UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Albuquerque, New Mexico

SOIL INTERPRETATIONS FOR IRRIGATION IN THE Las Vegas FO

Date: April, 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	3/ Graded 13	1/ Sprinkler 14	2/ Drip 15	16	17
56B 56C	Litle Clay Loam	1.8 1.8	2.0	1.5	2.0	1.5	2.0	1.5	.1	B-1.0 F- .7		X	X	X		
13B 4/	Manzano Clay Loam High Water Table	1.8 1.5	2.0	1.5	2.0	1.5	2.0	1.5	.1	B-1.0 F- .7		X	X	X		
120B 120C	Partri Loam	2.2 1.8 1.8 1.8	2.0	2.0	3.0	2.5	4.0	3.5	.1	B-1.0 F- .7	X	X	X	X		
91B 91C	Swastika Clay Loam	2.2 2.0 2.2 2.2	2.0	2.0	3.0	3.0	4.0	4.0	.1	B-1.0 F- .7	X	X	X	X		
70 AB	Vermejo Clay Loam	2.2 2.0 2.0 2.0	2.0	2.0	3.0	3.0	4.0	4.0	.1	B-1.0 F- .7	X	X	X	X		

B - Borders F - Furrows

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.

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63B 63C	Colmor Loam	2.0 2.0 2.0 2.0	2.0	2.0	3.0	3.0	4.0	4.0	.3	B-1.0 F- .7	X	X	X	X		
26B 26C	Carnero Loam	2.0 2.0	2.0	2.0	2.0	2.0	2.0	2.0	.3	B-1.0 F- .7		X	X	X		
27C	Bernal Loam	2.0	1.0	1.0	1.0	1.0	1.0	1.0	.3				X	X		
54C	Litle-Penrose Complex	1.0 .8	1.5	.5	1.5	.5	1.5	.5	.3				X	X		
14B	Manzano Clay Loam	2.2 2.0 2.0 2.0	2.0	2.0	3.0	3.0	4.0	4.0	.3	B-1.0 F- .7	X	X	X	X		
12B	Manzano Fine Sandy Loam	1.8 1.8 1.8 1.8	2.0	1.5	3.0	2.5	4.0	3.5	.5	B- .7 F- .5	X	X	X	X		

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2/ Drip irrigation recommended on orchards or high value row crops only.
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17B 5/		.5-1.5 .5-1.5 .5-1.5 .5-1.5	2.0	.5-1.5	3.0	.5-2.0	4.0	1.0-3.0	.75-1.5	D- .5 F- .3		X	X	X		

B - Borders F - Furrows

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.
5/ This soil was given a range of interpretations to include its wide range of soil inclusions.

Sent to

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

IRRIGATION GUIDE
FOR
LAS VEGAS AND MORA WORK UNITS
AREA 2, NEW MEXICO

Albuquerque, New Mexico

March, 1967

Soil Symbol	Soil Name	Available Moisture-holding Capacity per foot of soil Depth(in.)	Crop Moisture Replacement Depth (ft.)	Group I Net Moisture to be Replaced (in.)	Crop Moisture Replacement Depth (ft.)	Group II Net Moisture to be Replaced (in.)	Crop Moisture Replacement Depth (ft.)	Group III Net Moisture to be Replaced (in.)	Family Intake Curve Designation Curve	Maximum Irrigation Grade Feet per 100 feet Border/Furrow	Adapted Conservation Irrigation Systems: Level	Graded	Sprinkler	Corrugation	Contour Ditch	Tailwater Recovery
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1111 1121 1221 2111 2121 4111 C1111 C1121 01111 02111 1101 2111b 3111	Deep fine to moderately fine textured surface soils; slow to very slowly permeable sub-soils.	2.1	3	3	3	3	3	3	0.2	3.0	0.1					
2211 2221 2231 2321 2331 2341 C2221 F2221 02221 2201 2271 2281 2291 2221b 2231b 2231b 2231k 2331b 2341b 3331b	Deep moderately fine textured surface soils-moderately permeable sub-soils.	2.1	4	4	4	4	3	3	0.5	3.0	0.1					
2212 2282 2202 2282 2282 2292	Moderately deep moderately fine textured surface soils-moderately permeable sub-soils. Underlain by shale, gravel, igneous or sandstone 20"-36".	2.1	2.5	2.5	2.5	2.5	2.5	2.5	0.5	3.0	0.1					
2223 2282	Shallow moderately fine textured surface soils. Moderately permeable sub-soils underlain by gravels 10"-20".	2.1	1.5	1.5	1.5	1.5	1.5	1.5	0.5	2.0	0.1					

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
3441 3451 4221 4421 4431 4441 4451 5331 04321 04321b 04331 04331b 04431 04441 04441b H321 H321b H441 H441b H441k 5331	Deep, coarse to medium textured surface soils, moderate to rapidly permeable sub-soils.	1.2	3.0	2.0	5.0	3.0	2.0	1.5	1.5	2.0	0.4					
5431 5441 05441	Deep, coarse textured surface soils, rapid per-	1.0	3.0	1.5	5	2.5	3.0	1.5	2.0	2.0	0.5					

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1	2	3	4	5	6	7	8	9	10	11		12	13	14	15	16	17
3221 3231 3241 3311 3321 3331 3341 3351 3431 4221 4321 4331 5211 03221b 03321 03331 03331b 0331h 032M1 033M1 033J1 33221 33331 32C1 32C1h 32F1 32H1 32J1 32W1 33A1 33C1h 33H1 33H1b 33W1 43H1 43J1 3221b 3221h 3231b 3231h 3231k 3321b 3331b 3331h 3341b 3421b 4321b 4331b 3221	Deep, medium textured surface soils, moderately permeable subsoils	2.0	3	3	4	4	2	2	.75	2.0	0.3						
032M2 032W2 033M2 033J2 33202 32B2 32C2 32C2m 32F2 32H2 32H2b 32K2 32W2 32W2 33A2 33C2 33C2h 33H2 33H2b 33J2 33J2b 33J2h 33W2 33W2 34J2	Moderately deep medium textured surface soils Moderately permeable subsoils. These soils are underlain with shale, caliche gravel sandstone and igneous rock.	2.0	2.5	2.5	2.5	2.5	2.0	2.0	.75	2.0	0.3						
033B3 03H 33H 33H3	Shallow, medium textured surface soils; moderate permeable subsoils. These soils are underlain by gravel at 13-20 inches.	2.0	1.5	1.5	1.5	1.5	1.5	1.5	1.0	2.0	0.3						