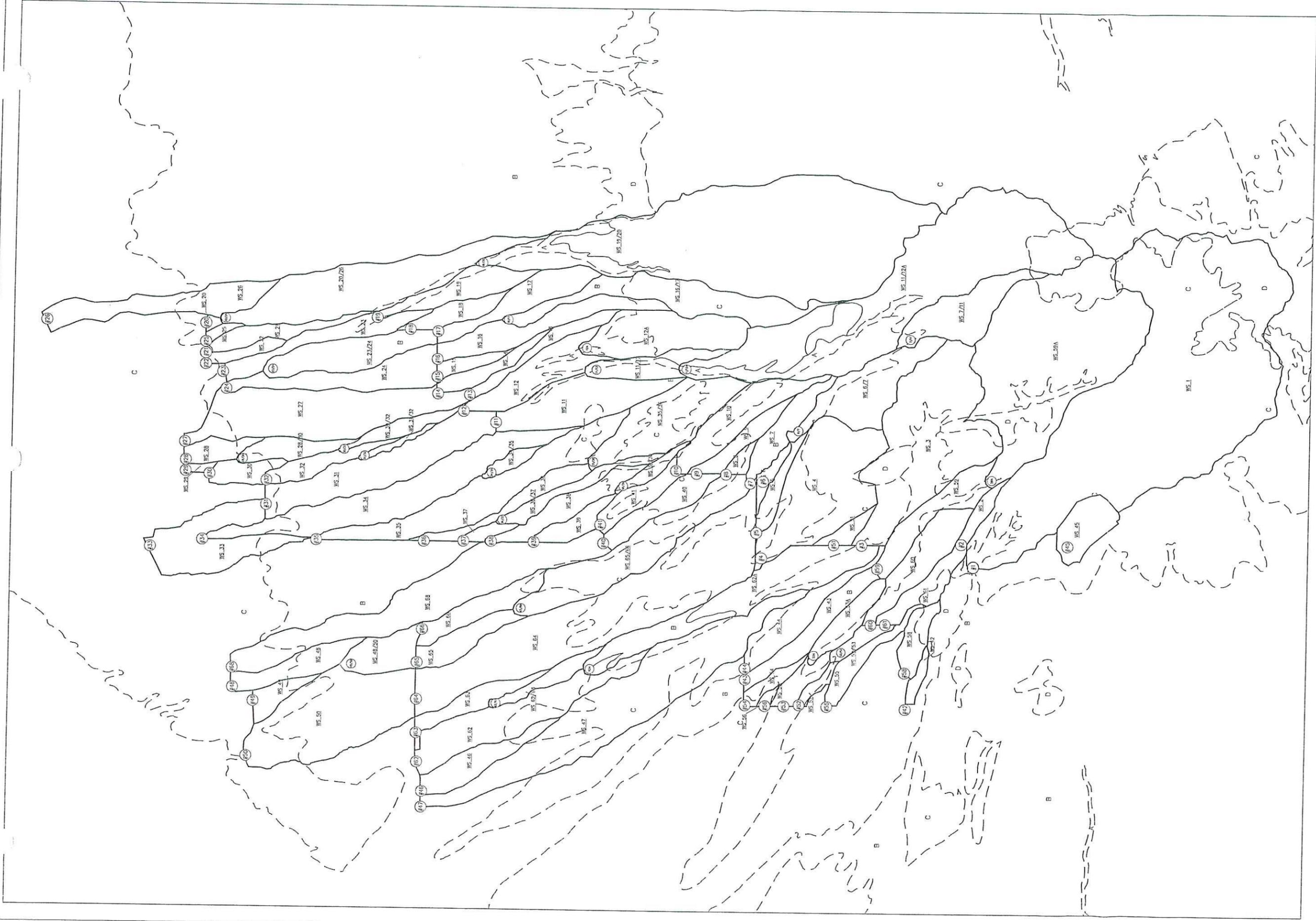


**NRCS SOIL SURVEY**



NOT TO SCALE

- LEGEND**
- WATERSHED BOUNDARY
  - WS\_1 WATERSHED ID
  - (#2) CONCENTRATION POINT (POINT OF INTEREST)
  - (#4) CONCENTRATION POINT (SPLIT FLOW)
  - (#6) CONCENTRATION POINT (SUB-WATERSHED)
  - NRCS SOIL BOUNDARY
  - NRCS SOIL ID

# PSOMAS

800 E. Welmore Road, Suite 110  
 Tucson, AZ 85719  
 (520) 292-2300 (520) 292-1290 fax  
 www.psomar.com

NRCS SOILS MAP  
 FOR  
**DIAMOND BELL**

SOIL 669  
COT/Pima County

Map Unit Legend

Pima County, Arizona, Eastern Part

Map symbol	Map unit name
1	ALTAR-SASABE COMPLEX, 1 TO 8 PERCENT SLOPES 70% B, 30% C
2	ANKLAM-CELLAR-ROCK OUTCROP COMPLEX, 15 TO 55 PERCENT SLOPES
3	ANTHONY FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES - A <sub>1</sub> , 100% B
4	ARIVACA VERY COBBLY LOAM, 2 TO 15 PERCENT SLOPES
5	ARIZO-RIVERWASH COMPLEX, 0 TO 3 PERCENT SLOPES 100% A
6	BERNARDINO-TOMBSTONE ASSOCIATION, 5 TO 16 PERCENT SLOPES 50% C, 50% B
7	BERNARDINO-WHITE HOUSE COMPLEX, 1 TO 15 PERCENT SLOPES 100% C
8	BUCKLEBAR-SAHUARITA COMPLEX, 0 TO 3 PERCENT SLOPES
9	CARALAMPI VERY GRAVELLY SANDY LOAM, 5 TO 15 PERCENT SLOPES 100% B
10	CARALAMPI EXTREMELY GRAVELLY SANDY LOAM, 15 TO 45 PERCENT SLOPES
11	CAVE SOILS AND URBAN LAND, 0 TO 8 PERCENT SLOPES 100% D
12	CELLAR-LAMPSHIRE-ROCK OUTCROP COMPLEX, 15 TO 60 PERCENT SLOPES
13	CELLAR-LEHMANS COMPLEX, 5 TO 25 PERCENT SLOPES
14	CELLAR-ROCK OUTCROP COMPLEX, 30 TO 65 PERCENT SLOPES 100% D
15	CHIMENEA-CELLAR-ROCK OUTCROP COMPLEX, 15 TO 50 PERCENT SLOPES 100% D
16	CHIMENEA VERY GRAVELLY FINE SANDY LOAM, 5 TO 15 PERCENT SLOPES 100% D
17	CHIRICAHUA-LAMPSHIRE COMPLEX, 5 TO 15 PERCENT SLOPES 100% D
18	COMBATE GRAVELLY LOAMY COARSE SAND, 2 TO 8 PERCENT SLOPES 100% B
19	COMORO SANDY LOAM, 0 TO 2 PERCENT SLOPES
20	CORTARO-ROCK OUTCROP-FARAWAY COMPLEX, 15 TO 45 PERCENT SLOPES
21	DATELAND-DENURE ASSOCIATION, 1 TO 3 PERCENT SLOPES
22	DELNORTE-STAGECOACH COMPLEX, 1 TO 20 PERCENT SLOPES
23	DELORO-ANDRADA COMPLEX, 5 TO 35 PERCENT SLOPES 100% D
24	DELORO-ROCK OUTCROP COMPLEX, 15 TO 60 PERCENT SLOPES 100% D
25	DELORO-SHRAP ASSOCIATION, 1 TO 8 PERCENT SLOPES - 100% D
26	DENURE GRAVELLY SANDY LOAM, 1 TO 5 PERCENT SLOPES 100% B
27	DIASPAR SANDY LOAM, 1 TO 5 PERCENT SLOPES 100% B
28	FAR-SPUDROCK-ROCK OUTCROP COMPLEX, 35 TO 85 PERCENT SLOPES
29	GLENDALE-BUCKLEBAR COMPLEX, 0 TO 3 PERCENT SLOPES
30	GLENDALE SILT LOAM, 0 TO 3 PERCENT SLOPES 100% B
31	GRAHAM-PANTAK COMPLEX, 2 TO 15 PERCENT SLOPES
32	GRAHAM-PANTAK-ROCK OUTCROP COMPLEX, 15 TO 45 PERCENT SLOPES
33	GUEST FINE SANDY LOAM, 0 TO 1 PERCENT SLOPES
34	HANTZ LOAM, 0 TO 1 PERCENT SLOPES 100% D
35	HAYHOOK SANDY LOAM, 1 TO 5 PERCENT SLOPES 100% B
36	HAYHOOK-SAHUARITA COMPLEX, 1 TO 5 PERCENT SLOPES 100% B
37	KEYSTO EXTREMELY GRAVELLY FINE SANDY LOAM, 2 TO 8 PERCENT SLOPES
38	LAJITAS-DELTHORNY-ROCK OUTCROP COMPLEX, 25 TO 60 PERCENT SLOPES
39	LAMPSHIRE-PANTAK-ROCK OUTCROP COMPLEX, 25 TO 60 PERCENT SLOPES
40	LAMPSHIRE-ROMERO-ROCK OUTCROP COMPLEX, 10 TO 65 PERCENT SLOPES
41	LEHMANS-DELTHORNY-LAJITAS COMPLEX, 15 TO 50 PERCENT SLOPES 100% D
42	MABRAY-DELORO-ROCK OUTCROP COMPLEX, 20 TO 65 PERCENT SLOPES 100% D
43	MOHALL GRAVELLY FINE SANDY LOAM, 1 TO 5 PERCENT SLOPES - 100% B
44	MOHALL LOAM, 0 TO 2 PERCENT SLOPES 100% B
45	MOHALL-PAHAKA COMPLEX, 1 TO 3 PERCENT SLOPES
46	MOHALL-TRIX COMPLEX, 0 TO 1 PERCENT SLOPES
47	MOHAVE SOILS AND URBAN LAND, 1 TO 8 PERCENT SLOPES 100% B
48	NAHDA-PINALENO COMPLEX, 2 TO 8 PERCENT SLOPES
49	NAHDA-STAGECOACH COMPLEX, 1 TO 15 PERCENT SLOPES
50	NAHDA VERY COBBLY LOAM, 2 TO 8 PERCENT SLOPES

