

**GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES  
GROUND WATER PESTICIDES NETWORK PROJECT**

The following tables contain water-quality data from wells sampled in Pennsylvania during the third year of the Ground Water Pesticides Network project. The 5-year study is being conducted by the U.S. Geological Survey in cooperation with the Pennsylvania Department of Agriculture. Sites were selected to meet project objectives in the Annual Baseline, Baseline Trends, and Hot-Spot Trends networks. In fiscal year 2005, 28 Annual-Baseline sites were selected in the Devonian-Silurian carbonate hydrogeologic setting to fill a data gap in ground-water quality. Sites in this network are sampled one time as part of an occurrence survey. The Baseline Trend network was discontinued in 2005 due to the relatively low concentrations of pesticides (compared to previous samples collected at the sites) and the higher analytical reporting levels which led to a preponderance of censored data (less-than values). A research component was added to the project in 2005 which involved reconnaissance re-sampling for pesticide parent compounds, breakdown products (degradates), nitrate, bromide, and chloride in wells at and near the three concentration "hot spots" identified and sampled as part of the original project. Data from samples collected at and near "hot spot" Local Well BE 1370 are included in this volume. The well locations are shown in Figure 17.

The following analytical methods were used for the October and December 2004 samples analyzed at the PA Department of Environmental Protection Laboratory (PADEP) (Analyzing Agency Code 9813), pesticides -SAC USGS2 (EPA 525.2) solid phase extraction gas chromatography/mass spectrometry, nitrate/nitrite - colorimetry (cadmium reduction), total coliform and *E. coli* bacteria - Colilert Quantitray. The pesticides for the May 2005 sample were analyzed at the USGS National Water Quality Laboratory (NWQL) (Analyzing Agency Code 80020) using solid-phase extraction and capillary-column gas chromatography/mass spectrometry with selected-ion monitoring, and the nitrate/nitrite and total coliform and *E. coli* continued to be analyzed at the PADEP Laboratory. Pesticides analyzed for this study are identified in the table which follows study area maps. Pesticide samples collected at Local Well BE 1370 in August and other Berks County wells were analyzed at the USGS Organic Geochemistry Research Laboratory in Lawrence, Kansas (Analyzing Agency Code 82013) using liquid chromatography and mass spectrometry; nitrate was analyzed by colorimetry, automated-segmented flow (ASF), cadmium reduction-diazotization; bromide by colorimetry, automated-segmented flow, fluorescein; and chloride by ion chromatography were done at the USGS NWQL. Other data for the project can be found in the annual Water Data Report PA-05-2. For additional information, contact Kevin Breen (717-730-6970; email - [kjbreen@usgs.gov](mailto:kjbreen@usgs.gov)) or Connie Loper (717-730-6976; email - [caloper@usgs.gov](mailto:caloper@usgs.gov)) at the USGS Pennsylvania Water Science Center, 215 Limekiln Road, New Cumberland, PA 17070.

