

Appendix 2. Characteristics, principal aquifers, study units, and assessment studies of domestic wells sampled for the NAWQA Program, 1991–2004, by aquifer type

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Table 2-1. Characteristics, principal aquifers, study units, and assessment studies of domestic wells sampled for the NAWQA Program in aquifer studies, 1991–2004, by aquifer rock type.

[Well and water depths in parentheses are single values only. Numbers of wells for well depth, depth to top of open interval, and depth to water may differ. --, not applicable or not available]

Principal aquifer	NAWQA study unit	Study code	Number of wells	Median well depth, in feet below land surface	Median depth to top of open interval, in feet below land surface	Median depth to water, in feet below land surface	Sampling period	
Basin and Range basin-fill aquifers (BR)	Central Arizona Basins (CAZB)	cazbsus1a	17	377	320	251	1996–97	
		cazbsus1b	18	215	217	65	1996–97	
		cazbsus2	25	340	230	199	1998	
	Great Salt Lake Basins (GRSL)	cazbsus3	17	264	222	107	1996	
		grslsus1a	17	238	142	126	1998	
		grslsus1b	17	202	180	75	1998	
	Nevada Basin and Range (NVBR)	nvbrsus1	4	300	145	--	1995	
		nvbrsus2	3	185	120	--	1995	
		nvbrsus3	11	125	120	--	1995	
	Central Valley aquifer system (CV)	Sacramento River Basin (SACR)	sacrsus1	27	155	120	22	1996
		San Joaquin–Tulare Basins (SANJ)	sanjsus1	30	182	133	84	1995, 2002
	High Plains aquifer (HP)	High Plains aquifer (HPGW)	hpgwsus1a	74	263	215	158	1999
			hpgwsus1b	46	204	163	137	2001
			hpgwsus1c	104	205	183	83	2002–03
			hpgwsus2	20	74	64	30	1999
hpgwsus4			27	190	170	89	2003	
Mississippi River Valley alluvial aquifer (MV)	Mississippi Embayment (MISE)	misesus1	2	70	(30)	(12)	1998	
		misesus3	3	130	105	11	1998	
Northern Rocky Mountains Intermontane Basins aquifer system (NR)	Northern Rockies Intermontane Basins (NROK)	nroksus1	29	137	130	86	1999	
		nroksus2	28	58	50	26	2001	
Other stream valley alluvial aquifers (OS)	Central Nebraska Basins (CNBR) Upper Colorado River Basin (UCOL)	cnbrsus2	9	50	37	8	1997	
		ucolsus1	22	60	48	33	1997	
		ucolsus2	12	49	43	(5)	1997	
Rio Grande aquifer system (RG)	Yellowstone River Basin (YELL) Rio Grande Valley (RIOG)	yellsus1	1	(19)	(6)	(11)	1999	
		riogsus1	25	178	173	12	1995	

