Albuquerque, New Mexico

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

SOIL INTERPRETATIONS FOR IRRIGATION IN THE CHAMA and ESPANOLA FIELD OFFICES

Date: March 1990

Map Symbol 1	Soil Name 2	Available Moisture-holding Capacity per foot of soil Depth (in.) 3	Shallow Rooted Crops (1' VEGETABLES): Moisture Replacement Depth (ft.) 4	Shallow Rooted Crops: Net Moisture to be Replaced (in.) 5	Medium Rooted Crops (3' GRASS): Moisture Replacement Depth (ft.) 6	Medium Rooted Crops: Net Moisture to be Replaced (in.) 7	Deep Rooted Crops (4' ALF / ORCHARD): 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 (3/)	Sprinkler 14 (1/)	Drip 15 (2/)	16	17
11	Fruitland Sandy Loam	1.5 1.5 1.5 1.5	2	1.5	3	2.0	4	3.0	1.0	B-.5 F-.7		X	X	X		
21 4/	Werlog Clay Loam	2.2 2.0 2.2 1.8	2	2.0	3	2.0	3	3.0	.3	B-.7 F-1.0		X	X	X		
22	Jocity Gilco Complex															
	Jocity Sandy Loam	1.5 1.8 1.8 1.8	2	1.5	3	2.5	4	3.5	.5	B-.7 F-1.5		X	X	X		
	Gilco Loamy Sand	.8 1.8 1.8 1.8	2	1.0	3	2.0	4	3.0	.5	B-.7 F-1.5		X	X	X		

1/ Puddling may occur when using sprinklers on .1-.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 if soils permit building of pit.
4/ Variable high water tables and textures may affect irrigation recommendations.

B - Borders
F - Furrows

NOTE: Slow intake rates of .1-.3 intake family soils may limit net moisture replacement to 2" application.

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Date: March 1990

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			Shallow Rooted Crops		Medium Rooted Crops		Deep Rooted Crops				Adapted Conservation Irrigation Systems					
Map Symbol 1	Soil Name 2	Available Moisture-holding Capacity per foot of soil Depth (in.) 3	Moisture Replacement Depth (ft.) 4	Net Moisture to be Replaced (in.) 5	Moisture Replacement Depth (ft.) 6	Net Moisture to be Replaced (in.) 7	Moisture Replacement Depth (ft.) 8	Net Moisture to be Replaced (in.) 9	Family Intake Curve Designation Curve No. 10	Recommended Maximum Irrigation Grade Feet per 100 feet 11	Level 12	3/ Graded 13	1/ Sprinkler 14	2/ Drip 15	16	17
23	Gilco Sandy Clay Loam	1.8 1.5 1.5 1.5	2	1.5	3	2.0	4	3.0	.75	B-.7 F-1.5		X	X	X		
24	Jocity Sandy Clay Loam	1.8 1.8 1.8 1.8	2	1.5	3	2.5	4	3.5	.5	B-.7 F-1.5		X	X	X		
34	Alcalde Clay	1.8 1.8 1.8 1.8	2	1.5	3	2.5	4	3.5	.1	B-.3 F-2.0	X	X	X	X		
39	Fruitland Sandy Loam	1.5 1.5 1.5 .8	2	1.5	3	2.0	4	2.5	1.0	B-.5 F-.7		X	X	X		

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54	Capillo Silt Loam	2.0 1.8 2.2 2.2	2	1.5	3	3.0	4	4.0	.1	B-.5 F-1.5	X	X	X	X		
60	Sparham Clay Loam	1.8 1.8 2.4 1.8	2	1.5	3	3.0	4	3.5	.1	B-.5 F-1.5	X	X	X	X		
61	Colomex Gravelly Silt Loam	1.8 1.5 1.5 .5	2	1.5	3	2.0	4	2.5	1.0	B-.5 F-1.5		X	X	X		

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64	Dula-Grava Complex															
4/	Dula Loam	2.0 2.0 .5 .5	2	2.0	2	2.0	2	2.0	.75	B-.5 F-1.5		X	X	X		
4/	Grava Loam	1.8 1.8 .4 .4	2	1.5	2	1.5	2	1.5	.75	B-.5 F-1.5		X	X	X		
65	Doslomas Loam	2.2 1.8 .4 .4	2	2.0	2	2.0	2	2.0	.75	B-.5 F-1.5		X	X	X		
66	Encicado Silty Clay Loam	2.4 2.4 2.2 .8	2	2.0	3	3.5	3	3.5	.1	B-.5 F-1.5		X	X	X		

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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 3/ 13	Sprinkler 1/ 14	Drip 2/ 15	16	17
80	Orlie-Nalivag Assoc.															
	Orlie Loam	2.4 2.4 1.8 1.8	2	2.0	3	3.0	4	4.0	.3	B-.5 F-1.5		X	X	X		
	Nalivag Loam	2.0 2.0 2.4 2.4	2	2.0	3	3.0	4	4.0	.3	B-.5 F-1.5		X	X	X		
107	Berryman-Ruson Assoc.	2.4 2.0 1.8 1.8	2	2.0	3	3.0	4	4.0	.1	B-.5 F-1.5		X	X	X		
117	Chamita Loam	2.0 2.0 2.0 2.0	2	2.0	3	3.0	4	4.0	.3	B-.5 F-1.5	X	X	X	X		

