SELECTED SOIL FEATURES AND INTERPRETATIONS FOR MAJOR SOILS OF ARIZONA

supplement to ARIZONA GENERAL SOIL MAP

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE in cooperation with ARIZONA AGRICULTURAL EXPERIMENT STATION

DECEMBER 1975

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FOOTNOTES

- 1/ PERCENT ASSOCIATION IS OF STATE TOTAL AND PERCENT COMPONENTS ARE OF ASSOCIATION TOTAL.
- 2/ INTERPRETIVE SLOPE IS THE RANGE OF SOIL SLOPE ON WHICH INTERPRETATIONS ARE BASED.
- DEPTHS ARE THOSE FOR EACH NAMED SOIL AS DEFINED FOR THE SERIES. DEPTHS OUTSIDE THESE LIMITS MAY BE PRESENT IN INCLUDED SOILS.
- GENERAL PROFILE TEXTURES BASED ON DEFINED CHARACTERISTICS OF SOIL.
- FEATURES LISTED ARE THOSE THAT HAVE A MAJOR INFLUENCE ON SOIL USE AND MANAGEMENT.
- PERMEABILITY IS THE QUALITY OF A SOIL THAT ENABLES WATER OR AIR TO MOVE THROUGH IT. PERMEABILITY CLASS IS DETERMINED BY THE PERMEABILITY OF THE SLOWEST LAYER IN THE SOIL PROFILE.

RATE IN IN/HR

VERY SLOW	< .06	MODERATELY RAPID	2-6
SI DW	.062	RAPID	6-20
MODERATELY SLOW	.26	VERY RAPID	>20
MODERATE	.6-2.0		

- Z/ HYDROLOGIC SOIL GROUPS

 - A LOW RUNOFF POTENTIAL B MODERATELY LOW RUNOFF POTENTIAL C MODERATELY HIGH RUNOFF POTENTIAL D HIGH RUNOFF POTENTIAL
- BY THE ASSIGNED RATINGS SHOW THE POTENTIAL FOR SURFACE IRRIGATION FOR FIELD CROP PRODUCTION. SLOPP AND OTHER SOIL PROPERTIES SUCH AS AVAILABLE WATER CAPACITY, PERMEABILITY, AND SALT CONTENT, ARE REFLECTED IN THIS RATING. POTENTIAL FOR OTHER IRRIGATION METHODS WILL NEED TO BE EVALUATED.
- 2/ FOUR-PART RATING (HIGH, MEDIUM, LOW AND VERY LOW) REFLECTING RESPONSE TO KINDS OF MANAGEMENT
- 10/ THE ASSIGNED RATING SHOWS THE POTENTIAL OF THE SOILS FOR PONDEROSA PINE TIMBER PRODUCTION. A SOIL THAT IS HIGH HAS A SITE INDEX OF >75, MEDIUM HAS 55-74, LOW HAS <54, AND VERY LOW IS BASIC-ALLY UNSUITED FOR TIMBER PRODUCTION. SITE INDEX IS DEFINED AS AN EXPRESSION OF THE HEIGHT-AGE RELATIONSHIP OF THE TALLEST TREES IN NORMAL STANDS AT SOME DESIGNATED AGE.
- 11/ RATINGS BASED ON USDA-SCS GUIDE FOR INTERPRETING ENGINEERING USES OF SOILS, NOVEMBER 1971.

 EXCEPTION DEPTH TO BEDROCK OR HARDPAN NOT CONSIDERED A LIMITATION FOR DWELLINGS WHERE SLAB FOUNDATIONS ARE USED.
- 12/ REFER TO ENGINEERING BULLETIN NO. 12 ARIZONA STATE DEPARTMENT OF HEALTH SERVICES, FOR GUIDELINES FOR INSTALLING SEPTIC TANK SYSTEMS.

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adicating the item reference number concerned.

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SELECTED SOIL FEATURES

DEPTH
TO
BEDROCK REPRESENTATIVE PROFILE IMPORTANT FEATURES PERMEABILITY
OR TEXTURES
(IN)
3/ 4/ 5/ 6/ DOMINANT
SLOPE
(INTERPRETIVE
SLOPE)
(%)
2/ MAP SYMBOL, ASSOCIATION NAME, MAJOR COMPONENTS, AND CLASSIFICATION 1/

HYPERTHERMIC ARID SOILS - SOILS WITH MEAN ANNUAL SOIL TEMPERATURES OF MORE THAN 72°F (22°C) AND LESS THAN 10 INCHES

(25 CM) MEAN ANNUAL PRECIPITATION

HA1	TORRIFLUVENTS ASSOCIATION					
	GILMAN (20%) TYPIC TORRIFLUVENTS COARSE-LDAMY, MIXED, (CALCAREOUS)	0-3 (0-2)	>60	LOAM	STRATIFIED, SUBJECT TO FLOODING	MODERATE
	ANTHO (20%) TYPIC TORRIFLUVENTS, COARSE-LOAMY, MIXED, (CALCAREOUS)	0-3	>60	SANDY LOAM AND GRAVELLY SANDY LOAM	STRATIFIED, SUBJECT TO FLOODING	MODERATELY RAPID
	VINT (15%) TYPIC TORRIFLUVENTS, SANDY, MIXED	0-3	>60	LOAMY FINE SAND	STRATIFIED, SUBJECT TO FLOODING	MODERATELY RAPID
	VALENCIA (15%) TYPIC TORRIFLUVENTS, COARSE-LOAMY, MIXED, (CALCAREOUS)	0-3	>60	SANDY LOAM OVER SANDY CLAY LOAM AND CLAY LOAM	STRATIFIED, BURIED SOIL, SUBJECT TO FLOODING	MODERATELY SLOW
НА2	CASA GRANDE-MOHALL-LA PALMA ASSOCIATION (0.8%)					6. 6.4
	CASA GRANDE (35%) TYPIC NATRARGIDS, FINE-LOAMY, MIXED	0-2	>60	LOAM OVER CLAY LOAM OR SANDY CLAY LOAM	SALINE AND SODIC	SLOW
	MOHALL (30%) TYPIC HAPLARGIDS, FINE-LOAMY, MIXED	0-2	>60	SANDY LOAM OVER SANDY CLAY LOAM OVER GRAVELLY SANDY LOAM	MODERATE TO MODERATELY RAPID PERMEABILITY AT MODERATE DEPTHS	MODERATELY SLOW
	LA PALMA (10%) TYPIC DURARGIDS. FINE-LOAMY. MIXED	0-2	20-40	LOAM OVER CLAY LOAM OVER HARDPAN	SODIC, DEPTH TO PAN	SLOW
	HARQUA (10%) TYPIC HAPLARGIDS, FINE-LOAMY, MIXED	0-2	>60	GRAVELLY CLAY LOAM	SALINE AND SODIC, GRAVELLY	MODERATELY SLOW
на3	MOHALL-VECONT-PINAMT					
•	ASSOCIATION (1.2%) MOHALL (25%) , TYPIC HAPLARGIDS, FINE-LOAMY, MIXED	0-2	>60	SANDY LOAM OVER SANDY CLAY LOAM OVER GRAVELLY SANDY LOAM	MODERATE TO MODERATELY RAPID PERMEABILITY AT MODERATE DEPTHS	MODERATELY SLOW
	VECONT (20%) TYPIC HAPLARGIDS,	0 – 1	>60	CLAY LOAM OVER CLAY	CLAYEY	SLOW
	FINE, MIXED PINAMT (20%) TYPIC HAPLARGIDS, LOAMY-SKELETAL, MIXED	0-5	>60	VERY COBBLY LOAM OVER VERY GRAVELLY SANDY CLAY LOAM OVER VERY GRAVELLY SANDY LOAM	GRAVELLY, MODERATELY RAPID PERMEABILITY AT MODERATE DEPTHS	MODERATELY SLOW
	TREMANT (20%) TYPIC HAPLARGIDS, FINE-LOAMY, MIXED	0-5	>60	GRAVELLY LOAM OVER GRAVELLY CLAY LOAM OVER GRAVELLY LOAM	GRAVELLY, MODERATE PERMEABILITY AT MOD- ERATE DEPTHS	MODERATELY SLOW
на4	GUNSIGHT-RILLITO-PINAL ASSOCIATION (2.8%)					MODERATE
	GUNSIGHT (30%) TYPIC CALCIORTHIDS, LOAMY-SKELETAL, MIXED	2-15 (2-8)	>60	VERY GRAVELLY LOAM OVER VERY GRAVELLY SANDY LOAM	GRAVELLY, HIGH LIME	
	RILLITO (30%) TYPIC CALCIORTHIDS COARSE-LOAMY, MIXED	0-5	>60	GRAVELLY SANDY LOAM	GRAVELLY, HIGH LIME	MODERATELY RAPID
	PINAL (15%) TYPIC DURORTHIDS, COARSE-LOAMY, MIXED, SHALLOW	0-2	4-20	GRAVELLY LOAM OVER HARDPAN	DEPTH TO PAN, HIGH LIME	MODERATE
	CAVELT (10%) TYPIC PALEORTHIDS, LOAMY, MIXED, SHALLOW	0-2	4-20	GRAVELLY LOAM OVER HARDPAN	DEPTH TO PAN, HIGH LIME	MODERATE
нА	5 <u>LAVEEN-RILLITO ASSOCIATION</u> (0.6%)				HIGH LIME	MODERATE
	LAVEEN (40%) TYPIC CALCIORTHIDS, COARSE-LOAMY, MIXED	0-2	>60	LOAM		MODERATELY
	RILLITO (35%) TYPIC CALCIORTHIDS, COARSE-LOAMY, MIXED	0-3	>60	GRAVELLY SANDY LOAM	HIGH LIME, GRAVELLY	RAPID

0610		USE	POTENTIAL		SOIL INTERPRETAT		KIND OF LIMITA	TION FOR: 11/
HYDROL	GROUP	SURFACE IRRIGATED CROPLAND	RANGE	TIMBER PRODUCTION	SEPTIC TANK ABSORPTION FIELDS	SHALLOW	EXCAVATIONS	DWELLINGS WITHOUT BASEMENTS
2	2/	8/	9/	10/	12/			

	В	HIGH	VERY L	.OW Y	VERY L	_OW	MODERATE: SLIGHT WE PROTECTED	HERE	MODERATE: SLIGHT WHE PROTECTED	FLOODING:	SEVERE: FL SLIGHT WHER PROTECTED	_OODING; RE
	В	MEDIUM .	VERY L	_OW	VERY I	_OW	MODERATE SLIGHT WE PROTECTED		MODERATE: SLIGHT WHI PROTECTED	FLOODING; ERE	SEVERE: F SLIGHT WHE PROTECTED	
	В	MEDIUM	VERY L	_OW	VERY I	LOW	MODERATE SLIGHT WI PROTECTE		SEVERE: FLOODING	LOAMY SAND;	SEVERE: F SLIGHT WHE PROTECTED	
	В	HIGH	VERY I	_OW	VERY	LOW	SEVERE: PERMEABI	FLOODING; LITY	MODERATE: SIGHT WH PROTECTED	FLOODING; ERE	SEVERE: F SLIGHT WHE PROTECTED	
	С	LOW	VERY I	LOW	VERY	LOW	SEVERE: ABILITY	PERMÉ-	MODERATE:	CLAY	MODERATE: STRENGTH	LOW
	В	HIGH	VERY I	LOW	VERY	LOW	SLIGHT	iden i "	MODERATE: LOAM OVER SANDY LOA	GRAVELLY	MODERATE: STRENGTH	LOW
	С	LOW	VERY I	LOW	VERY	LOW	SEVERE: TO PAN	DEPTH	SEVERE: PAN	DEPTH TO	MODERATE: STRENGTH	LOW
Ja.	. C	LOW	VERY	LOW	VERY	LOW	SEVERE: ABILITY	PERME-	MODERATE:	GRAVELLY	MODERATE: STRENGTH	LOW
	В	HIGH	VERY	LOW .	VERY	LOW	SLIGHT		MODERATE: LOAM OVER SANDY LOA	GRAVELLY	MODERATE: STRENGTH	LOW
	D	MEDIUM	VERY	LOW	VERY	LOW	SEVERE: ABILITY	PERME-	SEVERE:	CLAY	SEVERE: L STRENGTH	.OW
	В	LOW	VERY	LOW	VERY	LOW	SLIGHT		SEVERE:	GRAVELLY	SLIGHT	
											WOREDATE	LOW
	В	MEDIUM	VERY	L'OM	VERY	LOW	SLIGHT		MODERATE	GRAVELLY	MODERATE: STRENGTH	LOW
										2.		*
	В	VERY LOW	VERY	LOW	VERY	LOW	SLIGHT		SEVERE:	GRAVELLY	SLIGHT	
	В	MEDIUM	VERY	LOW	VERY	LOW	SLIGHT		MODERATE	GRAVELLY	SLIGHT	
	D	VERY LOW	VERY	LOW	VERY	LOW	SEVERE: PAN	DEPTH TO	SEVERE: PAN	DEPTH TO	SLIGHT	
											CLICHT	
	D	VERY LOW	VERY	LOW	VERY	LOW	SEVERE: PAN	DEPTH TO	SEVERE: PAN	DEPTH TO	SLIGHT	
	В	HIGH	VERY		VERY	LOW	SLIGHT		SLIGHT		SLIGHT	
	В	MEDIUM	VERY	LOW	VERY	LOW	SLIGHT		MODERATE	: GRAVELLY	SLIGHT	

