



Water-Data Report 2010

01366400 RONDOUT RESERVOIR AT LACKAWACK, NY

Upper Hudson Basin
Rondout Subbasin

LOCATION.--Lat 41°47'57", long 74°25'48" referenced to North American Datum of 1927, Ulster County, NY, Hydrologic Unit 02020007, at release chamber at Merriman Dam on Rondout Creek, 1.1 mi upstream from Brandy Brook, and 1.3 mi northwest of Lackawack.

DRAINAGE AREA.--95.4 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (levels by Board of Water Supply, City of New York).

REMARKS.--Reservoir is formed by an earthfill rockfaced dam; storage began May 10, 1951. Initial filling (to crest of spillway) Mar. 28, 1955. Usable capacity 50,048 mil gal between minimum operating level, elevation 720.00 ft, and crest of spillway, elevation 840.00 ft. Dead storage below elevation 720.00 ft, 2,387 mil gal. Figures given herein represent total contents. Reservoir impounds water from Rondout Creek; water diverted from Cannonsville Reservoir in the Delaware River basin through West Delaware Tunnel; water diverted from Pepacton Reservoir through East Delaware Tunnel; and water diverted from Neversink Reservoir through Neversink-Grahamsville Tunnel. Water is diverted (01366399) from Rondout Reservoir for New York City water supply through West Branch Tunnel of Delaware Aqueduct. Diversion began April 1944 by means of temporary emergency connection to aqueduct. Elevation is an instantaneous reading on first day of following month. Records provided by New York City Department of Environmental Protection.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 54,346 mil gal, Apr. 3, 2005, elevation, 842.77 ft; minimum contents observed (after initial filling), 8,335 mil gal, Oct. 15, 1957, elevation, 748.75 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 51,924 mil gal, June 1, elevation, 839.25 ft; minimum contents observed, 44,297 mil gal, Jan. 13, elevation, 827.58 ft.

MONTH-END ELEVATION AND CONTENTS, AND MONTHLY DIVERSION

WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Date	Elevation (feet) *	Contents (million gallons)	Change in Contents (equivalent in ft ³ /s)	01366399 Monthly Diversion (in ft ³ /s)
Sept. 30	832.83	47,654		
Oct. 31	831.68	46,910	-37.1	1,041
Nov. 30	830.96	46,444	-24.0	745
Dec. 31	834.71	48,888	+122	652
CAL YR 2009	--	--	-0.1	971
Jan. 31	832.87	47,680	-60.3	607
Feb. 28	834.75	48,914	+68.2	1,011
Mar. 31	838.53	51,436	+126	1,019
Apr. 30	838.44	51,375	-3.1	1,213
May 31	839.25	51,924	+27.4	947
June 30	838.18	51,200	-37.3	1,048
July 31	838.22	51,226	+1.3	1,097
Aug. 31	836.27	49,920	-65.2	1,273
Sept. 30	837.58	50,797	+45.2	1,093
WTR YR 2010	--	--	+13.3	978

* Elevation is an instantaneous reading on first day of following month.

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--

PESTICIDE DATA: 1999-2010 (b).

REMARKS.--For many of the samples collected, analysis was performed using multiple analytical methods. When these methods share one or more compounds, separate tables are provided so that each compound can be presented.

WATER-QUALITY DATA

WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 1 of 7

[µg/L, micrograms per liter; WB, Untreated water supply; <, less than; E, estimated]

Date	Sample start time	Medium code	Sampling method (82398)	1-Naphthol,	2,6-Diethyl-	2-Chloro-	2-Chloro-4-	2-Ethyl-6-	3,4-
				water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49295)	aniline, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82660)	2',6'-diethylacetanilide, water, filtered, recoverable, µg/L (61618)	isopropyl-amino-6-triazine, water, filtered, recoverable, µg/L (04040)	methyl-aniline, water, filtered, recoverable, µg/L (61620)	Dichloro-aniline, water, filtered, recoverable, µg/L (61625)
05-17-2010	0900	WB	Grab smp tap wat sup	< .04	< .006	< .010	< .014	< .010	< .004
07-19-2010	0800	WB	Grab smp tap wat sup	< .04	< .006	< .010	E .006	< .010	< .004
09-20-2010	0730	WB	Grab smp tap wat sup	< .04	< .006	< .010	E .008	< .010	< .004

WATER-QUALITY DATA

WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

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[µg/L, micrograms per liter; WB, Untreated water supply; <, less than; E, estimated]

Date	4-Chloro-2-	Aceto-	Alachlor,	Atrazine,	Azinphos-	Azinphos-	Benfluralin,	Carbaryl,	Chlorpyrifos
	methyl-phenol, water, filtered, recoverable, µg/L (61633)	chlor, water, filtered, recoverable, µg/L (49260)	water, filtered, recoverable, µg/L (46342)	water, filtered, recoverable, µg/L (39632)	methyl oxygen analog, water, filtered, recoverable, µg/L (61635)	methyl, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82686)	water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82673)	water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82680)	oxygen analog, water, filtered, recoverable, µg/L (61636)
05-17-2010	< .003	< .010	< .008	< .007	< .04	< .120	< .014	< .060	< .05
07-19-2010	< .003	< .010	< .008	E .007	< .04	< .120	< .014	< .060	< .05
09-20-2010	< .003	< .010	< .008	E .007	< .04	< .120	< .014	< .060	< .05