# Map Unit Legend

Pima County, Arizona, Eastern Part

Map symbol	Map unit name
51	NOLAM-TOMBSTONE COMPLEX, 8 TO 30 PERCENT SLOPES -100% B
52	ORACLE-ROMERO-ROCK OUTCROP COMPLEX, 5 TO 35 PERCENT SLOPES -100% D
53	PAHAKA FINE SANDY LOAM, 1 TO 5 PERCENT SLOPES
54	PALOS VERDES-JAYNES COMPLEX, 2 TO 8 PERCENT SLOPES 100% D
55	PALOS VERDES-SAHUARITA COMPLEX, 2 TO 8 PERCENT SLOPES
56	PANTAK-DELOORO COMPLEX, 8 TO 35 PERCENT SLOPES
57	PANTAK-ROCK OUTCROP COMPLEX, 25 TO 50 PERCENT SLOPES
58	PANTANO-GRANOLITE COMPLEX, 5 TO 25 PERCENT SLOPES 100% D
59	PANTANO-ROCK OUTCROP COMPLEX, 25 TO 60 PERCENT SLOPES 100% D
60	PINALENO-STAGECOACH COMPLEX, 5 TO 16 PERCENT SLOPES 100% B
61	PINALENO-STAGECOACH-PALOS VERDES COMPLEX, 10 TO 35 PERCENT SLOPES 67% B, 33% C
62	PINALENO VERY COBBLY SANDY LOAM, 1 TO 8 PERCENT SLOPES -100% B
63	PINAMT-MOMOLI COMPLEX, 1 TO 10 PERCENT SLOPES
64	PITS, DUMPS - Not Assigned A Hydrologic Group
65	POWERLINE-KIMROSE FAMILY COMPLEX, 10 TO 35 PERCENT SLOPES
66	REDINGTON VERY GRAVELLY FINE SAND, 3 TO 50 PERCENT SLOPES
67	REDO VERY GRAVELLY SAND, 15 TO 50 PERCENT SLOPES
68	RIVERROAD AND COMORO SOILS, 0 TO 2 PERCENT SLOPES
69	ROMERO-LAMPSHIRE-ROCK OUTCROP COMPLEX, 15 TO 65 PERCENT SLOPES
70	ROMERO-ORACLE COMPLEX, 25 TO 60 PERCENT SLOPES 100% D
71	SAGUARO-ROCK OUTCROP COMPLEX, 15 TO 45 PERCENT SLOPES
72	SAHUARITA SOILS, MOHAVE SOILS AND URBAN LAND, 1 TO 5 PERCENT SLOPES 100% B
73	SASABE-CARALAMPI COMPLEX, 1 TO 15 PERCENT SLOPES 45% C, 55% B
74	SCHRAP VERY CHANNERY LOAM, 5 TO 30 PERCENT SLOPES
75	SPUDROCK-BORIANA COMPLEX, 10 TO 35 PERCENT SLOPES
76	SPUDROCK-FAR-ROCK OUTCROP COMPLEX, 25 TO 65 PERCENT SLOPES
77	SPUDROCK-LEMMON COMPLEX, 15 TO 45 PERCENT SLOPES
78	STAGECOACH-SAHUARITA ASSOCIATION, 1 TO 8 PERCENT SLOPES 100% B
79	TOMBSTONE VERY GRAVELLY LOAM, 15 TO 50 PERCENT SLOPES 100% B
80	TUBAC COMPLEX, 0 TO 2 PERCENT SLOPES
81	TUBAC GRAVELLY LOAM, 1 TO 8 PERCENT SLOPES 100% C
82	TUBAC SANDY LOAM, 0 TO 2 PERCENT SLOPES
83	VECONT CLAY LOAM, 0 TO 1 PERCENT SLOPES 100% C
84	WHITE HOUSE-CARALAMPI COMPLEX, 5 TO 25 PERCENT SLOPES
85	WHITE HOUSE GRAVELLY LOAM, 1 TO 8 PERCENT SLOPES
86	YAQUI FINE SANDY LOAM, 1 TO 3 PERCENT SLOPES 100% B
87	WATER

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## Water Features

Pima County, Arizona, Eastern Part

Depths of layers are in feet. See text for definitions of terms used in this table. Estimates of the frequency of ponding and flooding apply to the whole y of an entry indicates that the feature is not a concern or that data were not estimated]

Map symbol and soil name	Hydrologic group	Surface runoff	Month	Water table		Ponding	
				Upper limit	Lower limit	Surface depth	Duration
				<i>Ft</i>	<i>Ft</i>	<i>Ft</i>	
1: ALTAR	B	Medium	Jan-Dec			---	---
SASABE	C	Medium	Jan-Dec			---	---
2: ANKLAM	D	Very high	Jan-Dec			---	---
CELLAR	D	High	Jan-Dec			---	---
ROCK OUTCROP	---	---	Jan-Dec			---	---
3: ANTHONY	B	Low	Jan-Dec			---	---
4: ARIVACA	C	Medium	Jan-Dec			---	---
5: ARIZO	A	Very low	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
			October	---	---	---	---
RIVERWASH	A	---	January	---	---	---	---
			February	---	---	---	---
			March	---	---	---	---
			June	---	---	---	---
			July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
			October	---	---	---	---
			November	---	---	---	---
			December	---	---	---	---
6: BERNARDINO	C	Medium	Jan-Dec			---	---
TOMBSTONE	B	Medium	Jan-Dec			---	---
7: BERNARDINO	C	Medium	Jan-Dec			---	---
WHITE HOUSE	C	Low	Jan-Dec			---	---

# Water Features

Pima County, Arizona, Eastern Part

Map symbol and soil name	Hydrologic group	Surface runoff	Month	Water table		Ponding	
				Upper limit	Lower limit	Surface depth	Duration
				<i>Ft</i>	<i>Ft</i>	<i>Ft</i>	
8: BUCKLEBAR	B	Low	Jan-Dec			---	---
SAHUARITA	B	Low	Jan-Dec			---	---
9: CARALAMPI	B	Medium	Jan-Dec			---	---
10: CARALAMPI	B	Medium	Jan-Dec			---	---
11: CAVE	D	High	Jan-Dec			---	---
URBAN LAND	---	---	Jan-Dec			---	---
12: CELLAR	D	Very high	Jan-Dec			---	---
LAMPSHIRE	D	Very high	Jan-Dec			---	---
ROCK OUTCROP	D	---	Jan-Dec			---	---
13: CELLAR	D	Very high	Jan-Dec			---	---
LEHMANS	D	High	Jan-Dec			---	---
14: CELLAR	D	Very high	Jan-Dec			---	---
ROCK OUTCROP	D	---	Jan-Dec			---	---
15: CHIMENEA	D	Very high	Jan-Dec			---	---
CELLAR	D	Very high	Jan-Dec			---	---
ROCK OUTCROP	D	---	Jan-Dec			---	---
16: CHIMENEA	D	High	Jan-Dec			---	---
17: CHIRICAHUA	D	High	Jan-Dec			---	---

# Water Features

Pima County, Arizona, Eastern Part

Map symbol and soil name	Hydrologic group	Surface runoff	Month	Water table		Ponding	
				Upper limit	Lower limit	Surface depth	Duration
				<i>Ft</i>	<i>Ft</i>	<i>Ft</i>	
17: LAMPSHIRE	D	High	Jan-Dec			---	---
18: COMBATE	B	Medium	Jan-Dec			---	---
19: COMORO	B	Low	Jan-Dec			---	---
20: CORTARO	D	Very high	Jan-Dec			---	---
ROCK OUTCROP	D	---	Jan-Dec			---	---
FARAWAY	D	Very high	Jan-Dec			---	---
21: DATELAND	B	Low	Jan-Dec			---	---
DENURE	B	Low	Jan-Dec			---	---
22: DELNORTE	C	High	Jan-Dec			---	---
STAGECOACH	B	Medium	Jan-Dec			---	---
23: DELORO	D	Very high	Jan-Dec			---	---
ANDRADA	D	High	Jan-Dec			---	---
24: DELORO	D	Very high	Jan-Dec			---	---
ROCK OUTCROP	D	---	Jan-Dec			---	---
25: DELORO	D	Medium	Jan-Dec			---	---
SCHRAP	D	Medium	Jan-Dec			---	---
26: DENURE	B	Medium	Jan-Dec			---	---
27: DIASPAR	B	Medium	Jan-Dec			---	---

	Flooding	
Frequency	Duration	Frequency

None --- None

port shows only the major soils in each map unit. Others may exist.

# Water Features

Pima County, Arizona, Eastern Part

Map symbol and soil name	Hydrologic group	Surface runoff	Month	Water table		Ponding	
				Upper limit	Lower limit	Surface depth	Duration
				<i>Ft</i>	<i>Ft</i>	<i>Ft</i>	
28: FAR	D	Very high	Jan-Dec			---	---
SPUDROCK	C	Very high	Jan-Dec			---	---
ROCK OUTCROP	D	---	Jan-Dec			---	---
29: GLENDALE	B	Low	Jan-Dec			---	---
BUCKLEBAR	B	Low	Jan-Dec			---	---
30: GLENDALE	B	Low	Jan-Dec			---	---
31: GRAHAM	D	High	Jan-Dec			---	---
PANTAK	D	High	Jan-Dec			---	---
32: GRAHAM	D	Very high	Jan-Dec			---	---
PANTAK	D	Very high	Jan-Dec			---	---
ROCK OUTCROP	D	---	Jan-Dec			---	---
33: GUEST	C	Medium	July August September	---	---	---	---
34: HANTZ	D	Medium	July August September October	---	---	---	---
35: HAYHOOK	B	Medium	Jan-Dec			---	---
36: HAYHOOK	B	Medium	Jan-Dec			---	---
SAHUARITA	B	Medium	Jan-Dec			---	---

# Water Features

Pima County, Arizona, Eastern Part

Map symbol and soil name	Hydrologic group	Surface runoff	Month	Water table		Ponding	
				Upper limit	Lower limit	Surface depth	Duration
				<i>Ft</i>	<i>Ft</i>	<i>Ft</i>	
37: KEYSTO	B	Medium	Jan-Dec			--	--
38: LAJITAS	D	Very high	Jan-Dec			--	--
DELTHORNY	D	High	Jan-Dec			--	--
ROCK OUTCROP	D	--	Jan-Dec			--	--
39: LAMPSHIRE	D	Very high	Jan-Dec			--	--
PANTAK	D	Very high	Jan-Dec			--	--
ROCK OUTCROP	D	--	Jan-Dec			--	--
40: LAMPSHIRE	D	Very high	Jan-Dec			--	--
ROMERO	C	Very high	Jan-Dec			--	--
ROCK OUTCROP	D	--	Jan-Dec			--	--
41: LEHMANS	D	Very high	Jan-Dec			--	--
DELTHORNY	D	High	Jan-Dec			--	--
LAJITAS	D	Very high	Jan-Dec			--	--
42: MABRAY	D	Very high	Jan-Dec			--	--
DELOORO	D	Very high	Jan-Dec			--	--
ROCK OUTCROP	D	--	Jan-Dec			--	--
43: MOHALL	B	High	Jan-Dec			--	--
44: MOHALL	B	Low	Jan-Dec			--	--
45: MOHALL	B	Low	Jan-Dec			--	--

## Water Features

Pima County, Arizona, Eastern Part

Map symbol and soil name	Hydrologic group	Surface runoff	Month	Water table		Ponding	
				Upper limit	Lower limit	Surface depth	Duration
				<i>Ft</i>	<i>Ft</i>	<i>Ft</i>	
45: PAHAKA	B	Medium	Jan-Dec			---	---
46: MOHALL	B	Medium	Jan-Dec			---	---
TRIX	B	Medium	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
			October	---	---	---	---
47: MOHAVE	B	Medium	Jan-Dec			---	---
URBAN LAND	---	---	Jan-Dec			---	---
48: NAHDA	C	Medium	Jan-Dec			---	---
PINALENO	B	Medium	Jan-Dec			---	---
49: NAHDA	C	Medium	Jan-Dec			---	---
STAGECOACH	B	Medium	Jan-Dec			---	---
50: NAHDA	C	Medium	Jan-Dec			---	---
51: NOLAM	B	Medium	Jan-Dec			---	---
TOMBSTONE	B	High	Jan-Dec			---	---
52: ORACLE	C	High	Jan-Dec			---	---
ROMERO	C	High	Jan-Dec			---	---
ROCK OUTCROP	D	---	Jan-Dec			---	---
53: PAHAKA	B	Medium	Jan-Dec			---	---
54: PALOS VERDES	C	Medium	Jan-Dec			---	---

