Water-Data Report 2010

01343900 HINCKLEY RESERVOIR AT HINCKLEY, NY

Upper Hudson Basin
Mohawk Subbasin

LOCATION.--Lat 43°18′41″, long 75°06′30″ referenced to North American Datum of 1927, Oneida County, NY, Hydrologic Unit 02020004, on south side of north gatehouse at Hinckley Dam on West Canada Creek at Hinckley, and 2.2 mi east of Prospect.

DRAINAGE AREA.--372 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--March 1914 to current year. Prior to October 2007, published month-end contents only. In 2008 water year, daily values for April 1996 through September 2008 published.

REVISED RECORDS.--WDR NY-85-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is Barge Canal datum. To convert elevations to NGVD of 1929, subtract 1.04 ft.

REMARKS.--Reservoir is formed by earth and concrete dam; storage began March 1914. Usable capacity 3,320 mil ft^3 between elevation 1,173.5 and 1,225.0 ft. Elevation of inverts of four 60-inch discharge pipes at north end of spillway is 1,169.5 ft, and elevation of inverts of two 42-inch pipes at south end for diverting water to city of Utica is 1,164.25 ft. Crest of ogee spillway is at elevation 1,225.0 ft. Length of spillway is 400 ft. Area of water surface at crest elevation is 4.46 mi^2. Diversion for municipal supply of Utica began prior to 1921. Diversion records (01343899) provided by Mohawk Valley Water Authority. Satellite and telephone gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 4,041 mil ft^3, Oct. 2, 1945, elevation, 1,230.2 ft; minimum contents observed, 25 mil ft^3, Nov. 17, 1964, elevation, 1,174.9 ft (from Report to the Governor by the Hinckley Reservoir Working Group, 2008).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 3,498 mil ft^3, June 29, 30, elevation, 1,226.36 ft; minimum contents, 406 mil ft^3, Mar. 12, elevation, 1,187.50 ft.

Capacity table
(elevation, in feet, and contents in millions of cubic feet)

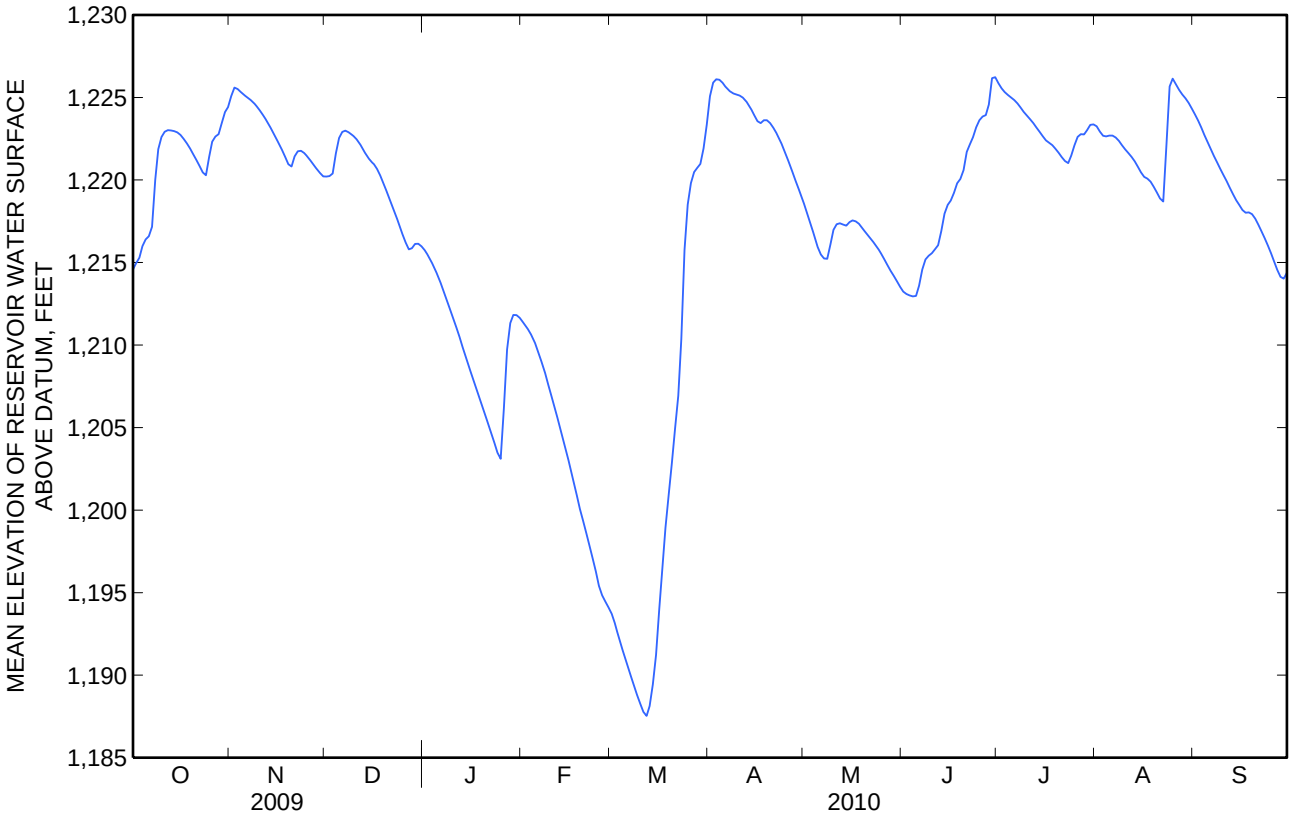
1,173.5	0.00	1,205.0	1,440
1,175.0	27.0	1,215.0	2,260
1,185.0	306	1,225.0	3,320
1,195.0	787	1,230.0	4,010