				SELECTED SOIL FEATURES				
	YMBOL, ASSOCIATION NAME, AJOR COMPONENTS, AND	DOMINANT _SLOPE_ (INTER- PRETIVE SLOPE) (%)	DEPTH TO BEDROCK OR HARDPAN (IN)	REPRESENTATIVE PROFILE TEXTURES	IMPORTANT FEATURES	PERMEABILITY		
	1/	2/	3/	4/	5/	6/		
нА6	LITHIC CAMBORTHIDS-ROCK OUTCROP-LITHIC HAPLARGIDS ASSOCIATION (10.5%)							
	LITHIC CAMBORTHIDS			WERN CORREY LOAM OVER	COBBLY WITH LIME LAYER	MODERATE		
	LOMITAS (20%) LITHIC CAMBORTHIDS, LOAMY-SKELETAL, MIXED	5-50 (15-50)	12-20	VERY COBBLY LOAM OVER BEDROCK	AND BEDROCK	MODERATE		
	CHERIONI (15%) TYPIC DURORTHIDS, LOAMY-SKELETAL, MIXED, SHALLOW	2-15 (2-8)	6-20	VERY GRAVELLY SANDY LOAM OVER HARDPAN AND BEDROCK	DEPTH TO ROCK	MODERATE		
	ROCK OUTCROP (35%)	5-70	0-4		DEPTH TO ROCK			
	LITHIC HAPLARGIDS							
	GACHADO (15%) LITHIC HAPLARGIDS, LOAMY-SKELETAL, MIXED	2-8	9 20	VERY COBBLY LOAM OVER VERY GRAVELLY SANDY CLAY LOAM OVER BEDROCK	DEPTH TO ROCK	SLOW		
на7	LAVEEN-CARRIZO-ANTHO ASSOCIATION (0.5%)							
	LAVEEN (30%) TYPIC CALCIORTHIDS, COARSE-LOAMY, MIXED	2-9	>60	LOAM	HIGH LIME	MODERATE		
	CARRIZO (25%) TYPIC TORRIORTHENTS, SANDY-SKELETAL, MIXED	0-5	>60	LDAMY SAND OVER VERY GRAVELLY COARSE SAND	VERY GRAVELLY AND SANDY, STRATIFIED, SUBJECT TO FLOODING	VERY RAPID		
	ANTHO (25%) TYPIC TORRIFLUVENTS, COARSE-LOAMY, MIXED (CALCAREOUS)	0-3	>60	SANDY LOAM AND GRAVELLY SANDY LOAM	STRATIFIED, SUBJECT TO FLOODING	MODERATELY RAPID		
на8	TREMANT-COOLIDGE-MOHALL ASSOCIATION (3.0%)							
	TREMANT (40%) TYPIC HAPLARGIDS, FINE-LOAMY, MIXED	0-5	>60	GRAVELLY LOAM OVER GRAVELLY CLAY LOAM	GRAVELLY, MODERATE PERMEABILITY AT MOD- ERATE DEPTHS	MODERATELY SLOW		
	COOLIDGE (15%) TYPIC CALCIORTHIDS, COARSE-LOAMY, MIXED	0-2	>60	SANDY LOAM	HIGH LIME	MODERATELY RAPID		
	MOHALL (15%) TYPIC HAPLARGIDS, FINE-LOAMY, MIXED	0-5	>60	SANDY LOAM OVER SANDY CLAY LOAM OVER GRAVELLY SANDY LOAM	MODERATE TO MODERATELY RAPID PERMEABILITY AT MODERATE DEPTHS	MODERATELY SLOW		
на9	HARQUA-PERRYVILLE-GUNSIGHT ASSOCIATION (1.4%)							
	HARQUA (35%) TYPIC HAPLARGIDS, FINE-LDAMY, MIXED	0-2	>60	GRAVELLY CLAY LOAM	SALINE AND SODIC, GRAVELLY	MODERATELY SLOW		
	PERRYVILLE (25%) TYPIC CALCIORTHIDS, COARSE-LOAMY, CARBONATI	1-8 (1-2)	>60	GRAVELLY LOAM	HIGH LIME	MODERATE		
	GUNSIGHT (20%) TYPIC CALCIORTHIDS, LDAMY-SKELETAL, MIXED	1-8	>60	VERY GRAVELLY LOAM OVER VERY GRAVELLY SANDY LOAM	GRAVELLY, HIGH LIME	MODERATE		
на1	0 <u>SUPERSTITION-ROSITAS</u> ASSOCIATION (0.5%)							
	SUPERSTITION (60%) TYPIC CALCIORTHIDS, SANDY, MIXED	0-2	>60	SAND AND LOAMY SAND	SANDY	MODERATELY RAPID		
	ROSITAS (20%) TYPIC TORRIPSAMMENTS,	0-2	>60	FINE SAND	SANDY	RAPID		
THE	MIXED RMIC ARID SOILS - SOILS WITH (13 TO 25 C	MEAN ANNU	AL SOIL T	EMPERATURE OF 59° TO 72°F	(15 TO 22°C) AND 5 TO 10	INCHES		
TA	1 TORRIORTHENTS-CAMBORTHIDS= ROCK OUTCROP ASSOCIATION							
	(2.7%) TORRIORTHENTS (65%)	15-75	VARI- ABLE	- VARIABLE	DEPTH TO ROCK, SLOPE	VARIABLE		
	CAMBORTHIDS (15%)	5-30 (15-30	VARI-	VARIABLE	DEPTH TO ROCK, SLOPE	VARIABLE		
	ROCK OUTCROP (15%)	8-75	0-4	-	DEPTH TO ROCK, SLOPE			
TA	2 ANTHONY-VINTON-AGUA ASSOCIATION (1.5%)							

			SELECT	ED SOIL INTERPRETATI	ONS	
0610	USE	POTENTIAL F	OR:	GENERAL DEG	REE AND KIND OF LIMITAL	DWELLINGS WITHOUT
HYDROLOGIC GROUP	SURFACE IRRIGATED CROPLAND	RANGE P	TIMBER RODUCTION	SEPTIC TANK ABSORPTION FIELDS	SHALLOW EXCAVATIONS	BASEMENTS
1/	8/	9/	10/	12/		
. i er						
D	VERY LOW	VERY LOW	VERY LOW	SEVERE: DEPTH TO ROCK; SLOPE	SEVERE: DEPTH TO ROCK; SLOPE	SEVERE: SLOPE
D	VERY LOW .	VERY LOW		SEVERE: DEPTH TO ROCK	SEVERE: DEPTH TO ROCK	SLIGHT
D		-	-			
D	VERY LOW	VERY LOW	VERY LOW	SEVERE: DEPTH TO ROCK	SEVERE: DEPTH TO ROCK	SLIGHT
					CLICUT	SLIGHT
В	HIGH	VERY LOW	VERY LOW	SLIGHT	SLIGHT	
Α	VERY LOW	VERY LOW	VERY LOW	MODERATE: FLOOD- ING: GROUND WATER CONTAMINATION	SEVERE: GRAVELLY AND SANDY	SEVERE: FLOODING; SLIGHT WHERE PROTECTED
В	MEDIUM	VERY LOW	VERY LOW	MODERATE: FLOOD- ING; SLIGHT WHERE PROTECTED	MODERATE: FLOOD- ING; SLIGHT WHERE PROTECTED	SEVERE: FLOODING; SLIGHT WHERE PROTECTED
			,			
В	MEDIUM	VERY LOW	VERY LOW	SLIGHT	MODERATE: GRAVELLY	MODERATE: LOW STRENGTH
В	MEDIUM	VERY LOW	VERY LOW	SLIGHT	SLIGHT	SLIGHT
В	HIGH	VERY LOW	VERY LOW	SLIGHT	MODERATE: CLAY LOAM	MODERATE: LOW STRENGTH
С	LOW	VERY LOW	VERY LOW	SEVERE: PERME- ABILITY	MODERATE: GRAVELLY	MODERATE: LOW STRENGTH
В	LOW	VERY LOW	VERY LOW	SLIGHT	MODERATE: GRAVELLY	SLIGHT
В	VERY LOW	VERY LOW	VERY LOW	SLIGHT	SEVERE: GRAVELLY	SLIGHT
А	LOW	VERY LOW	VERY LOW	SLIGHT	SEVERE: SAND AND LOAMY SAND	SLIGHT
А	VERY LOW	VERY LOW	VERY LOW	SLIGHT	SEVERE: SAND	SLIGHT
	MEAN ANNUAL	PRECIPITAT	ION			
		WERY 1.0	W VERY LOW	SEVERE: SLOPE,	SEVERE: SLOPE,	SEVERE: SLOPE
D D	VERY LOW			DEPTH TO ROCK SEVERE: DEPTH TO	DEPTH TO ROCK SEVERE: DEPTH TO ROCK, SLOPE	SEVERE: SLOPE
D	_		_	ROCK, SLOPE	-	

		DOMINANT _SLOPE_	DEPTH TO	SELECTED SOIL F	FEATURES	
MAF	SYMBOL, ASSOCIATION NAME, MAJOR COMPONENTS, AND CLASSIFICATION	(INTER- PRETIVE SLOPE) (%)	BEDROCE OR HARDPAN (IN)	TEXTURES	IMPORTANT FEATURES	PERMEABILITY
			<u>3</u> /	4/	5/	<u>6</u> /
	ANTHONY (35%) TYPIC TORRIFLUVENTS, COARSE-LOAMY, MIXED (CALCAREOUS)	0-3 (0-2)	>60	SANDY LOAM AND GRAVELLY SANDY LOAM	STRATIFIED, SUBJECT TO FLOODING	MODERATELY RAPID
	VINTON (30%) TYPIC TORRIFLUVENTS, SANDY, MIXED	0-3	>60	SANDY LOAM OVER LOAMY SAND	STRATIFIED, SUBJECT TO FLOODING	MODERATELY RAPID
	AGUA (20%) TYPIC TORRIFLUVENTS, COARSE-LOAMY OVER SANDY OR SANDY-SKELETAL, MIXED (CALCAREOUS)	0-2	>60	LOAM OVER SAND AND VERY GRAVELLY SAND	STRATIFIED, SUBJECT TO FLOODING	MODERATE
ТАЗ	LITHIC TORRIORTHENTS-ROCK OUTCROP-LITHIC HAPLARGIDS ASSOCIATION (1.5%)					
	LITHIC TORRIORTHENTS (35%)					
	CELLAR LITHIC TORRIORTHENTS LOAMY-SKELETAL, MIXED, NONACID	5-60 (15-60)	4-20	VERY GRAVELLY SANDY LOAM OVER BEDROCK	DEPTH TO ROCK, SLOPE	MODERATE
	ROCK DUTCROP (30%)	30-70	0-4		DEPTH TO ROCK, SLOPE	
	LITHIC HAPLARGIDS (20%)					
	LEHMANS LITHIC HAPLARGIDS, CLAYEY, MONTMORILLONITIC	9-50 (15-50)	10-20	GRAVELLY CLAY LOAM OVER GRAVELLY CLAY OVER BEDROCK	DEPTH TO ROCK, SLOPE	SLOW
TA4	LATENE-ANTHONY-TRES HERMANDS ASSOCIATION (1.2%)					
	LATENE (30%) TYPIC CALCIORTHIDS, COARSE-LOAMY, MIXED	0-3 (0-2)	>60	LOAM	HIGH LIME	MODERATE
	ANTHONY (30%) TYPIC TORRIFLUVENTS, COARSE-LOAMY, MIXED (CALCAREOUS)	0-3 (0-2)	>60	SANDY LOAM AND GRAVELLY SANDY LOAM	STRATIFIED, SUBJECT TO FLOODING	MODERATELY RAPID
	TRES HERMANDS (20%) TYPIC HAPLARGIDS, FINE-LOAMY, MIXED	2-15 (2-8)	>60	GRAVELLY SANDY CLAY LOAM OVER VERY GRAVELLY LOAM	GRAVELLY, MODERATE TO MODERATELY RAPID PER- MEABILITY AT MODERATE DEPTHS	MODERATELY SLOW
TA5	PALEORTHIDS-CALCIORTHIDS= TORRIORTHENTS ASSOCI- ATION (0.9%)				JE: 1115	
	PALEORTHIDS (30%)					
	CAVE TYPIC PALEDRTHIDS, LOAMY-MIXED, SHALLOW	2-8	4-20	GRAVELLY SANDY LOAM OVER GRAVELLY LOAM OVER HARDPAN	DEPTH TO PAN, HIGH LIME	MODERATE
	MORMON MESA TYPIC PALEORTHIDS, LOAMY, CARBONATIC, SHALLOW	1-8	7-20	FINE SANDY LOAM OVER HARDPAN	DEPTH TO PAN, HIGH LIME	MODERATELY RAPID
	CALCIORTHIDS (30%)					
		9-30 25-30)	>60	VERY GRAVELLY SANDY S LOAM	HIGH LIME, GRAVELLY, SLOPE	MODERATE
	TORRIORTHENTS (15%)					
	ARIZO TYPIC TORRIORTHENTS, SANDY-SKELETAL, MIXED	1-8	>60	VERY GRAVELLY SAND	GRAVELLY SAND, SUBJECT TO FLOODING	VERY RAPID
THERM	IC SEMIARID SOILS - SOILS WITH	MEAN ANNU	AL SOIL	TEMPERATURES OF 50° TO 30°	°F /15 TO 22°C AND	
	(25 TO 41 (TORRIFLUVENTS-TORRIPSAMMENTS	CM) MEAN AN	NNUAL PRE	CIPITATION 59 10 72	. (15 TO 22 C) AND 10 TO	16 INCHES
1	ASSOCIATION (0.1%)					
	TORRIFLUVENTS (40%)	0-3	>60 S	SANDY LOAM OVER LOAMY SAND	STRATIFIED, SUBJECT TO FLOODING	MODERATELY RAPID
	TORRIPSAMMENTS (40%)	2-8	>60 L	DAMY FINE SAND OVER STRATIFIED SAND	SANDY	RAPID

