

USDA NRCS

Natural Resources Conservation Service

Arizona State Headquarters
3003 N. Central Ave.
Suite 800
Phoenix, AZ
85012-2945
Phone: (602)280-8801
Fax: (602)280-8805

Ronald F. Hemmer
Agricultural Economist

Fax



Natural Resources Conservation Service
United States Department of Agriculture
3003 N. Central Ave., Suite 800
Phoenix, AZ 85012

Voice 602/280-8789
Fax 602/280-8795 ron.hemmer@az.usda.gov

To: Seth Fiedler From: _____

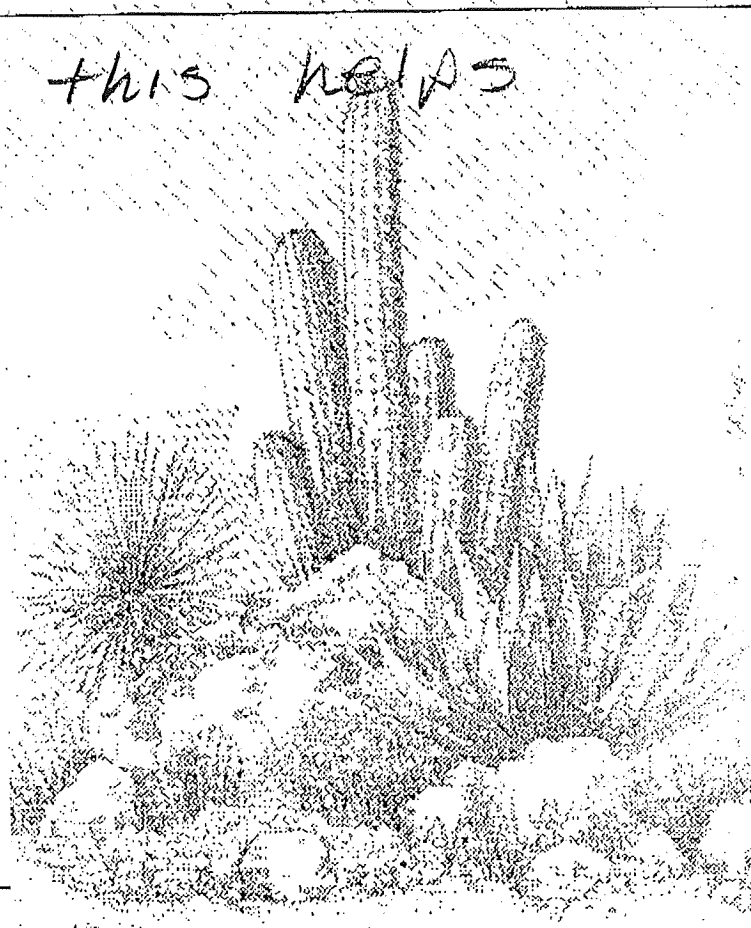
Fax: _____ Pages: _____

Phone: _____ Date: _____

Re: _____ CC: _____

- Urgent
- For Review
- Please Comment
- Please Reply
- Please Recycle

Hope this helps



Appendix Table A-3 - Crop Damage Factors Resulting from Floodwater and Sediment, by Area by Month, SC-SP Type IV Study (Developed by Ron Clark, SCS)

Area and Crop	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
<u>Area I,</u>												
<u>1000-2000 Ft.</u>												
Alfalfa	4	2	7	12	12	12	12	12	7	5	4	4
Barley	25	31	31	51	25	-	-	-	-	-	-	1
Cotton	-	1	12	17	5	10	15	15	21	31	-	-
Grain Sorghum	-	-	-	-	-	25	47	31	31	31	-	-
Lettuce	-	-	-	-	-	-	-	-	-	-	-	-
Early Spring	46	47	32	16	8	-	-	-	-	-	5	44
Late Fall	-	-	-	-	-	-	-	3	52	54	36	19
Safflower	6	65	49	49	49	25	-	-	-	-	-	3
Sugar Beets	12	12	12	12	12	19	18	6	19	47	15	11
<u>Area III,</u>												
<u>2000-3000 Ft.</u>												
Alfalfa	4	4	4	7	12	12	12	12	7	5	4	4
Barley	25	31	31	51	25	-	-	-	-	-	-	1
Cotton	-	-	1	12	17	5	10	15	15	21	31	-
Grain Sorghum	-	-	-	-	25	47	31	31	31	-	-	-
Lettuce	-	-	-	-	-	-	-	-	-	-	-	-
Early Spring	46	47	32	16	8	-	-	-	-	-	5	44
Late Fall	-	-	-	-	-	-	-	3	52	54	36	19
Safflower	6	65	49	49	49	25	-	-	-	-	-	3
Sugar Beets	12	12	12	12	12	19	18	6	19	47	15	11
<u>Area IV,</u>												
<u>3000-4000 Ft.</u>												
Alfalfa	2	2	4	7	12	12	12	12	12	7	5	4
Barley	31	31	31	51	25	-	-	-	-	1	25	31