01343900 HINCKLEY RESERVOIR AT HINCKLEY, NY—Continued

ELEVATION OF RESERVOIR WATER SURFACE ABOVE DATUM, FEET
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,214.59	1,225.09	1,220.21	1,215.75	1,211.39	1,193.72	1,225.08	1,218.39	1,213.24	1,225.86	1,223.25	1,223.98
2	1,214.97	1,225.60	1,220.24	1,215.47	1,211.12	1,193.17	1,225.90	1,217.82	1,213.10	1,225.55	1,222.93	1,223.60
3	1,215.30	1,225.51	1,220.39	1,215.12	1,210.83	1,192.52	1,226.10	1,217.18	1,213.01	1,225.33	1,222.68	1,223.18
4	1,215.99	1,225.33	1,221.62	1,214.71	1,210.48	1,191.80	1,226.07	1,216.54	1,212.95	1,225.15	1,222.64	1,222.73
5	1,216.40	1,225.16	1,222.55	1,214.25	1,210.04	1,191.13	1,225.89	1,215.95	1,212.98	1,225.00	1,222.69	1,222.30
6	1,216.60	1,225.02	1,222.91	1,213.77	1,209.49	1,190.60	1,225.64	1,215.49	1,213.60	1,224.84	1,222.69	1,221.88
7	1,217.17	1,224.87	1,222.99	1,213.26	1,208.91	1,190.01	1,225.43	1,215.25	1,214.58	1,224.64	1,222.58	1,221.45
8	1,220.01	1,224.68	1,222.90	1,212.73	1,208.30	1,189.41	1,225.27	1,215.23	1,215.19	1,224.40	1,222.37	1,221.06
9	1,221.87	1,224.46	1,222.75	1,212.19	1,207.61	1,188.82	1,225.20	1,216.10	1,215.41	1,224.13	1,222.11	1,220.67
10	1,222.60	1,224.22	1,222.58	1,211.62	1,206.92	1,188.28	1,225.15	1,216.98	1,215.57	1,223.90	1,221.86	1,220.31
11	1,222.92	1,223.94	1,222.36	1,211.07	1,206.22	1,187.78	1,225.04	1,217.32	1,215.80	1,223.68	1,221.64	1,219.94
12	1,223.02	1,223.64	1,222.04	1,210.49	1,205.51	1,187.54	1,224.86	1,217.38	1,216.05	1,223.45	1,221.40	1,219.53
13	1,223.00	1,223.30	1,221.71	1,209.88	1,204.78	1,188.14	1,224.61	1,217.30	1,216.91	1,223.19	1,221.13	1,219.14
14	1,222.96	1,222.94	1,221.41	1,209.25	1,204.07	1,189.45	1,224.29	1,217.24	1,217.96	1,222.92	1,220.81	1,218.78
15	1,222.89	1,222.58	1,221.16	1,208.66	1,203.33	1,191.23	1,223.92	1,217.45	1,218.49	1,222.65	1,220.46	1,218.49
16	1,222.73	1,222.22	1,220.96	1,208.11	1,202.52	1,193.99	1,223.56	1,217.55	1,218.76	1,222.40	1,220.19	1,218.18
17	1,222.49	1,221.83	1,220.68	1,207.54	1,201.71	1,196.53	1,223.45	1,217.50	1,219.22	1,222.26	1,220.08	1,218.02
18	1,222.22	1,221.40	1,220.28	1,206.98	1,200.89	1,198.94	1,223.62	1,217.35	1,219.80	1,222.11	1,219.90	1,218.04
19	1,221.91	1,220.96	1,219.81	1,206.40	1,200.08	1,200.92	1,223.62	1,217.12	1,220.06	1,221.90	1,219.60	1,217.93