O	uce 1	POTENTIAL FO		ED SOIL INTERPRETAT GENERAL DE	IONS GREE AND KIND OF LIMITA	TION FOR: 11/	
HYDROLOGIC GROUP	SURFACE IRRIGATED CROPLAND		TIMBER RODUCTION	SEPTIC TANK ABSORPTION FIELDS		DWELLINGS WITHOUT BASEMENTS	
í 1/	8/	9/	10/	12/			
В	MEDIUM	VERY LOW		MODERATE: FLOOD- ING; SLIGHT WHERE PROTECTED	MODERATE: FLOOD- ING: SLIGHT WHERE PROTECTED	SEVERE: FLOODING; SLIGHT WHERE PROTECTED	
В	MEDIUM	VERY LOW	VERY LOW	MODERATE: FLOOD- ING; SLIGHT WHERE PROTECTED	SEVERE: LOAMY SAND	SEVERE: FLOODING; SLIGHT WHERE PROTECTED	
В	MEDIUM.	VERY LOW	VERY LOW	MODERATE: FLOOD- ING; SLIGHT WHERE PROTECTED	SEVERE: SAND; GRAVEL	SEVERE: FLOODING: SLIGHT WHERE PROTECTED	
D	VERY LOW	VERY LOW	VERY LOW	SEVERE: DEPTH TO ROCK; SLOPE	SEVERE: DEPTH TO ROCK; SLOPE	SEVERE: SLOPE	
D		_			15 ME 14		
D	VERY LOW	VERY LOW	VERY LOW	SEVERE: DEPTH TO ROCK; SLOPE	SEVERE: DEPTH TO ROCK; SLOPE	SEVERE: SLOPE	
В	нісн	VERY LOW	VERY LOW	SLIGHT	SLIGHT	SLIGHT	
В	MEDIUM	VERY LOW	VERY LOW	MODERATE: FLOOD ING: SLIGHT WHER PROTECTED	- MODERATE: FLOOD- E ING: SLIGHT WHERE PROTECTED	SEVERE: FLOODING; SLIGHT WHERE PROTECTED	
В	VERY LOW	VERY LOV	W VERY LOW	SLIGHT	SEVERE: GRAVELLY	SLIGHT	
					and the second	CLICUT	
D	VERY LOW	VERY LO	W VERY LOW	SEVERE: DEPTH	PAN		
D	VERY LOW	VERY LO	W VERY LOV	SEVERE: DEPTH	TO SEVERE: DEPTH TO PAN	SLIGHT	
В	VERY LOW	VERY LO	OW VERY LO	W SEVERE: SLOPE	SEVERE: GRAVELLY	SEVERE: SLOPE	
А	VERY LO	W VERY LI	OW VERY LO	W MODERATE: FLOO ING: SLIGHT WHE PROTECTED	DD- SEVERE: GRAVELL RRE	Y SEVERE: FLOODING; SLIGHT WHERE PROTECTED	
В	LOW	LOW	VERY L	MODERATE: FLO ING: SLIGHT WH PROTECTED	OD- MODERATE: FLOOD ERE ING; UNSTABLE MATERIAL	SEVERE: FLOODING: SLIGHT WHERE PROTECTED	
А	VERY LO	W LOW	VERY L		SEVERE: SAND	SLIGHT	

SELECTED SOIL FEATURES

	SELECTED SOIL FEATURES					
MA.II	BOL, ASSOCIATION NAME, OR COMPONENTS, AND	_SLOPE_ (INTER- B	DEPTH TO BEDROCK OR HARDPAN	REPRESENTATIVE PROFILE TEXTURES	IMPORTANT FEATURES	PERMEABILITY
1	CLASSIFICATION	(%) 2/	(IN) 3/	4/	<u>5</u> /	<u>6</u> /
	1/	Ε'				
s2 <u>TO</u>	RRIFLUVENTS ASSOCIATION					
	TORRIFLUVENTS (95%)	0-3	>60	LOAM	STRATIFIED, SUBJECT TO FLOODING	MODERATE
	ANTHROPIC TORRIFLUVENTS (CALCAREOUS)	0-3	>60	CLAY LOAM AND SILTY CLAY LOAM	STRATIFIED, SUBJECT TO FLOODING	MODERATELY SLOW
	PIMA ANTHROPIC TORRIFLUVENTS FINE-SILTY, MIXED	(0-2)			STRATIFIED, SUBJECT TO	MODERATELY RAPID
	ANTHONY TYPIC TORRIFLUVENTS, COARSE-LOAMY, MIXED (CALCAREOUS)	0-3	>60	SANDY LOAM AND GRAVELLY SANDY LOAM	FLOODING	NAI 12
TS3 I	<u>UBAC-SONOITA-GRABE ASSOCI- TION</u> (2.5%)		>60	SANDY LOAM OVER CLAY	CLAYEY	SLOW
	TUBAC (35%) TYPIC PALEARGIDS, FINE, MIXED	0-8		GRAVELLY SANDY LOAM	GRAVELLY	MODERATE
	SONDITA (20%) TYPIC HAPLARGIDS, COARSE-LOAMY, MIXED	0-10	>60		STRATIFIED, SUBJECT TO	MODERATE
	GRABE (20%) ANTHROPIC TORRIFLUVENTS COARSE-LOAMY, MIXED (CALCAREOUS)	0-3	>60	LOAM	FLOODING	
TS4	WHITE HOUSE-BERNARDINO= HATHAWAY ASSOCIATION (1.1%)			A DATE OF THE OWNER	CLAYEY	SLOW
	WHITE HOUSE (40%) USTOLLIC HAPLARGIDS FINE, MIXED	1-8 (1-2)	>60	GRAVELLY LOAM OVER CLAY	CONVELLY HIGH LIME AT	SLOW
	BERNARDINO (20%) USTOLLIC HAPLARGIDS, FINE, MIXED	2-15 (2-8)	>60	GRAVELLY CLAY LOAM OVER GRAVELLY CLAY	SHALLOW DEPINS, MODERATELY RAPID PERME- ABILITY AT MODERATE DEPTHS	
	HATHAWAY (20%) ARIDIC CALCIUSTOLLS, LOAMY-SKELETAL, MIXED	15-30	>60	GRAVELLY LOAM OVER VERY GRAVELLY LOAMY SAND AND SANDY LOAM	HIGH LIME, GRAVELLY AND SLOPE	MODERATE
TS5	CARALAMPI-HATHAWAY ASSOCI ATION (0.7%)	30-60	>60	VERY GRAVELLY SANDY	GRAVELLY, SLOPE	MODERATEL' SLOW
	CARALAMPI (45%) USTOLLIC HAPLARGIDS, LOAMY-SKELETAL, MIXED			LOAM OVER VERY GRAVELI SANDY CLAY LOAM GRAVELLY LOAM OVER	HIGH LIME, GRAVELLY	MODERATE
	HATHAWAY (35%) ARIDIC CALCIUSTOLLS, LOAMY-SKELETAL, MIXEC	20-60	>60	VERY GRAVELLY LOAMY SAND AND SANDY LOAM	AND SLOPE	
TS6	LITHIC TORRIORTHENTS-LIT HAPLUSTOLLS-ROCK OUTCROP ASSOCIATION (6.9%)	HIC				
	LITHIC TORRIORTHENTS (9-75		STONY CLAY LOAM OVER BEDROCK	DEPTH TO ROCK, SLOPE	MODERATE
	LITHIC TORRIORTHENTS LOAMY-SKELETAL, MIXE NONACID	(15-75 D	5)	DEDITION.		
	LITHIC HAPLUSTOLLS (25	9-7		O VERY COBBLY LOAM OVE BEDROCK	R DEPTH TO ROCK, SLOPE	MODERATE
	LITHIC HAPLUSTOLLS, LOAMY-SKELETAL, MIX	(15-7 ED 9-7		O VERY COBBLY LOAM OVE	R DEPTH TO ROCK, HIGH LIME, SLOPE	MODERATE
	MABRAY LITHIC HAPLUSTOLLS, LOAMY, SKELETAL, CARBONATIC	(15-7	-	BEDROCK	DEPTH TO ROCK, SLOP	E -
	ROCK OUTCROP (25%)	10-7	70 0-4	4	DELLII IO KOOM, OPEN	

GROUP	SURFACE IRRIGATED CROPLAND	RANGE	TIMBER PRODUCTION	SEPTIC TANK ABSORPTION FIELDS	SHALLOW EXCAVATIONS	DWELLINGS WITHOUT BASEMENTS
<u> 7</u> /	8/	9/	10/	12/		
3	HIGH	MEDIUM	VERY LOW	MODERATE: FLOOD- ING: SLIGHT WHERE PROTECTED	MODERATE: FLOOD- ING; SLIGHT WHERE PROTECTED	SEVERE: FLOODING; SLIGHT WHERE PROTECTED
3	HIGH .	MEDIUM	VERY LOW	SEVERE: PERME- ABILITY, FLOOD- ING	MODERATE: SILTY CLAY LOAM; FLOODING	SEVERE: FLOODING; MODERATE WHERE PROTECTED; LOW STRENGTH
3	MEDIUM	MEDIUM	VERY LOW	MODERATE: FLOOD- ING; SLIGHT WHERE PROTECTED	MODERATE: FLOOD- ING; SLIGHT WHERE PROTECTED	SEVERE: FLOODING; SLIGHT WHERE PROTECTED
С	MEDIUM	MEDIUM	VERY LOW	SEVERE: PERME- ABILITY	MODERATE: CLAY	SEVERE: LOW STRENGT
В	MEDIUM	MEDIUM	VERY LOW	SLIGHT	MODERATE: GRAVELLY	SLIGHT
В	HIGH	MEDIUM	VERY LOW	MODERATE: FLOOD- ING; SLIGHT WHERE PROTECTED	MODERATE: FLOOD- ING: SLIGHT WHERE PROTECTED	SEVERE: FLOODING; SLIGHT WHERE PROTECTED
С	MEDIUM	HIGH	VERY LOW	SEVERE: PERME- ABILITY	SEVERE: CLAY	SEVERE: LOW STRENGTH
С	VERY LOW	HIGH	VERY LOW	SLIGHT	MODERATE: GRAVELLY	(SLIGHT
В	VERY LOW	HIGH	VERY LOW	SEVERE: SLOPE	SEVERE: GRAVELLY	SEVERE: SLOPE
В	VERY LOW	HIGH	VERY LOW	SEVERE: SLOPE	SEVERE: GRAVELLY	SEVERE: SLOPE
В	VERY LOW	HIGH	VERY LOW	SEVERE: SLOPE	SEVERE: GRAVELLY	SEVERE: SLOPE
D	VERY LOW	LOW	VERY LOW	SEVERE: DEPTH TO ROCK; SLOPE	SEVERE: DEPTH TO ROCK; SLOPE	SEVERE: SLOPE
D	VERY LOW	MEDIUM	VERY LOW	SEVERE: DEPTH TO ROCK; SLOPE	SEVERE: DEPTH TO ROCK; SLOPE	SEVERE: SLOPE
D	VERY LOW	LOW	VERY LOW	250711 70	SEVERE: DEPTH TO ROCK; SLOPE	SEVERE: SLOPE

