

**Figure A.** Locations of physiographic provinces, sections, and U.S. Geological Survey streamflow-gaging stations selected for regional-curve development, Pennsylvania and Maryland. See table A for information associated with cross-reference numbers identifying each station in this figure.

**Table A.** Name and identification numbers of stations assessed for regional-curve development in Pennsylvania and selected areas of Maryland.

Station name	Cross-reference identification number	U.S. Geological Survey station identification number
Pohopoco Creek at Kresgeville, Pa.	1	01449360
Aquashicola Creek at Palmerton, Pa.	2	01450500
Little Lehigh Creek near Allentown, Pa.	3	01451500
Little Lehigh Creek at 10th Street Bridge at Allentown, Pa.	4	01451650
Jordan Creek near Schnecksville, Pa.	5	01451800
Jordan Creek at Allentown, Pa.	6	01452000
Monocacy Creek at Bethlehem, Pa.	7	01452500
Schuylkill River at Landingville, Pa.	8	01468500
Little Schuylkill River at Tamaqua, Pa.	9	01469500
Maiden Creek at Virginville, Pa.	10	01470756
Tulpehocken Creek near Bernville, Pa.	11	01470779
Corey Creek near Mainesburg, Pa.	12	01516500
Crooked Creek below Catlin Hollow at Middlebury Center, Pa.	13	01518420
Tuscarora Creek near Silvara, Pa.	14	01533250
Toby Creek at Luzerne, Pa.	15	01537000
Wapwallopen Creek near Wapwallopen, Pa.	16	01538000
Wilson Run at Penfield, Pa.	17	01542720
Waldy Run near Emporium, Pa.	18	01542810
First Fork Sinnemahoning Creek at Wharton, Pa.	19	01543700
Kettle Creek at Cross Fork, Pa.	20	01544500
Young Womans Creek near Renovo, Pa.	21	01545600
Spring Creek at Houserville, Pa.	22	01546400
Spring Creek near Axemann, Pa.	23	01546500
Spring Creek at Milesburg, Pa.	24	01547100
Marsh Creek at Blanchard, Pa.	25	01547700
Blockhouse Creek near English Center, Pa.	26	01549500
Lycoming Creek near Trout Run, Pa.	27	01550000
Muncy Creek near Sonestown, Pa.	28	01552500
Chillisquaque Creek at Washingtonville, Pa.	29	01553700
East Mahantango Creek near Dalmatia, Pa.	30	01555500
Kishacoquillas Creek at Reedsville, Pa.	31	01565000
Tuscarora Creek near Port Royal, Pa.	32	01566000
Bixler Run near Loysville, Pa.	33	01567500
Sherman Creek at Shermans Dale, Pa.	34	01568000
Newburg Run at Newburg, Pa.	35	01569340
Yellow Breeches Creek near Camp Hill, Pa.	36	01571500
Quittapahilla Creek near Bellegrove, Pa.	37	01573160
Tonoloway Creek near Needmore, Pa.	38	01613050
Marsh Run at Grimes, Md. <sup>1</sup>	39	01617800
Kinzua Creek near Guffey, Pa.	40	03011800
West Branch French Creek near Lowville, Pa.	41	03021410
Woodcock Creek at Blooming Valley, Pa.	42	03022540
Sevenmile Run near Rasselas, Pa.	43	03026500
West Branch Clarion River at Wilcox, Pa.	44	03028000
Little Mahoning Creek at McCormick, Pa.	45	03034500
North Fork Bens Creek at North Fork, Pa.	46	03039925
Buffalo Creek near Freeport, Pa.	47	03049000
Little Pine Creek near Etna, Pa.	48	03049800

**Table A.** Name and identification numbers of stations assessed for regional-curve development in Pennsylvania and selected areas of Maryland.—Continued

Station name	Cross-reference identification number	U.S. Geological Survey station identification number
Browns Creek near Nineveh, Pa.	49	03072880
Laurel Hill Creek at Ursina, Pa.	50	03080000
Little Shenango River at Greenville, Pa.	51	03102500
Brandy Run near Girard, Pa.	52	04213075
Manatawny Creek near Pottstown, Pa.	W1 <sup>2</sup>	01471980
French Creek near Phoenixville, Pa.	W2	01472157
Perkiomen Creek at East Greenville, Pa.	W3	01472198
West Branch Perkiomen Creek at Hillegas, Pa.	W4	01472199
Crum Creek near Newtown Square, Pa.	C5 <sup>3</sup>	01475850
Chester Creek near Chester, Pa.	C6	01477000
West Branch Brandywine Creek near Honey Brook, Pa.	C7	01480300
West Branch Brandywine Creek at Coatesville, Pa.	C8	01480500
Sucker Run near Coatesville, Pa.	W9	01480610
West Branch Brandywine Creek at Modena, Pa.	C10	01480617
Conowingo Creek near Buck, Pa.	C11	01578200
Beaver Run near Finksburg, Md.	C12 <sup>4</sup>	01586210
Morgan Run near Louisville, Md.	C13 <sup>4</sup>	01586610
Big Pipe Creek at Bruceville, Md.	W14 <sup>4</sup>	01639500

<sup>1</sup> All data provided by Edward Doheny, U.S. Geological Survey, written commun., 2004.

