

Water-Data Report 2011

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, 53,230 mil gal, Aug. 29, elevation, 841.16 ft; minimum contents observed, 48,020 mil gal, Dec. 7, elevation, 833.39 ft.

MONTH-END ELEVATION AND CONTENTS, AND MONTHLY DIVERSION

WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Date	Elevation (feet) *	Contents (million gallons)	Change in Contents (equivalent in ft ³ /s)	01366399 Monthly Diversion (in ft ³ /s)
Sept. 30	837.58	50,797		
Oct. 31	837.21	50,548	-12.4	1,239
Nov. 30	833.73	48,243	-119	1,277
Dec. 31	836.01	49,747	+75.1	1,291
CAL YR 2010	--	--	+3.6	1,093
Jan. 31	836.57	50,120	+18.6	1,302
Feb. 28	834.09	48,479	-90.7	1,292
Mar. 31	836.97	50,387	+95.2	1,272
Apr. 30	838.65	51,518	+58.3	1,242
May 31	837.48	50,729	-39.4	1,220
June 30	839.20	51,890	+59.9	1,073
July 31	838.20	51,213	-33.8	1,087
Aug. 31	840.16	52,544	+66.4	1,026
Sept. 30	838.79	51,612	-48.1	805
WTR YR 2011	--	--	+3.5	1,177

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

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--

PESTICIDE DATA: 1999-2011 (b).

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

WATER-QUALITY DATA

WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 1 of 8

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

Date	Sample start time	Medium code	Sampling method (82398)	1-	2,6-	2-Chloro-	2-Chloro-4-	2-Ethyl-6-	3,4-
				Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49295)	Diethyl-aniline, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82660)	2',6'-diethyl-acetanilide, water, filtered, recoverable, µg/L (61618)	isopropyl-amino-6-amino-s-triazine, water, filtered, recoverable, µg/L (04040)	methyl-aniline, water, filtered, recoverable, µg/L (61620)	Dichloro-aniline, water, filtered, recoverable, µg/L (61625)
05-16-2011	0730	WB	Grab smp tap wat sup	< .036	< .006	< .010	E .005	< .010	< .004
08-01-2011	0800	WB	Grab smp tap wat sup	< .036	< .006	< .010	E .009	< .010	< .004
09-19-2011	0700	WB	Grab smp tap wat sup	< .036	< .006	< .010	E .006	< .010	< .004

WATER-QUALITY DATA

WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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

Date	Sample start time	4-Chloro-2-	Aceto-	Alachlor,	Atrazine,	Azinphos-	Azinphos-	Benfluralin,	Carbaryl,
		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)
05-16-2011	0730	< .005	< .010	< .008	< .008	< .04	< .120	< .014	< .060
08-01-2011	0800	< .005	< .010	< .008	.007	< .04	< .120	< .014	< .060
09-19-2011	0700	< .005	< .010	< .008	.005	< .04	< .120	< .014	< .060

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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	Sample start time	Chlorpyrifos oxygen analog, water, filtered, recoverable, µg/L (61636)	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)
08-01-2011	0800	< .06	< .004	< .010	< .016	< .020	< .008	< .029	< .012	< .006
09-19-2011	0700	< .06	< .004	< .010	< .016	< .020	< .008	< .029	< .012	< .006

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

Date	Sample start time	Dichlorvos, water, filtered, recoverable, µg/L (38775)	Dicrotophos, water, filtered, recoverable, µg/L (38454)	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)
08-01-2011	0800	< .04	< .08	< .008	< .006	< .02	< .008	< .054	< .08	< .03
09-19-2011	0700	< .04	< .08	< .008	< .006	< .02	< .008	< .054	< .08	< .03

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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

Date	Sample start time	Fipronil sulfide, water, filtered, recoverable, µg/L (62167)	Fipronil sulfone, water, filtered, recoverable, µg/L (62168)	Fipronil, water, filtered, recoverable, µg/L (62166)	Fonofos, water, filtered, recoverable, µg/L (04095)	Hexazinone, water, filtered, recoverable, µg/L (04025)	Iprodione, water, filtered, recoverable, µg/L (61593)	Isofenphos, water, filtered, recoverable, µg/L (61594)	Malaoxon, water, filtered, recoverable, µg/L (61652)	Malathion, water, filtered, recoverable, µg/L (39532)
08-01-2011	0800	< .012	< .024	< .018	< .005	< .008	< .014	< .006	< .022	< .016
09-19-2011	0700	< .012	< .024	< .018	< .005	< .008	< .014	< .006	< .022	< .016

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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	Sample start time	Metalaxyl, water, filtered, recoverable, µg/L (61596)	Methidathion, water, filtered, recoverable, µg/L (61598)	Methyl paraoxon, water, filtered, recoverable, µg/L (61664)	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82667)	Metolachlor, water, filtered, recoverable, µg/L (39415)	Metribuzin, water, filtered, recoverable, µg/L (82630)	Myclobutanol, water, filtered, recoverable, µg/L (61599)	Pendi-methalin, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82683)	Phorate oxygen analog, water, filtered, recoverable, µg/L (61666)
08-01-2011	0800	< .014	< .012	< .01	< .008	.010	< .012	< .010	< .012	< .03
09-19-2011	0700	< .014	< .012	< .01	< .008	.007	< .012	< .010	< .012	< .03