					SELECTED SOIL FEATU	RES	
		MBOL, ASSOCIATION NAME, JOR COMPONENTS, AND CLASSIFICATION	DOMINANT _SLOPE_ (INTER- PRETIVE . SLOPE)	DEPTH TO BEDROCK OR HARDPAN	REPRESENTATIVE PROFILE TEXTURES	IMPORTANT FEATURES	PERMEABILITY
		1/	(*) <u>2</u> /	(IN) <u>3</u> /	4/	5/	6/
		HITE HOUSE-CARALAMPI					
		WHITE HOUSE (50%) USTOLLIC HAPLARGIDS, FINE, MIXED	2-5	>60	GRAVELLY LOAM OVER CLAY	CLAYEY	SLOW
		CARALAMPI (35%) USTOLLIC HAPLARGIDS, LOAMY-SKELETAL, MIXED	5-8	>60	VERY GRAVELLY SANDY LOAM OVER VERY GRAVELLY SANDY CLAY LOAM	GRAVELLY, MODERATE PERMEABILITY AT MODERATE DEPTHS	MODERATELY SLOW
		CARALAMPI-WHITE HOUSE ASSOCIATION (0.4%)					MODERATELY
		CARALAMPI (65%) USTOLLIC HAPLARGIDS, LOAMY-SKELETAL, MIXED	10-30 (15-30)	>60	VERY GRAVELLY SANDY LOAM OVER VERY GRAVELLY SANDY CLAY LOAM	GRAVELLY, SLOPE, MOD- ERATE PERMEABILITY AT MODERATE DEPTHS	SLOW
		WHITE HOUSE (20%) USTOLLIC HAPLARGIDS, FINE, MIXED	5-10 (5-8)	>60	GRAVELLY LOAM OVER CLAY	CLAYEY	SLOW
		<u>LATENE-NICKEL-PINALENO</u> <u>ASSOCIATION</u> (1.8%)					
		LATENE (30%) TYPIC CALCIORTHIDS, COARSE-LOAMY, MIXED	1-8	>60	LOAM	HIGH LIME	MODERATE
		NICKEL (20%) TYPIC CALCIORTHIDS, LOAMY-SKELETAL, MIXED	9-75 (15-75)	>60	VERY GRAVELLY SANDY LOAM	HIGH LIME, GRAVELLY, SLOPE	MODERATELY SLOW
		PINALENO (20%) TYPIC HAPLARGIDS, LDAMY-SKELETAL, MIXED	1-35 (15-35)	>60	VERY GRAVELLY SANDY LOAM OVER VERY GRAV- ELLY SANDY CLAY LOAM	GRAVELLY, MODERATE PERMEABILITY AT MOD- ERATE DEPTHS	MODERATELY SLOW
	TS10	CHIRICAHUA-CELLAR ASSOCI- ATION (0.2%)					
		CHIRICAHUA (50%) USTOLLIC HAPLARGIDS, CLAYEY, MIXED	5-20 (8-15)	20-30	COBBLY LOAM OVER GRAVELLY CLAY OVER BEDROCK	DEPTH TO ROCK	SLOW
×		CELLAR (30%) LITHIC TORRIDATHENTS, LOAMY-SKELETAL, MIXED, NONACID	15-25	4-20	VERY GRAVELLY SANDY LOAM OVER BEDROCK	DEPTH TO ROCK, SLOPE	MODERATE
	TS1 1 ⋅	GOTHARD-CROT-STEWART ASSOCIATION (0.2%)					
		GOTHARD (35%) TYPIC NATRARGIDS, FINE-LDAMY, MIXED	0-1	>60	FINE SANDY LOAM OVER CLAY LOAM	SODIC AND SALINE, MODERATELY WELL DRAINED	VERY SLOW
		CROT (25%) AQUIC NATRYSTALFS, FINE-LOAMY, MIXED	0-1	>60	SANDY LOAM OVER SANDY CLAY LOAM	SODIC AND SALINE, SOMEWHAT POORLY DRAINED	VERY SLOW
		STEWART (25%) TYPIC DURORTHIDS, COARSE-LOAMY, MIXED,	0-1	4-20	LOAM OVER HARDPAN	SODIC AND SALINE, DEPTH TO PAN	VERY SLOW
	TS12	SHALLOW CONTINENTAL-LATENE-PINALEN ASSOCIATION (1.6%)	<u>o</u>				
		CONTINENTAL (30%) TYPIC HAPLARGIDS, FINE, MIXED	2-8	>60	GRAVELLY SANDY LOAM OVER GRAVELLY CLAY	CLAYEY AND GRAVELLY	SLOW
		LATENE (25%) TYPIC CALCIORTHIDS, COARSE-LOAMY, MIXED	1-5 (1-2)	>60	LOAM	HIGH LIME	MODERATE
		PINALENO (25%) TYPIC HAPLARGIDS, LOAMY-SKELETAL, MIXED	1-35 (15-35	>60	VERY GRAVELLY SANDY LOAM OVER VERY GRAVELLY SANDY CLAY LOAM	GRAVELLY, SLOPE, MOD- ERATE PERMEABILITY AT MODERATE DEPTHS	MODERATELY SLOW
	TS13	KARRO-GOTHARD ASSOCIATION					
		KARRO (40%) USTOLLIC CALCIORTHIDS, FINE-LOAMY, CARBONATIO		>60	LOAM OVER CLAY LOAM	HIGH LIME	MODERATELY SLOW
		GOTHARD (35%) TYPIC NATRARGIDS, FINE-LOAMY, MIXED	0-1	>60	FINE SANDY LOAM OVER CLAY LOAM	SODIC AND SALINE, MODERATELY WELL DRAINED	VERY SLOW

SIC	USE	POTENTIAL		ED SOIL INTERPRETATI GENERAL DEG	ONS REE AND KIND OF LIMITA	ATION FOR: 11/
HYDROLOGIC GROUP	SURFACE IRRIGATED CROPLAND	RANGE	TIMBER PRODUCTION	SEPTIC TANK ABSORPTION FIELDS	SHALLOW EXCAVATIONS	DWELLINGS WITHOUT BASEMENTS
1/	8/	9/	10/	12/		
С	VERY LOW	MEDIUM	VERY LOW	SEVERE: PERME- ABILITY	SEVERE: CLAY	SEVERE: LOW STRENGTH
В	VERY LOW	MEDIUM	VERY LOW	MODERATE: PERME- ABILITY	SEVERE: GRAVELLY	SLIGHT
В	VERY LOW	MEDIUM	VERY LOW	SEVERE: SLOPE	SEVERE: GRAVELLY	SEVERE: SLOPE
С	VERY LOW	MEDIUM	VERY LOW	SEVERE: PERME- ABILITY	SEVERE: CLAY	SEVERE: LOW STRENGTH
В	HIGH	LOW	VERY LOW	SLIGHT	MODERATE: GRAV- ELLY; SLOPE	SLIGHT
В	VERY LOW	LOW	VERY LOW	SEVERE: SLOPE	SEVERE: SLOPE; GRAVELLY	SEVERE: SLOPE
В	VERY LOW	LOW	VERY LOW	SEVERE: SLOPE	SEVERE: GRAVELLY; SLOPE	SEVERE: SLOPE
D	VERY LOW	MEDIUM	VERY LOW	SEVERE: DEPTH TO ROCK; PERMEABILITY	SEVERE: DEPTH TO ROCK	SEVERE: LOW STRENGTH
D	VERY LOW	LOW	VERY LOW	SEVERE: DEPTH TO ROCK; SLOPE	SEVERE: DEPTH TO ROCK; SLOPE	SEVERE: SLOPE
D	VERY LOW	MEDIUM	VERY LOW	SEVERE: PERME- ABILITY; MODER- ATELY WELL DRAINED	MODERATE: CLAY LOAM	SEVERE: LOW STRENGTH
D	VERY LOW	MEDIUM	VERY LOW	SEVERE: PERME- ABILITY; SOMEWHAT POORLY DRAINED	SEVERE: WATER TABLE	SEVERE: LOW STRENGTH
D	VERY LOW	MEDIUM	VERY LOW	SEVERE: DEPTH TO PAN	SEVERE: DEPTH TO PAN	SLIGHT
С	VERY LOW	MEDIUM	VERY LOW	SEVERE: PERME- ABILITY	SEVERE: CLAY	MODERATE: LOW STRENGTH
В	HIGH	LOW	VERY LOW	SLIGHT	SLIGHT	SLIGHT
В	VERY LOW	MEDIUM	VERY LOW	SEVERE: SLOPE	SEVERE: GRAVELLY	SEVERE: SLOPE
В	MEDIUM	MEDIUM	VERY LOW	SEVERE: PERME- ABILITY	MODERATE: CLAY	MODERATE: LOW STRENGTH
D	VERY LOW	MEDIUM	VERY LOW	SEVERE: PERME- ABILITY; MODER- ATELY WELL DRAINE	MODERATE: CLAY LOAM	SEVERE: LOW STRENGTH

			SELECTED SOIL FEATUR	RES			
MAP SYMBOL, ASSOCIATION NAME, MAJOR COMPONENTS, AND CLASSIFICATION	PRETIVE SLOPE) (%)	DEPTH TO BEDROCK OR HARDPAN (IN)	REPRESENTATIVE PROFILE TEXTURES		PERMEABILITY.		
1/	2/	3/	2				
TS14 NICKEL-LATENE-CAVE ASSOCIATION (1.4%)					WODERATELY		
NICKEL (25%) TYPIC CALCIORTHIDS, LOAMY-SKELETAL, MIXED	10-60 (15-60)	>60	VERY GRAVELLY SANDY LOAM	HIGH LIME, GRAVELLY, SLOPE	MODERATELY SLOW		
LATENE (25%) TYPIC CALCIORTHIDS, COARSE-LOAMY, MIXED	0-8	>60	LOAM	HIGH LIME	MODERATE		
CAVE (15%) TYPIC PALEORTHIDS, LOAMY, MIXED, SHALLOW	0-5	4-20	GRAVELLY SANDY LOAM OVER GRAVELLY LOAM OVER HARDPAN	DEPTH TO PAN, HIGH LIME	MODERATE		
RILLIND (20%) TYPIC CALCIORTHIDS, COARSE-LOAMY, MIXED	1-20 (8-15)	>60	GRAVELLY SANDY LOAM OVER GRAVELLY LOAM	HIGH LIME, GRAVELLY	MODERATE		
TS15 BONITA-GRAHAM-RIMROCK ASSOCIATION (1.1%)							
BONITA (30%) TYPIC CHROMUSTERTS, FINE, MONTMORILLONITIC	0-8	>60	COBBLY SILTY CLAY OVER SILTY CLAY	CLAYEY, SHRINK-SWELL	VERY SLOW		
GRAHAM (20%) LITHIC ARGIUSTOLLS, CLAYEY, MONTMORI- LLONITIC	2-50 (15-50)	8-20	GRAVELLY CLAY OVER BEDROCK	CLAYEY, DEPTH TO ROCK, SHRINK-SWELL, SLOPE	SLOW		
RIMROCK (20%) TYPIC CHROMUSTERTS, FINE, MONTMORILLONITIC	0-8 (0-2)	20-60	COBBLY CLAY OVER CLAY OVER BEDROCK	CLAYEY, DEPTH TO ROCK, SHRINK-SWELL	VERY SLOW		
TS16 PENTHOUSE-LATENE-CORNVILLE							
ASSOCIATION (0.1%) PENTHOUSE (30%) USTOLLIC HAPLARGIDS,	2-15	>60	COBBLY CLAY LOAM OVER CLAY OVER VERY GRAV- ELLY CLAY LOAM	CLAYEY	VERY SLOW		
FINE, MIXED LATENE (30%) TYPIC CLACIDRTHIDS, COARSE-LOAMY, MIXED	0-3 (0-2)	>60	LOAM	HIGH LIME	MODERATE		
CORNVILLE (25%) TYPIC HAPLARGIDS, FINE-LOAMY, MIXED	1-10(1-2)	>60	FINE SANDY LOAM OVER SANDY CLAY LOAM OVER GRAVELLY LOAM	MODERATE PERMEABILITY AT MODERATE DEPTHS	MODERATELY SLOW		
TS17 SIGNAL-GRABE ASSOCIATION							
(0.1%) SIGNAL (50%) ARIDIC PALEUSTOLLS, CLAYEY-SKELETAL,	2-5	>60	GRAVELLY LOAM OVER GRAVELLY CLAY	GRAVELLY, SHRINK-SWELL CLAYEY	, SLOW		
MONTMORILLONITIC GRABE (30%) ANTHROPIC TORRIFLUVEN	0-2 NTS,	>60	LOAM	STRATIFIED, SUBJECT TO	MODERATE		
COARSE-LOAMY, MIXED (CALCAREOUS)							
TS18 <u>GRAHAM-LAMPSHIRE-HOUSE</u> <u>MOUNTAIN ASSOCIATION</u> (0.8	8%)						
GRAHAM (40%) LITHIC ARGIUSTOLLS, CLAYEY, MONTMORILLON	5-50 (15-50		GRAVELLY CLAY OVER BEDROCK	CLAYEY, DEPTH TO ROCK SHRINK-SWELL, SLOPE	, SLOW		
LAMPSHIRE (30%) LITHIC HAPLUSTOLLS, LOAMY-SKELETAL, MIXE	5-60 (15-60		VERY COBBLY LOAM OVER BEDROCK	DEPTH TO ROCK, SLOPE	MODERATE		
HOUSE MOUNTAIN(15%) LITHIC TORRIORTHENTS LOAMY-SKELETAL, MIXE NONACID	10-60		STONY CLAY LOAM OVER BEDROCK	DEPTH TO ROCK, SLOPE	MODERATE		
TS19 ANTHONY-SONGITA ASSOCIAT	TION			CIDATIESES CUBIECT 3	TO MODERATELY		
ANTHONY (35%) TYPIC TORRIFLUVENTS, COARSE-LOAMY, MIXED	1-3		SANDY LOAM AND GRAVELLY SANDY LOAM	STRATIFIED, SUBJECT T	KAPID		
(CALCAREOUS) SONOITA (30%) TYPIC HAPLARGIDS, COARSE-LOAMY, MIXED	1-3 (1-2		GRAVELLY SANDY LOAM	GRAVELLY	MODERATE		