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Date: March 1990

SOIL INTERPRETATIONS FOR IRRIGATION IN THE CHAMA and ESPANOLA FIELD OFFICES

			Shallow Rooted Crops		Medium Rooted Crops		Deep Rooted Crops				Adapted Conservation Irrigation Systems					
Map Symbol 1	Soil Name 2	Available Moisture-holding Capacity per foot of soil Depth (in.) 3	Moisture Replacement Depth (ft.) 4	Net Moisture to be Replaced (in.) 5	Moisture Replacement Depth (ft.) 6	Net Moisture to be Replaced (in.) 7	Moisture Replacement Depth (ft.) 8	Net Moisture to be Replaced (in.) 9	Family Intake Curve Designation Curve No. 10	Recommended Maximum Irrigation Grade Feet per 100 feet 11	Level 12	3/ Graded 13	1/ Sprinkler 14	2/ Drip 15	16	17
4/ 119	Rogues-Nusmag Clay Loam	1.8 1.8 1.8 1.8	2	1.5	3	2.5	3	2.5	.1	B-.5 F-1.5		X	X	X		
4/ 129	Nusmag-Tottles Clay Loam	1.8 1.8 1.8	2	1.5	2	1.5	2	1.5	.1	B-.5 F-1.5		X	X	X		
133	Carrick Silt Loam	2.2 2.0 2.0 2.0	2	2.0	3	3.0	4	4.0	.1	B-.7 F-1.5	X	X	X	X		
170 190	Sedillo Cobbly Loam Sedillo Loam	1.5 1.0 1.0 .6	2	1.0	3	1.5	4	2.0	.5	B-.7 F-2.0		X	X	X		

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Map Symbol 1	Soil Name 2	Available Moisture-holding Capacity per foot of soil Depth (in.) 3	Moisture Replacement Depth (ft.) 4	Net Moisture to be Replaced (in.) 5	Moisture Replacement Depth (ft.) 6	Net Moisture to be Replaced (in.) 7	Moisture Replacement Depth (ft.) 8	Net Moisture to be Replaced (in.) 9	Family Intake Curve Designation Curve No. 10	Recommended Maximum Irrigation Grade Feet per 100 feet 11	Level 12	3/ Graded 13	1/ Sprinkler 14	2/ Drip 15	16	17
180	Oelop Loam	2.2 2.4 2.4 2.4	2	2.0	3	3.0	4	4.0	.1	B-.7 F-1.5	X	X	X	X		
182	Oelop Sandy Loam	1.6 2.0 2.0 2.0	2	1.5	3	2.5	4	3.5	.3	B-.7 F-1.5	X	X	X	X		

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DRAFT

For These Soils 18&42

MWM & Gerald Stratton

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Date: April 1993

Soil Interpretations for Irrigation in Rio Arriba County (Chama and Espanola FOs)

Map Symbol 1	Soil Name 2	Available Moisture Holding Capacity per Foot of Soil (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 Irrig. Grade. Ft per 100 ft 11	Adapted Conservation Irrigation Systems: Level 12	Graded 13	1/ Sprinkler 14	2/ Drip 15	16	17
18 4/	Abiquiu silt loam	1.4	2.0	1.0	2.0	1.0	2.0	1.0	0.3	B-0.7 F-0.4		X	X	X		
42 4/	Abiquiu fine sandy loam	1.0 .5 .4 .4	2.0	0.5	2.0	0.5	2.0	0.5	0.3	B-0.7 F-0.4		X	X	X		
18 4/	Peralta loamy fine sand	1.0 1.3 1.2 .8	2.0	1.0	3.0	1.5	3.0	1.5	0.3	B-0.7 F-0.4		X	X	X		
42 4/	Walrees clay loam	2.0 2.0 .5 .4	2.0	2.0	2.0	2.0	2.0	2.0	0.3	B-0.7 F-0.4		X	X	X		

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DRAFT ~~[illegible]~~
Mwm McKinley & G. ~~[illegible]~~
G. Stratton

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Date: 4/27/98 4/9/98

Soil Interpretations for Irrigation in Rio Arriba County (Chama and Espanola FOs)

			Shallow Rooted Crops		Medium Rooted Crops		Deep Rooted Crops				Adapted Conservation Irrigation Systems					
Map Symbol	Soil Name	Available Moisture Holding Capacity per Foot of Soil (in.)	Moisture Replacement Depth (ft.)	Net Moisture to be Replaced (in.)	Moisture Replacement Depth (ft.)	Net Moisture to be Replaced (in.)	Moisture Replacement Depth (ft.)	Net Moisture to be Replaced (in.)	Family Intake Curve Designation Curve No.	Recommended Maximum Irrig. Grade. Ft per 100 ft	Level	Graded	1/ Sprinkler	2/ Drip		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
142	Pinavetes	.8	2.0	.5	3.0	.5	4.0	1.0	~~1.5~~ 2.0	—B —F	—	—	X	X		
		.5														
	Pinavetes	.5														
		.5														

See Attached Cuba 420
Los Lunas Bu & Bm