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WATER-QUALITY DATA
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[µg/L, micrograms per liter; WB, Untreated water supply; <, less than; E, estimated]

Date	Chlorpyrifos, water, filtered, recoverable, µg/L (38933)	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82687)	Cyfluthrin, water, filtered, recoverable, µg/L (61585)	Cypermethrin, water, filtered, recoverable, µg/L (61586)	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82682)	Desulfinyl-fipronil amide, water, filtered, recoverable, µg/L (62169)	Desulfinyl-fipronil, water, filtered, recoverable, µg/L (62170)	Diazinon, water, filtered, recoverable, µg/L (39572)	Dichlorvos, water, filtered, recoverable, µg/L (38775)	Dicrotophos, water, filtered, recoverable, µg/L (38454)
05-17-2010	< .010	< .014	< .016	< .020	< .008	< .029	< .012	< .005	< .02	< .08
07-19-2010	< .010	< .014	< .016	< .020	< .008	< .029	< .012	< .005	< .02	< .08
09-20-2010	< .010	< .014	< .016	< .020	< .008	< .029	< .012	< .005	< .02	< .08

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

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[µg/L, micrograms per liter; WB, Untreated water supply; <, less than; E, estimated]

Date	Dieldrin, water, filtered, recoverable, µg/L (39381)	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82662)	Ethion monoxon, water, filtered, recoverable, µg/L (61644)	Ethion, water, filtered, recoverable, µg/L (82346)	Fenamiphos sulfone, water, filtered, recoverable, µg/L (61645)	Fenamiphos sulfoxide, water, filtered, recoverable, µg/L (61646)	Fenamiphos, water, filtered, recoverable, µg/L (61591)	Fipronil sulfide, water, filtered, recoverable, µg/L (62167)	Fipronil sulfone, water, filtered, recoverable, µg/L (62168)	Fipronil, water, filtered, recoverable, µg/L (62166)
05-17-2010	< .009	< .006	< .02	< .008	< .053	< .08	< .03	< .013	< .024	< .018
07-19-2010	< .009	< .006	< .02	< .008	< .053	< .08	< .03	< .013	< .024	< .018
09-20-2010	< .009	< .006	< .02	< .008	< .053	< .08	< .03	< .013	< .024	< .018

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WATER-QUALITY DATA
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[µg/L, micrograms per liter; WB, Untreated water supply; <, less than; E, estimated]

Date	Fonofos, water, filtered, recover- able, µg/L (04095)	Hexa- zinone, water, filtered, recover- able, µg/L (04025)	Iprodione, water, filtered, recover- able, µg/L (61593)	Isofen- phos, water, filtered, recover- able, µg/L (61594)	Malaoxon, water, filtered, recover- able, µg/L (61652)	Malathion, water, filtered, recover- able, µg/L (39532)	Metalaxyl, water, filtered, recover- able, µg/L (61596)	Methida- thion, water, filtered, recover- able, µg/L (61598)	Methyl paraoxon, water, filtered, recover- able, µg/L (61664)	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82667)
05-17-2010	< .004	< .008	< .014	< .006	< .080	< .016	< .007	< .006	< .01	< .008
07-19-2010	< .004	< .008	< .014	< .006	< .080	< .016	< .008	< .006	< .01	< .008
09-20-2010	< .004	< .008	< .014	< .006	< .080	< .016	< .007	< .006	< .01	< .008

WATER-QUALITY DATA
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[µg/L, micrograms per liter; WB, Untreated water supply; <, less than; E, estimated]

Date	Metola- chlor, water, filtered, recover- able, µg/L (39415)	Metribuzin , water, filtered, recover- able, µg/L (82630)	Myclo- butanil, water, filtered, recover- able, µg/L (61599)	Pendi- methalin, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82683)	Phorate oxygen analog, water, filtered, recover- able, µg/L (61666)	Phorate, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82664)	Phosmet oxygen analog, water, filtered, recover- able, µg/L (61668)	Phosmet, water, filtered, recover- able, µg/L (61601)	Prometon, water, filtered, recover- able, µg/L (04037)	Prometryn, water, filtered, recover- able, µg/L (04036)
05-17-2010	< .014	< .012	< .010	< .012	< .03	< .020	< .05	< .034	< .01	< .006
07-19-2010	E .008	< .012	< .010	< .012	< .03	< .020	< .05	< .034	< .01	< .006
09-20-2010	.008	< .012	< .010	< .012	< .03	< .020	< .05	< .034	< .01	< .006

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WATER-QUALITY DATA
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[µg/L, micrograms per liter; WB, Untreated water supply; <, less than; E, estimated]