010	USE I	POTENTIAL		ED SOIL INTERPRETATI GENERAL DEG	ONS REE AND KIND OF LIMITA	TION FOR: 11/
HYDROLOGIC GROUP	SURFACE IRRIGATED CROPLAND	RANGE	TIMBER PRODUCTION	SEPTIC TANK ABSORPTION FIELDS	SHALLOW EXCAVATIONS	DWELLINGS WITHOUT BASEMENTS
<u>z</u> /	8/	9/	10/	12/		
	e - gr	1 -				
В	VERY LOW	LOW	VERY LOW	SEVERE: SLOPE	SEVERE: SLOPE; GRAVELLY	SEVERE: SLOPE
В	HIGH	LOW	VERY LOW	SLIGHT	SLIGHT	SLIGHT
D	VĚRY LOW	LOW	VERY LOW	SEVERE: DEPTH TO PAN	SEVERE: DEPTH TO PAN	SLIGHT
В	VERY LOW	LOW	VERY LOW	MODERATE: SLOPE	MODERATE: SLOPE; GRAVELLY	MODERATE: SLOPE
D	LOW	MEDIUM	VERY LOW	SEVERE: PERME- ABILITY	SEVERE: CLAY	SEVERE: SHRINK= SWELL
D	VERY LOW	MEDIUM	VERY LOW	SEVERE: DEPTH TO ROCK; SLOPE	SEVERE: DEPTH TO ROCK; SLOPE	SEVERE: SHRINK= SWELL; SLOPE
D	LOW	MEDIUM	VERY LOW	SEVERE: PERME- ABILITY; DEPTH TO ROCK	SEVERE: CLAY; DEPTH TO ROCK	SEVERE: SHRINK= SWELL
D	VERY LOW	MEDIUM	VERY LOW	SEVERE: PERME- ABILITY	SEVERE: CLAY	SEVERE: LOW STRENGTH
В	HIGH	MEDIUM	VERY LOW	SLIGHT	SLIGHT	SLIGHT
В	HIGH	MEDIUM	VERY LOW	SLIGHT	SLIGHT	SLIGHT
D	VERY LOW	HIGH	VERY LOW	SEVERE: PERME- ABILITY	SEVERE: GRAVELLY; CLAY	MODERATE: SHRINK= SWELL
В	HIGH	HIGH	VERY LOW	MODERATE: FLOOD- ING; SLIGHT WHERE PROTECTED	MODERATE: FLOOD- ING; SLIGHT WHERE PROTECTED	SEVERE: FLOODING; SLIGHT WHERE PROTECTED
D	VERY LOW	LOW	VERY LOW	SEVERE: DEPTH TO ROCK; SLOPE	SEVERE: DEPTH TO ROCK; SLOPE	SEVERE: SLOPE; SHRINK-SWELL
D	VERY LOW	LOW	VERY LOW	SEVERE: DEPTH TO ROCK; SLOPE	SEVERE: DEPTH_TO ROCK; SLOPE	SEVERE: SLOPE
D	VERY LOW	LOW	VERY LOW	SEVERE: DEPTH TO ROCK; SLOPE	SEVERE: DEPTH TO ROCK; SLOPE	SEVERE: SLOPE
В	MEDIUM	MEDIUM	VERY LOW	MODERATE: FLOOD- ING; SLIGHT WHERE PROTECTED	MODERATE: FLOOD- ING: SLIGHT WHERE PROTECTED	SEVERE: FLOODING; SLIGHT WHERE PROTECTED
В	MEDIUM	MEDIUM	VERY LOW	SLIGHT	SLIGHT	SLIGHT

DOMINANT
SLOPE
(INTERPRETIVE
SLOPE)
(%)
2/ DEPTH TO BEDROCK OR HARDPAN (IN) 3/ MAP SYMBOL, ASSOCIATION NAME, MAJOR COMPONENTS, AND CLASSIFICATION REPRESENTATIVE PROFILE IMPORTANT FEATURES
TEXTURES PERMEABILITY 5/

MESIC ARID SOILS - SOILS WITH MEAN ANNUAL SOIL TEMPERATURES OF 47° TO 59°F (8 TO 15°C) AND 6 TO 10 INCHES (15 TO 25 CM) MEAN ANNUAL PRECIPITATION

	(15 TO 23 CM) MEAN ANNUAL PRECIPITATION							
MA1	BADLAND-TORRIORTHENTS= TORRIFLUVENTS ASSOCI- ATION (1.7%)							
	BADLAND (40%)	30-60	0-4	SHALE	DEPTH TO ROCK, SLOPE	_		
	TORRIORTHENTS (25%)							
	CLAYSPRINGS TYPIC TORRIORTHENTS, CLAYEY, MONTMORTLLONITIC (CALCAREOUS), SHALLOW	2-8	10-20	CLAY OVER CLAY SHALE	DEPTH TO ROCK	VERY SLOW		
	TORRIFLUVENTS (25%)							
	TOURS TYPIC TORRIFLUVENTS, FINE-SILTY, MIXED (CALCAREDUS)	0-2	>60	CLAY LOAM	STRATIFIED, SUBJECT TO FLOODING, SALINE	MODERATELY SLOW		
	NAVAJO TYPIC TORRIFLUVENTS, FINE, MIXED (CALCAREOUS)	0-2	>60	SILTY CLAY OVER CLAY	CLAYEY, SUBJECT TO FLOODING, SALINE	VERY SLOW		
MA2	MOENKOPIE-SHALET-TOURS ASSOCIATION (1.9%)							
	MOENKOPIE (60%) LITHIC TORRIORTHENTS, LOAMY, MIXED (CALCAREOUS)	1-15 (1-8)	5-20	SANDY LOAM OVER BEDROCK	DEPTH TO ROCK	MODERATELY RAPID		
	SHALET (15%) TYPIC TORRIORTHENTS,	2-8	4-15	CLAY LOAM OVER SHALE	DEPTH TO ROCK	SLOW		
	LOAMY, MIXED (CALCAREOUS), SHALLOW							
	TOURS (15%) TYPIC TORRIFLUVENTS, FINE-SILTY, MIXED (CALCAREOUS)	0-2	>60	CLAY LOAM	STRATIFIED, SUBJECT TO FLOODING, SALINE	MODERATELY SLOW		
MA3	SHEPPARD-FRUITLAND-ROCK OUTCROP ASSOCIATION (2.9%)							
	SHEPPARD (35%) TYPIC TORRIPSAMMENTS, MIXED	2-15 (2-8)	>60	FINE SAND OVER LOAMY FINE SAND	SANDY	RAPID		
	FRUITLAND (35%) TYPIC TORRIORTHENTS, COARSE-LOAMY, MIXED (CALCAREOUS)	2-15 (2-8)	>60	SANDY LOAM		MODERATELY RAPID		
	ROCK OUTCROP (15%)	2-60	0-4	in tide at	DEPTH TO ROCK	-		
MA4	TOURS-NAVAJO ASSOCIATION							
	TOURS (35%) TYPIC TORRIFLUVENTS, FINE-SILTY, MIXED (CALCAREOUS)	0-3	>60	CLAY LOAM	SALINE, STRATIFIED, SUBJECT TO FLOODING	MODERATELY SLOW		
	NAVAJO (35%) TYPIC TORRIFLUVENTS, FINE, MIXED (CALCAREDUS)	0-3	>60	SILTY CLAY OVER CLAY	CLAYEY, SALINE, SUBJECT TO FLOODING	VERY SLOW		
MA5	TORRIORTHENTS-TORRIFLUVENTS ASSOCIATION (0.1%)							
	TORRIORTHENTS (70%)							
	CLAYSPRINGS-LIKE TYPIC TORRIORTHENTS, CLAYEY, SHALLOW, MONTMORILLONITIC (CALCAREDUS)	0-5	10-20	CLAY OVER SHALE	DEPTH TO ROCK	VERY SLOW		
	SHALET-LIKE TYPIC TORRIORTHENTS, LOAMY, MIXED (CALCAREOUS), SHALLOW	0-5	4-15	CLAY LOAM OVER SHALE	DEPTH TO ROCK	SLOW		
	TORRIFLUVENTS (30%)							
	TOURS-LIKE TYPIC TORRIFLUVENTS, FINE-SILTY, MIXED (CALCAREOUS)	0-2	>60	CLAY LOAM	SALINE, SUBJECT TO FLOODING, STRATIFIED	SLOW		
	NAVAJO-LIKE TYPIC TORRIFLUVENTS, FINE, MIXED (CALCAREOUS)	0-2	>60	SILTY CLAY OVER CLAY	CLAYEY, SUBJECT TO FLOODING, SALINE	VERY SLOW		

SELECTED SOIL INTERPRETATIONS GENERAL DEGREE AND KIND OF LIMITATION FOR: 11/2 SURFACE TIMBER SEPTIC TANK ABSORPTION SHALLOW EXCAVATIONS BASEMENTS FIELDS 1/ 8/ 2/ 10/ 12/

D	VERY LOW	VERY LOW	VERY LOW	SEVERE: DEPTH TO ROCK; SLOPE	SEVERE: DEPTH TO ROCK; SLOPE	SEVERE: SLOPE; LOW STRENGTH
D	VERY LOW	VERY LOW	VERY LOW	SEVERE: DEPTH TO ROCK; PERMEABILITY	SEVERE: CLAY; DEPTH TO ROCK	SEVERE: SHRINK= SWELL; LOW STRENGTH
В	MEDIUM	VERY LOW	VERY LOW	SEVERE: PERME- ABILITY; FLOOD- ING	MODERATE: FLOOD- ING; CLAY LOAM	SEVERE: FLOODING; MODERATE WHERE PROTECTED; LOW STRENGTH
D	LOW	VERY LOW	VERY LOW	SEVERE: PERME- ABILITY; FLOODING	SEVERE: CLAY	SEVERE: FLOODING; LOW STRENGTH
D	VERY LOW	VERY LOW	VERY LOW	SEVERE: DEPTH TO ROCK	SEVERE: DEPTH TO ROCK	SLIGHT
D	VERY LOW	VERY LOW	VERY LOW	SEVERE: DEPTH TO ROCK	SEVERE: DEPTH TO ROCK	SLIGHT
В	MEDIUM	LOW	VERY LOW	SEVERE: PERME- ABILITY; FLOODING	MODERATE: FLOOD- ING: CLAY LOAM	SEVERE: FLOODING; MODERATE WHERE PROTECTED; LOW STRENGTH
A	VERY LOW	LOW	VERY LOW	SLIGHT	SEVERE: SAND	SLIGHT
В	VERY LOW	LOW	VERY LOW	SLIGHT	SLIGHT	SLIGHT
D	-				-	
В	MEDIUM	LOW	VERY LOW	SEVERE: PERME- ABILITY; FLOODING	MODERATE: FLOOD- ING: CLAY LOAM	SEVERE: FLOODING; MODERATE WHERE PROTECTED; LOW STRENGTH
D	LOW	LOW	VERY LOW	SEVERE: PERME- ABILITY; FLOODING	SEVERE: CLAY	SEVERE: FLOODING; LOW STRENGTH
D	VERY LOW	VERY LOW	VERY LOW	SEVERE: DEPTH TO ROCK, PERMEABILITY	RUCK; CLAT	SEVERE: SHRINK= SWELL
D	VERY LOW	LOW	VERY LOW	SEVERE: DEPTH TO ROCK; PERMEABILITY	SEVERE: DEPTH TO ROCK	MODERATE: LOW STRENGTH
В	MEDIUM	LOW	VERY LOW	SEVERE: PERME- ABILITY	MODERATE: FLOOD- ING: CLAY LOAM	SEVERE: FLOODING; MODERATE WHERE PROTECTED; LOW STRENGTH
D	LOW	LOW	VERY LOW	SEVERE: PERME- ABILITY	SEVERE: CLAY	SEVERE: FLOODING; LOW STRENGTH