# Water Features

Pima County, Arizona, Eastern Part

Map symbol and soil name	Hydrologic group	Surface runoff	Month	Water table		Ponding	
				Upper limit	Lower limit	Surface depth	Duration
				<i>Ft</i>	<i>Ft</i>	<i>Ft</i>	
54: JAYNES	D	High	Jan-Dec			---	---
55: PALOS VERDES	C	Medium	Jan-Dec			---	---
SAHUARITA	B	High	Jan-Dec			---	---
56: PANTAK	D	High	Jan-Dec			---	---
DELOORO	D	High	Jan-Dec			---	---
57: PANTAK	D	Very high	Jan-Dec			---	---
ROCK OUTCROP	D	---	Jan-Dec			---	---
58: PANTANO	D	Very high	Jan-Dec			---	---
GRANOLITE	C	Very high	Jan-Dec			---	---
59: PANTANO	D	Very high	Jan-Dec			---	---
ROCK OUTCROP	D	---	Jan-Dec			---	---
60: PINALENO	B	Medium	Jan-Dec			---	---
STAGECOACH	B	Medium	Jan-Dec			---	---
61: PINALENO	B	Medium	Jan-Dec			---	---
STAGECOACH	B	High	Jan-Dec			---	---
PALOS VERDES	C	Medium	Jan-Dec			---	---
62: PINALENO	B	Medium	Jan-Dec			---	---
63: PINAMT	B	Medium	Jan-Dec			---	---

# Water Features

Pima County, Arizona, Eastern Part

Map symbol and soil name	Hydrologic group	Surface runoff	Month	Water table		Ponding	
				Upper limit	Lower limit	Surface depth	Duration
				<i>Ft</i>	<i>Ft</i>	<i>Ft</i>	
63: MOMOLI	B	Medium	Jan-Dec			---	---
64: PITS	---	---	Jan-Dec			---	---
DUMPS, STONY	A	---	Jan-Dec			---	---
DUMPS, TAILINGS	B	---	Jan-Dec			---	---
65: POWERLINE	C	Medium	Jan-Dec			---	---
KIMROSE FAMILY	B	Medium	Jan-Dec			---	---
66: REDINGTON	B	High	Jan-Dec			---	---
67: REDO	A	Low	Jan-Dec			---	---
68: COMORO	B	Low	Jan-Dec			---	---
RIVERROAD	B	Low	Jan-Dec			---	---
69: ROMERO	C	Very high	Jan-Dec			---	---
LAMPSHIRE	D	High	Jan-Dec			---	---
ROCK OUTCROP	D	---	Jan-Dec			---	---
70: ROMERO	C	Very high	Jan-Dec			---	---
ORACLE	C	Very high	Jan-Dec			---	---
71: SAGUARO	D	Very high	Jan-Dec			---	---
ROCK OUTCROP	D	---	Jan-Dec			---	---
72: MOHAVE	B	Medium	Jan-Dec			---	---

# Water Features

Pima County, Arizona, Eastern Part

Map symbol and soil name	Hydrologic group	Surface runoff	Month	Water table		Ponding	
				Upper limit	Lower limit	Surface depth	Duration
				<i>Ft</i>	<i>Ft</i>	<i>Ft</i>	
72: SAHUARITA	B	Medium	Jan-Dec			--	--
URBAN LAND	--	--	Jan-Dec			--	--
73: SASABE	C	Medium	Jan-Dec			--	--
CARALAMPI	B	Medium	Jan-Dec			--	--
74: SCHRAP	D	High	Jan-Dec			--	--
75: SPUDROCK	C	Very high	Jan-Dec			--	--
BORIANA	D	Very high	Jan-Dec			--	--
76: SPUDROCK	C	Very high	Jan-Dec			--	--
FAR	D	Very high	Jan-Dec			--	--
ROCK OUTCROP	D	--	Jan-Dec			--	--
77: SPUDROCK	C	Very high	Jan-Dec			--	--
LEMMON	C	High	Jan-Dec			--	--
78: STAGECOACH	B	Medium	Jan-Dec			--	--
SAHUARITA	B	Medium	Jan-Dec			--	--
79: TOMBSTONE	B	High	Jan-Dec			--	--
80: TUBAC	C	Medium	Jan-Dec			--	--
TUBAC	C	Medium	Jan-Dec			--	--
81: TUBAC	C	Medium	Jan-Dec			--	--

# Water Features

Pima County, Arizona, Eastern Part

Map symbol and soil name	Hydrologic group	Surface runoff	Month	Water table		Ponding	
				Upper limit	Lower limit	Surface depth	Duration
				<i>Ft</i>	<i>Ft</i>	<i>Ft</i>	
82: TUBAC	C	Medium	Jan-Dec			---	---
83: VECONT	C	Medium	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
84: WHITE HOUSE	C	Medium	Jan-Dec			---	---
CARALAMPI	B	High	Jan-Dec			---	---
85: WHITE HOUSE	C	Medium	Jan-Dec			---	---
86: YAQUI	B	Low	Jan-Dec			---	---
87: WATER	---	---	Jan-Dec			---	---

# Water Features

Santa Cruz and Parts of Cochise and Pima Counties, Arizona

Depths of layers are in feet. See text for definitions of terms used in this table. Estimates of the frequency of ponding and flooding apply to the whole year of an entry indicates that the feature is not a concern or that data were not estimated]

Map symbol and soil name	Hydrologic group	Surface runoff	Month	Water table		Ponding	
				Upper limit	Lower limit	Surface depth	Duration
				<i>Ft</i>	<i>Ft</i>	<i>Ft</i>	
<b>An:</b>							
Anthony	B	Medium	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
<b>Ao:</b>							
Anthony	A	Medium	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
Anthony	A	Medium	Jan-Dec			---	---
<b>AtF:</b>							
Atascosa	D	High	Jan-Dec			---	---
<b>BaE:</b>							
Barkerville	C	Medium	Jan-Dec			---	---
Gaddes	C	Medium	Jan-Dec			---	---
<b>BgF:</b>							
Barkerville	C	High	Jan-Dec			---	---
Gaddes	C	High	Jan-Dec			---	---
Rock outcrop	---	High	Jan-Dec			---	---
<b>BhD:</b>							
Bernardino	C	Medium	Jan-Dec			---	---
Hathaway	B	Medium	Jan-Dec			---	---
<b>BoB:</b>							
Bonita	B	Very low	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
<b>Ca:</b>							
Calciorthids	D	High	Jan-Dec			---	---
Haplargids	---	High	Jan-Dec			---	---
<b>CbD:</b>							
Canelo	D	Medium	Jan-Dec			---	---

# Water Features

Santa Cruz and Parts of Cochise and Pima Counties, Arizona

Map symbol and soil name	Hydrologic group	Surface runoff	Month	Water table		Ponding	
				Upper limit	Lower limit	Surface depth	Duration
				<i>Ft</i>	<i>Ft</i>	<i>Ft</i>	
CdE: Canelo	D	Medium	Jan-Dec			---	---
CeD: Canelo	D	Medium	Jan-Dec			---	---
CgE: Caralampi	B	Medium	Jan-Dec			---	---
CgF2: Caralampi, eroded	B	High	Jan-Dec			---	---
CIB: Caralampi	C	Medium	Jan-Dec			---	---
CmE: Casto	D	Medium	Jan-Dec			---	---
Cn: Cave	D	Medium	Jan-Dec			---	---
CoE: Chiricahua	D	Medium	Jan-Dec			---	---
CrD: Chiricahua	D	Medium	Jan-Dec			---	---
Lampshire	D	Medium	Jan-Dec			---	---
CsC: Comoro	B	Medium	July August September	---	---	---	---
CtB: Comoro	B	Low	July August September	---	---	---	---
Comoro	B	---	July August September	---	---	---	---
CuC: Continental	C	Medium	Jan-Dec			---	---

# Water Features

Santa Cruz and Parts of Cochise and Pima Counties, Arizona

Map symbol and soil name	Hydrologic group	Surface runoff	Month	Water table		Ponding	
				Upper limit	Lower limit	Surface depth	Duration
				<i>Ft</i>	<i>Ft</i>	<i>Ft</i>	
CuC:							
Continental	C	Medium	Jan-Dec			---	---
CvE2:							
Continental	C	Medium	Jan-Dec			---	---
Rillino	B	High	Jan-Dec			---	---
EbC:							
Eba	C	Medium	Jan-Dec			---	---
FaD:							
Fanno	C	Medium	Jan-Dec			---	---
Luzena	D	Medium	Jan-Dec			---	---
FcF:							
Fanno	C	Medium	Jan-Dec			---	---
Fanno	C	Medium	Jan-Dec			---	---
FrE:							
Faraway	D	Medium	Jan-Dec			---	---
Rock outcrop	---	---	Jan-Dec			---	---
FrF:							
Faraway	D	High	Jan-Dec			---	---
Rock outcrop	---	---	Jan-Dec			---	---
FtF:							
Faraway	D	Medium	Jan-Dec			---	---
Rock outcrop	---	---	Jan-Dec			---	---
Tortugas	D	Medium	Jan-Dec			---	---
GaE:							
Gaddes	C	Medium	Jan-Dec			---	---
GbB:							
Grabe	B	Low	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---

# Water Features

Santa Cruz and Parts of Cochise and Pima Counties, Arizona

Map symbol and soil name	Hydrologic group	Surface runoff	Month	Water table		Ponding	
				Upper limit	Lower limit	Surface depth	Duration
				<i>Ft</i>	<i>Ft</i>	<i>Ft</i>	
GbB:							
Comoro	B	Low	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
Ge:							
Grabe	B	Low	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
Grabe	B	Low	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
GhD:							
Graham	D	Medium	Jan-Dec			---	---
Graham	D	Medium	Jan-Dec			---	---
GhF:							
Graham	D	Medium	Jan-Dec			---	---
Graham	D	Medium	Jan-Dec			---	---
Graham	D	Medium	Jan-Dec			---	---
Gu:							
Guest	B	Low	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
Guest	B	Low	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
Guest	B	Low	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
HaF:							
Hathaway	B	Medium	Jan-Dec			---	---
HhE2:							
Hathaway	B	High	Jan-Dec			---	---
Hathaway	B	High	Jan-Dec			---	---

# Water Features

Santa Cruz and Parts of Cochise and Pima Counties, Arizona

Map symbol and soil name	Hydrologic group	Surface runoff	Month	Water table		Ponding	
				Upper limit	Lower limit	Surface depth	Duration
				<i>Ft</i>	<i>Ft</i>	<i>Ft</i>	
<b>HoF:</b>							
Hogris	B	Medium	Jan-Dec			--	--
Telephone	D	Medium	Jan-Dec			--	--
<b>HtF:</b>							
Hogris	B	High	Jan-Dec			--	--
Rock outcrop	--	--	Jan-Dec			--	--
Telephone	D	High	Jan-Dec			--	--
<b>KbC:</b>							
Kimbrough	D	Medium	Jan-Dec			--	--
Kimbrough	D	Medium	Jan-Dec			--	--
<b>LaE:</b>							
Lampshire	D	Medium	Jan-Dec			--	--
<b>LaF:</b>							
Lampshire	D	High	Jan-Dec			--	--
<b>LcF:</b>							
Lampshire	D	High	Jan-Dec			--	--
Chiricahua	D	Medium	Jan-Dec			--	--
<b>LgF:</b>							
Lampshire	D	High	Jan-Dec			--	--
Graham	D	Medium	Jan-Dec			--	--
Rock outcrop	--	--	Jan-Dec			--	--
<b>LuD:</b>							
Luzena	D	Medium	Jan-Dec			--	--
<b>McF:</b>							
Chiricahua	D	Medium	Jan-Dec			--	--
Mabray	D	High	Jan-Dec			--	--
Rock outcrop	--	--	Jan-Dec			--	--