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Principal aquifer	NAWQA study unit	Study code	Number of wells	Median well depth, in feet below land surface	Median depth to top of open interval, in feet below land surface	Median depth to water, in feet below land surface	Sampling period
Snake River Plain basin-fill aquifers (SPf)	Upper Snake River Basin (USNK)	usnksus1	9	67	64	--	1994
		usnksus2	19	145	128	17	1995
		usnksus3	6	166	112	7	1996
Willamette Lowland basin-fill aquifers (WL)	Willamette Basin (WILL)	willsus1	69	60	50	16	1993
Basin-fill and other non-glacial sand and gravel aquifers (BFSG)—Continued							
Glacial sand and gravel aquifers (GLAC)							
Eastern glacial aquifers (Ge)	Allegheny and Monongahela River Basins (ALMN) Connecticut, Housatonic, and Thames River Basins (CONN)	almmsus2	30	73	68	--	1996
		connus2	28	113	105	25	2002
	Delaware River Basin (DELR) Hudson River Basin (HDSN) Long Island–New Jersey Coastal Drainages (LINJ)	delrsus3	12	86	61	21	2001
		hdnsus1	2	108	--	--	1994
Central glacial aquifers (Gc)	Lake Erie-Lake Saint Clair Drainages (LERI) Lower Illinois River Basin (LIRB)	lirjsus1	1	(152)	(146)	--	1997
		lerisus1	27	78	74	30	1998
		lirbsus1	26	239	235	--	1996
	Great and Little Miami River Basins (MIAM) Upper Illinois River Basin (UIRB) Western Lake Michigan Drainages (WMIC)	lirbsus2	28	50	15	41	1996
		miamsus1	30	60	60	25	1999
		uirbsus1	27	72	68	22	2001
		uirbsus2	23	45	40	10	2000
wmicsus2	24	82	72	27	2003		
West central glacial aquifers (Gwc)	Eastern Iowa Basins (EIWA) Red River of the North Basin (REDN)	eiwasus2	32	52	51	11	1998
		rednsus1	5	62	56	--	1992, 1995
		rednsus2	15	65	58	7	1993
		rednsus3	3	60	--	(24)	1995
		rednsus5	25	109	111	19	1991–94
Western glacial aquifers (Gw)	Cook Inlet Basin (COOK) Puget Sound Basin (PUGT)	cooksus1a	22	105	98	64	1999
		pugtsus1	29	68	64	22	1996

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Principal aquifer	NAWQA study unit	Study code	Number of wells	Median well depth, in feet below land surface	Median depth to top of open interval, in feet below land surface	Median depth to water, in feet below land surface	Sampling period
Coastal lowlands aquifer system (CL)	Acadian–Ponchartraine Drainages (ACAD)	acadsus1	29	140	128	27	2000–01
		acadsus2	27	120	113	(90)	2001
		trinsus3	29	180	155	39	1994, 2002
North Atlantic Coastal Plain aquifer system (NA)	Albemarle–Pamlico Drainage Basin (ALBE)	albesus1	1	(20)	--	(11)	1994
		albesus7	6	90	75	17	2002–2003
	Delmarva Peninsula (DLMV)	dlimvsus1	13	49	40	8	2001
		linjsus2	30	100	90	5	1998
	Potomac River Basin and Delmarva Peninsula (PODL)	podlsus2	15	81	73	36	2003
Southeastern Coastal Plain aquifer system (SC)	Mobile River Basin (MOBL)	moblsus1	24	144	121	53	1999
	Santee River Basin and Coastal Drainages (SANT)	santsus1	2	125	105	57	1997
Texas coastal uplands aquifer system (TC)	Trinity River Basin (TRIN)	trinsus2	10	102	(20)	25	1994
Sandstone aquifers (SS)							
Cambrian–Ordovician aquifer system (CO)	Upper Mississippi River Basin (UMIS)	umissus3	25	180	126	31	1996
		umissus4	25	200	175	88	1996
		wmicsus1	20	128	97	35	1995
Early Mesozoic basin aquifers (EM)	Delaware River Basin (DELR)	delrsus1	25	160	40	25	1999
		linjsus3	22	193	50	(14)	1998–99
	Potomac River Basin (POTO)	potosus2	22	155	45	29	1994
		rednsus5	1	(127)	(123)	(48)	1994
Lower Tertiary/Upper Cretaceous aquifers (LT)	Red River of the North Basin (REDN)	yellsus2	23	160	80	27	2000–01
	Yellowstone River Basin (YELL)						