SELECTED SOIL FEATURES

	YMBOL, ASSOCIATION NAME, AJOR COMPONENTS, AND	DOMINANT _SLOPE_ (INTER- PRETIVE SLOPE) (%)	DEPTH TO BEDROCK OR HARDPAN (IN)	REPRESENTATIVE PROFILE TEXTURES	IMPORTANT FEATURES	PERMEABILITY
	1/	2/	3/	4/	5/	<u>6</u> /
ма 6	FRUITLAND-CAMBORTHIDS= TORRIFLUVENTS ASSOCIATION (4.7%)					
	FRUITLAND (50%) TYPIC TORRIORTHENTS, COARSE-LOAMY, MIXED (CALCAREOUS)	2-30 (2-8)	>60	SANDY LOAM		MODERATELY RAPID
	CAMBORTHIDS (30%) TORRIFLUVENTS (15%)	2-9 (2-8)	>60	SANDY LOAM		MODERATELY RAPID
	TOURS TYPIC TORRIFLUVENTS, FINE-SILTY, MIXED (CALCAREOUS)	0-2	>60	CLAY LOAM	STRATIFIED, SUBJECT TO FLOODING, SALINE	MODERATELY SLOW
	IVES TYPIC TORRIFLUVENTS, COARSE-LOAMY, MIXED (CALCAREOUS)	0-3	>60	SANDY LOAM	STRATIFIED	MODERATELY RAPID
MESI	C SEMIARID SOILS - SOILS WITH (25 TO 41			TEMPERATURES OF 47° TO 59°F	F (8 TO 15°C) AND 10 TO 1	6 INCHES
MS1	TORTUGAS-PURNER-JACKS ASSOCIATION (0.6%)					
	TORTUGAS (45%) LITHIC HAPLUSTOLLS, LOAMY-SKELETAL, CARBONATIC	2-50 (15-50)	6-20	VERY COBBLY LOAM OVER BEDROCK	DEPTH TO ROCK, SLOPE	MODERATE
	PURNER (20%) LITHIC HAPLUSTOLLS, LOAMY, MIXED	2-8	7-18	GRAVELLY LOAM OVER BEDROCK	DEPTH TO ROCK	MODERATE .
	JACKS (20%) UDIC HAPLUSTALFS, FINE, MIXED	2-30 (8-15)	24-42	FINE SANDY LOAM OVER COBBLY CLAY OVER BEDROCK	DEPTH TO ROCK, CLAYEY, SLOPE	SLOW
MS2	WINONA-BOYSAG-ROCK OUTCROP ASSOCIATION (3.4%)					
	WINONA (60%) LITHIC TORRIORTHENTS, LOAMY-SKELETAL, CARBONATIC	2-60 (2-8)	6-20	COBBLY LOAM OVER BEDROCK	DEPTH TO ROCK, HIGH LIME	MODERATE
	BOYSAG (15%) LITHIC USTOLLIC HAPLARGIDS, CLAYEY, MIXED	1-3	10-20	FINE SANDY LOAM OVER CLAY OR COBBLY CLAY OVER BEDROCK	рертн то коск	SLOW
	ROCK OUTCROP (15%)	30-60	0-4	_	DEPTH TO ROCK	-
MS3	PALMA-CLOVIS-TRAIL ASSOCIATION (5.9%)					
	PALMA (35%) USTOLLIC HAPLARGIDS, COARSE-LOAMY, MIXED	1-15 (1-2)	>60	FINE SANDY LOAM		MODERATELY RAPID
	CLOVIS (30%) USTOLLIC HAPLARGIDS, FINE-LOAMY, MIXED	1-15 (1-2)	>60	FINE SANDY LOAM OVER SANDY CLAY LOAM	-	MODERATE
	TRAIL (20%) TYPIC TORRIFLUVENTS, SANDY, MIXED	0-5	>60	LOAMY FINE SAND	STRATIFIED, SUBJECT TO FLOODING	RAPID
MS4	RUDD-BANDERA*-CABEZON ASSOCIATION (1.7%)					
	RUDD (40%) LITHIC CALCIUSTOLLS, LOAMY-SKELETAL, MIXED	2-9 (2-8)	6-20	GRAVELLY OR COBBLY LOAM OVER BEDROCK	DEPTH TO ROCK, HIGH LIME	MODERATE
	BANDERA-LIKE (25%) TORRIORTHENTIC HAPLUSTOLLS, CINDERY	2-50 (8-15)	12-26	GRAVELLY, LOAM OVER CINDERS	DEPTH TO CINDERS	MODERATE
	CABEZON (20%) LITHIC ARGIUSTOLLS, CLAYEY, MONTMORILLONITI	2-50 (15-50)	10-20	STONY OR COBBLY LOAM OVER COBBLY CLAY OVER BEDROCK	DEPTH TO ROCK, SLOPE, STONY	SLOW
	*SIMILAR TO BANDERA SERIES, IN A WARMER TEMPERATURE ZONE					

^{*} FOOTNOTES IN FRONT AND AT END OF TABLE.

SIC	SELECTE USE POTENTIAL FOR:			ED SOIL INTERPRETAT GENERAL DE	IONS GREE AND KIND OF LIMITA	ATION FOR: 11/	
HYDROLOGIC GROUP	SURFACE IRRIGATED RANGE CROPLAND		TIMBER RODUCTION	SEPTIC TANK ABSORPTION FIELDS	SHALLOW EXCAVATIONS	DWELLINGS WITHOUT BASEMENTS	
I/	<u>8</u> /	9/	10/	12/		ж	
В	VERY LOW	LOW	VERY LOW	SLIGHT	SLIGHT	SLIGHT	
В	VERY LOW	LOW	VERY LOW	SLIGHT	SLIGHT	SLIGHT	
В	MEDIUM	LOW	VERY LOW	SEVERE: PERME- ABILITY	MODERATE: FLOOD- ING; CLAY LOAM	SEVERE: FLOODING; MODERATE WHERE PROTECTED; LOW STRENGTH	
В	MEDIUM	LOW .	VERY LOW	SLIGHT	SLIGHT	SLIGHT	
D	VERY LOW	MEDIUM	VERY LOW	SEVERE: DEPTH TO ROCK; SLOPE	SEVERE: DEPTH TO ROCK; SLOPE	SEVERE: SLOPE	
D	VERY LOW	MEDIUM	VERY LOW	SEVERE: DEPTH TO ROCK	SEVERE: DEPTH TO ROCK	SLIGHT	
С	VERY LOW	MEDIUM	LOW	SEVERE: DEPTH TO ROCK; PERME- ABILITY	SEVERE: DEPTH TO ROCK; CLAY	MODERATE: LOW STRENGTH; SLOPE	
D	VERY LOW	MEDIUM	VERY LOW	SEVERE: DEPTH TO ROCK	SEVERE: DEPTH TO	SLIGHT	
D	VERY LOW	MEDIUM	LOW	SEVERE: DEPTH TO ROCK	SEVERE: DEPTH TO ROCK	MODERATE: LOW STRENGTH	
D		-	-				
В	MEDIUM	MEDIUM	LOW	SLIGHT	SLIGHT	SLIGHT	
В	MEDIUM	MEDIUM	LOW	SLIGHT	SLIGHT	SLIGHT	
А	LOW	MEDIUM	VERY LOW	MODERATE: FLOOD- ING; SLIGHT WHERE PROTECTED		SEVERE: FLOODING; SLIGHT WHERE PROTECTED	
С	VERY LOW	MEDIUM	VERY LOW	SEVERE: DEPTH- TO ROCK	SEVERE: DEPTH TO	SLIGHT	
В	VERY LOW	MEDIUM	VERY LOW	MODERATE: SLOPE	MODERATE: SLOPE CINDERS	MODERATE: SLOPE	
D	VERY LOW	MEDIUM	VERY LOW	SEVERE: PERME- ABILITY, DEPTH T ROCK; SLOPE	SEVERE: DEPTH TO ROCK; SLOPE	SEVERE: SLOPE	

SELECTED SOIL FEATURES

				SELECTED SOIL FEAT	UKES	
MAP S	SYMBOL, ASSOCIATION NAME, MAJOR COMPONENTS, AND CLASSIFICATION	DOMINANT _SLOPE _ (INTER- PRETIVE SLOPE)	DEPTH TO BEDROCK OR HARDPAN	REPRESENTATIVE PROFILE TEXTURES	IMPORTANT FEATURES	PERMEABILITY
	1/	(%)	(IN) <u>3</u> /	4/	5/	6/
MS5	ROUNDTOP-BOYSAG ASSOCIATION					
	ROUNDTOP (60%) ARIDIC ARGIUSTOLLS, FINE, MIXED	2-30 (8-15)	20-40	GRAVELLY CLAY LOAM OVER GRAVELLY CLAY OVER BEDROCK	DEPTH TO ROCK, CLAYEY	SLOW
	BOYSAG (25%) LITHIC USTOLLIC HAPLAR- GIDS, CLAYEY, MIXED	1-15 (1-8)	10-20	FINE SANDY LOAM OVER CLAY OR COBBLY CLAY OVER BEDROCK	DEPTH TO ROCK	SLOW
MS6	LITHIC TORRIORTHENTS-LITHIC HAPLARGIDS-ROCK OUTCROP ASSOCIATION (2.0%)					MODERATE
	LITHIC TORRIORTHENTS (40%) LOAMY-SKELETAL, MIXED NONACID	5-75 (15-75)	4-20	VERY GRAVELLY SANDY LOAM OVER GRAVELLY LOAM OVER BEDROCK	DEPTH TO ROCK, SLOPE	MODERATE
	LITHIC HAPLARGIDS (25%) CLAYEY, MIXED	5-50 (8-15)	8-20	COBBLY LOAM OVER GRAVELLY CLAY LOAM OVER BEDROCK	DEPTH TO ROCK	SLOW
	ROCK DUTCROP (15%)	10-60	0-4	-	DEPTH TO ROCK	
MS7	CABEZON-THUNDERBIRD- SPRINGERVILLE ASSOCIATION (2.0%)					0.00
	CABEZON (35%) LITHIC ARGIUSTOLLS, CLAYEY, MONTMORILLONI-	2-60 (15-60)	10-20	STONY OR COBBLY LOAM OVER COBBLY CLAY OVER BEDROCK	STONY, DEPTH TO ROCK, SLOPE	SLOW
	TIC THUNDERBIRD (30%) ARIDIC ARGIUSTOLLS, FINE, MONTMORILLONITIC	0-15 (2-8)	20-40	COBBLY CLAY LOAM OVER CLAY OVER BEDROCK	DEPTH TO ROCK, SHRINK-SWELL, CLAYEY	SLOW
	SPRINGERVILLE (15%) TYPIC CHROMUSTERTS, FINE, MONTMORILLONITIC	0-5	30-60	STONY SILTY CLAY OVER SILTY CLAY OVER BEDROCK	CLAYEY, SHRINK-SWELL, STONY	VERY SLOW
MS8	PASTURA-POLEY-PARTRI ASSOCIATION (1.2%)					MODERATE
	PASTURA (35%) USTOLLIC PALEORTHIDS, LOAMY, MIXED, SHALLOW	0-15 (2-8)	7-20	LOAM OR GRAVELLY LOAM OVER HARDPAN	DEPTH TO PAN, HIGH LIME	
	POLEY (35%) USTOLLIC HAPLARGIDS, FINE, MIXED	0-9 (2-8)	>60	GRAVELLY SANDY LOAM OVER SANDY CLAY LOAM OR CLAY OVER COBBLE	CLAYEY, COBBLY AT MODERATE DEPTHS	SLOW
	PARTRI (25%) ARIDIC ARGIUSTOLLS, FINE, MIXED	1-5 (2-5)	>60	LOAM OVER CLAY LOAM OVER CLAY AND GRAVELLY CLAY LOAM	CLAYEY	SLOW
MS!	9 <u>LONTI-BALON-LYNX ASSOCI</u> - <u>ATION</u> (0.4%)					SLOW
	LONTI (60%) USTOLLIC HAPLARGIDS, FINE, MIXED	1-40 (2-8)	>60	GRAVELLY SANDY LOAM OVER GRAVELLY CLAY	CLAYEY	
	BALON (15%) USTOLLIC HAPLARGIDS FINE-LOAMY, MIXED	5-30 (8-15)	>60	GRAVELLY SANDY CLAY LOAM OVER GRAVELLY SANDY LOAM	GRAVELLY	MODERATELY SLOW
	LYNX (15%) CUMULIC HAPLUSTOLLS, FINE-LUAMY, MIXED	0-3	>60	LOAM AND CLAY LOAM OVER CLAY LOAM	SUBJECT TO FLOODING	MODERATELY SLOW
MS	10 PASTURA-ABRA-LYNX ASSOCI- ATION (0.3%)					MODERATE
	PASTURA (35%) USTOLLIC PALEORTHIDS, LOAMY, MIXED, SHALLOW	0-15 (8-15)		LOAM OR GRAVELLY LOAM OVER HARDPAN	DEPTH TO PAN, HIGH LIME	
	ABRA (35%) USTOLLIC CALCIORTHIDS, FINE-LOAMY, MIXED	1-15	>60	LOAM	HIGH LIME	MODERATE
	LYNX (20%)	0-3	>60	LOAM AND CLAY LOAM OVER	SUBJECT TO FLOODING	MODERATELY SLOW