# Water Features

Santa Cruz and Parts of Cochise and Pima Counties, Arizona

Map symbol and soil name	Hydrologic group	Surface runoff	Month	Water table		Ponding	
				Upper limit	Lower limit	Surface depth	Duration
				<i>Ft</i>	<i>Ft</i>	<i>Ft</i>	
Mg: Martinez	D	Low	Jan-Dec			---	---
Pm: Pima	B	Low	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
Pima	B	Low	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
Pima	B	Low	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
Pn: Pima	B	Low	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
PoC: Pinaleno	B	Low	Jan-Dec			---	---
RIE2: Rillino	B	High	Jan-Dec			---	---
Rillino	B	High	Jan-Dec			---	---
Rillino	B	High	Jan-Dec			---	---
Rillino	B	High	Jan-Dec			---	---
Rn: Rock outcrop	---	---	Jan-Dec			---	---
Lithic Haplustolls	---	---	Jan-Dec			---	---
Rr: Rock outcrop	---	---	Jan-Dec			---	---
ScD: Schrap	D	High	Jan-Dec			---	---
ShF: Schrap	D	High	Jan-Dec			---	---

# Water Features

Santa Cruz and Parts of Cochise and Pima Counties, Arizona

Map symbol and soil name	Hydrologic group	Surface runoff	Month	Water table		Ponding	
				Upper limit	Lower limit	Surface depth	Duration
				<i>Ft</i>	<i>Ft</i>	<i>Ft</i>	
SnD:							
Signal	C	Medium	Jan-Dec			---	---
Signal	C	Medium	Jan-Dec			---	---
Signal	C	Medium	Jan-Dec			---	---
Signal	C	Medium	Jan-Dec			---	---
SoB:							
Sonoita	B	Low	Jan-Dec			---	---
SoD:							
Sonoita	B	Medium	Jan-Dec			---	---
Th:							
Haplustolls	B	---	Jan-Dec			---	---
Torrifluvents	B	---	Jan-Dec			---	---
TrE:							
Tortugas	D	Medium	Jan-Dec			---	---
Rock outcrop	---	---	Jan-Dec			---	---
TrF:							
Tortugas	D	High	Jan-Dec			---	---
Rock outcrop	---	---	Jan-Dec			---	---
W:							
Water	---	---	Jan-Dec			---	---
WgC:							
White House	C	Medium	Jan-Dec			---	---
WgE:							
White House	C	Medium	Jan-Dec			---	---
WhC:							
White House	C	Medium	Jan-Dec			---	---
WnC:							
White House	C	Medium	Jan-Dec			---	---

# Water Features

Santa Cruz and Parts of Cochise and Pima Counties, Arizona

Map symbol and soil name	Hydrologic group	Surface runoff	Month	Water table		Ponding	
				Upper limit	Lower limit	Surface depth	Duration
				<i>Ft</i>	<i>Ft</i>	<i>Ft</i>	
WnC:							
Bonita	B	Low	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
WoE:							
Caralampi	B	Medium	Jan-Dec			---	---
White House	C	Medium	Jan-Dec			---	---
WtF:							
White House	C	High	Jan-Dec			---	---
Hathaway	B	High	Jan-Dec			---	---



Soils

## Published Soil Surveys for Arizona

Soil surveys are being completed and published on a continuing schedule. For information on areas not listed and for ordering or obtaining information on reference copies, contact:

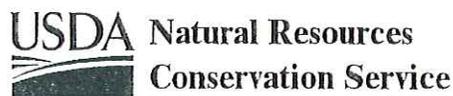
Rob Wilson  
USDA, Natural Resources Conservation Service  
18256 E. Williams Field Road, Suite 1  
Higley, AZ 85236-6806  
(602) 988-1078

Key	
*	Out of print
	Available on CD

# Acreage and Proportionate Extent of the Soils by County

Santa Cruz and Parts of Cochise and Pima Counties, Arizona

Map symbol	Map unit name	Santa Cruz, AZ	Total	
			Area Acres	Extent Pct
An	Anthony soils	---	---	---
Ao	Anthony soils, very gravelly variants	---	---	---
AtF	Atascosa very gravelly sandy loam, 30 to 50 percent slopes	---	---	---
BaE	Barkerville-Gaddes complex, 10 to 30 percent slopes	---	---	---
BgF	Barkerville-Gaddes association, steep	---	---	---
BhD	Bernardino-Hathaway association, rolling	---	---	---
BoB	Bonita clay, 0 to 5 percent slopes	---	---	---
Ca	Calciorthids-Haplargids association	---	---	---
CbD	Canelo gravelly sandy loam, 0 to 20 percent slopes	---	---	---
CdE	Canelo very gravelly sandy loam, 20 to 40 percent slopes	---	---	---
CeD	Canelo cobbly sandy loam, 0 to 20 percent slopes	---	---	---
CgE	Caralampi gravelly sandy loam, 10 to 40 percent slopes	---	---	---
CgF2	Caralampi gravelly sandy loam, 10 to 60 percent slopes, eroded	---	---	---
CIB	Caralampi gravelly loam, brown variant, 1 to 5 percent slopes	---	---	---
CmE	Casto very gravelly sandy loam, 10 to 40 percent slopes	---	---	---
Cn	Cave gravelly sandy loam	---	---	---
CoE	Chiricahua cobbly sandy loam, 10 to 45 percent slopes	---	---	---
CrD	Chiricahua-Lampshire association, rolling	---	---	---
CsC	Comoro sandy loam, 5 to 10 percent slopes	---	---	---
CtB	Comoro soils, 0 to 5 percent slopes	---	---	---
JuC	Continental soils, 1 to 10 percent slopes	---	---	---
CvE2	Continental-Rillino complex, 1 to 40 percent slopes, eroded	---	---	---
EbC	Eba very gravelly sandy loam, 0 to 10 percent slopes	---	---	---
FaD	Fanno-Luzena association, rolling	---	---	---
FcF	Fanno soils, acid variants, 20 to 50 percent slopes	---	---	---
FrE	Faraway-Rock outcrop complex, 10 to 30 percent slopes	---	---	---
FrF	Faraway-Rock outcrop complex, 30 to 60 percent slopes	---	---	---
FtF	Faraway-Tortugas-Rock outcrop association, steep	---	---	---
GaE	Gaddes very gravelly sandy loam, 5 to 30 percent slopes	---	---	---
GbB	Grabe-Comoro complex, 0 to 5 percent slopes	---	---	---
Ge	Grabe soils	---	---	---
GhD	Graham soils, 5 to 20 percent slopes	---	---	---
GhF	Graham soils, 20 to 50 percent slopes	---	---	---
Gu	Guest soils	---	---	---
HaF	Hathaway gravelly sandy loam, 20 to 50 percent slopes	---	---	---
HhE2	Hathaway soils, 1 to 40 percent slopes, eroded	---	---	---
HoF	Hogris-Telephone association, steep	---	---	---
HtF	Hogris-Telephone-Rock outcrop association, very steep	---	---	---



# Acreege and Proportionate Extent of the Soils

Santa Cruz and Parts of Cochise and Pima Counties, Arizona

Map symbol	Map unit name	Acres	Percent
LuD	Luzena gravelly loam, deep variant, 5 to 20 percent slopes	4,850	0.4
McF	Mabray-Chiricahua-Rock outcrop association, steep	15,592	1.4
Mg	Martinez gravelly loam	16,862	1.5
Pm	Pima soils	16,013	1.5
Pn	Pima clay loam, sandy clay loam subsoil variant	718	*
PoC	Pinalino gravelly sandy loam, 0 to 10 percent slopes	8,302	0.8
RIE2	Rillino soils, 8 to 40 percent slopes, eroded	10,600	1.0
Rn	Rock outcrop-Lithic Haplustolls association	61,804	5.6
Rr	Rock outcrop	1,206	0.1
ScD	Schrap very shaly clay loam, 5 to 20 percent slopes	4,880	0.4
ShF	Schrap cobbly clay loam, 20 to 50 percent slopes	2,125	0.2
SnD	Signal soils, 1 to 20 percent slopes	11,757	1.1
SoB	Sonoita gravelly sandy loam, 1 to 8 percent slopes	15,953	1.5
SoD	Sonoita gravelly sandy loam, 8 to 20 percent slopes	1,073	*
Th	Torrifluvents and Haplustolls	8,299	0.8
TrE	Tortugas-Rock outcrop complex, 5 to 25 percent slopes	8,834	0.8
TrF	Tortugas-Rock outcrop complex, 25 to 60 percent slopes	13,328	1.2
W	Water	447	*
WgC	White House gravelly loam, 0 to 10 percent slopes	23,469	2.1
WgE	White House gravelly loam, 10 to 35 percent slopes	35,232	3.2
WhC	White House cobbly sandy loam, 1 to 15 percent slopes	14,369	1.3
WnC	White House-Bonita complex, 0 to 10 percent slopes	5,678	0.5
WoE	White House-Caralampi complex, 10 to 35 percent slopes	37,573	3.4
/IF	White House-Hathaway association, steep	27,754	2.5
Total		1,097,139	99.9

\* Less than 0.1 percent.