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Principal aquifer	NAWQA study unit	Study code	Number of wells	Median well depth, in feet below land surface	Median depth to top of open interval, in feet below land surface	Median depth to water, in feet below land surface	Sampling period
Pennsylvanian aquifers (P)	Allegheny and Monongahela River Basin (ALMN)	alimmsus1	30	105	21	45	1996
	Kanawha–New River Basins (KANA)	kanasus1	16	92	29	63	1997
Valley and Ridge sandstone and shale aquifers (VRs)	Delaware River Basin (DELR)	delrsus2	27	185	82	41	2000
	Lower Susquehanna River Basin (LSUS)	lsus1	29	155	60	39	1993
Sandstone and carbonate-rock aquifers (SS/CARB)							
Edwards-Trinity aquifer system (ET)	South-Central Texas (SCTX)	scxsus1	21	295	180	130	1996
		scxsus2	25	400	123	170	1996
		scxsus3	1	(1,500)	(250)	--	1997
		trinsus1	22	162	125	26	1994
Mississippian aquifers (M)	Kanawha–New River Basins (KANA) Lake Erie–Lake Saint Clair Drainages (LERI) Lower Tennessee River Basin (LTEN)	kanasus1	5	205	42	101	1997
		lerisus1	1	--	--	--	1998
		ltens1	8	86	56	38	1999
		ltens2	4	99	58	35	2000
Carbonate-rock aquifers (CARB)							
Floridan aquifer system (F)	Apalachicola–Chattahoochee-Flint River Basin (ACFB) Georgia-Florida Coastal Plain (GAFL) Santee River Basin and Coastal Drainages (SANT)	acfbus1	7	100	69	34	1995
		gaf1us2	30	93	65	26	2002–03
		gaf1us3	30	150	95	28	2002
Ordovician aquifers (O)	Lower Tennessee River Basin (LTEN)	santsus2	29	170	90	18	1998
		ltens2	21	140	20	21	2000
Ozark Plateaus aquifer system (OP)	Ozark Plateaus (OZRK)	ozrksus2a	33	196	74	54	1993
		ozrksus3a	16	140	77	49	1993
Silurian-Devonian aquifers (SD)	Eastern Iowa Basins (EIWA)	eiwasus1	32	223	150	59	1996
Valley and Ridge carbonate-rock aquifers (VRc)	Kanawha–New River Basins (KANA) Upper Tennessee River Basin (UTEN)	kanasus2	1	(325)	(183)	(157)	1997
		utensus1	18	245	64	73	1998–99

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Principal aquifer	NAWQA study unit	Study code	Number of wells	Median well depth, in feet below land surface	Median depth to top of open interval, in feet below land surface	Median depth to water, in feet below land surface	Sampling period
Snake River Plain basaltic-rock aquifers (SPb)	Upper Snake River Basin (USNK)	usnksus1	14	280	117	183	1992–95
		usnksus2	5	210	50	--	1995
New England crystalline-rock aquifers (NEx)	Connecticut, Housatonic, and Thames River Basins (CONN)	connus1	27	225	35	18	1995
		linjsus1	28	201	59	9	1997
	Long Island–New Jersey Coastal Drainages (LINJ) New England Coastal Basins (NECB)	necbsus1	28	188	25	12	1999–2000
		necbsus2	30	303	35	23	1999–2000
		kanasus2	18	159	49	44	1995
Piedmont and Blue Ridge crystalline-rock aquifers (PBx)	Kanawha–New River Basins (KANA)	lsussus2	30	147	69	42	1994
		potosus1	23	142	44	36	1997
	Santee River Basin and Coastal Drainages (SANT)	santsus3	29	200	61	26	1997
		splitsus1	27	225	82	--	1995
Rocky Mountain Front Range crystalline-rock aquifers (RMx)							
Aquifer not determined	Hudson River Basin (HDSN) Upper Snake River Basin (USNK)	hdsnsus1	44	125	(91)	6	1994
		usnksus2	1	(615)	(504)	--	1995
		usnksus3	1	(75)	(52)	(5)	1995

Aquifer not determined

Table 2-2. Characteristics, principal aquifers, study units, and assessment studies of domestic wells sampled for the NAWQA Program in agricultural land-use studies, 1991–2004, by aquifer rock type.