010	USE	POTENTIAL		TED SOIL INTERPRETATI GENERAL DEG	ONS REE AND KIND OF LIMITA	ATION FOR: 11/	
HYDROLOGIC GROUP	SURFACE IRRIGATED CROPLAND	RANGE	TIMBER PRODUCTION	SEPTIC TANK ABSORPTION FIELDS	SHALLOW EXCAVATIONS	DWELLINGS WITHOUT BASEMENTS	
7/	8/	9/	10/	12/			
	-						
С	VERY LOW	MEDIUM	MEDIUM	SEVERE: PERME- ABILITY; DEPTH TO ROCK	SEVERE: DEPTH TO ROCK; CLAY	SEVERE: LOW STRENGTH	
D	VERY LOW	MEDIUM	LOW	SEVERE: DEPTH TO ROCK; PERME- ABILITY	SEVERE: DEPTH TO ROCK	MODERATE: LOW STRENGTH	
D	VERY LOW	MEDIUM	LOW	SEVERE: DEPTH TO ROCK	SEVERE: DEPTH TO ROCK	SEVERE: SLOPE	
D	VERY LOW	MEDIUM	LOW	SEVERE: DEPTH TO ROCK; PERMEABILITY	SEVERE: DEPTH TO ROCK	MODERATE: LOW STRENGTH; SLOPE	
D			1.1	-			
D	VERY LOW	MEDIUM	LOW	SEVERE: PERME- ABILITY; DEPTH TO ROCK; SLOPE	SEVERE: DEPTH TO ROCK; CLAY; SLOPE	SEVERE: SLOPE	
D	VERY LOW	MEDIUM	LOW	SEVERE: PERME- ABILITY	SEVERE: DEPTH TO ROCK: CLAY	SEVERE: SHRINK= SWELL	
D	VERY LOW	MEDIUM	LOW	SEVERE: PERME- ABILITY	SEVERE: DEPTH TO ROCK; CLAY	SEVERE: STONY; SHRINK-SWELL	
						•	
D	VERY LOW	MEDIUM	LOW	SEVERE: DEPTH TO PAN	SEVERE: DEPTH TO PAN	SLIGHT	
С	VERY LOW	MEDIUM	LOW	SLIGHT	SEVERE: COBBLY	MODERATE: LOW STRENGTH	
С	VERY LOW	MEDIUM	LOW	SEVERE: PERME- ABILITY	SEVERE: CLAY	MODERATE: LOW STRENGTH	
С	VERY LOW	MEDIUM	LOW	SEVERE: PERME- ABILITY	SEVERE: CLAY; GRAVELLY	MODERATE: LOW STRENGTH	
В	VERY LOW	MEDIUM	VERY LOW	SEVERE: PERME- ABILITY	MODERATE: SLOPE; GRAVELLY	MODERATE: SLOPE	
В	HIGH	HIGH	VERY LOW	SEVERE: FLOOD- ING; PERMEABILITY	MODERATE: FLOOD- ING; CLAY LOAM	SEVERE: FLOODING; MODERATE WHERE PRO- TECTED; LOW STRENGTH	
D	VERY LOW	MEDIUM	LOW	SEVERE: DEPTH TO PAN	SEVERE: DEPTH TO PAN	MODERATE: SLOPE	
С	VERY LOW	MEDIUM	VERY LOW	SLIGHT	SLIGHT	MODERATE: LOW STRENGTH	
В	HIGH	HIGH	VERY LOW	SEVERE: FLOOD- ING; PERME- ABILITY	MODERATE: FLOOD- ING; CLAY LOAM	SEVERE: FLOODING; MODERATE WHERE PRO- TECTED; LOW STRENGTH	

DOMINANT
SLOPE
(INTERPRETIVE
SLOPE)
(%)
2/ SELECTED SOIL FEATON
TO
BEDROCK REPRESENTATIVE PROFILE
OR TEXTURES
HARDPAN
(IN)
3/ 4/ MAP SYMBOL, ASSOCIATION NAME, MAJOR COMPONENTS, AND CLASSIFICATION IMPORTANT FEATURES PERMEABILITY

MESIC SUBHUMID SOILS - SOILS WITH MEAN ANNUAL SOIL TEMPERATURES OF 47° TO 59°F (8 TO 15°C) AND MORE THAN 16 INCHES (41 CM) MEAN ANNUAL PRECIPITATION

	(41 CM) MEA	N ANNUAL I	PRECIPITA	TION		
мн1	CASTO-MARTINEZ-CANELO ASSOICATION (0.1%)					
	CASTO (60%) UDIC HAPLUSTALFS, LOAMY-SKELETAL, MIXED	8-40 (15-40)	>60	VERY GRAVELLY SANDY LOAM OVER VERY GRAVELLY SANDY CLAY LOAM	GRAVELLY, SLOPE	SLOW
	MARTINEZ (20%) UDIC PALEUSTALFS, VERY FINE, KAOLINITIC	0-3	>60	GRAVELLY LOAM OVER CLAY	CLAYEY	VERY SLOW
	CANELO (15%) AQUIC HAPLUSTALFS, CLAYEY-SKELETAL, MIXED	1-50 (15-40)	>60	GRAVELLY SANDY LOAM OVER VERY GRAVELLY CLAY	SOMEWHAT POORLY DRAINED, GRAVELLY, CLAYEY, SLOPE	VERY SLOW
мн2	LITHIC HAPLUSTOLLS-LITHIC ARGIUSTOLLS-ROCK OUTCROP ASSOCIATION (3.9%)					
	LITHIC HAPLUSTOLLS (50%)					
	FARAWAY LITHIC HAPLUSTOLLS, LOAMY-SKELETAL, MIXED	5-75 (15-75)	5-20	VERY GRAVELLY LOAM OVER BEDROCK	DEPTH TO ROCK, SLOPE	MODERATE
	LITHIC ARGIUSTOLLS (20%)					
	LUZENA LITHIC ARGIUSTOLLS, CLAYEY, MIXED	2-75 (15-75)	7-20	COBBLY LOAM OVER COBBLY CLAY OVER BEDROCK	GRAVELLY, COBBLY, DEPTH TO ROCK, SLOPE	SLOW
	ROCK DUTCROP (15%)	2-75	0-4		DEPTH TO ROCK	-
мнз	SHOWLOW-DISTERHEFF-CIBEQUE ASSOCIATION (0.8%)					
	SHOWLOW (35%) ARIDIC ARGIUSTOLLS, FINE, MONTMORILLONITIC	2-20 (8-15)	>60	GRAVELLY LOAM OVER CLAY OVER GRAVELLY SANDY CLAY LOAM	CLAYEY, SHRINK-SWELL	SLOW
	DISTERHEFF (35%) TYPIC HAPLUSTALFS, FINE, MONTMORILLONITIC	1-30 (8-15)	>60	COBBLY SANDY CLAY LOAM OVER CLAY	CLAYEY, SHRINK-SWELL	SLOW
	CIBEQUE (20%) USTOLLIC CALCIORTHIDS, FINE-LOAMY, MIXED	8-30 (8-15)	>60	GRAVELLY LOAM	HIGH LIME, GRAVELLY	MODERATE
мн4	ROUNDTOP-TORTUGAS-JACKS ASSOCIATION (1.4%)					
	ROUNDTOP (35%) ARIDIC ARGIUSTOLLS, FINE, MIXED	2-30 (8-15)	20-40	GRAVELLY CLAY LOAM OVER GRAVELLY CLAY OVER BEDROCK	CLAYEY, DEPTH TO ROCK	SLOW
	TORTUGAS (35%) LITHIC HAPLUSTOLLS, LOAMY-SKELETAL, CARBONATIC	2-75 (15-75)	6-20	VERY COBBLY LOAM OVER BEDROCK	DEPTH TO ROCK, SLOPE	MODERATE
	JACKS (15%) UDIC HAPLUSTALFS, FINE MIXED	2-30 (8-15)	24-42	FINE SANDY LOAM OVER COBBLY CLAY OVER BEDROCK	DEPTH TO ROCK, CLAYEY	SLOW
MH5	OVERGAARD-ELLEDGE-TELEPHONE ASSOCIATION (0.6%)					
	OVERGAARD (35%) TYPIC HAPLUSTALFS, FINE, MIXED	2-50 (15-50)	>60	GRAVELLY LOAM OVER GRAVELLY CLAY	GRAVELLY, CLAYEY	SLOW
	ELLEDGE (30%) UDIC HAPLUSTALFS, FINE, MIXED	2-20 (8-15)	20-40	COBBLY SANDY LOAM OVER COBBLY CLAY OVER BEDROCK	COBBLY, DEPTH TO ROCK, CLAYEY	SLOW
	TELEPHONE (25%) LITHIC USTORTHENTS, LOAMY-SKELETAL, MIXED, NONACID	15-75	8-20	VERY COBBLY SANDY LOAM OVER BEDROCK	COBBLY, DEPTH TO ROCK	MODERATELY RAPID
мн6	PACHIC ARGIUSTOLLS-LYNX ASSOCIATION (0.1%)					
	SHOWLOW-LIKE (55%) PACHIC ARGIUSTOLLS, FINE, MONTMORILLONITIC	2-8	>60	GRAVELLY LOAM OVER CLAY OVER GRAVELLY SANDY CLAY LOAM	CLAYEY, SHRINK-SWELL	SLOW
	LYNX (30%) CUMULIC HAPLUSTOLLS, FINE-LOAMY, MIXED	0-2	>60	LOAM AND CLAY LOAM OVER CLAY LOAM	SUBJECT TO FLOODING	MODERATELY SLOW

0610	USE	POTENTIAL		TED SOIL INTERPRETATI GENERAL DEG	ONS REE AND KIND OF LIMITA	TION FOR: 11/
HYDROLOGIC GROUP	SURFACE IRRIGATED CROPLAND	RANGE	TIMBER PRODUCTION	SEPTIC TANK ABSORPTION FIELDS	SHALLOW EXCAVATIONS	DWELLINGS WITHOUT BASEMENTS
7/	<u>8</u> /	9/	10/	12/		
С	VERY LOW	MEDIUM	LOW	SEVERE: PERME- ABILITY; SLOPE	SEVERE: GRAVELLY; SLOPE	SEVERE: SLOPE
D	. LOW	HIGH	VERY LOW	SEVERE: PERME- ABILITY	SEVERE: CLAY	SEVERE: LOW STRENGTH
D	VERY LOW	MEDIUM	LOW	SEVERE: PERME- ABILITY; SLOPE	SEVERE: GRAVELLY; CLAY; SLOPE	SEVERE: SOMEWHAT POORLY DRAINED; SLOPE; LOW STRENGTH
D	VERY LOW	MEDIUM	LOW	SEVERE: DEPTH TO ROCK; SLOPE	SEVERE: DEPTH TO ROCK; SLOPE	SEVERE: SLOPE
D	VERY LOW	HIGH	LOW	SEVERE: DEPTH TO ROCK; SLOPE;	SEVERE: DEPTH TO ROCK; COBBLY;	SEVERE: SLOPE
				PERMEABILITY	SLOPE	
D			-	-	= ,,	-
D	VERY LOW	HIGH	MEDIUM	SEVERE: PERME- ABILITY	SEVERE: CLAY; COBBLY	SEVERE: SHRINK= SWELL
D	VERY LOW	HIGH	MEDIUM	SEVERE: PERME- ABILITY	SEVERE: CLAY; COBBLY	SEVERE: SHRINK-SWELL
В	VERY LOW	HIGH	LOW	MODERATE: SLOPE	MODERATE: SLOPE; GRAVELLY	MODERATE: SLOPE
С	VERY LOW	HIGH	LOW	SEVERE: PERME- ABILITY; DEPTH TO ROCK	SEVERE: DEPTH TO ROCK; CLAY; GRAVELLY	SEVERE: LOW STRENGTH
D	VERY LOW	MEDIUM	LOW	SEVERE: DEPTH TO ROCK; SLOPE	SEVERE: DEPTH TO ROCK; SLOPE	SEVERE: SLOPE
С	VERY LOW	HIGH	HIGH	SEVERE: DEPTH TO ROCK; PERMEABILITY	SEVERE: DEPTH TO ROCK; CLAY	SEVERE: LOW STRENGTH
С	VERY LOW	LOW	нісн	SEVERE: PERME- ABILITY; SLOPE	SEVERE: CLAY; GRAVELLY; SLOPE	SEVERE: SLOPE
С	VERY LOW	LOW	MEDIUM	SEVERE: DEPTH TO ROCK; PERMEABILITY	SEVERE: DEPTH TO ROCK; COBBLY	MODERATE: SLOPE; LOW STRENGTH
D	VERY LOW	LOW	MEDIUM	SEVERE: DEPTH TO ROCK; SLOPE	SEVERE: DEPTH TO ROCK; SLOPE	SEVERE: SLOPE
С	VERY LOW	HIGH	VERY LOW	SEVERE: PERME- ABILITY	SEVERE: CLAY	SEVERE: SHRINK-SWELL

SEVERE: FLOODING; PERMEABILITY

В

MEDIUM

HIGH

VERY LOW

MODERATE: FLOOD-ING; CLAY LOAM SEVERE: FLOODING; MODERATE WHERE PRO-TECTED; LOW STRENGTH

			SELECTED SUIL FEAT	UNES	
MAP SYMBOL, ASSOCIATION NAME, MAJOR COMPONENTS, AND CLASSIFICATION	DOMINANT _SLOPE_ (INTER- PRETIVE SLOPE)	DEPTH TO BEDROCK OR HARDPAN	REPRESENTATIVE PROFILE TEXTURES	IMPORTANT FEATURES	PERMEABILITY
1/	(%)	(IN) 3/	4/	5/	6/

FRIGID SUBHUMID SOILS - SOILS WITH MEAN ANNUAL SOIL TEMPERATURES OF LESS THAN 47°F (8°C) AND MORE THAN 16 INCHES
(41 CM) MEAN ANNUAL PRECIPITATION