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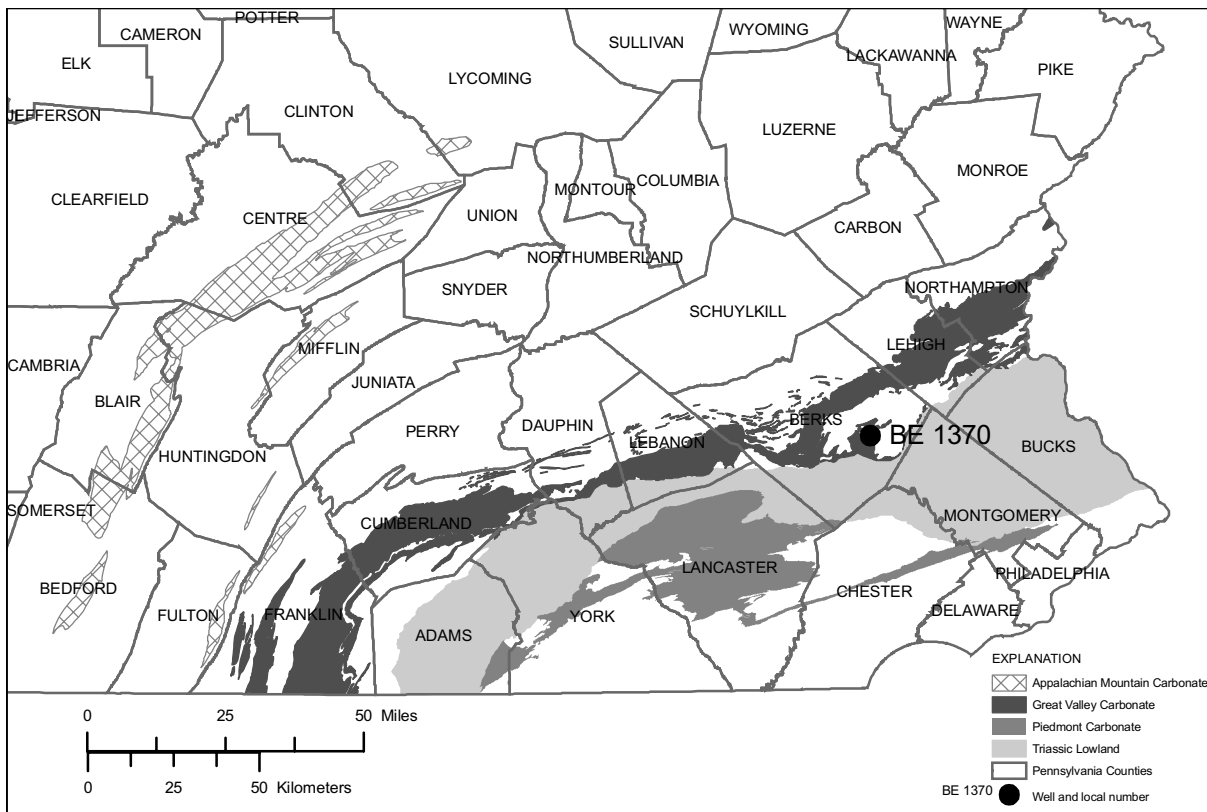


Figure 16.--Location of the Hot-Spot Trend Network well, in the Delaware River Basin, sampled as part of the Ground Water Pesticides Network project.

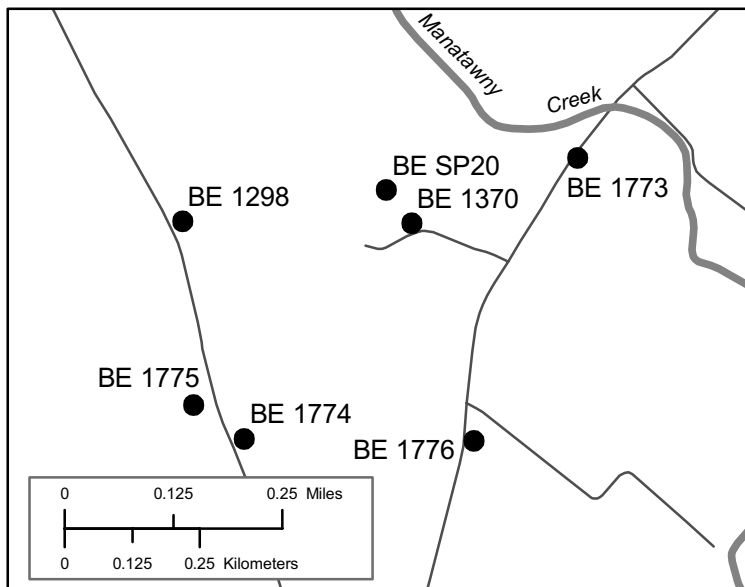


Figure 17.--Locations of ground-water wells and a spring sampled in August 2005 as part of the Ground Water Pesticides Network project.