Date	Propyz- amide, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82676)	Simazine, water, filtered, recover- able, µg/L (04035)	Tebu- thiuron, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82670)	Terbufos oxygen analog sulfone, water, filtered, recover- able, µg/L (61674)	Terbufos, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82675)	Terbuthyl- azine, water, filtered, recover- able, µg/L (04022)	Tribuphos, water, filtered, recover- able, µg/L (61610)	Trifluralin, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82661)
05-17-2010	< .004	< .006	< .03	< .04	< .02	< .01	< .018	< .018
07-19-2010	< .004	E .006	< .03	< .04	< .02	< .01	< .018	< .018
09-20-2010	< .004	< .006	< .03	< .04	< .02	< .01	< .018	< .018

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

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[µg/L, micrograms per liter; WB, Untreated water supply; <, less than]

Date	Sample start time	Medium code	Sampling method (82398)	2,4-D methyl ester, water, filtered, recover- able, µg/L (50470)	2,4-D, water, filtered, recover- able, µg/L (39732)	2,4-DB, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (38746)	2-Chloro-4- isopropyl- amino-6- triazine, water, filtered, recover- able, µg/L (04040)	2-Chloro-6- ethyl- amino-4- triazine, water, filtered, recover- able, µg/L (04038)	2-Hydroxy- 4-iso- propyl- amino-6- ethyl- amino-s- triazine, water, filtered, recover- able, µg/L (50355)
07-19-2010	0805	WB	Grab smp tap wat sup	< .200	< .06	< .02	< .06	< .06	< .060

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WATER-QUALITY DATA
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[µg/L, micrograms per liter; WB, Untreated water supply; <, less than]

Date	3-Hydroxy carbo- furan, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49308)	Acifluor- fen, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49315)	Aldicarb sulfone, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49313)	Aldicarb sulfoxide, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49314)	Aldicarb, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49312)	Atrazine, water, filtered, recover- able, µg/L (39632)	Bendio- carb, water, filtered, recover- able, µg/L (50299)	Benomyl, water, filtered, recover- able, µg/L (50300)	Ben- sulfuron- methyl, water, filtered, recover- able, µg/L (61693)	Bentazon, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (38711)
07-19-2010	< .040	< .040	< .08	< .060	< .12	< .040	< .04	< .060	< .06	< .06

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[µg/L, micrograms per liter; WB, Untreated water supply; <, less than]

Date	Bromacil, water, filtered, recover- able, µg/L (04029)	Brom- oxynil, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49311)	Carbaryl, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49310)	Carbo- furan, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49309)	Chlor- amben methyl ester, water, filtered, recover- able, µg/L (61188)	Chlori- muron- ethyl, water, filtered, recover- able, µg/L (50306)	Clopyralid, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49305)	Cycloate, water, filtered, recover- able, µg/L (04031)	Dacthal monoacid, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49304)	Dicamba, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (38442)
07-19-2010	< .06	< .12	< .04	< .040	< .10	< .080	< .06	< .04	< .04	< .04

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WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

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[µg/L, micrograms per liter; WB, Untreated water supply; <, less than]

Date	Dichlor- prop, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49302)	Dinoseb, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49301)	Di- phenamid, water, filtered, recover- able, µg/L (04033)	Diuron, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49300)	Fenuron, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49297)	Flumet- sulam, water, filtered, recover- able, µg/L (61694)	Fluome- turon, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (38811)	Imazaquin, water, filtered, recover- able, µg/L (50356)	Imaze- thapyr, water, filtered, recover- able, µg/L (50407)	Imi- dacroprid, water, filtered, recover- able, µg/L (61695)
07-19-2010	< .04	< .04	< .04	< .04	< .06	< .06	< .04	< .06	< .06	< .060

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WATER-QUALITY DATA
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[µg/L, micrograms per liter; WB, Untreated water supply; <, less than]

Date	Linuron, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (38478)	MCPA, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (38482)	MCPB, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (38487)	Metalaxyl, water, filtered, recover- able, µg/L (50359)	Methio- carb, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (38501)	Methomyl, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49296)	Metsul- furon- methyl, water, filtered, recover- able, µg/L (61697)	N-(4- Chloro- phenyl)- N'-methyl- urea, water, filtered, recover- able, µg/L (61692)	Neburon, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49294)	Nico- sulfuron, water, filtered, recover- able, µg/L (50364)
07-19-2010	< .04	< .04	< .20	< .04	< .040	< .120	< .14	< .06	< .02	< .10

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[µg/L, micrograms per liter; WB, Untreated water supply; <, less than]

Date	Nor- flurazon, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49293)	Oryzalin, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49292)	Oxamyl, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (38866)	Picloram, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49291)	Propam, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49236)	Propicon- azole, water, filtered, recover- able, µg/L (50471)	Propoxur, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (38538)	Siduron, water, filtered, recover- able, µg/L (38548)	Sulfo- meturon- methyl, water, filtered, recover- able, µg/L (50337)	Tebu- thiuron, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82670)
07-19-2010	< .04	< .04	< .12	< .12	< .040	< .04	< .060	< .04	< .060	< .060

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[µg/L, micrograms per liter; WB, Untreated water supply; <, less than]

Date	Terbacil, water, filtered, recover- able, µg/L (04032)	Triclopyr, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49235)	Caffeine, water, filtered, recover- able, µg/L (50305)
07-19-2010	< .040	< .08	< .080