Appendix Table A-3 - Continued

Area and Crop	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
Cotton	-	-	-	-	12	17	5	10	15	15	21	31
Grain Sorghum	-	-	-	-	25	47	31	31	31	-	-	-
Lettuce	-	-	-	-	-	-	-	-	-	-	-	-
Early Spring	5	44	46	47	32	16	-	-	-	-	-	-
Late Fall	-	-	-	-	-	-	3	52	54	36	36	18
Safflower	49	49	49	25	-	-	-	-	-	3	6	65
Sugar Beets	18	6	19	47	15	11	12	12	12	12	12	19
Peanuts	-	25	31	31	31	31	31	-	-	-	-	-
Chile	-	3	8	10	12	14	16	18	20	-	-	-

Appendix Table A-4. Percent of Floods by Month for Weather Stations in Arizona
(Prepared by Marvin Sheldon, SCS)

Weather Station Name	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Gila	10	7	8	4	1	1	16	22	9	6	6	10
Ajo	11	8	11	4	2	1	14	16	8	6	8	10
Gila Bend	7	6	5	2	1	3	25	26	10	4	4	7
Nogales	8	7	6	4	2	3	19	19	10	5	8	9
Tucson	9	10	8	4	1	2	15	16	10	5	9	11
Casa Grande	11	10	9	4	2	1	14	14	11	6	8	10
Phoenix	12	9	7	5	1	1	13	18	9	6	6	11
Wickenburg	9	8	8	5	2	3	16	20	9	7	5	8
Seligman	10	10	9	6	3	2	14	14	9	8	6	9
Flagstaff	9	7	8	7	2	3	13	18	11	7	6	9
Montezuma	10	10	9	6	3	2	14	14	9	8	6	9
Castle	9	7	8	7	2	3	13	18	11	7	6	9
Globe	10	9	8	4	2	3	17	17	8	6	7	10
Alpine	8	7	7	4	3	4	18	18	11	8	5	7
Clifton	7	8	6	3	2	4	18	19	13	7	5	8
Safford	7	8	7	3	2	3	19	18	11	7	7	8
Willcox	7	8	6	2	2	4	20	22	10	5	6	8
Douglas	6	5	4	2	1	4	27	23	10	6	5	7
Average	9	8	7	4	2	3	(17)	(19)	10	6	6	9

AREA I O K L A I I O N A
DAMAGE TO CROPS BY DEPTH WEIGHTED BY PROBABILITY OF FLOOD

Probability of Flood	Alfalfa		Corn		Soybeans		Pasture		Sudan		Wheat									
	0-1	1-3	0-1	1-3	0-1	1-3	0-1	1-3	0-1	1-3	0-1	1-3								
JANUARY	0.1%	0	2	5	4	11	16	0	0	2	0	1	4	0	0	0	18	29	64	
FEBRUARY	0.1%	2	5	7	4	11	16	0	0	2	0	1	4	0	0	0	18	29	64	
MARCH	0.1%	7	10	20	5	20	29	3	13	17	17	4	8	12	3	10	20	18	29	64
APRIL	3.8%	14	20	30	23	37	46	3	13	17	10	14	18	5	18	25	22	22	36	70
MAY	13.2%	19	28	37	30	44	55	5	22	32	10	13	17	6	23	26	28	28	51	74
JUNE	22.5%	26	30	38	27	46	60	5	22	32	11	13	18	7	29	32	36	64	82	82
JULY	18.1%	10	16	30	21	38	74	22	44	53	11	13	17	16	38	50	0	10	10	20
AUGUST	22.4%	10	16	30	17	31	63	22	44	53	3	4	10	16	38	50	0	1	1	2
SEPTEMBER	12.6%	7	12	25	20	38	70	20	48	59	6	10	20	16	20	22	0	3	3	10
OCTOBER	6.9%	5	10	20	13	35	54	20	48	59	3	8	15	16	20	22	4	4	25	58
NOVEMBER	0.1%	0	8	11	13	25	54	20	48	59	0	1	4	0	0	0	4	4	25	58
DECEMBER	0.1%	0	8	11	13	25	54	0	0	2	0	1	4	0	0	0	4	4	25	58

AVERAGE ANNUAL DAMAGE :	1--	14.2	19.9	22.0	38.7	14.7	35.6	7.8	10.2	12.2	29.5	13.0	26.8	40.5
1--	1--	31.3	62.7	45.1	7.8	10.2	13.9	12.2	29.5	36.1	13.0	26.8	40.5	