# Acreeage and Proportionate Extent of the Soils

Santa Cruz and Parts of Cochise and Pima Counties, Arizona

Map symbol	Map unit name	Acres	Percent
An	Anthony soils	11,566	1.1
Ao	Anthony soils, very gravelly variants	844	*
AtF	Atascosa very gravelly sandy loam, 30 to 50 percent slopes	6,900	0.6
BaE	Barkerville-Gaddes complex, 10 to 30 percent slopes	6,284	0.6
BgF	Barkerville-Gaddes association, steep	42,531	3.9
BhD	Bernardino-Hathaway association, rolling	73,066	6.7
BoB	Bonita clay, 0 to 5 percent slopes	332	*
Ca	Calciorthids-Haplargids association	2,563	0.2
CbD	Canelo gravelly sandy loam, 0 to 20 percent slopes	826	*
CdE	Canelo very gravelly sandy loam, 20 to 40 percent slopes	7,510	0.7
CeD	Canelo cobbly sandy loam, 0 to 20 percent slopes	1,130	0.1
CgE	Caralampi gravelly sandy loam, 10 to 40 percent slopes	37,137	3.4
CgF2	Caralampi gravelly sandy loam, 10 to 60 percent slopes, eroded	29,610	2.7
CIB	Caralampi gravelly loam, brown variant, 1 to 5 percent slopes	1,879	0.2
CmE	Casto very gravelly sandy loam, 10 to 40 percent slopes	33,280	3.0
Cn	Cave gravelly sandy loam	843	*
CoE	Chiricahua cobbly sandy loam, 10 to 45 percent slopes	8,087	0.7
CrD	Chiricahua-Lampshire association, rolling	36,682	3.3
CsC	Comoro sandy loam, 5 to 10 percent slopes	2,341	0.2
CtB	Comoro soils, 0 to 5 percent slopes	38,198	3.5
CuC	Continental soils, 1 to 10 percent slopes	14,745	1.3
CvE2	Continental-Rillino complex, 1 to 40 percent slopes, eroded	4,457	0.4
EbC	Eba very gravelly sandy loam, 0 to 10 percent slopes	4,531	0.4
FaD	Fanno-Luzena association, rolling	8,455	0.8
FcF	Fanno soils, acid variants, 20 to 50 percent slopes	1,592	0.1
FrE	Faraway-Rock outcrop complex, 10 to 30 percent slopes	32,720	3.0
FrF	Faraway-Rock outcrop complex, 30 to 60 percent slopes	40,332	3.7
FtF	Faraway-Tortugas-Rock outcrop association, steep	18,030	1.6
GaE	Gaddes very gravelly sandy loam, 5 to 30 percent slopes	1,810	0.2
GbB	Grabe-Comoro complex, 0 to 5 percent slopes	11,183	1.0
Ge	Grabe soils	5,843	0.5
GhD	Graham soils, 5 to 20 percent slopes	11,128	1.0
GhF	Graham soils, 20 to 50 percent slopes	5,586	0.5
Gu	Guest soils	9,442	0.9
HaF	Hathaway gravelly sandy loam, 20 to 50 percent slopes	7,510	0.7
HhE2	Hathaway soils, 1 to 40 percent slopes, eroded	6,530	0.6
HoF	Hogris-Telephone association, steep	4,639	0.4
HtF	Hogris-Telephone-Rock outcrop association, very steep	6,099	0.6
KbC	Kimbrough soils, 2 to 10 percent slopes	2,817	0.3
LaE	Lampshire very gravelly sandy loam, 0 to 25 percent slopes	2,770	0.3
LaF	Lampshire very gravelly sandy loam, 25 to 50 percent slopes	32,920	3.0
LcF	Lampshire-Chiricahua association, steep	86,800	7.9
LgF	Lampshire-Graham-Rock outcrop association, steep	88,873	8.1

# Acreage and Proportionate Extent of the Soils by County

Santa Cruz and Parts of Cochise and Pima Counties, Arizona

Map symbol	Map unit name	Santa Cruz, AZ	Total	
			Area Acres	Extent Pct
KbC	Kimbrough soils, 2 to 10 percent slopes	---	---	---
LaE	Lampshire very gravelly sandy loam, 0 to 25 percent slopes	---	---	---
LaF	Lampshire very gravelly sandy loam, 25 to 50 percent slopes	---	---	---
LcF	Lampshire-Chiricahua association, steep	---	---	---
LgF	Lampshire-Graham-Rock outcrop association, steep	---	---	---
LuD	Luzena gravelly loam, deep variant, 5 to 20 percent slopes	---	---	---
McF	Mabray-Chiricahua-Rock outcrop association, steep	---	---	---
Mg	Martinez gravelly loam	---	---	---
Pm	Pima soils	---	---	---
Pn	Pima clay loam, sandy clay loam subsoil variant	---	---	---
PoC	Pinalino gravelly sandy loam, 0 to 10 percent slopes	---	---	---
RIE2	Rillino soils, 8 to 40 percent slopes, eroded	---	---	---
Rn	Rock outcrop-Lithic Haplustolls association	---	---	---
Rr	Rock outcrop	---	---	---
ScD	Schrap very shaly clay loam, 5 to 20 percent slopes	---	---	---
ShF	Schrap cobbly clay loam, 20 to 50 percent slopes	---	---	---
SnD	Signal soils, 1 to 20 percent slopes	---	---	---
SoB	Sonoita gravelly sandy loam, 1 to 8 percent slopes	---	---	---
SoD	Sonoita gravelly sandy loam, 8 to 20 percent slopes	---	---	---
Th	Torrifluvents and Haplustolls	---	---	---
rE	Tortugas-Rock outcrop complex, 5 to 25 percent slopes	---	---	---
TrF	Tortugas-Rock outcrop complex, 25 to 60 percent slopes	---	---	---
W	Water	---	---	---
WgC	White House gravelly loam, 0 to 10 percent slopes	---	---	---
WgE	White House gravelly loam, 10 to 35 percent slopes	---	---	---
WhC	White House cobbly sandy loam, 1 to 15 percent slopes	---	---	---
WnC	White House-Bonita complex, 0 to 10 percent slopes	---	---	---
WoE	White House-Caralampi complex, 10 to 35 percent slopes	---	---	---
WtF	White House-Hathaway association, steep	---	---	---
Total		---	---	---

\* Less than 0.1 percent.

## Map Unit Legend

Cochise County, Arizona, Douglas-Tombstone Part

Map symbol	Map unit name
1	ALTAR-MALLET COMPLEX, 0 TO 8 PERCENT SLOPES
2	ANTHONY-MARICOPA COMPLEX, 0 TO 5 PERCENT SLOPES
3	ARIZO FAMILY-RIVERWASH COMPLEX, 0 TO 3 PERCENT SLOPES
4	ASHCREEK-STANFORD COMPLEX, 0 TO 10 PERCENT SLOPES
5	BABOQUIVARI-COMBATE COMPLEX, 0 TO 3 PERCENT SLOPES
6	BANSHEE COMPLEX, 0 TO 5 PERCENT SLOPES
7	BELLA FINE SANDY LOAM, 1 TO 10 PERCENT SLOPES
8	BLAKENEY-LUCKYHILLS COMPLEX, 3 TO 15 PERCENT SLOPES
9	BODECKER AND COMORO SOILS, 0 TO 5 PERCENT SLOPES
10	BODECKER VERY GRAVELLY SANDY LOAM, 0 TO 2 PERCENT SLOPES
11	BODECKER VERY GRAVELLY SANDY LOAM, SALINE-SODIC, 0 TO 2 PERCENT SLOPES
12	BONITA CLAY, 0 TO 1 PERCENT SLOPES
13	BONITA-FORREST COMPLEX, 1 TO 8 PERCENT SLOPES
14	BORDERLAND SANDY CLAY LOAM, 1 TO 10 PERCENT SLOPES
15	BORDERLINE FINE SANDY LOAM, 2 TO 15 PERCENT SLOPES
16	BOSS, KRENTZ, AND PARAMORE SOILS, AND ROCK OUTCROP, 15 TO 55 PERCENT SLOPES
17	BROOKLINE-FLUVAQENTS-RIVERWASH COMPLEX, 0 TO 3 PERCENT SLOPES
18	BRUNKCOW-CHIRICAHUA-ANDRADA COMPLEX, 3 TO 20 PERCENT SLOPES
19	BRUNKCOW-CHIRICAHUA-LAMPSHIRE COMPLEX, 15 TO 60 PERCENT SLOPES
20	BUDLAMP-WOODCUTTER COMPLEX, 15 TO 60 PERCENT SLOPES
21	BUNTLINE CLAY LOAM, 0 TO 2 PERCENT SLOPES
22	CARALAMPI SANDY LOAM, 1 TO 5 PERCENT SLOPES
23	CARALAMPI VERY GRAVELLY SANDY LOAM, 1 TO 3 PERCENT SLOPES
24	CARBINE VERY GRAVELLY LOAM, 3 TO 30 PERCENT SLOPES
25	CARBINE-HATHAWAY COMPLEX, 3 TO 45 PERCENT SLOPES
26	CAZADOR-LESLIECREEK COMPLEX, 0 TO 10 PERCENT SLOPES
27	CHERRYCOW-BLACKTAIL COMPLEX, 3 TO 30 PERCENT SLOPES
28	CHERRYCOW-MAGOFFIN-ROCK OUTCROP COMPLEX, 15 TO 65 PERCENT SLOPES
29	CHORRO-DOUBLEADOBE-GOTHARD COMPLEX, 0 TO 5 PERCENT SLOPES
30	CHORRO-GUEST COMPLEX, 0 TO 3 PERCENT SLOPES
31	COGSWELL CLAY, SALINE-SODIC, 0 TO 2 PERCENT SLOPES
32	COMBATE LOAMY SAND, 0 TO 5 PERCENT SLOPES
33	COMORO SANDY LOAM, 0 TO 2 PERCENT SLOPES
34	COMORO SANDY LOAM, SALINE-SODIC, 0 TO 2 PERCENT SLOPES
35	CONTENTION, CRYSTALGYP, MONZINGO, AND REDINGTON SOILS, BREAKS, 5 TO 60 PERCENT SLOPES
36	CONTENTION-UGYP SOILS COMPLEX, 0 TO 5 PERCENT SLOPES
37	COURTLAND SANDY LOAM, 0 TO 2 PERCENT SLOPES
38	COURTLAND SANDY LOAM, SALINE-SODIC, 0 TO 2 PERCENT SLOPES
39	COURTLAND-DIASPAR COMPLEX, 0 TO 3 PERCENT SLOPES
40	COURTLAND-SASABE-DIASPAR COMPLEX, 1 TO 8 PERCENT SLOPES
41	CROWBAR-BRUNOPEAK ASSOCIATION, 1 TO 40 PERCENT SLOPES
42	DELORO-LEYTE-LAMPSHIRE COMPLEX, 3 TO 55 PERCENT SLOPES
43	DENAB-CASTLEDOME COMPLEX, 3 TO 45 PERCENT SLOPES
44	DENIED ACCESS
45	DIASPAR SANDY LOAM, 0 TO 2 PERCENT SLOPES
46	DIASPAR SANDY LOAM, SALINE-SODIC, 0 TO 2 PERCENT SLOPES
47	DONA ANA-MOHAVE COMPLEX, 1 TO 5 PERCENT SLOPES
48	DOUBLEADOBE SANDY LOAM, 1 TO 3 PERCENT SLOPES
49	DURAZO LOAMY SAND, 0 TO 2 PERCENT SLOPES
50	DURAZO LOAMY SAND, SALINE-SODIC, 0 TO 2 PERCENT SLOPES

