Water-Data Report 2008

08164450 Sandy Creek near Ganado, TX

Lavaca Basin
Navidad Subbasin

LOCATION.--Lat 29°09′36″, long 96°32′46″ referenced to North American Datum of 1927, Jackson County, TX, Hydrologic Unit 12100102, on left bank at downstream end of bridge on Farm Road 710, 0.9 mi upstream from Goldenrod Creek, and 8.0 mi north of Ganado.

DRAINAGE AREA.--289 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Oct. 1977 to current year. Prior to Oct. 1997, published as "near Louise".

GAGE.--Water-stage recorder. Datum of gage is 59.72 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records fair. Much of the low flow during the irrigation season (Apr. to Sept.) is drainage from rice fields irrigated by water originally diverted from the Colorado River. No known regulation or diversions. No flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,070 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 17	0230	*2,470	*13.30

08164450 Sandy Creek near Ganado, TX—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	82	15	9.2	0.00	119	25	3.4	1.9	2.2	5.1	25	33
2	101	9.9	7.2	0.00	85	24	3.2	1.3	2.0	5.3	24	30
3	102	8.8	6.6	0.00	77	22	3.8	0.79	3.1	13	26	24
4	90	7.7	6.0	0.00	64	21	3.7	0.48	1.9	15	26	22
5	79	7.6	5.5	0.00	85	20	6.9	0.54	1.9	13	22	21
6	71	6.1	4.4	0.00	123	268	5.0	5.2	1.8	33	23	20
7	68	5.3	3.4	0.00	111	1,080	6.3	12	1.7	46	24	20
8	72	5.6	3.1	0.00	82	347	5.7	8.0	1.6	51	23	22
9	70	4.8	3.1	0.00	53	125	11	6.3	1.5	41	22	22
10	67	4.5	3.0	0.00	47	81	10	7.7	1.4	36	27	24
11	71	4.4	2.6	0.00	208	138	9.7	7.8	5.3	34	27	22
12	87	4.1	3.1	0.00	589	106	5.2	7.1	8.2	43	23	22
13	95	3.6	3.1	0.00	238	58	4.3	6.8	5.8	38	21	27
14	85	3.4	3.0	0.00	132	32	2.9	6.2	6.0	34	20	591
15	101	3.5	3.5	0.00	79	21	4.3	4.9	9.1	27	20	1,120
16	1,240	3.3	6.4	0.00	64	16	3.8	6.0	7.9	27	18	567
17	1,790	1.8	5.4	0.00	371	13	3.0	5.1	5.3	27	25	287
18	1,170	2.9	4.6	0.16	449	12	7.3	3.5	e4.5	27	41	156
19	784	36	3.5	114	220	11	45	3.8	e4.7	37	59	94
20	460	51	2.7	557	140	11	31	4.0	e4.2	38	62	52
21	271	22	1.9	293	504	11	12	5.0	e6.0	42	84	36
22	172	14	1.1	248	499	10	5.6	4.8	e5.1	42	88	28
23	131	10	0.82	544	315	8.9	3.9	2.8	e8.6	36	70	24
24	110	9.7	0.41	601	185	7.4	2.9	2.7	3.9	45	51	24
25	94	205	0.16	519	120	6.2	1.6	5.9	4.0	75	41	25
26	90	141	0.06	369	79	6.8	14	6.8	4.5	82	34	26
27	66	67	0.03	258	61	6.6	61	7.2	5.1	83	30	27
28	47	32	0.04	195	45	5.4	29	6.2	3.4	68	29	28
29	44	19	0.04	238	30	4.5	7.3	5.2	2.5	44	30	25
30	37	13	0.03	227	---	4.2	2.8	4.5	2.8	32	32	22
31	27	---	0.00	148	---	3.7	---	3.5	---	27	36	---
Total	7,774	722.0	93.99	4,311.16	5,174	2,505.7	315.6	154.01	126.0	1,166.4	1,083	3,441
Mean	251	24.1	3.03	139	178	80.8	10.5	4.97	4.20	37.6	34.9	115
Max	1,790	205	9.2	601	589	1,080	61	12	9.1	83	88	1,120
Min	27	1.8	0.00	0.00	30	3.7	1.6	0.48	1.4	5.1	18	20
Ac-ft	15,420	1,430	186	8,550	10,260	4,970	626	305	250	2,310	2,150	6,830