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**402238075443401 -- BE 1370**

**REMARKS.**--Explanation of column headings--Station number: 15-digit unique identifier based on site latitude (first six digits), longitude (digits seven through thirteen), and a 2-digit sequence number suffix; Altitude of land surface: land-surface at well site in feet above sea level; Sampling method code 4040 = submersible pump; Sampling condition code 8 = pumping;  $\mu\text{S}/\text{cm}$ : microsiemens per centimeter at 25 degrees Celsius; deg C: degrees Celsius;  $\mu\text{g}/\text{L}$ : micrograms per liter (parts per billion);  $\text{mg}/\text{L}$  = milligrams per liter (parts per million); "<" = less than; ">" = more than; MPN = Most Probable Number; GF = Glass fiber filter; Type of sample related QA data code (99111) "1" = no associated quality-assurance samples and "40" = spike.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Station number	Date	Time	Agency collecting sample, code (00027)	Agency analyzing sample, code (00028)	Depth of well, feet below LSD (72008)	Altitude of land surface feet (72000)	Pump or flow period prior to sampling, minutes (72004)	Sampling method, code (82398)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	
OCT 2004 06...	402238075443401	20041006	0950	1028	9813	110	330	40	4040	768	5.9	55	
DEC 15...	402238075443401	20041215	0935	1028	9813	110	330	45	4040	760	4.3	39	
MAY 2005 24...	402238075443401	20050524	0925	1028	80020	110	330	35	4040	744	10.0	95	
Date	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	E coli, Defined Substr. Tech., MPN/100 mL (50468)	Total coliform, Defined Tech., MPN/100 mL (50569)	2,6-Diethyl-aniline water, fltrd 0.7 $\mu$ GF (82660)	CIAT, water, fltrd, $\mu\text{g}/\text{L}$ (04040)		
OCT 2004 06...	7.1	716	8.9	12.9	22.0	22.0	.010	<1	15	--	--		
DEC 15...	7.1	658	--	11.1	--	14.7	<.010	4	>200	--	--		
MAY 2005 24...	7.1	690	18.3	12.0	--	23.5	<.010	<1	1	<.006	E.194		
Date	Aceto-chlor, water, fltrd, $\mu\text{g}/\text{L}$ (49260)	Ala-chlor, water, fltrd, $\mu\text{g}/\text{L}$ (46342)	alpha-HCH, water, fltrd, $\mu\text{g}/\text{L}$ (34253)	alpha-HCH-d6, surrog, wat flt 0.7 $\mu$ GF percent recovry (91065)	Atra-zine, water, fltrd, $\mu\text{g}/\text{L}$ (39632)	Azin-phos, methyl, water, fltrd, 0.7 $\mu$ GF $\mu\text{g}/\text{L}$ (82686)	Ben-flur-alin, water, fltrd, 0.7 $\mu$ GF $\mu\text{g}/\text{L}$ (82673)	Butyl-ate, water, fltrd, $\mu\text{g}/\text{L}$ (04028)	Car-baryl, water, fltrd, 0.7 $\mu$ GF $\mu\text{g}/\text{L}$ (82680)	Carbo-furan, water, fltrd, 0.7 $\mu$ GF $\mu\text{g}/\text{L}$ (82674)	Chloro-thaloni, water, fltrd, 0.7 $\mu$ GF $\mu\text{g}/\text{L}$ (49306)	Chlor-pyrifos, water, fltrd, $\mu\text{g}/\text{L}$ (38933)	cis-Per-methrin, water, fltrd, 0.7 $\mu$ GF $\mu\text{g}/\text{L}$ (82687)