## Map Unit Legend

Cochise County, Arizona, Douglas-Tombstone Part

Map symbol	Map unit name
51	DURAZO, saline-sodic-GOTHARD COMPLEX, 1 TO 15 PERCENT SLOPES
52	DURAZO-COURTLAND COMPLEX, 1 TO 5 PERCENT SLOPES
53	DURAZO-MCALLISTER COMPLEX, 1 TO 15 PERCENT SLOPES
54	ELFRIDA CLAY LOAM, 0 TO 2 PERCENT SLOPES
55	ELFRIDA CLAY LOAM, SALINE-SODIC, 0 TO 2 PERCENT SLOPES
56	ELGIN-MCALLISTER-STRONGHOLD COMPLEX, 1 TO 8 PERCENT SLOPES
57	ELGIN-OUTLAW COMPLEX, 1 TO 10 PERCENT SLOPES
58	ELGIN-STRONGHOLD COMPLEX, 3 TO 20 PERCENT SLOPES
59	ELOMA SANDY LOAM, 1 TO 10 PERCENT SLOPES
60	ELOMA-CARALAMPI-WHITE HOUSE COMPLEX, 1 TO 15 PERCENT SLOPES
61	EPITAPH VERY COBBLY CLAY LOAM, 3 TO 15 PERCENT SLOPES
62	FAR-HOGRIS ASSOCIATION, 15 TO 60 PERCENT SLOPES
63	FAR-HUACHUCA-HOGRIS ASSOCIATION, 15 TO 70 PERCENT SLOPES
64	FAR-HUACHUCA-HOGRIS ASSOCIATION, MOIST, 15 TO 70 PERCENT SLOPES
65	FORREST CLAY LOAM, 1 TO 3 PERCENT SLOPES
66	FORREST CLAY LOAM, SALINE-SODIC, 1 TO 3 PERCENT SLOPES
67	FORREST SANDY LOAM, 1 TO 3 PERCENT SLOPES
68	FORREST SILT LOAM, 0 TO 1 PERCENT SLOPES
69	FORREST SILT LOAM, SALINE-SODIC, 1 TO 3 PERCENT SLOPES
70	FORREST-BONITA COMPLEX, 0 TO 3 PERCENT SLOPES
71	GARDENCAN-LANQUE COMPLEX, 0 TO 5 PERCENT SLOPES
72	GLENDALE VERY FINE SANDY LOAM, 0 TO 2 PERCENT SLOPES
73	GOTHARD LOAM, 1 TO 3 PERCENT SLOPES
4	GOTHARD SANDY LOAM, 0 TO 2 PERCENT SLOPES
75	GRAHAM-LAMPSHIRE COMPLEX, 8 TO 60 PERCENT SLOPES
76	GRAVEYARD-SIERRAVISTA COMPLEX, 0 TO 8 PERCENT SLOPES
77	GRIZZLE COARSE SANDY LOAM, 3 TO 8 PERCENT SLOPES
78	GUEST SILTY CLAY LOAM, 0 TO 1 PERCENT SLOPES
79	GUEST SILTY CLAY LOAM, 0 TO 3 PERCENT SLOPES
80	GUEST SILTY CLAY LOAM, SALINE-SODIC, 0 TO 1 PERCENT SLOPES
81	GUEST SILTY CLAY, 0 TO 1 PERCENT SLOPES
82	GUEST SILTY CLAY, SALINE-SODIC, 0 TO 1 PERCENT SLOPES
83	GUEST-COGSWELL COMPLEX, SALINE-SODIC, 0 TO 1 PERCENT SLOPES
84	GUEST-RIVERROAD ASSOCIATION, 0 TO 1 PERCENT SLOPES
85	HANTZ SILT LOAM, SALINE-SODIC, 0 TO 3 PERCENT SLOPES
86	HAPLUSTOLLS-FLUVAQUENTS ASSOCIATION, MESIC, 0 TO 4 PERCENT SLOPES
87	HAPLUSTOLLS-FLUVAQUENTS ASSOCIATION, THERMIC, 0 TO 4 PERCENT SLOPES
88	HAYHOLLOW-RAFTER-RIVERWASH COMPLEX, 0 TO 5 PERCENT SLOPES
89	KABOOM-REEUP COMPLEX, 0 TO 45 PERCENT SLOPES
90	KAHN COMPLEX, 0 TO 3 PERCENT SLOPES
91	KAHN-ZAPOLOTE COMPLEX, 1 TO 15 PERCENT SLOPES
92	KARRO LOAM, 1 TO 3 PERCENT SLOPES
93	KARRO LOAM, SALINE-SODIC, 1 TO 3 PERCENT SLOPES
94	KEYSTO-RIVERWASH COMPLEX, 1 TO 5 PERCENT SLOPES
95	KUYKENDALL-ROCK OUTCROP COMPLEX, 3 TO 45 PERCENT SLOPES
96	LANQUE-STANFORD COMPLEX, 0 TO 5 PERCENT SLOPES
97	LIBBY-GULCH COMPLEX, 0 TO 10 PERCENT SLOPES
98	LUCKYHILLS LOAMY SAND, 0 TO 5 PERCENT SLOPES
3	LUCKYHILLS-MCNEAL COMPLEX, 3 TO 15 PERCENT SLOPES
100	LUTZCAN-YARBAM COMPLEX, 25 TO 50 PERCENT SLOPES

# Map Unit Legend

Cochise County, Arizona, Douglas-Tombstone Part

Map symbol	Map unit name
101	MABRAY-CHIRICAHUA-ROCK OUTCROP COMPLEX, 3 TO 45 PERCENT SLOPES
102	MABRAY-ROCK OUTCROP COMPLEX, 3 TO 45 PERCENT SLOPES
103	MAGOFFIN-ROCK OUTCROP-CHERRYCOW COMPLEX, 0 TO 15 PERCENT SLOPES
104	MAJOR COMPLEX, 0 TO 5 PERCENT SLOPES
105	MALLET-HOOKS COMPLEX, 0 TO 5 PERCENT SLOPES
106	MARSH
107	MCALLISTER LOAM, 1 TO 3 PERCENT SLOPES
108	MCALLISTER-STRONGHOLD COMPLEX, 3 TO 20 PERCENT SLOPES
109	MCNEAL GRAVELLY SANDY LOAM, 1 TO 3 PERCENT SLOPES
110	MCNEAL GRAVELLY SANDY LOAM, SALINE-SODIC, 1 TO 3 PERCENT SLOPES
111	MONZINGO-UGYP COMPLEX, 1 TO 20 PERCENT SLOPES
112	NACO-RUINS SOILS COMPLEX, 1 TO 5 PERCENT SLOPES
113	NOLAM-LIBBY-BUNTLINE COMPLEX, 1 TO 10 PERCENT SLOPES
114	OUTLAW-EPITAPH-PARAMORE COMPLEX, 0 TO 15 PERCENT SLOPES
115	OVERSIGHT GRAVELLY SANDY LOAM, 1 TO 35 PERCENT SLOPES
116	OVERSIGHT SANDY LOAM, CALCAREOUS, 1 TO 20 PERCENT SLOPES
117	OVERSIGHT-LANQUE COMPLEX, 1 TO 5 PERCENT SLOPES
118	PEDREGOSA VERY GRAVELLY FINE SANDY LOAM, 3 TO 15 PERCENT SLOPES
119	PEDREGOSA-TOMBSTONE COMPLEX, 3 TO 20 PERCENT SLOPES
120	PERILLA-DURAZO COMPLEX, 0 TO 3 PERCENT SLOPES
121	PITS
122	PITS-DUMPS COMPLEX
123	QUIBURI-FLUVAQUENTS-RIVERWASH COMPLEX, 0 TO 5 PERCENT SLOPES
124	RAFTER-LANQUE COMPLEX, 0 TO 5 PERCENT SLOPES
125	RIVERROAD AND UBIK SOILS, 0 TO 5 PERCENT SLOPES
126	RIVERWASH, 1 TO 10 PERCENT SLOPES
127	RIVERWASH-BODECKER COMPLEX, 0 TO 3 PERCENT SLOPES
128	ROCK OUTCROP-MAGOFFIN COMPLEX, 5 TO 60 PERCENT SLOPES
129	SASABE COMPLEX, 0 TO 3 PERCENT SLOPES
130	SASABE GRAVELLY SANDY LOAM, 0 TO 2 PERCENT SLOPES
131	SASABE GRAVELLY SANDY LOAM, SALINE-SODIC, 0 TO 2 PERCENT SLOPES
132	SCHIEFFLIN VERY STONY LOAMY SAND, 3 TO 15 PERCENT SLOPES
133	STRONGHOLD GRAVELLY FINE SANDY LOAM, 1 TO 3 PERCENT SLOPES
134	STRONGHOLD-BERNARDINO COMPLEX, 10 TO 30 PERCENT SLOPES
135	SURGE-ROCK OUTCROP COMPLEX, 3 TO 45 PERCENT SLOPES
136	SUTHERLAND-MULE COMPLEX, 3 TO 15 PERCENT SLOPES
137	SWISSHELM SANDY LOAM, 1 TO 3 PERCENT SLOPES
138	SWISSHELM SANDY LOAM, SALINE-SODIC, 1 TO 3 PERCENT SLOPES
139	TENNECO FINE SANDY LOAM, 0 TO 2 PERCENT SLOPES
140	TERRAROSSA COMPLEX, 0 TO 45 PERCENT SLOPES
141	TERRAROSSA-BLACKTAIL-PYEATT COMPLEX, 1 TO 40 PERCENT SLOPES
142	TOMBSTONE VERY GRAVELLY FINE SANDY LOAM, 8 TO 15 PERCENT SLOPES
143	TURQUOISE-NUGGET COMPLEX, 3 TO 45 PERCENT SLOPES
144	UBIK COMPLEX, 0 TO 3 PERCENT SLOPES
145	UBIK LOAM, 1 TO 3 PERCENT SLOPES
146	UBIK LOAM, SALINE-SODIC, 1 TO 3 PERCENT SLOPES
147	UBIK SANDY LOAM, 1 TO 3 PERCENT SLOPES
148	UBIK SANDY LOAM, SALINE-SODIC, 1 TO 3 PERCENT SLOPES
149	VANA FINE SANDY LOAM, 1 TO 10 PERCENT SLOPES
150	VANA-MOCO COMPLEX, 1 TO 5 PERCENT SLOPES

# Map Unit Legend

Cochise County, Arizona, Douglas-Tombstone Part

Map symbol	Map unit name
151	WHITE HOUSE COMPLEX, 1 TO 30 PERCENT SLOPES
152	YARBAM-ROCK OUTCROP COMPLEX, 25 TO 60 PERCENT SLOPES

## Key to Eastern Pima County Soil Mapping Units

Prepared by Pima County Department of  
Transportation and Flood Control District  
From data provided by the Soil Conservation Service

1A	Hayhook sandy loam, 100%B
1B	Hayhook-Sonoita complex, 100%B
1C	Mimbres-Bucklebar complex, 100%B
1L	Artesia very cobbly loam, 100%D
2A, 28Bp, 28BX, 28Cp, 28CX	Anklam-Pantano complex, 100%D
2B	Anklam-Rock outcrop complex, 100%D
2C	Pantano-Rock outcrop complex, 100%D 59
2E, 41A	St. Thomas-Rock outcrop complex, 100%D
2G	Lemitar-Deloro complex, 100%D
2H	Lemitar-Rock outcrop, 100%D
3A, 70, 30B	Chimayo-Rock outcrop-Faraway complex, 100%D
4A	Bernardino-Tombstone, 50%C, 50%B 6
4B	Bernadino-White House complex, 100%C 7
4BX	Sasabe-Caralampi complex, 45%C, 55%B
5A, 16A	Riggs silty clay, 100%C
6A, 6AX	Caralampi very gravelly sandy loam, 100%B 9
6B, 6C, 6BX	Caralampi very gravelly sandy loam, 100%B 9
7A, 29B, 38B	Cave gravelly fine sandy loam, 100%D
7B	Greyeagle extremely cobbly fine sandy loam, 100% <del>q</del> D
8A	Cellar-Lehmans complex, 100%D 17
8B, 19A	Lajitas-Greyeagle-Lajitas complex, 100%D
8G, 37A	Chimenea very gravelly fine sandy loam, 100%D 16
8H	Chimenea-Cellar-Rock outcrop complex, 100%D 15
9B	Chiricahua-Coyanosa complex, 100%D

