UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

SOIL INTERPRETATIONS FOR IRRIGATION IN THE Portales 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
Ca	Church Clay Loam	2.0 2.0	2.0	2.0	3.0	3.0	4.0	4.0	.3	B-1.0 F- .5	X	3/ X	X	X		
Ot	Olton Loam	2.0 2.0														
Bc	Blackwater Loam	2.0 2.0	2.0	2.0	2.0	2.0	2.0	2.0	.3	B-1.0 F- .5		X	X	X		
St Su	Stegall Loam															
Sw	Stegall Loam (Shallow)	2.0 2.0	1.5	1.5	1.5	1.5	1.5	1.5	.3	B-1.0 F- .5		X	X	X		
Ad Ae	Amarillo Loam	2.0 2.1 2.1 2.1	2.0	2.0	3.0	3.0	4.0	4.0	.5	B-1.0 F- .5		3/ X	X	X		

B - Borders F - Furrows

1/ Puddling may occur when using pivotal sprinklers on .3-.5 intake family soils.
2/ Drip irrigation recommended on orchards or high value row crops only.
3/ Tailwater recovery systems may be used to increase irrigation uniformity.

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Cf Cg Zm Pb	Clovis Loam Zita Loam Portales Loam	2.0 2.0 2.0	2.0	2.0	2.5	2.5	2.5	2.5	.5	B-.7 F-.4		3/ X	X	X		
Ak Md	Arch Loam Mansker and Portales Loam	1.8 2.0 2.0	2.0	1.5	2.5	2.0	2.5	2.0	.75	B-.7 F-.4		3/ X	X	X		
Pc Kb Tr	Potter Soils Kimbrough Soils Travessilla Loam	2.0	1.0	1.0	1.0	1.0	1.0	1.0	.75	B-.7 F-.4		X	X	X		

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UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Albuquerque, New Mexico

Date: Feb. 1977

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Ap Ar	Arvana Fine Sandy Loam															
Cd Ce	Clovis Fine Sandy Loam	1.5 2.0 2.0	2.0	1.5	3.0	2.5	3.0	2.5	.75	B-.7 F-.4		3/ X	X	X		
Pa	Portales Fine Sandy Loam															
Zf	Zita Fine Sandy Loam															
Ab	Amarillo Fine Sandy Loam	1.5 2.0 2.0 2.0	2.0	1.5	3.0	2.5	4.0	3.5	.75	B-.7 F-.3		3/ X	X	X		
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Ah	Arch Fine Sandy Loam															
Mc	Mansker and Portales Fine Sandy Loam	1.5 2.0	1.5	1.0	1.5	1.0	1.5	1.0	1.0	B-.7 F-.4		X	X	X		
As	Arvana Fine Sandy Loam (Shallow)															
Ka	Nimbrough Fine Sandy Loam															
Aa	Amarillo Loamy Fine Sand	1.0 1.8 1.8 1.8	2.0	1.0	3.0	2.0	4.0	3.0	1.0	B-.5 F-.3		3/ X	X	X		
Cc	Clovis Loamy Fine Sand	1.0 1.8 1.8	2.0	1.0	3.0	2.0	3.0	2.0	1.0	B-.5 F-.3		3/ X	X	X		

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Ba	Berthoud Sandy Loam	1.5 1.5 1.5 1.5	2.0	1.5	3.0	2.0	4.0	3.0	1.0	B-.7 F-.4		X	X	X		
An	Arvana Loamy Fine Sand	1.2 2.0 2.0	2.0	1.5	3.0	2.5	3.0	2.5	1.5	B-.5 F-.3		X	X	X		
Go	Gomez Loamy Fine Sand	1.0 1.2 1.8	2.0	1.0	3.0	1.5	3.0	1.5	1.5	B-.5 F-.3		X	X	X		
Ag	Arch Loamy Fine Sand	1.0 1.8	1.5	1.0	1.5	1.0	1.5	1.0	1.5	B-.5 F-.3		X	X	X		
Ao	Arvana Loamy Fine Sand (Shallow)	1.2	1.0	.5	1.0	.5	1.0	.5	1.5	B-.5 F-.3		X	X	X		

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Sf	Springer Loamy Fine Sand	1.0 1.5	2.0	1.0	3.0	2.0	4.0	2.5	2.0				X	X		
Dr	Drake Soils	1.5 1.0														
Be	Brown-field Fine Sand	.7 .7 2.0 2.0	2.0	.5	3.0	1.5	4.0	2.5	2.0				X	X		
Tr	Tivoli Fine Sand	.7 .7 .7 .7	2.0	.5	3.0	1.0	4.0	1.0	2.0				X	X		
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