OCT 2004 06...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC 15...	<.100	<.10	--	--	.18	--	--	--	--	--	<.10	<.10	--
MAY 2005 24...	<.006	.046	<.005	91.5	.154	<.050	<.010	<.004	<.041	<.020	--	<.005	<.006
Date	Cyana-zine, water, fltrd, $\mu\text{g}/\text{L}$ (04041)	DCPA, water, fltrd, 0.7 $\mu$ GF $\mu\text{g}/\text{L}$ (82682)	Desulf-inyl fipro-nil, water, fltrd, $\mu\text{g}/\text{L}$ (62170)	Diazi-non, water, fltrd, $\mu\text{g}/\text{L}$ (39572)	Diazi-non-d10 surrog, wat flt 0.7 $\mu$ GF percent recovry (91063)	Dichlo-benil, water, fltrd, $\mu\text{g}/\text{L}$ (63009)	Diel-drin, water, fltrd, $\mu\text{g}/\text{L}$ (39381)	Disul-foton, water, fltrd, $\mu\text{g}/\text{L}$ (82677)	EPTC, water, fltrd, 0.7 $\mu$ GF $\mu\text{g}/\text{L}$ (82668)	Ethal-flur-alin, water, fltrd, 0.7 $\mu$ GF $\mu\text{g}/\text{L}$ (82663)	Etho-prop, water, fltrd, 0.7 $\mu$ GF $\mu\text{g}/\text{L}$ (82672)	Fen-propa-thrin, water, fltrd, $\mu\text{g}/\text{L}$ (64044)	Desulf-inyl-fipro-nil amide, wat flt $\mu\text{g}/\text{L}$ (62169)
OCT 2004 06...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC 15...	--	--	--	--	--	<.10	--	--	--	--	--	<.10	--
MAY 2005 24...	<.018	<.003	<.012	<.005	81.7	--	<.009	<.02	<.004	<.009	<.005	--	<.029
Date	Fipro-nil sulfide, water, fltrd, $\mu\text{g}/\text{L}$ (62167)	Fipro-nil sulfone, water, fltrd, $\mu\text{g}/\text{L}$ (62168)	Fipro-nil, water, fltrd, $\mu\text{g}/\text{L}$ (62166)	Fonofos, water, fltrd, $\mu\text{g}/\text{L}$ (04095)	Hexa-chloro-cyclo-penta-diene, wat unf $\mu\text{g}/\text{L}$ (34386)	Lindane, water, fltrd, $\mu\text{g}/\text{L}$ (39341)	Linuron, water, fltrd, 0.7 $\mu$ GF $\mu\text{g}/\text{L}$ (82666)	Mala-thion, water, fltrd, $\mu\text{g}/\text{L}$ (39532)	Methyl para-thion, water, fltrd, 0.7 $\mu$ GF $\mu\text{g}/\text{L}$ (82667)	Metola-chlor, water, fltrd, $\mu\text{g}/\text{L}$ (39415)	Metri-buzin, water, fltrd, $\mu\text{g}/\text{L}$ (82630)	Moli-nate, water, fltrd, 0.7 $\mu$ GF $\mu\text{g}/\text{L}$ (82671)	Naprop-amide, water, fltrd, 0.7 $\mu$ GF $\mu\text{g}/\text{L}$ (82684)
OCT 2004 06...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC 15...	--	--	--	--	<.1	--	--	--	--	.48	<.10	--	--
MAY 2005 24...	<.013	<.024	<.016	<.003	--	<.004	<.035	<.027	<.015	.216	<.006	<.003	<.007