	(41 CM) M	EAN ANNUAL	PRECIPI	TATION		
FH1	MIRABAL-DANDREA-BROLLIAR ASSOCIATION (0.1%)					
	MIRABAL (50%) TYPIC USTORTHENTS, LOAMY-SKELETAL, MIXED, NONACID	5-75 (15-75)	20-35	COBBLY SANDY LOAM OVER BEDROCK	COBBLY, DEPTH TO ROCK, SLOPE	MODERATELY RAPID
	DANDREA (25%) MOLLIC EUTROBORALFS, FINE, MONTMORILLONITIC	5-50 (15-50)	20-40	GRAVELLY LOAM OVER GRAVELLY CLAY OVER BEDROCK	GRAVELLY, DEPTH TO ROCK, SHRINK-SWELL, SLOPE	SLOW
	BROLLIAR (10%) TYPIC ARGIBOROLLS FINE, MONTMORILLONITIC	1 – 1 0	24-60	STONY LOAM OVER CLAY OVER BEDROCK	STONY, DEPTH TO ROCK, SHRINK-SWELL, CLAYEY	SLOW
FH2	SPONSELLER-ESS-GORDO ASSOCIATION (4.2%)					
	SPONSELLER (25%) TYPIC ARGIBOROLLS, FINE-LOAMY, MIXED	3-40	24-60	GRAVELLY LOAM OVER COBBLY CLAY LOAM OVER CINDERS AND BEDROCK	DEPTH TO ROCK, GRAV- ELLY, COBBLY, CINDERS, SLOPE	MODERATELY SLOW
	ESS (25%) TYPIC ARGIBOROLLS, LOAMY-SKELETAL, MIXED	8-50 (15-50)	>60	COBBLY LOAM AND COBBLY SILT LOAM OVER VERY COBBLY CLAY LOAM	COBBLY, GRAVELLY, SLOPE	MODERATE
	GORDO (25%) ARGIC PACHIC CRYO- BOROLLS, FINE-LOAMY, MIXED	5-15 (8-15)	30-60	SILT LOAM OVER GRAV- ELLY LOAM OVER FRAG- MENTAL BEDROCK	GRAVELLY, COBBLY, STONY	MODERATE
FH3	SOLDIER-HOGG-MCVICKERS ASSOCIATION (0.7%)					
	SOLDIER (55%) TYPIC GLOSSOBORALFS, FINE, MIXED	2-20 (8-15)	>60	COBBLY OR GRAVELLY LOAM OVER COBBLY CLAY AND CLAY	GRAVELLY, COBBLY, CLAYEY	VERY SLOW
	HOGG (20%) MOLLIC EUTROBORALFS, FINE, MONTMORILLONITIC	2-10 (2-8)	25-60	SANDY LOAM OVER CLAY OVER BEDROCK	COBBLY, GRAVELLY, DEPTH TO ROCK, SHRINK-SWELL	SLOW
	MCVICKERS (15%) TYPIC EUTROBORALFS, FINE, MONTMORILLONITIC	2-5	30-54	VERY FINE SANDY LOAM OVER CLAY OVER BEDROCK	DEPTH TO ROCK, SHRINK-SWELL	SLOW
FH4	SOLDIER-LITHIC CRYOBOROLLS ASSOCIATION (0.7%)					
	SOLDIER (65%) TYPIC GLOSSOBORALFS, FINE, MIXED	2-20 (8-15)	>60	COBBLY OR GRAVELLY LOAM OVER COBBLY CLAY AND CLAY	GRAVELLY, COBBLY, CLAYEY	VERY SLOW
	LITHIC CRYOBOROLLS (15%)	5-30 (15-30)	4-20	GRAVELLY LOAM OVER COBBLY LOAM OVER BEDROCK	DEPTH TO ROCK	MODERATE
FH5	MIRABAL-BALDY-ROCK OUTCROP ASSOCIATION (0.3%)					
	MIRABAL (30%) TYPIC USTORTHENTS, LOAMY-SKELETAL, MIXED, NONACID	5-75 (15-75)	20-35	COBBLY SANDY LOAM OVER BEDROCK	COBBLY, DEPTH TO ROCK, SLOPE	MODERATELY RAPID
	BALDY (30%) TYPIC CRYORTHENTS, COARSE-LOAMY, MIXED, NONACID	15-75	>60	COBBLY FINE SANDY LOAM OVER GRAVELLY AND COBBLY SANDY LOAM	COBBLY, GRAVELLY, SLOPE	MODERATELY RAPID
	ROCK OUTCROP (20%)	5-60	0-4		DEPTH TO ROCK	
FH6	EUTROBORALFS-MIRABAL ASSOCIATION (0.2%)					
	OVERGAARD-LIKE (60%) TYPIC EUTROBORALFS, FINE, MIXED	2-50 (15-50)	>60	GRAVELLY LOAM OVER GRAVELLY CLAY	GRAVELLY, CLAYEY, SLOPE	SLOW
	MIRABAL (30%) TYPIC USTORTHENTS, LOAMY-SKELETAL, MIXED, NONACID	5-75 (15-75)	20-35	COBBLY SANDY LOAM OVER BEDROCK	COBBLY, DEPTH TO ROCK, SLOPE	MODERATELY RAPID
FH7	CRYORTHENTS-EUTROBORALFS ASSOCIATION (0.6%)					
	CRYDRTHENTS (40%)	2-50 (15-50)	10-30	GRAVELLY LOAM OVER CLAY LOAM OVER BED- ROCK	DEPTH TO ROCK, SLOPE	MODERATELY SLOW
	EUTROBORALFS (40%)	2-9	20-50	SANDY LOAM OVER CLAY OVER BEDRÖCK	DEPTH TO ROCK, CLAYEY	SLOW
FH8	GORDO-TATIYEE ASSOCIATION (0.1%)					
	GORDO (45%) ARGIC PACHIC CRYD- BOROLLS, FINE-LOAMY, MIXED	2-15 (2-8)	30-60	SILT LOAM OVER GRAV- ELLY LOAM OVER FRACTURED BEDROCK	GRAVELLY, COBBLY, STONY	MODERATE
	TATIYEE (40%) ARGIC CRYOBOROLLS, CLAYEY-SKELETAL, MONTMORILLONITIC	1-8	>60	GRAVELLY LOAM OVER VERY GRAVELLY CLAY	GRAVELLY, SHRINK= SWELL, CLAYEY	SLOW

HYDROLOGIC GROUP	SURFACE	E POTENTIA	SEL L FOR: TIMBER	ECTED SOIL INTERPRETAT GENERAL DE SEPTIC TANK	GREE AND KIND OF LIMITATION FOR: 11/	
HYDRI GR(IRRIGATED CROPLAND	RANGE	PRODUCTION	ABSORPTION FIELDS	SHALLOW EXCAVATIONS	DWELLINGS WITHOUT BASEMENTS
7/	8/	9/	10/	12/		
С	VERY LOW	LOW	MEDIUM	SEVERE: DEPTH TO ROCK	SEVERE: DEPTH TO ROCK	SEVERE: SLOPE
С	VERY LOW	LOW	НІБН	SEVERE: PERME- ABILITY; SLOPE; DEPTH TO ROCK	SEVERE: GRAVELLY: DEPTH TO ROCK	SEVERE: SHRINK-SWELL SLOPE
D	VERY LOW	LOW	MEDIUM	SEVERE: PERME- ABILITY; DEPTH TO ROCK	SEVERE: STONY; CLAY; DEPTH TO ROCK	SEVERE: SHRINK-SWELL; SLOPE
В	VERY LOW	LOW	HIGH	SEVERE: SLOPE; PERMEABILITY	SEVERE: GRAVELLY; COBBLY; SLOPE	SEVERE: SLOPE
В	VERY LOW	LOW	HIGH	SEVERE: SLOPE	SEVERE: GRAVELLY; COBBLY; SLOPE	SEVERE: SLOPE
В	VERY LOW	LOW	НІСН	MODERATE: SLOPE	SEVERE: GRAVELLY; COBBLY; STONY	MODERATE: SLOPE
D	VERY LOW	LOW	HIGH	SEVERE: PERME- ABILITY	SEVERE: CLAY; GRAVELLY; COBBLY	MODERATE: LOW STRENGTH; SLOPE
С	VERY LOW	LOW	HIGH	SEVERE: PERME- ABILITY; DEPTH TO ROCK	SEVERE: CLAY; COBBLY; GRAVELLY	SEVERE: SHRINK-SWELL
)	VERY LOW	LOW	HIGH	SEVERE: PERME- ABILITY; DEPTH TO ROCK	SEVERE: CLAY; DEPTH TO ROCK	SEVERE: SHRINK-SWELL
)	VERY LOW	LOW	HIGH	SEVERE: PERME- ABILITY	SEVERE: CLAY; GRAVELLY; COBBLY	MODERATE: SLOPE; LOW STRENGTH
	VERY LOW	LOW	MEDIUM	SEVERE: DEPTH TO ROCK	SEVERE: DEPTH TO ROCK	SEVERE: SLOPE
	VERY LOW	LOW	MEDIUM	SEVERE: DEPTH TO ROCK	SEVERE: DEPTH TO ROCK	SEVERE: SLOPE
	VERY LOW	LOW	HIGH	SEVERE: SLOPE	SEVERE: SLOPE; GRAVELLY; COBBLY	SEVERE: SLOPE
		:=:	-	-	-	
	VERY LOW	LOW	HIGH	SEVERE: PERME- ABILITY; SLOPE	SEVERE: CLAY: GRAVELLY: SLOPE	SEVERE: SLOPE; LOW STRENGTH
	VERY LOW	LOW	MEDIUM	SEVERE: DEPTH TO ROCK; COBBLY; SLOPE	SEVERE: DEPTH TO ROCK; COBBLY; SLOPE	SEVERE: SLOPE
	VERY LOW	LOW	HIGH	SEVERE: DEPTH TO ROCK; PERME- ABILITY; SLOPE	SEVERE: DEPTH TO ROCK; SLOPE	SEVERE: SLOPE
	VERY LOW	LOW	HIGH	SEVERE: PERME- ABILITY; DEPTH TO ROCK	SEVERE: CLAY; DEPTH TO ROCK	SEVERE: SHRINK-SWELL
	VERY LOW	HIGH	HIGH	SLIGHT	SEVERE: GRAVELLY; COBBLY	SLIGHT
	VERY LOW	HIGH	VERY LOW	SEVERE: PERME- ABILITY	SEVERE: GRAVELLY	MODERATE: SHRINK= SWELL

F 0 0 T N 0 T E S

- ${f extstyle L}$ PERCENT ASSOCIATION IS OF STATE TOTAL AND PERCENT COMPONENTS ARE OF ASSOCIATION TOTAL.
- INTERPRETIVE SLOPE IS THE RANGE OF SOIL SLOPE ON WHICH INTERPRETATIONS ARE BASED.
- DEPTHS ARE THOSE FOR EACH NAMED SOIL AS DEFINED FOR THE SERIES. DEPTHS OUTSIDE THESE LIMITS MAY BE PRESENT IN INCLUDED SOILS.
- GENERAL PROFILE TEXTURES BASED ON DEFINED CHARACTERISTICS OF SOIL.
- FEATURES LISTED ARE THOSE THAT HAVE A MAJOR INFLUENCE ON SOIL USE AND MANAGEMENT. 5/
- PERMEABILITY IS THE QUALITY OF A SOIL THAT ENABLES WATER OR AIR TO MOVE THROUGH IT. PERMEABILITY CLASS IS DETERMINED BY THE PERMEABILITY OF THE SLOWEST LAYER IN THE SOIL PROFILE.

RATE IN IN/HR

VERY SLOW	<.06	MODERATELY RAPID	2-6
SLOW	.062	RAPID	6-20
MODERATELY SLOW	.26	VERY RAPID	>20
MODERATE	.6-2.0		

- Y HYDROLOGIC SOIL GROUPS

 - A LOW RUNOFF POTENTIAL
 B MODERATELY LOW RUNOFF POTENTIAL
 C MODERATELY HIGH RUNOFF POTENTIAL
 D HIGH RUNOFF POTENTIAL
- 12/ THE ASSIGNED RATINGS SHOW THE POTENTIAL FOR SURFACE IRRIGATION FOR FIELD CROP PRODUCTION. SLOPE AND OTHER SOIL PROPERTIES SUCH AS AVAILABLE WATER CAPACITY, PERMEABILITY, AND SALT CONTENT, ARE REFLECTED IN THIS RATING. POTENTIAL FOR OTHER IRRIGATION METHODS WILL NEED TO BE EVALUATED.
- FOUR-PART RATING (HIGH, MEDIUM, LOW AND VERY LOW) REFLECTING RESPONSE TO KINDS OF MANAGEMENT APPLIED.
- 10/ THE ASSIGNED RATING SHOWS THE POTENTIAL OF THE SOILS FOR PONDEROSA PINE TIMBER PRODUCTION. A
 SOIL THAT IS HIGH HAS A SITE INDEX OF >75, MEDIUM HAS 55-74, LOW HAS <54, AND VERY LOW IS BASICALLY UNSUITED FOR TIMBER PRODUCTION. SITE INDEX IS DEFINED AS AN EXPRESSION OF THE HEIGHT-AGE
 RELATIONSHIP OF THE TALLEST TREES IN NORMAL STANDS AT SOME DESIGNATED AGE.
- RATINGS BASED ON USDA-SCS GUIDE FOR INTERPRETING ENGINEERING USES OF SOILS, NOVEMBER 1971.

 EXCEPTION DEPTH TO BEDROCK OR HARDPAN NOT CONSIDERED A LIMITATION FOR DWELLINGS WHERE SLAB FOUNDATIONS ARE USED.
- 12/ REFER TO ENGINEERING BULLETIN NO. 12 ARIZONA STATE DEPARTMENT OF HEALTH SERVICES, FOR GUIDELINES FOR INSTALLING SEPTIC TANK SYSTEMS.