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 2008, BY WATER YEAR (WY)

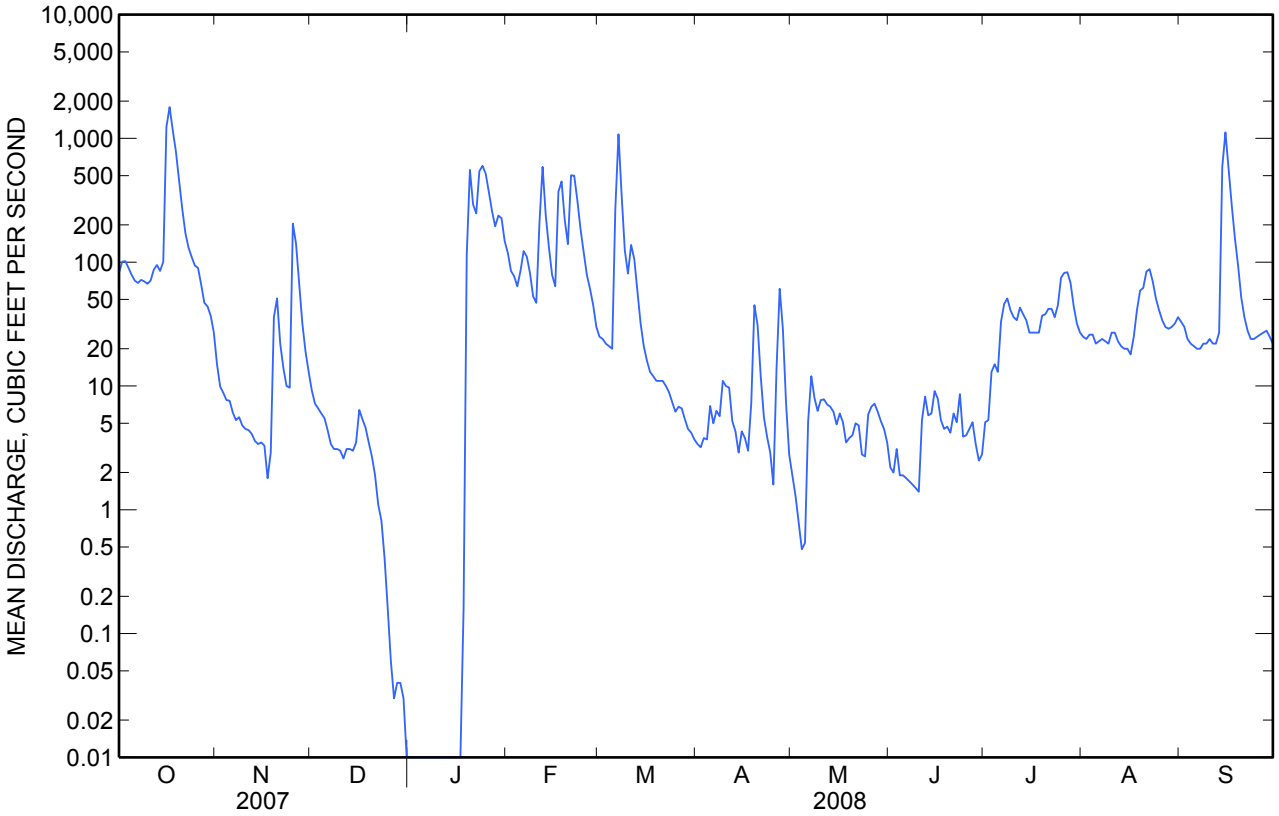
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	331	301	138	246	250	185	198	299	333	195	49.9	245
Max	2,917	2,920	746	956	2,331	1,406	1,316	1,150	1,866	1,376	354	1,364
(WY)	(1999)	(2005)	(1992)	(1992)	(1992)	(1997)	(1997)	(1993)	(1993)	(2007)	(2007)	(1978)
Min	18.6	0.00	0.00	0.02	0.28	0.08	3.14	0.43	0.03	7.25	3.21	11.8
(WY)	(2000)	(2000)	(2000)	(2000)	(1988)	(1996)	(1980)	(2002)	(1990)	(1997)	(1991)	(1988)