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**402238075443401 -- BE 1370--Continued**

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	p,p'-DDE, water, fltrd, µg/L (34653)	Para-thion, water, fltrd, µg/L (39542)	Peb-ulate, water, fltrd, 0.7µ GF µg/L (82669)	Pendi-meth-alin, water, fltrd, 0.7µ GF µg/L (82683)	Phorate water, fltrd, 0.7µ GF µg/L (82664)	Phosmet water, fltrd, µg/L (61601)	Prome-ton, water, fltrd, µg/L (04037)	Propy-zamide, water, fltrd, 0.7µ GF µg/L (82676)	Propa-chlor, water, fltrd, µg/L (04024)	Pro-panil, water, fltrd, 0.7µ GF µg/L (82679)	Propar-gite, water, fltrd, 0.7µ GF µg/L (82685)	Sima-zine, water, fltrd, µg/L (04035)	Tebu-thiuron water, fltrd, 0.7µ GF µg/L (82670)
OCT 2004 06...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC 15...	--	--	--	<.100	--	<.100	--	--	--	--	--	<.10	--
MAY 2005 24...	<.003	<.010	<.004	<.022	<.011	--	<.01	<.004	<.025	<.011	<.02	<.005	<.02

Date	Terba-cil, water, fltrd, 0.7µ GF µg/L (82665)	Terbu-fos, water, fltrd, 0.7µ GF µg/L (82675)	Thio-bencarb water, fltrd, 0.7µ GF µg/L (82681)	Tri-allate, water, fltrd, 0.7µ GF µg/L (82678)	Tri-flur-alin, water, fltrd, 0.7µ GF µg/L (82661)	Purpose site visit, code (50280)	Sample purpose code (71999)	Sample volume, Sched-ule 2001, mL (99856)	Sam-pling condi-tion, code (72006)	Type of sample related QA data, code (99111)
OCT 2004 06...	--	--	--	--	--	2001	50.00	--	8.00	1
DEC 15...	--	--	--	--	--	2001	50.00	--	8.00	1
MAY 2005 24...	<.034	<.02	<.010	<.006	<.009	2001	50.00	909	8.00	40

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WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Depth to water level, feet below LSD (72019)	Sampling method, code (82398)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf 25 degC (00095)	Temperature, water, deg C (00010)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	2-[(2-Ethyl-6methyl phenyl) amino]2 oxoESA (62850)
402239075443701 BE SP20 (LAT 40 22 39N LONG 075 44 37W)													
AUG 2005 18...	1045	--	4090	755	5.2	--	608	13.3	.17	12.3	12.6	E.006	.08
402237075445501 BE 1298 (LAT 40 22 37N LONG 075 44 55W)													
AUG 2005 23...	1000	19.30	4040	753	8.4	7.2	715	12.4	.17	21.2	15.3	<.008	.02
402238075443401 BE 1370 (LAT 40 22 38N LONG 075 44 34W)													
AUG 2005 18...	1020	15.45	4040	755	8.7	--	735	13.7	.14	5.23	24.5	<.008	.08
402242075442201 BE 1773 (LAT 40 22 42N LONG 075 44 22W)													
AUG 2005 23...	1700	--	4090	753	.1	7.6	528	13.5	.20	7.69	<.06	<.008	<.02
402225075444801 BE 1774 (LAT 40 22 25N LONG 075 44 48W)													
AUG 2005 23...	1430	40.54	4040	753	.1	7.5	662	11.9	.17	17.0	.58	<.008	<.02
402227075445201 BE 1775 (LAT 40 22 27N LONG 075 44 52W)													
AUG 2005 23...	1110	33.76	4040	753	7.1	7.2	795	12.8	.21	40.6	6.44	<.008	<.02
402225075443001 BE 1776 (LAT 40 22 25N LONG 075 44 30W)													
AUG 2005 23...	1245	27.22	4040	753	1.7	7.3	747	13.5	.19	37.0	2.77	<.008	<.02
Date	CIAT, water, fltrd, µg/L (04040)	CEAT, water, fltrd, µg/L (04038)	Ala-chlor 2nd amide, water, fltrd, µg/L (63781)	Aceto-chlor 3rd amide, water, fltrd, µg/L (63782)	OIAT, water, fltrd, 0.7µ GF µg/L (62676)	OIET, water, fltrd, µg/L (50355)	OEAT, water, fltrd, 0.7µ GF µg/L (62678)	Aceto-chlor ESA, water, fltrd, µg/L (61029)	Aceto-chlor OA, water, fltrd, µg/L (61030)	Aceto-chlor SAA, water, fltrd, µg/L (62847)	Aceto-chlor water, fltrd, µg/L (49260)	Ala-chlor ESA water, fltrd, µg/L (62849)	Ala-chlor ESA, water, fltrd, 0.7µ GF µg/L (50009)
402239075443701 BE SP20 (LAT 40 22 39N LONG 075 44 37W)													
AUG 2005 18...	.370	.030	<.02	<.02	.030	<.025	<.025	.03	<.02	<.02	<.02	<.02	.26
402237075445501 BE 1298 (LAT 40 22 37N LONG 075 44 55W)													
AUG 2005 23...	.470	.030	<.02	<.02	<.025	<.025	<.025	<.02	<.02	<.02	<.02	<.02	.08
402238075443401 BE 1370 (LAT 40 22 38N LONG 075 44 34W)													
AUG 2005 18...	.360	<.025	<.02	<.02	.040	<.025	<.025	.03	<.02	<.02	<.02	<.02	.31
402242075442201 BE 1773 (LAT 40 22 42N LONG 075 44 22W)													
AUG 2005 23...	<.025	<.025	<.02	<.02	<.025	<.025	<.025	<.02	<.02	<.02	<.02	<.02	.02
402225075444801 BE 1774 (LAT 40 22 25N LONG 075 44 48W)													
AUG 2005 23...	<.025	<.025	<.02	<.02	<.025	<.025	<.025	<.02	<.02	<.02	<.02	<.02	.13
402227075445201 BE 1775 (LAT 40 22 27N LONG 075 44 52W)													
AUG 2005 23...	.260	<.025	<.02	<.02	.030	<.025	<.025	<.02	<.02	<.02	<.02	<.02	.92
402225075443001 BE 1776 (LAT 40 22 25N LONG 075 44 30W)													
AUG 2005 23...	.040	<.025	<.02	<.02	<.025	<.025	<.025	<.02	<.02	<.02	<.02	.03	.12



