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Water-Data Report 2007

**08387600 EAGLE CREEK BELOW SOUTH FORK, NEAR ALTO, NM**

Upper Pecos Basin  
Rio Hondo Subbasin

LOCATION.--Lat 33°23'34.27", long 105°43'24.04" referenced to North American Datum of 1983, Lincoln County, NM, Hydrologic Unit 13060008, in Lincoln National Forest on right bank 300 ft upstream from culvert under State Road 532, 400 ft downstream from South Fork, and 2.5 mi west of Alto. Mouth at Rio Ruidoso mi 11.3.

DRAINAGE AREA.--8.14 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--August 1969 to December 1980, April 1988 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,600 ft above NGVD of 1929, from topographic map. Aug. 26, 1969, to Dec. 31, 1980, at site 360 ft downstream at datum 6.0 ft higher.

REMARKS.--Records fair, except those for above 66 cfs and estimated daily discharges, which are poor. No diversions for irrigation upstream from station. Some water is stored in small unregulated recreational ponds on the Mescalero Apache Reservation upstream.

**08387600 EAGLE CREEK BELOW SOUTH FORK, NEAR ALTO, NM—Continued**

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**  
**DAILY MEAN VALUES**  
[*e*, estimated]

<b>Day</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>1</b>	3.4	3.7	e1.4	e1.2	0.68	3.2	4.8	3.9	2.4	1.5	0.38	0.16
<b>2</b>	3.0	3.5	e1.2	e1.1	0.68	3.1	4.0	6.4	2.3	1.3	0.37	0.12
<b>3</b>	3.4	3.2	e1.2	0.85	0.68	2.7	3.5	6.0	2.3	1.1	0.32	0.08
<b>4</b>	3.8	3.0	e1.2	0.80	0.70	2.5	3.1	5.2	2.2	0.99	0.26	0.05
<b>5</b>	3.5	2.9	e1.8	e0.75	0.75	2.4	3.1	4.6	2.0	1.1	0.19	0.05
<b>6</b>	3.3	2.9	2.1	e0.70	1.1	2.3	3.3	4.1	1.9	1.1	0.12	0.05
<b>7</b>	2.8	2.6	2.1	e0.64	1.4	2.4	3.8	3.5	1.8	1.8	0.17	0.05
<b>8</b>	3.1	2.5	2.0	0.62	1.4	2.6	4.6	3.3	1.7	1.5	0.24	0.86
<b>9</b>	9.2	2.5	2.0	0.59	1.5	2.9	5.1	3.0	1.7	1.2	1.3	1.7
<b>10</b>	23	2.5	2.0	0.55	1.5	3.3	4.8	2.7	2.0	0.99	0.75	2.0
<b>11</b>	18	2.3	2.0	0.90	1.6	3.8	4.0	2.5	1.9	0.89	0.49	e1.4
<b>12</b>	14	2.3	2.0	1.2	3.7	4.5	3.7	2.4	1.8	1.3	0.38	0.76
<b>13</b>	12	2.3	1.9	1.3	4.2	4.8	3.8	2.3	1.7	1.3	0.32	0.68
<b>14</b>	12	2.3	1.8	0.83	3.5	4.8	3.6	2.3	1.5	1.1	0.28	0.80
<b>15</b>	13	2.2	1.8	e0.67	3.0	5.1	3.2	2.3	1.5	0.87	0.24	0.82
<b>16</b>	14	2.1	1.8	e0.62	3.1	6.0	2.9	2.4	1.5	0.75	0.20	0.79
<b>17</b>	14	2.1	1.7	e0.64	3.2	7.0	2.7	3.5	1.5	0.66	0.17	0.71
<b>18</b>	14	2.0	1.7	0.60	2.8	7.6	2.7	5.7	1.4	0.59	0.15	0.63
<b>19</b>	12	1.9	1.7	0.62	2.6	7.8	2.7	7.6	1.3	0.56	0.14	0.54
<b>20</b>	11	1.8	e1.7	0.62	2.6	7.4	2.7	7.8	1.3	0.53	0.12	0.50
<b>21</b>	11	1.7	e1.7	0.67	2.7	7.0	2.7	e8.0	1.3	0.52	0.09	0.46
<b>22</b>	9.8	1.7	e1.6	0.69	2.8	7.0	2.7	e7.0	1.2	0.52	0.12	0.39
<b>23</b>	9.0	1.7	e1.7	0.68	3.1	7.7	2.7	e6.0	1.2	0.45	0.12	0.41
<b>24</b>	8.1	1.6	e1.5	0.68	3.3	7.2	2.7	e5.0	1.1	0.43	0.09	0.47
<b>25</b>	7.0	1.5	e1.4	0.68	3.4	6.5	2.6	e4.5	1.0	0.39	0.12	0.39
<b>26</b>	6.6	1.4	1.4	0.68	3.5	6.0	2.4	3.7	0.91	0.34	0.09	0.32
<b>27</b>	6.0	1.5	e1.4	0.68	3.6	5.6	2.3	3.3	0.79	0.35	0.07	0.30
<b>28</b>	5.5	1.5	e1.4	0.72	3.6	5.6	2.2	3.0	0.82	0.40	0.06	0.29
<b>29</b>	4.9	1.4	e1.3	0.69	---	5.5	2.4	2.8	0.77	0.46	0.07	0.31
<b>30</b>	5.3	e1.4	e1.4	0.68	---	5.4	2.7	2.6	0.71	0.50	0.09	0.35
<b>31</b>	4.3	---	e1.3	0.68	---	5.3	---	2.5	---	0.46	0.13	---
<b>Total</b>	270.0	66.0	51.2	23.33	66.69	155.0	97.5	129.9	45.50	25.95	7.64	16.44
<b>Mean</b>	8.71	2.20	1.65	0.75	2.38	5.00	3.25	4.19	1.52	0.84	0.25	0.55
<b>Max</b>	23	3.7	2.1	1.3	4.2	7.8	5.1	8.0	2.4	1.8	1.3	2.0
<b>Min</b>	2.8	1.4	1.2	0.55	0.68	2.3	2.2	2.3	0.71	0.34	0.06	0.05
<b>Ac-ft</b>	536	131	102	46	132	307	193	258	90	51	15	33