08164450 Sandy Creek near Ganado, TX—Continued

SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1978 - 2008	
Annual total	134,258.59		26,866.86			
Annual mean	368		73.4		230	
Highest annual mean					606	1992
Lowest annual mean					51.2	1990
Highest daily mean	5,760	Jul 6	1,790	Oct 17	41,100	Oct 19, 1998
Lowest daily mean	0.00	Dec 31	0.00	Dec 31	0.00	Apr 5, 1978
Annual seven-day minimum	0.05	Dec 25	0.00	Dec 31	0.00	Mar 10, 1980
Maximum peak flow			2,470	Oct 17	63,400	Oct 19, 1998
Maximum peak stage			13.30	Oct 17	[a]32.72	Oct 19, 1998
Annual runoff (ac-ft)	266,300		53,290		166,900	
10 percent exceeds	1,160		161		505	
50 percent exceeds	70		20		23	
90 percent exceeds	4.5		1.7		0.07	

[a] From floodmark.



08164450 Sandy Creek near Ganado, TX—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL DATA: Oct. 1977 to current year.
BIOCHEMICAL DATA: Oct. 1977 to Nov. 1992.
PESTICIDE DATA: Nov. 1977 to July 1981, Apr. 1996 to current year.
SEDIMENT DATA: Sept. 1978 to Apr. 1979.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 1 of 11

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Time	Sample medium and type	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf µS/cm 25 degC (00095)	Temperature, water, deg C (00010)
Apr									
07...	1350	Surface water, regular	8.3	762	7.8	97	7.9	780	26.5
Sep									
30...	1000	Surface water, regular	23	766	7.9	90	8.0	524	22.2

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 11

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Aluminum, water, fltrd, µg/L (01106)	Aluminum, water, unfltrd recoverable, µg/L (01105)	Antimony, water, fltrd, µg/L (01095)	Barium, water, fltrd, µg/L (01005)	Beryllium, water, fltrd, µg/L (01010)	Cadmium water, fltrd, µg/L (01025)	Chromium, water, fltrd, µg/L (01030)	Cobalt water, fltrd, µg/L (01035)	Copper, water, fltrd, µg/L (01040)	Lead, water, fltrd, µg/L (01049)	Manganese, water, fltrd, µg/L (01056)	Molybdenum, water, fltrd, µg/L (01060)	Nickel, water, fltrd, µg/L (01065)
Apr													
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
Sep													
30...	4.7	100	E.10	92	M	E.02	E.10	.27	3.1	.26	13.6	.8	1.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 3 of 11
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Silver, water, fltrd, µg/L (01075)	Zinc, water, fltrd, µg/L (01090)	2,4-D methyl ester, water, fltrd, µg/L (50470)	2,4-D plus 2,4-D methyl ester µg/L as 2,4-D (66496)	2,4-D, water, fltrd, µg/L (39732)	2,4-DB, water, fltrd 0.7u GF µg/L (38746)	2,6-Di-ethyl-aniline water, fltrd 0.7u GF µg/L (82660)	CIAT, water, fltrd, µg/L (04040)	CEAT, water, fltrd, µg/L (04038)	OIET, water, fltrd, µg/L (50355)	3-Hydroxy carbo-furan, wat flt 0.7u GF µg/L (49308)	Aceto-chlor, water, fltrd, µg/L (49260)	Aci-fluor-fen, water, fltrd 0.7u GF µg/L (49315)
Apr													
07...	--	--	<.040	<.02	<.02	<.02	<.002	E.068	E.02	.043	<.040	<.013	<.040
Sep													
30...	<.1	8.0	<.040	<.00	<.02	<.02	<.002	E.009	<.08	E.012	<.040	<.006	<.040

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 4 of 11
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Ala-chlor, water, fltrd, µg/L (46342)	Aldi-carb sulfone water, fltrd 0.7u GF µg/L (49313)	Aldi-carb sulf-oxide, wat flt 0.7u GF µg/L (49314)	Aldi-carb, water, fltrd 0.7u GF µg/L (49312)	alpha-HCH, water, fltrd, µg/L (34253)	Atra-zine, water, fltrd, µg/L (39632)	Azin-phos-methyl, water, fltrd 0.7u GF µg/L (82686)	Bendio-carb, water, fltrd, µg/L (50299)	Ben-flur-alin, water, fltrd 0.7u GF µg/L (82673)	Benomyl water, fltrd, µg/L (50300)	Bensul-furon-methyl, water, fltrd, µg/L (61693)	Ben-tazon, water, fltrd 0.7u GF µg/L (38711)	Broma-cil, water, fltrd, µg/L (04029)
Apr													
07...	.115	<.08	<.060	<.12	<.002	.517	<.120	<.04	<.004	<.040	<.06	<.04	<.02
Sep													
30...	<.006	<.08	<.060	<.12	<.002	.013	<.120	<.04	<.004	<.040	<.06	<.04	<.02