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Date	Hydroxy ala- chlor, water, fltrd, µg/L (63783)	Hydroxy dimeth- enamid, water, fltrd, µg/L (64045)	Hydroxy metola- chlor, water, fltrd, µg/L (63785)	Hy- droxy- sim- azine, water, fltrd, µg/L (63154)	Linuron water fltrd 0.7µ GF µg/L (38478)	Metola- chlor ESA, water, fltrd 0.7µ GF µg/L (61043)	Metola- chlor OA, water, fltrd 0.7µ GF µg/L (61044)	Metola- chlor, water, fltrd, µg/L (39415)	Prome- ton, water, fltrd, µg/L (04037)	Propa- chlor ESA, water, fltrd 0.7µ GF µg/L (62766)	Propa- chlor OA, water, fltrd 0.7µ GF µg/L (62767)	Propa- chlor, water, fltrd, µg/L (04024)	Propa- zine, water, fltrd, µg/L (38535)
					402239075443701 BE SP20 (LAT 40 22 39N LONG 075 44 37W)								
AUG 2005 18...	<.02	<.02	<.02	<.025	<.2	1.92	.25	.16	<.025	<.05	<.02	<.02	<.025
					402237075445501 BE 1298 (LAT 40 22 37N LONG 075 44 55W)								
AUG 2005 23...	<.02	<.02	<.02	<.025	<.2	2.29	.02	<.02	<.025	<.05	<.02	<.02	<.025
					402238075443401 BE 1370 (LAT 40 22 38N LONG 075 44 34W)								
AUG 2005 18...	<.02	<.02	<.02	<.025	<.2	.63	.41	.19	<.025	<.05	<.02	<.02	<.025
					402242075442201 BE 1773 (LAT 40 22 42N LONG 075 44 22W)								
AUG 2005 23...	<.02	<.02	<.02	<.025	<.2	.04	<.02	<.02	<.025	<.05	<.02	<.02	<.025
					402225075444801 BE 1774 (LAT 40 22 25N LONG 075 44 48W)								
AUG 2005 23...	<.02	<.02	<.02	<.025	<.2	.19	<.02	<.02	<.025	<.05	<.02	<.02	<.025
					402227075445201 BE 1775 (LAT 40 22 27N LONG 075 44 52W)								
AUG 2005 23...	<.02	<.02	<.02	<.025	<.2	1.05	.03	<.02	<.025	<.05	<.02	<.02	<.025
					402225075443001 BE 1776 (LAT 40 22 25N LONG 075 44 30W)								
AUG 2005 23...	<.02	<.02	<.02	<.025	<.2	.22	<.02	<.02	<.025	<.05	<.02	<.02	<.025
					Date	Sima- zine, water, fltrd, µg/L (04035)							
					402239075443701 BE SP20 (LAT 40 22 39N LONG 075 44 37W)								
					AUG 2005 18...	<.025							
					402237075445501 BE 1298 (LAT 40 22 37N LONG 075 44 55W)								
					AUG 2005 23...	<.025							
					402238075443401 BE 1370 (LAT 40 22 38N LONG 075 44 34W)								
					AUG 2005 18...	<.025							
					402242075442201 BE 1773 (LAT 40 22 42N LONG 075 44 22W)								
					AUG 2005 23...	<.025							
					402225075444801 BE 1774 (LAT 40 22 25N LONG 075 44 48W)								
					AUG 2005 23...	<.025							
					402227075445201 BE 1775 (LAT 40 22 27N LONG 075 44 52W)								
					AUG 2005 23...	<.025							
					402225075443001 BE 1776 (LAT 40 22 25N LONG 075 44 30W)								
					AUG 2005 23...	<.025							