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2007, BY WATER YEAR (WY)**

	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>Mean</b>	2.07	1.50	1.58	1.27	1.82	3.19	4.11	3.32	1.10	1.56	3.20	3.20
<b>Max</b>	14.4	17.3	19.5	7.89	8.19	10.6	14.0	15.8	5.94	5.50	16.3	13.2
(WY)	(1975)	(1979)	(1979)	(1979)	(1979)	(1979)	(1973)	(1973)	(1979)	(1990)	(1988)	(2006)
<b>Min</b>	0.00	0.01	0.00	0.05	0.07	0.05	0.01	0.00	0.00	0.00	0.00	0.04
(WY)	(2004)	(2004)	(2004)	(2002)	(2000)	(2006)	(2006)	(1996)	(2003)	(2003)	(2003)	(2003)

**08387600 EAGLE CREEK BELOW SOUTH FORK, NEAR ALTO, NM—Continued****SUMMARY STATISTICS**

	<b>Calendar Year 2006</b>	<b>Water Year 2007</b>	<b>Water Years 1970 - 2007</b>	
<b>Annual total</b>	989.14	955.15		
<b>Annual mean</b>	2.71	2.62	2.28	
<b>Highest annual mean</b>			8.48	1979
<b>Lowest annual mean</b>			0.14	2002
<b>Highest daily mean</b>	87	Sep 4	23	Oct 10
<b>Lowest daily mean</b>	0.00	Feb 16	0.05	Sep 4
<b>Annual seven-day minimum</b>	0.00	Mar 9	0.08	Sep 1
<b>Maximum peak flow</b>			31	Oct 10
<b>Maximum peak stage</b>			7.44	Sep 9
<b>Instantaneous low flow</b>			0.05	Aug 21
<b>Annual runoff (ac-ft)</b>	1,960	1,890	1,650	
<b>10 percent exceeds</b>	8.8	6.0	6.0	
<b>50 percent exceeds</b>	0.17	1.8	0.84	
<b>90 percent exceeds</b>	0.00	0.33	0.06	

<sup>a</sup> From rating curve extended above 40 ft<sup>3</sup>/s.