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 5 of 11
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Brom-oxynil, water, fltrd 0.7u GF µg/L (49311)	Butyl-ate, water, fltrd, µg/L (04028)	Caf-feine, water, fltrd, µg/L (50305)	Car-baryl, water, fltrd 0.7u GF µg/L (49310)	Car-baryl, water, fltrd 0.7u GF µg/L (82680)	Carbo-furan, water, fltrd 0.7u GF µg/L (49309)	Carbo-furan, water, fltrd 0.7u GF µg/L (82674)	Chlor-amben methyl ester, water, fltrd, µg/L (61188)	Chlori-muron-ethyl, water, fltrd, µg/L (50306)	Chlor-pyrifos water, fltrd, µg/L (38933)	cis-Per-methrin water fltrd 0.7u GF µg/L (82687)	Clopyr-alid, water, fltrd 0.7u GF µg/L (49305)	Cyana-zine, water, fltrd, µg/L (04041)
Apr													
07...	<.12	<.002	E.032	<.04	<.060	<.020	<.020	<.10	<.080	<.014	<.010	<.06	<.020
Sep													
30...	<.12	<.002	<.060	<.04	<.060	<.020	<.020	<.10	<.080	<.005	<.010	<.06	<.020

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 6 of 11
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Cyclo-ate, water, fltrd, µg/L (04031)	Dacthal mono-acid, water, fltrd 0.7u GF µg/L (49304)	DCPA, water, fltrd 0.7u GF µg/L (82682)	Desulf-inyl-fipro-nil, water, fltrd, µg/L (62170)	Diazi-non, water, fltrd, µg/L (39572)	Dicamba water, fltrd 0.7u GF µg/L (38442)	Di-chlor-prop, water, fltrd 0.7u GF µg/L (49302)	Diel-drin, water, fltrd, µg/L (39381)	Dinoseb water, fltrd 0.7u GF µg/L (49301)	Diphen-amid, water, fltrd, µg/L (04033)	Disul-foton, water, fltrd 0.7u GF µg/L (82677)	Diuron, water, fltrd 0.7u GF µg/L (49300)	EPTC, water, fltrd 0.7u GF µg/L (82668)
Apr													
07...	<.02	<.02	<.003	E.002	<.005	<.04	<.02	<.009	<.04	<.04	<.04	<.04	<.002
Sep													
30...	<.02	<.02	<.003	E.002	<.005	<.04	<.02	<.009	<.04	<.04	<.04	<.04	<.002

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 7 of 11
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Ethal-flur-alin, water, fltrd 0.7u GF µg/L (82663)	Etho-prop, water, fltrd 0.7u GF µg/L (82672)	Fenuron water, fltrd 0.7u GF µg/L (49297)	Desulf-inyl-fipro-nil amide, wat flt µg/L (62169)	Fipro-nil sulfide water, fltrd, µg/L (62167)	Fipro-nil sulfone water, fltrd, µg/L (62168)	Fipro-nil, water, fltrd, µg/L (62166)	Flumet-sulam, water, fltrd, µg/L (61694)	Fluo-meturon water, fltrd 0.7u GF µg/L (38811)	Fonofos water, fltrd, µg/L (04095)	Imaza-quin, water, fltrd, µg/L (50356)	Imaze-thapyr, water, fltrd, µg/L (50407)	Imida-cloprid water, fltrd, µg/L (61695)
Apr													
07...	<.009	<.023	<.04	E.003	E.010	E.006	<.020	<.06	<.04	<.010	<.04	<.04	<.060
Sep													
30...	<.009	<.012	<.04	<.029	E.005	E.004	<.020	<.06	<.04	<.010	<.04	E.01	<.060