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**Compounds analyzed at the Pennsylvania Department of Environmental Protection Laboratory**

Pesticide Schedule Used for Annual Baseline Trends and Hot-Spot Trends Networks (SAC USGS2)	
Analyte	NWIS Parameter Code
EPA 525.2	
Acetochlor	49260
Alachlor	46342
Atrazine	39632
Chlorothalonil	49306
Chlorpyrifos (Dursban)	38933
Dichlobenil	63009
Fenpropathrin	64044
Hexachlorocyclopentadiene	34386
Metolachlor	39415
Metribuzin	82630
Pendimethalin	82683
Phosmet (added after April 2004)	61601
Simazine	04035



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Compounds analyzed at the U.S. Geological Survey National Water-Quality Laboratory

Pesticide Schedule (SH2001)		Pesticide Schedule (SH2001)	
Analyte	NWIS Parameter Code	Analyte	NWIS Parameter Code
Alpha-HC	34253	Parathion-methyl	82667
Acetochlor	49260	Metolachlor	39415
Alachlor	46342	Metribuzin	82630
2,6 -Diethylaniline	82660	Molinate	82671
Atrazine	39632	Napropamide	82684
Desethyl atrazine (currently CIAT {2-chloro-4-isopropylamino-6- amino-s-triazine})	04040	p,p'-DDE	34653
Azinphos-methyl	82686	Parathion	39542
Benfluralin	82673	Pebulate	82669
Butylate	04028	Pendimethalin	82683
Carbaryl	82680	Phorate	82664
Carbofuran	82674	Prometon	04037
Chlorpyrifos	38933	Propyzamide	82676
cis-Permethrin	82687	Propachlor	04024
Cyanazine	04041	Propanil	82679
Dacthal (DCPA)	82682	Propargite	82685
Desulfinylfipronil	62170	Simazine	04035
Desulfinylfipronil amide	62169	Tebuthiuron	82670
Diazinon	39572	Terbacil	82665
Diazinon-d10 (surrogate)	91063	Terbufos	82675
Dieldrin	39381	Thiobencarb	82681
Disulfoton	82677	Triallate	82678
EPTC	82668	Trifluralin	82661
Ethalfuralin	82663		
Ethoprophos	82672		
Fipronil	62166		
Fipronil sulfide	62167		
Fipronil sulfone	62168		
Fonofos	04095		
alpha-HCH-d6 (surrogate)	91065		
Lindane	39341		
Linuron	82666		
Malathion	39532		