | 3.5 | .1 | .3 | X | X | X | X | | |
| 12-16<br>221f A | Armijo Clay Loam<br>Mimbres and Verhalen Soils | 2.2<br>1.8<br>1.8<br>1.8 | 2 | 2.0 | 3 | 2.5 | 4 | 3.5 | .1 | .3 | X | X | X | X | | |
| 11-17<br>14-20 | Armijo Clay<br>Belen Clay | 1.8<br>1.8<br>1.8<br>1.8 | 2 | 1.5 | 3 | 2.5 | 4 | 3.5 | .1 | .3 | X | X | X | X | | |

NOTE: 1st map symbol shown is field sheet symbol. 2nd map symbol shown is publication symbol.

1/ Puddling may occur when using circular sprinklers on soils in .1-.5 intake family. Because of high salinity irrigation waters, sprinklers not recommended when using irrigation water with EC greater than 2500.

2/ Drip irrigation recommended for orchard or high value row crops only.

3/ Alfalfa or permanent pasture only.

4/ Tailwater recovery systems may be used to increase irrigation uniformity.

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15-19 | Belen Clay Loam | 2.2<br>2.0<br>1.6<br>1.6 | 2 | 2.0 | 3 | 2.5 | 4 | 3.5 | .1 | .3 | X | X | X | X | | |
| 22S-38<br>221a/A | Glendale Clay Loam, Alkali Hondale-Mimbres Complex, Alkali | 1.0<br>1.0<br>1.0<br>1.0 | 2 | 1.0 | 3 | 1.5 | 4 | 2.0 | .1 | .3 | X | X | X | X | | |
| 66-21 | Belen Variant | 1.0<br>1.0 | 2 | 1.0 | 2 | 1.0 | 2 | 1.0 | .1<br>*Land | .3<br>leveling | X* | X* | X<br>limited | X<br>because | of high | water table. |
| 112-1 | Adelino Sandy Clay Loam | 1.8<br>1.8<br>1.8<br>1.5 | 2 | 1.5 | 3 | 2.5 | 4 | 3.5 | .3 | B-.75<br>F-.5 | X | X | X | X | | |

B - Borders
F - Furrows

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 111-2 | Adelino Clay Loam | 2.2<br>2.1 | 2 | 2.0 | 3 | 3.0 | 4 | 4.0 | .3 | B-.75<br>F-.5 | X | X | X | X | | |
| 32-43 | Harkey Clay Loam | 2.0<br>2.0 | | | | | | | | | | | | | | |
| 23-36 | Glendale Loam | 2.0<br>2.2<br>2.2<br>1.8 | 2 | 2.0 | 3 | 3.0 | 4 | 4.0 | .3 | .3 | X | X | X | X | | |
| 22-37 | Glendale Clay Loam | 2.2<br>2.2 | 2 | 2.0 | 3 | 3.0 | 4 | 4.0 | .3 | .3 | X | X | X | X | | |
| 221/A | Mimbres Soils | 2.2 | | | | | | | | | | | | | | |
| 222/AB | Stellar Silty Clay Loam | 1.6 | | | | | | | | | | | | | | |
| 36-5 | Agua Clay Loam | 2.2 | 2 | 2.0 | 3 | 2.5 | 4 | 2.5 | .3 | .3 | X | X | X | X | | |
| 27-10 | Anapra Silt Loam | 2.0<br>.7 | | | | | | | | | | | | | | |
| 26-11 | Anapra Clay Loam | .7 | | | | | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 33S-42 | Harkey Loam, Saline and Alkali | 1.0<br>1.0<br>1.0<br>1.0 | 2 | 1.0 | 3 | 1.5 | 4 | 2.0 | .3 | .3 | X | X | X | X | | |
| 333/A | Turney-Dona Ana Assoc. | 1.8<br>1.8 | 2 | 1.5 | 2 | 1.5 | 2 | 1.5 | .5 | B-.75<br>F-.5 | *Land | X* leveling | X limited by | X lime | | layer at 24" |
| 3221h | Mohave Sandy Clay Loam | 1.8<br>1.8<br>1.8<br>1.8 | 2 | 1.5 | 3 | 2.5 | 4 | 3.5 | .5 | B-.75<br>F-.5 | X | X | X | X | | |
| 37-4 | Agua Loam | 2.0<br>2.0<br>.7<br>.7 | 2 | 2.0 | 3 | 2.0 | 4 | 2.0 | .5 | .3 | X | X | X | X | | |
| 422/AB | Mohave Sandy Loam | 1.4<br>1.8<br>1.8<br>1.8 | 2 | 1.5 | 3 | 2.5 | 4 | 3.0 | .5 | B-.75<br>F-.5 | X | X | X | X | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 34-40 | Harkey Fine Sandy Loam | 1.8<br>2.0<br>2.0<br>2.0 | 2 | 1.5 | 3 | 2.5 | 4 | 3.5 | .5 | .3 | X | X | X | X | | |
| 33-41 | Harkey Loam | 2.0<br>2.0<br>2.0<br>2.2 | 2 | 2.0 | 3 | 3.0 | 4 | 4.0 | .5 | .3 | X | X | X | X | | |
| 48-66 | Vinton Variant Sandy Clay Loam | 1.8<br>.7<br>.7<br>1.8 | 2 | 1.0 | 3 | 1.5 | 4 | 2.5 | .5 | .3 | X | X | X | X | | |
| 49-65 | Vinton Variant Fine Sandy Loam | 1.6<br>.7<br>.7<br>2.2 | 2 | 1.0 | 3 | 1.5 | 4 | 2.5 | .75 | .3 | X | X | X | X | | |
| 144-52 | Pajarito Fine Sandy Loam | 1.6<br>1.4<br>1.4<br>1.4 | 2 | 1.5 | 3 | 2.0 | 4 | 2.5 | .75 | B-.5<br>F-.3 | X | X | X | X | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 42-14 | Anthony-Vinton Clay Loam | 2.2<br>1.0<br>1.0<br>1.0 | 2 | 1.5 | 3 | 2.0 | 4 | 2.5 | .75 | .3 | X | X | X | X | | |
| 61-6 | Agua Variant | 1.5<br>.7 | 2 | 1.0 | 2 | 1.0 | 2 | 1.0 | .75 | .3 | X* | X* | X | X | | |
| | | | | | | | | | *Land leveling limited because of high water table. | | | | | | | |
| 60-7 | Agua Variant and Belen Variant | 1.5 | 1 | .5 | 1 | .5 | 1 | .5 | .75 | | | | X | X | | |
| 44-12 | Anthony-Vinton Fine Sandy Loam | 1.5<br>1.0<br>1.0<br>1.2 | 2 | 1.0 | 3 | 1.5 | 4 | 2.0 | 1.0 | .3 | X | X | X | X | | |
| 43-13 | Anthony-Vinton Loam | 1.8<br>1.0<br>1.0<br>1.0 | 2 | 1.0 | 3 | 1.5 | 4 | 2.0 | 1.0 | .3 | X | X | X | X | | |