- 10A — ✓Tanque sandy loam, 100%A
- 11A — ✓Continental gravelly loam, 100%C - C<sub>1</sub>C
- 11B — ✓Altar-Sasabe complex, 70%B, 30%C **1**
- 13A, 18Ap ✓Powerline-Monterosa complex, ~~100%D~~ **54% C 35% D**
- 13G — ✓Deloro-Rock outcrop complex, 100%D **24**
- 13H — ✓Deloro-Andrada complex, 100%D **23**
- 14A, 72 ✓Spudrock-Elledge complex, 100%C
- 15A — ✓Graham-Lemitar Rock outcrop, 100%D - G<sub>h</sub>D
- 15B — ✓Graham-Lemitar complex, 100%D - G<sub>h</sub>F
- 16A, 5A ✓Riggs silty clay, 100%C
- 18A ✓Tombstone very gravelly loam, 100%B **79**
- 18Ap, 13A ✓Powerline-Monterosa complex, 100%D
- 19A, 8B — ✓Lajitas-Greyeagle-Lajitas complex, 100%D
- 19G, 19H — ✓Coyanosa-Romero-Rock outcrop complex, 100%D
- 19H, 19G — ✓Coyanosa-Romero-Rock outcrop complex, 100%D
- 20A — ✓Lehmans-Greyeagle-Lajitas complex 100%D
- 21A ✓Yaqui fine sandy loam, 100%B **86**
- 22A Romero-Oracle complex, 100%D **70**
- 23A — Mabray-Deloro-Rock outcrop complex, 100%D **42**
- 23G Pits-Dumps (Not assigned a hydrologic group) **64**
- 24A ✓Nickel-Sahuarita association, 100%B
- 25A, 38A ✓Mohave loam, 100%B **47 MdA, MdB**
- ✓26A ✓Palos Verdes-Jaynes complex, 100%D **54**
- 26B Palos Verdes-Sonoita complex, 50%D, 50%B
- ✓27A Riverroad and Tierranegra soils, 100%B
- 28A Pinaleno very cobbly sandy loam, 100%B
- 28AX Pinaleno-Nickel complex, 100%B
- 28B Pinaleno-Nickel complex, 100%B
- 28BX ✓Anklam-Pantano complex, 100%D
- 28C Pinaleno-Nickel-Palos Verdes 80%B, 20%D
- 28Cp ✓Anklam-Pantano complex, 100%D
- 28CX ✓Anklam-Pantano complex, 100%D
- ✓29A Sahuarita-Mohave complex, 100%B **72**
- 29B, 7A, 38B ✓Cave gravelly fine sandy loam, 100%D - C<sub>n</sub>, C<sub>u</sub>B
- 30A ✓Coyanosa-Rock outcrop complex, 100%D

- 30B, 70, 3A ✓ Chimayo-Rock outcrop-Faraway complex, 100%D
- 31A, 31B Oracle-Romero-Rock outcrop complex, 100%D 52
- 31B, 31A Oracle-Romero-Rock outcrop complex, 100%D 52
- 32A Schrap very gravelly loam, 100%D -shF
- 33A ✓ Bucklebar-Sonoita complex, 100%B
- 33AX ✓ Diaspar sandy loam, 100%B 27
- 34,RV Arizo-Riverwash complex, 100%A AE
- 35A Mimbres silt loam, 100%B
- 35G Geroni very gravelly fine sandy loam, 100%B
- 36A Tubac sandy loam, 100%C
- 37A, 8G Chimenea very gravelly fine sandy loam, 100%D, 16
- 38A, 25A Mohave loam, 100%B MAA, MAB
- 38B Cave gravelly fine sandy loam, 100%D 11 cap
- 38C, 27A Riverroad and Tierranegra soils, 100%B
- 39A Riggs clay loam, 100%C
- 40A White House gravelly loam, 100%C - w<sub>y</sub>L, w<sub>y</sub>E
- 40B White House-Caralampi complex, 45%C, 55%B - w<sub>o</sub>E
- 41A, 2E St. Thomas-Rock outcrop complex, 100%D
- 42A Nolam-Tombstone complex, 100%B 51
- 41A Anthony fine sandy loam, 100%B - An, 3 AhA, AhB
- 52 Denure gravelly sandy loam, 100%B 26
- 53 Mohall loam, 100%B 44
- 54 Vecont clay loam, 100%C 83
- 55 Pinamt-Momoli complex, 100%B
- 56 Silverbell-Pinamt complex, 40%C, 60%B
- 57 Mohall gravelly fine sandy loam, 100%B 43
- 58 Mingus very cobbly loam, 100%D
- 59 Deloro-Schrap association, 100%D 25
- 67 Redington, very cobbly loamy sand, 100%D
- 70, 3A, 30B Chimayo-Rock outcrop-Faraway complex, 100%D
- 71 Spudrock-Docdee-Rock outcrop complex, 45%C, 55%D
- 72, 14A Spudrock-Elledge complex, 100%C
- 80 Broadmoor-Boriana complex, 55%C, 45%D
- 98H Cellar-Rock outcrop complex, 100%D, 14
- 152 Denure fine sandy loam, 100%B
- 210A Tanque sandy loam, 100%A
- 283P Anklam-Pantano complex, 100%D

- Soil 669  
 - Soil 667  
 - Soil 668

Map Unit Legend

Tucson-Avra Valley Area, Arizona

Map symbol	Map unit name
Ag	AGUA VERY FINE SANDY LOAM
AhA	ANTHONY SANDY LOAM, 0 TO 1 PERCENT SLOPES 100% B
AhB	ANTHONY SANDY LOAM, 1 TO 3 PERCENT SLOPES 100% B
AnA	ANTHONY GRAVELLY SANDY LOAM, 0 TO 1 PERCENT SLOPES
AnB	ANTHONY GRAVELLY SANDY LOAM, 1 TO 3 PERCENT SLOPES
Ao	ANTHONY LOAM
ApB	ANTHONY SOILS, 0 TO 3 PERCENT SLOPES
AsB	ANTHONY AND SONOITA SOILS, 0 TO 5 PERCENT SLOPES
At	ANWAY SANDY LOAM
Au	ANWAY LOAM
Aw	ANWAY SILTY CLAY LOAM
Az	ARIZO GRAVELLY SANDY LOAM 100% A
Br	BRAZITO LOAMY SAND
BsB	BRAZITO GRAVELLY LOAMY SAND, 1 TO 3 PERCENT SLOPES
Bt	BRAZITO SANDY LOAM
CaB	CAVE GRAVELLY LOAM, 0 TO 5 PERCENT SLOPES 100% D
CiC	CAVE-RILLITO COMPLEX, 0 TO 8 PERCENT SLOPES
Cm	COMORO SANDY LOAM
CnB	COMORO GRAVELLY SANDY LOAM, 1 TO 3 PERCENT SLOPES
Co	COMORO LOAM
CsA	COWAN LOAMY SAND, 0 TO 1 PERCENT SLOPES
CsB	COWAN LOAMY SAND, 1 TO 3 PERCENT SLOPES
ct	COWAN SANDY LOAM
vB	COWAN-VALENCIA COMPLEX, 0 TO 5 PERCENT SLOPES
Es	ESTRELLA LOAM
Ga	GILA SANDY LOAM
GbA	GILA LOAM, 0 TO 1 PERCENT SLOPES
GbB	GILA LOAM, 1 TO 3 PERCENT SLOPES
Gc	GILA SILTY CLAY LOAM
Gd	GLENDALE LOAM
Ge	GLENDALE SILTY CLAY LOAM
Ge3	GLENDALE SILTY CLAY LOAM, SEVERELY ERODED
GgB	GRABE GRAVELLY SANDY LOAM, 1 TO 3 PERCENT SLOPES
Gh	GRABE LOAM
GkA	GRABE GRAVELLY LOAM, 0 TO 1 PERCENT SLOPES
GkB	GRABE GRAVELLY LOAM, 1 TO 3 PERCENT SLOPES
Gm	GRABE SILTY CLAY LOAM
GoB	GRABE SOILS, 0 TO 3 PERCENT SLOPES
Gr	GRAVELLY ALLUVIAL LAND
Gu	GULLIED LAND
LaA	LAVEEN SANDY LOAM, 0 TO 1 PERCENT SLOPES
LaB	LAVEEN SANDY LOAM, 1 TO 3 PERCENT SLOPES
LdB	LAVEEN GRAVELLY SANDY LOAM, 1 TO 3 PERCENT SLOPES
LeA	LAVEEN LOAM, 0 TO 1 PERCENT SLOPES
LeB	LAVEEN LOAM, 1 TO 3 PERCENT SLOPES
LmB	LAVEEN COMPLEX, 0 TO 5 PERCENT SLOPES
LrB	LAVEEN-RILLITO COMPLEX, 0 TO 3 PERCENT SLOPES
LsB	LAVEEN GRAVELLY SANDY LOAM, HEAVY VARIANT, 1 TO 3 PERCENT SLOPES
da	MOHAVE SANDY LOAM, 0 TO 1 PERCENT SLOPES 100% B
dB	MOHAVE SANDY LOAM, 1 TO 3 PERCENT SLOPES 100% B

# Map Unit Legend

Tucson-Avra Valley Area, Arizona

Map symbol	Map unit name
MhA	MOHAVE LOAM, 0 TO 1 PERCENT SLOPES
MhB	MOHAVE LOAM, 1 TO 3 PERCENT SLOPES
Mo	MOHAVE CLAY LOAM
MtB	MOHAVE-TRES HERMANOS COMPLEX, 0 TO 3 PERCENT SLOPES
PaB	PALOS VERDES-SONOITA COMPLEX, 0 TO 5 PERCENT SLOPES
Pm	PIMA SILTY CLAY LOAM
PnB	PINALENO GRAVELLY SANDY LOAM, 1 TO 5 PERCENT SLOPES
RdB	RILLITO SANDY LOAM, 1 TO 3 PERCENT SLOPES
ReC	RILLITO GRAVELLY SANDY LOAM, 0 TO 8 PERCENT SLOPES
RtB	RILLITO-TRES HERMANOS COMPLEX, 1 TO 5 PERCENT SLOPES
Ru	RIVERWASH
Rv	ROCK LAND
Rw	ROUGH BROKEN LAND
RxD	ROUGH BROKEN LAND-PALOS VERDES COMPLEX, 0 TO 60 PERCENT SLOPES
SmA	SONOITA SANDY LOAM, 0 TO 1 PERCENT SLOPES
SmB	SONOITA SANDY LOAM, 1 TO 3 PERCENT SLOPES
Sn	SONOITA LOAM
So	SONOITA SANDY CLAY LOAM
Sr	SONOITA SILTY CLAY LOAM
StB	SONOITA-TUBAC COMPLEX, 1 TO 3 PERCENT SLOPES
ThB	TRES HERMANOS GRAVELLY LOAM, 1 TO 3 PERCENT SLOPES
TmB	TRES HERMANOS-MOHAVE COMPLEX, 0 TO 3 PERCENT SLOPES
Tr	TRIX SILTY CLAY LOAM
.s3	TRIX-ESTRELLA COMPLEX, SEVERELY ERODED
TtA	TUBAC SANDY LOAM, 0 TO 1 PERCENT SLOPES
TtB	TUBAC SANDY LOAM, 1 TO 3 PERCENT SLOPES
TuA	TUBAC SANDY CLAY LOAM, 0 TO 1 PERCENT SLOPES
TuB	TUBAC SANDY CLAY LOAM, 1 TO 3 PERCENT SLOPES
Tv2	TUBAC CLAY, ERODED
TwB	TUBAC-TRES HERMANOS GRAVELLY LOAMS, 0 TO 3 PERCENT SLOPES
TxB	TUBAC COMPLEX, 0 TO 5 PERCENT SLOPES
VaA	VALENCIA SANDY LOAM, 0 TO 1 PERCENT SLOPES
VaB	VALENCIA SANDY LOAM, 1 TO 3 PERCENT SLOPES
VcB	VALENCIA-ANTHONY SANDY LOAMS, 1 TO 5 PERCENT SLOPES
VgB	VALENCIA-GRAVELLY ALLUVIAL LAND COMPLEX, 1 TO 5 PERCENT SLOPES
VnB	VALENCIA-SONOITA SANDY LOAMS, 1 TO 5 PERCENT SLOPES
Vo	VEKOL SILTY CLAY LOAM
VsA	VINTON LOAMY SAND, 0 TO 1 PERCENT SLOPES
VsB	VINTON LOAMY SAND, 1 TO 3 PERCENT SLOPES
Vt	VINTON SANDY LOAM
Vu	VINTON-ANTHONY SANDY LOAMS