WATER-QUALITY DATA

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

Date	Sample start time	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82664)	Phosmet oxygen analog, water, filtered, recoverable, µg/L (61668)	Phosmet, water, filtered, recoverable, µg/L (61601)	Prometon, water, filtered, recoverable, µg/L (04037)	Prometryn, water, filtered, recoverable, µg/L (04036)	Propyzamide, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82676)	Simazine, water, filtered, recoverable, µg/L (04035)	Tebu-thiuron, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82670)	Terbufos oxygen analog sulfone, water, filtered, recoverable, µg/L (61674)
08-01-2011	0800	< .020	< .05	< .140	< .012	< .006	< .004	< .006	< .03	< .04
09-19-2011	0700	< .020	< .05	< .140	< .012	< .006	< .004	< .006	< .03	< .04

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

Date	Sample start time	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82675)	Terbuthylazine, water, filtered, recoverable, µg/L (04022)	Tribuphos, water, filtered, recoverable, µg/L (61610)	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82661)
05-16-2011	0730	< .02	< .01	< .018	< .018
08-01-2011	0800	< .02	< .01	< .018	< .018
09-19-2011	0700	< .02	< .01	< .018	< .018

WATER-QUALITY DATA

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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, recoverable, µg/L (50470)	2,4-D, water, filtered, recoverable, µg/L (39732)	2,4-DB, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (38746)	2-Chloro-4-isopropyl-amino-6-triazine, water, filtered, recoverable, µg/L (04040)	2-Chloro-6-ethyl-amino-4-triazine, water, filtered, recoverable, µg/L (04038)	2-Hydroxy-4-iso-propyl-amino-6-ethyl-amino-6-triazine, water, filtered, recoverable, µg/L (50355)
08-01-2011	0805	WB	Grab smp tap wat sup	< .200	< .06	< .02	< .06	< .06	.015

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

Date	Sample start time	3-Hydroxy carbo-furan, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49308)	Acifluor-fen, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49315)	Aldicarb sulfone, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49313)	Aldicarb sulfoxide, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49314)	Aldicarb, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49312)	Atrazine, water, filtered, recoverable, µg/L (39632)	Bendio-carb, water, filtered, recoverable, µg/L (50299)	Benomyl, water, filtered, recoverable, µg/L (50300)	Ben-sulfuron-methyl, water, filtered, recoverable, µg/L (61693)
08-01-2011	0805	< .040	< .040	< .08	< .060	< .12	< .040	< .04	< .060	< .06

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

Date	Sample start time	Bentazon, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (38711)	Bromacil, water, filtered, recoverable, µg/L (04029)	Brom-oxynil, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49311)	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49310)	Carbo-furan, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49309)	Chlor-amben methyl ester, water, filtered, recoverable, µg/L (61188)	Chlori-muron-ethyl, water, filtered, recoverable, µg/L (50306)	Clopyralid, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49305)	Cycloate, water, filtered, recoverable, µg/L (04031)
08-01-2011	0805	< .06	< .06	< .12	< .04	< .040	< .10	< .080	< .06	< .04

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

Date	Sample start time	Dacthal monoacid, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49304)	Dicamba, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (38442)	Dichlor-prop, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49302)	Dinoseb, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49301)	Di-phenamid, water, filtered, recoverable, µg/L (04033)	Diuron, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49300)	Fenuron, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49297)	Flumet-sulam, water, filtered, recoverable, µg/L (61694)	Fluome-turon, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (38811)
08-01-2011	0805	< .04	< .04	< .04	< .04	< .04	< .04	< .06	< .06	< .04

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WATER-QUALITY DATA

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

Date	Sample start time	Imazaquin, water, filtered, recoverable, µg/L (50356)	Imazethapyr, water, filtered, recoverable, µg/L (50407)	Imidacloprid, water, filtered, recoverable, µg/L (61695)	Linuron, water, filtered, recoverable, µg/L (38478)	MCPA, water, filtered, recoverable, µg/L (38482)	MCPB, water, filtered, recoverable, µg/L (38487)	Metalaxyl, water, filtered, recoverable, µg/L (50359)	Methiocarb, water, filtered, recoverable, µg/L (38501)	Methomyl, water, filtered, recoverable, µg/L (49296)
08-01-2011	0805	< .06	< .06	< .060	< .04	< .04	< .20	< .04	< .040	< .120

WATER-QUALITY DATA

WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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

Date	Sample start time	Metsulfuron-methyl, water, filtered, recoverable, µg/L (61697)	N-(4-Chlorophenyl)-N'-methyl-urea, water, filtered, recoverable, µg/L (61692)	Neburon, water, filtered, recoverable, µg/L (49294)	Nicosulfuron, water, filtered, recoverable, µg/L (50364)	Norflurazon, water, filtered, recoverable, µg/L (49293)	Oryzalin, water, filtered, recoverable, µg/L (49292)	Oxamyl, water, filtered, recoverable, µg/L (38866)	Picloram, water, filtered, recoverable, µg/L (49291)	Propham, water, filtered, recoverable, µg/L (49236)
08-01-2011	0805	< .14	< .06	< .02	< .10	< .04	< .04	< .12	< .12	< .040

WATER-QUALITY DATA

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

Date	Sample start time	Propiconazole, water, filtered, recoverable, µg/L (50471)	Propoxur, water, filtered, recoverable, µg/L (38538)	Siduron, water, filtered, recoverable, µg/L (38548)	Sulfometuron-methyl, water, filtered, recoverable, µg/L (50337)	Tebu-thiuron, water, filtered, recoverable, µg/L (82670)	Terbacil, water, filtered, recoverable, µg/L (04032)	Triclopyr, water, filtered, recoverable, µg/L (49235)	Caffeine, water, filtered, recoverable, µg/L (50305)
08-01-2011	0805	< .04	< .060	< .04	< .060	< .060	< .040	< .08	< .080