20	1,221.57	1,220.82	1,219.29	1,205.83	1,199.36	1,202.86	1,223.45	1,216.85	1,220.60	1,221.65	1,219.25	1,217.66
21	1,221.22	1,221.43	1,218.81	1,205.23	1,198.62	1,204.95	1,223.17	1,216.60	1,221.70	1,221.38	1,218.88	1,217.30
22	1,220.85	1,221.74	1,218.34	1,204.64	1,197.85	1,206.93	1,222.83	1,216.39	1,222.15	1,221.15	1,218.70	1,216.90
23	1,220.46	1,221.77	1,217.81	1,204.07	1,197.07	1,210.36	1,222.44	1,216.14	1,222.59	1,221.02	1,222.12	1,216.48
24	1,220.29	1,221.63	1,217.26	1,203.48	1,196.28	1,215.76	1,222.00	1,215.84	1,223.20	1,221.48	1,225.67	1,216.03
25	1,221.40	1,221.41	1,216.72	1,203.11	1,195.42	1,218.51	1,221.52	1,215.54	1,223.62	1,222.10	1,226.14	1,215.56
26	1,222.32	1,221.18	1,216.22	1,206.17	1,194.85	1,219.81	1,221.03	1,215.21	1,223.84	1,222.61	1,225.80	1,215.06
27	1,222.63	1,220.93	1,215.80	1,209.73	1,194.47	1,220.48	1,220.50	1,214.85	1,223.93	1,222.78	1,225.46	1,214.55
28	1,222.78	1,220.66	1,215.87	1,211.33	1,194.11	1,220.74	1,219.96	1,214.50	1,224.57	1,222.76	1,225.18	1,214.13
29	1,223.46	1,220.42	1,216.13	1,211.83	---	1,220.98	1,219.44	1,214.19	1,226.17	1,223.02	1,224.95	1,214.03
30	1,224.12	1,220.22	1,216.14	1,211.82	---	1,221.92	1,218.90	1,213.86	1,226.23	1,223.34	1,224.67	1,214.39
31	1,224.42	---	1,215.98	1,211.65	---	1,223.35	---	1,213.52	---	1,223.37	1,224.34	---
Mean	1,220.81	1,222.83	1,219.80	1,209.88	1,203.29	1,200.99	1,223.60	1,216.28	1,218.71	1,223.23	1,222.33	1,218.71
Max	1,224.42	1,225.60	1,222.99	1,215.75	1,211.39	1,223.35	1,226.10	1,218.39	1,226.23	1,225.86	1,226.14	1,223.98
Min	1,214.59	1,220.22	1,215.80	1,203.11	1,194.11	1,187.54	1,218.90	1,213.52	1,212.95	1,221.02	1,218.70	1,214.03
†	3272	2770	2339	1954	728	3235	2613	2116	3455	3123	3219	2293
††	+404	-194	-161	-144	-507	+936	-240	-186	+517	-124	+35.8	-357
†††	28.0	28.3	30.5	30.3	30.0	30.0	28.5	28.9	29.2	31.9	28.8	29.6

	Calendar Year 2009	Water Year 2010
Mean	--	1,216.77
Max	1,227.43	1,226.23
Min	1,197.96	1,187.54
††	-33.5	+3.23
†††	29.6	29.5

† Contents, in million of cubic feet, at 2400 hours on last day of month.
†† Change in contents, equivalent in cubic feet per second.
††† Diversion (01343899), in cubic feet per second.

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