## Water Features

Tucson-Avra Valley Area, Arizona

Depths of layers are in feet. See text for definitions of terms used in this table. Estimates of the frequency of ponding and flooding apply to the whole y of an entry indicates that the feature is not a concern or that data were not estimated]

Map symbol and soil name	Hydrologic group	Surface runoff	Month	Water table		Ponding	
				Upper limit	Lower limit	Surface depth	Duration
				<i>Ft</i>	<i>Ft</i>	<i>Ft</i>	
Ag: AGUA	B	---	July August September	---	---	---	---
AhA: ANTHONY	B	---	July August September	---	---	---	---
AhB: ANTHONY	B	---	July August September	---	---	---	---
AnA: ANTHONY	B	---	July August September	---	---	---	---
AnB: ANTHONY	B	---	July August September	---	---	---	---
Ao: ANTHONY	B	---	July August September	---	---	---	---
ApB: ANTHONY	B	---	July August September	---	---	---	---
ANTHONY	B	---	July August September	---	---	---	---
AsB: ANTHONY	B	---	July August September	---	---	---	---
SONOITA	B	---	Jan-Dec			---	---

# Water Features

Tucson-Avra Valley Area, Arizona

Map symbol and soil name	Hydrologic group	Surface runoff	Month	Water table		Ponding	
				Upper limit	Lower limit	Surface depth	Duration
				<i>Ft</i>	<i>Ft</i>	<i>Ft</i>	
At:							
ANWAY	B	---	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
Au:							
ANWAY	B	---	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
Aw:							
ANWAY	B	---	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
Az:							
ARIZO	A	---	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
Br:							
BRAZITO	A	---	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
BsB:							
BRAZITO	A	---	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
Bt:							
BRAZITO	A	---	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
CaB:							
CAVE	D	---	Jan-Dec			---	---
CiC:							
CAVE	D	---	Jan-Dec			---	---
RILLITO	B	---	Jan-Dec			---	---
Cm:							
COMORO	B	---	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---

# Water Features

Tucson-Avra Valley Area, Arizona

Map symbol and soil name	Hydrologic group	Surface runoff	Month	Water table		Ponding	
				Upper limit	Lower limit	Surface depth	Duration
				<i>Ft</i>	<i>Ft</i>	<i>Ft</i>	
CnB: COMORO	B	---	July August September	--- --- ---	--- --- ---	--- --- ---	--- --- ---
Co: COMORO	B	---	July August September	--- --- ---	--- --- ---	--- --- ---	--- --- ---
CsA: COWAN	A	---	July August September	--- --- ---	--- --- ---	--- --- ---	--- --- ---
CsB: COWAN	A	---	July August September	--- --- ---	--- --- ---	--- --- ---	--- --- ---
Dt: COWAN	A	---	July August September	--- --- ---	--- --- ---	--- --- ---	--- --- ---
CvB: COWAN	A	---	July August September	--- --- ---	--- --- ---	--- --- ---	--- --- ---
VALENCIA	B	---	July August September	--- --- ---	--- --- ---	--- --- ---	--- --- ---
Es: ESTRELLA	B	---	July August September	--- --- ---	--- --- ---	--- --- ---	--- --- ---
Ga: GILA	B	---	July August September	--- --- ---	--- --- ---	--- --- ---	--- --- ---

# Water Features

Tucson-Avra Valley Area, Arizona

Map symbol and soil name	Hydrologic group	Surface runoff	Month	Water table		Ponding	
				Upper limit	Lower limit	Surface depth	Duration
				<i>Ft</i>	<i>Ft</i>	<i>Ft</i>	
GbA:							
GILA	B	---	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
GbB:							
GILA	B	---	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
Gc:							
GILA	B	---	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
Gd:							
GLENDALE	B	---	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
Ge:							
GLENDALE	B	---	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
Ge3:							
GLENDALE	B	---	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
GgB:							
GRABE	B	---	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
Gh:							
GRABE	B	---	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
GkA:							
GRABE	B	---	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---

# Water Features

Tucson-Avra Valley Area, Arizona

Map symbol and soil name	Hydrologic group	Surface runoff	Month	Water table		Ponding	
				Upper limit	Lower limit	Surface depth	Duration
				<i>Ft</i>	<i>Ft</i>	<i>Ft</i>	
GkB:							
GRABE	B	---	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
Gm:							
GRABE	B	---	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
GoB:							
GRABE	B	---	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
GRABE	B	---	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
Gr:							
GRAVELLY ALLUVIAL LAND	A	---	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
Gu:							
GULLIED LAND	B	---	Jan-Dec			---	---
LaA:							
LAVEEN	B	---	Jan-Dec			---	---
LaB:							
LAVEEN	B	---	Jan-Dec			---	---
LdB:							
LAVEEN	B	---	Jan-Dec			---	---
LeA:							
LAVEEN	B	---	Jan-Dec			---	---
LeB:							
LAVEEN	B	---	Jan-Dec			---	---
LmB:							
LAVEEN	B	---	Jan-Dec			---	---
LAVEEN	B	---	Jan-Dec			---	---

# Water Features

Tucson-Avra Valley Area, Arizona

Map symbol and soil name	Hydrologic group	Surface runoff	Month	Water table		Ponding	
				Upper limit	Lower limit	Surface depth	Duration
				<i>Ft</i>	<i>Ft</i>	<i>Ft</i>	
LrB:							
RILLITO	B	---	Jan-Dec			---	---
LAVEEN	B	---	Jan-Dec			---	---
LAVEEN	B	---	Jan-Dec			---	---
LsB:							
LAVEEN VARIANT	B	---	Jan-Dec			---	---
MdA:							
MOHAVE	B	---	Jan-Dec			---	---
MdB:							
MOHAVE	B	---	Jan-Dec			---	---
MhA:							
MOHAVE	B	---	Jan-Dec			---	---
MhB:							
MOHAVE	B	---	Jan-Dec			---	---
Mo:							
MOHAVE	B	---	Jan-Dec			---	---
MtB:							
MOHAVE	B	---	Jan-Dec			---	---
TRES HERMANOS	B	---	Jan-Dec			---	---
PaB:							
PALOS VERDES	C	---	Jan-Dec			---	---
SONOITA	B	---	Jan-Dec			---	---
Pm:							
PIMA	B	---	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
PnB:							
PINALENO	B	---	Jan-Dec			---	---
RdB:							
RILLITO	B	---	Jan-Dec			---	---

# Water Features

Tucson-Avra Valley Area, Arizona

Map symbol and soil name	Hydrologic group	Surface runoff	Month	Water table		Ponding	
				Upper limit	Lower limit	Surface depth	Duration
				<i>Ft</i>	<i>Ft</i>	<i>Ft</i>	
ReC: RILLITO	B	--	Jan-Dec			--	--
RtB: RILLITO	B	--	Jan-Dec			--	--
TRES HERMANOS	B	--	Jan-Dec			--	--
Ru: RIVERWASH	A	--	January	--	--	--	--
			February	--	--	--	--
			March	--	--	--	--
			April	--	--	--	--
			May	--	--	--	--
			June	--	--	--	--
			July	--	--	--	--
			August	--	--	--	--
			September	--	--	--	--
			October	--	--	--	--
			November	--	--	--	--
			December	--	--	--	--
Rv: ROCK LAND	D	--	Jan-Dec			--	--
Rw: ROUGH BROKEN LAND	C	---	Jan-Dec			--	--
RxD: ROUGH BROKEN LAND	C	---	Jan-Dec			--	--
PALOS VERDES	C	---	Jan-Dec			--	--
SmA: SONOITA	B	---	Jan-Dec			--	--
SmB: SONOITA	B	---	Jan-Dec			--	--
Sn: SONOITA	B	---	Jan-Dec			--	--
So: SONOITA	B	---	Jan-Dec			--	--

# Water Features

Tucson-Avra Valley Area, Arizona

Map symbol and soil name	Hydrologic group	Surface runoff	Month	Water table		Ponding	
				Upper limit	Lower limit	Surface depth	Duration
				<i>Ft</i>	<i>Ft</i>	<i>Ft</i>	
Sr: SONOITA	B	---	Jan-Dec			---	---
StB: SONOITA	B	---	Jan-Dec			---	---
TUBAC	C	---	Jan-Dec			---	---
ThB: TRES HERMANOS	B	---	Jan-Dec			---	---
TmB: TRES HERMANOS	B	---	Jan-Dec			---	---
MOHAVE	B	---	Jan-Dec			---	---
MOHAVE	B	---	Jan-Dec			---	---
Tr: TRIX	B	---	July August September	---	---	---	---
Ts3: TRIX	B	---	July August September	---	---	---	---
ESTRELLA	B	---	July August September	---	---	---	---
TtA: TUBAC	C	---	Jan-Dec			---	---
TtB: TUBAC	C	---	Jan-Dec			---	---
TuA: TUBAC	C	---	Jan-Dec			---	---
TuB: TUBAC	C	---	Jan-Dec			---	---
Tv2: TUBAC	C	---	Jan-Dec			---	---

# Water Features

Tucson-Avra Valley Area, Arizona

Map symbol and soil name	Hydrologic group	Surface runoff	Month	Water table		Ponding	
				Upper limit	Lower limit	Surface depth	Duration
				<i>Ft</i>	<i>Ft</i>	<i>Ft</i>	
<b>TwB:</b>							
TUBAC	C	---	Jan-Dec			---	---
TRES HERMANOS	B	---	Jan-Dec			---	---
<b>TxB:</b>							
LAVEEN	B	---	Jan-Dec			---	---
TUBAC	C	---	Jan-Dec			---	---
<b>VaA:</b>							
VALENCIA	B	---	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
<b>VaB:</b>							
VALENCIA	B	---	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
<b>/cB:</b>							
VALENCIA	B	---	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
ANTHONY	B	---	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
<b>VgB:</b>							
VALENCIA	B	---	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
GRAVELLY ALLUVIAL LAND	A	---	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
<b>VnB:</b>							
VALENCIA	B	---	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
SONOITA	B	---	Jan-Dec			---	---

# Water Features

Tucson-Avra Valley Area, Arizona

Map symbol and soil name	Hydrologic group	Surface runoff	Month	Water table		Ponding	
				Upper limit	Lower limit	Surface depth	Duration
				<i>Ft</i>	<i>Ft</i>	<i>Ft</i>	
Vo: VEKOL	C	---	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
VsA: VINTON	A	---	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
VsB: VINTON	A	---	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
Vt: VINTON	A	---	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
/u: VINTON	A	---	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---
ANTHONY	B	---	July	---	---	---	---
			August	---	---	---	---
			September	---	---	---	---