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 8 of 11
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Lindane water, fltrd, µg/L (39341)	Linuron water, fltrd 0.7u GF µg/L (38478)	Linuron water, fltrd 0.7u GF µg/L (82666)	Mala-thion, water, fltrd, µg/L (39532)	MCPA, water, fltrd 0.7u GF µg/L (38482)	MCPB, water, fltrd 0.7u GF µg/L (38487)	Meta-laxyl, water, fltrd, µg/L (50359)	Methio-carb, water, fltrd 0.7u GF µg/L (38501)	Meth-omyl, water, fltrd 0.7u GF µg/L (49296)	Methyl para-thion, water, fltrd 0.7u GF µg/L (82667)	Metola-chlor, water, fltrd, µg/L (39415)	Metri-buzin, water, fltrd, µg/L (82630)	Metsul-furon-methyl, water, fltrd, µg/L (61697)
Apr													
07...	<.006	<.02	<.060	<.016	<.06	<.06	.05	<.040	<.120	<.008	.135	<.012	<.14
Sep													
30...	<.006	<.02	<.060	<.016	<.06	<.06	<.02	<.040	<.120	<.008	<.010	<.012	<.14

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 9 of 11
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Molinate, water, fltrd 0.7u GF µg/L (82671)	N-(4-Chlorophenyl)-N'-methylurea, µg/L (61692)	Napropamide, water, fltrd 0.7u GF µg/L (82684)	Neburon water, fltrd 0.7u GF µg/L (49294)	Nicosulfuron, water, fltrd, µg/L (50364)	Norflurazon, water, fltrd 0.7u GF µg/L (49293)	Oryzalin, water, fltrd 0.7u GF µg/L (49292)	Oxamyl, water, fltrd 0.7u GF µg/L (38866)	p,p'-DDE, water, fltrd, µg/L (34653)	Parathion, water, fltrd, µg/L (39542)	Pebulate, water, fltrd 0.7u GF µg/L (82669)	Pendimethalin, water, fltrd 0.7u GF µg/L (82683)	Phorate water, fltrd 0.7u GF µg/L (82664)
Apr													
07...	<.005	<.12	<.018	<.02	<.10	<.02	<.04	<.12	<.003	<.010	<.004	<.012	<.040
Sep													
30...	<.002	<.12	<.018	<.02	<.10	<.02	<.04	<.12	<.003	<.010	<.004	<.012	<.040

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 10 of 11
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Picloram, water, fltrd 0.7u GF µg/L (49291)	Prometon, water, fltrd, µg/L (04037)	Propyzamide, water, fltrd 0.7u GF µg/L (82676)	Propachlor, water, fltrd, µg/L (04024)	Propanil, water, fltrd 0.7u GF µg/L (82679)	Propargite, water, fltrd 0.7u GF µg/L (82685)	Propham water, fltrd 0.7u GF µg/L (49236)	Propiconazole, water, fltrd, µg/L (50471)	Propoxur, water, fltrd 0.7u GF µg/L (38538)	Siduron water, fltrd, µg/L (38548)	Simazine, water, fltrd, µg/L (04035)	Sulfometruron-methyl, water, fltrd, µg/L (50337)	Tebuthiuron water, fltrd 0.7u GF µg/L (82670)
Apr													
07...	<.12	<.01	<.004	<.006	<.011	<.04	<.040	<.04	<.040	<.02	.010	<.060	.03
Sep													
30...	<.12	<.01	<.004	<.006	<.006	<.04	<.040	.12	<.040	<.02	<.006	<.060	<.02

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 11 of 11
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Terbacil, water, fltrd 0.7u GF µg/L (82665)	Terbacil, water, fltrd, µg/L (04032)	Terbufos, water, fltrd 0.7u GF µg/L (82675)	Thiobencarb water, fltrd 0.7u GF µg/L (82681)	Triallate, water, fltrd 0.7u GF µg/L (82678)	Triclopyr, water, fltrd 0.7u GF µg/L (49235)	Trifluralin, water, fltrd 0.7u GF µg/L (82661)	Uranium natural water, fltrd, µg/L (22703)
Apr								
07...	<.018	<.040	<.02	.057	<.006	<.08	<.006	--
Sep								
30...	<.018	<.040	<.02	<.010	<.006	<.08	<.006	.27