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Principal aquifer	NAWQA study unit	Study code	Primary agricultural land use	Number of wells	Median well depth, in feet below land surface	Median depth to top of open interval, in feet below land surface	Median depth to water, in feet below land surface	Sampling period
Basin-fill and other non-glacial sand and gravel aquifers (BFSG)								
Central Valley aquifer system (CV)	San Joaquin–Tulare Basins (SANJ)	sanjlusor1a	Row crops	23	147	110	76	1995, 2002
		sanjlusor1a	Vineyards	27	155	120	47	1993, 2001
		sanjlusor2a	Almonds	26	155	118	39	1994, 2001
Columbia Plateau basin-fill aquifers (CPf)	Central Columbia Plateau (CCPT)	ceptlusag2a	Row crops	12	126	109	(30)	1993–94
		ceptlusor1a	Orchards	9	160	141	121	1994–95
Other stream valley alluvial aquifers (OS)	Mobile River Basin (MOBL)	moblluscr1	--	1	(40)	(30)	(25)	2001
	Potomac River Basin (POTO)	potolusag2	--	1	(71)	--	--	1995
Snake River Plain basin-fill aquifers (SPf)	Upper Snake River Basin (USNK)	usnkcluscr1	Row crops	25	35	32	9	1993
		usnkcluscr3	Row crops	1	(180)	(121)	(77)	1994
Glacial sand and gravel aquifers (GLAC)								
West central glacial aquifers (Gwc)	Red River of the North Basin (REDN)	rednlusag1	--	2	54	47	--	1994
	Upper Mississippi River Basin (UMIS)	umisluscr1	Row crops	3	28	(53)	(27)	1998
Western glacial aquifers (Gw)	Puget Sound Basin (PUGT)	pugtluscr1	Raspberries	3	41	35	18	1997–98
	Coastal plain aquifers in semi-consolidated sand (CP)							
North Atlantic Coastal Plain aquifer system (NA)	Albemarle–Pamlico Drainage Basin (ALBE)	albelusag2	Row crops	10	118	75	(3)	1994
	Delmarva Peninsula (DLMV)	dilmvluscr1	Row crops	2	37	31	21	2001
Sandstone aquifers (SS)								
Valley and Ridge sandstone and shale aquifers (VRs)	Potomac River Basin (POTO)	potolusag2	--	23	122	31	29	1996
	Carbonate-rock aquifers (CARB)							
Ozark Plateaus aquifer system (OP)	Ozark Plateaus (OZRK)	ozrklusag1a	Cattle pasture	19	165	--	45	1994
		ozrklusag2a	Poultry pasture	20	180	28	34	1995
Piedmont and Blue Ridge carbonate-rock aquifers (PBc)	Lower Susquehanna River Basin (LSUS)	lsuslusag1	--	29	160	102	33	1993

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Principal aquifer	NAWQA study unit	Study code	Primary agricultural land use	Number of wells	Median well depth, in feet below land surface	Median depth to top of open interval, in feet below land surface	Median depth to water, in feet below land surface	Sampling period
Carbonate-rock aquifers (CARB)—Continued								
Valley and Ridge carbonate-rock aquifers (VRc)	Lower Susquehanna River Basin (LSUS)	lsuslug2	--	29	170	100	64	1994
		lsuslug3	--	29	158	109	56	1995
	Potomac River Basin and Delmarva Peninsula (PODL, POTO)	potolusag1	--	29	144	57	43	1993
		potolusag2	--	1	(280)	(42)	--	1995
Basaltic-rock aquifers (BAS)								
Columbia Plateau basaltic-rock aquifers (CPb)	Central Columbia Plateau (CCPT)	ccptlusag1a	Row crops	16	102	32	32	1993–94
		ccptlusag2a	Row crops	17	157	74	(96)	1993–94
		ccptlusor1a	Orchards and vineyards	9	170	98	30	1994–95
Snake River Plain basaltic-rock aquifers (SPb)	Upper Snake River Basin (USNK)	usnkclusr2	Row crops	27	228	63	180	1993
		usnkclusr3	Row crops	26	205	20	157	1994
		usnkclusr4	Row crops	14	357	19	292	1995
		Aquifer not determined						
Aquifer not determined	Central Columbia Plateau (CCPT)	ccptlusag1a	--	1	(60)	--	--	1994
	Upper Snake River Basin (USNK)	usnkclusr2	Row crops	1	--	--	(132)	1995
		usnkclusr4	Row crops	1	(420)	(18)	--	1995