<sup>2</sup> “W” indicates that data were originally published in White (2001).

<sup>3</sup> “C” indicates that data were originally published in Cinotto (2003).

<sup>4</sup> All data provided by R.W. James, Jr., U.S. Geological Survey, oral commun., 2001.

## Cross-reference

### No. 1



View looking downstream at the reach of Pohopoco Creek containing cross section at station 282, June 25, 2002.

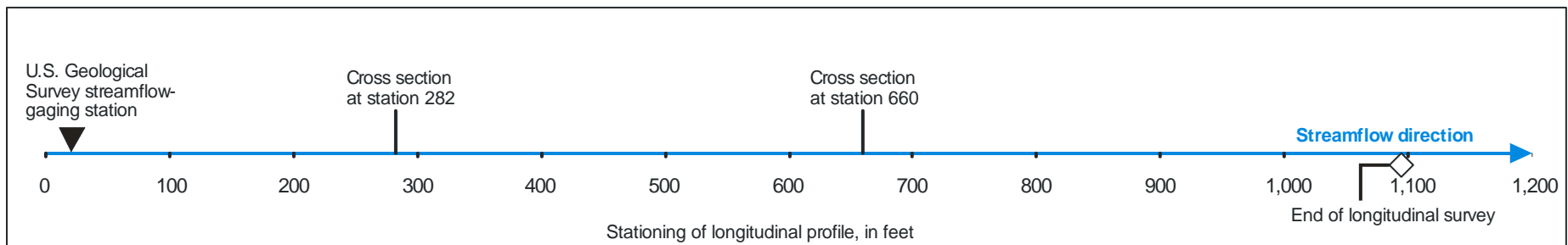
Cross-sectional data at station 282	
Bankfull cross-sectional area (ft <sup>2</sup> )	238
Bankfull width (ft)	77.0
Bankfull mean depth (ft)	3.09
D50 (mm)	94.8
D84 (mm)	187



View looking downstream at the reach of Pohopoco Creek containing cross section at station 660, June 25, 2002.

Cross-sectional data at station 660	
Bankfull cross-sectional area (ft <sup>2</sup> )	237
Bankfull width (ft)	87.9
Bankfull mean depth (ft)	2.43
D50 (mm)	98.0
D84 (mm)	133

## Pohopoco Creek at Kresgeville, Pa., Station Number 01449360



## Cross-reference

### No. 2



View looking downstream at the reach of Aquashicola Creek containing cross section at station 1,061, February 27, 2002.

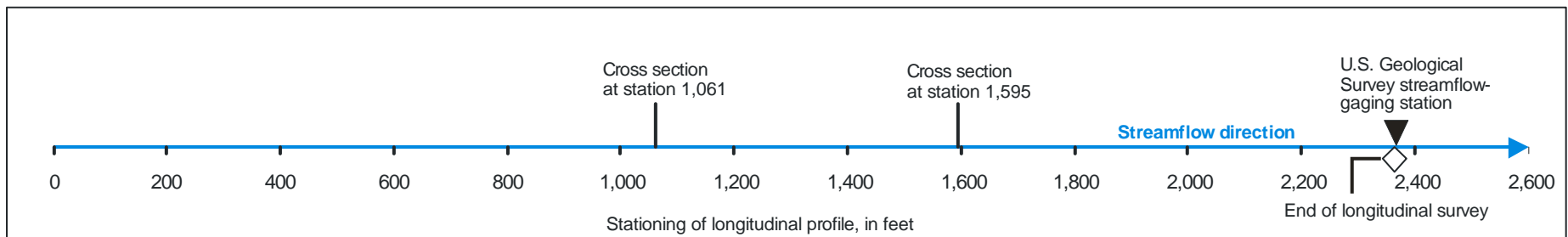
Cross-sectional data at station 1,061	
Bankfull cross-sectional area (ft <sup>2</sup> )	396
Bankfull width (ft)	159
Bankfull mean depth (ft)	2.49
D50 (mm)	109
D84 (mm)	172



View looking upstream at the reach of Aquashicola Creek containing cross section at station 1,595, February 27, 2002.

Cross-sectional data at station 1,595	
Bankfull cross-sectional area (ft <sup>2</sup> )	387
Bankfull width (ft)	133
Bankfull mean depth (ft)	2.92
D50 (mm)	88.5
D84 (mm)	170

## Aquashicola Creek at Palmerton, Pa., Station Number 01450500



## Cross-reference

No. 3



View looking upstream at the reach of Little Lehigh Creek containing cross section at station 1, September 20, 2001.

View looking upstream at the reach of Little Lehigh Creek containing cross section at station 629, September 20, 2001.

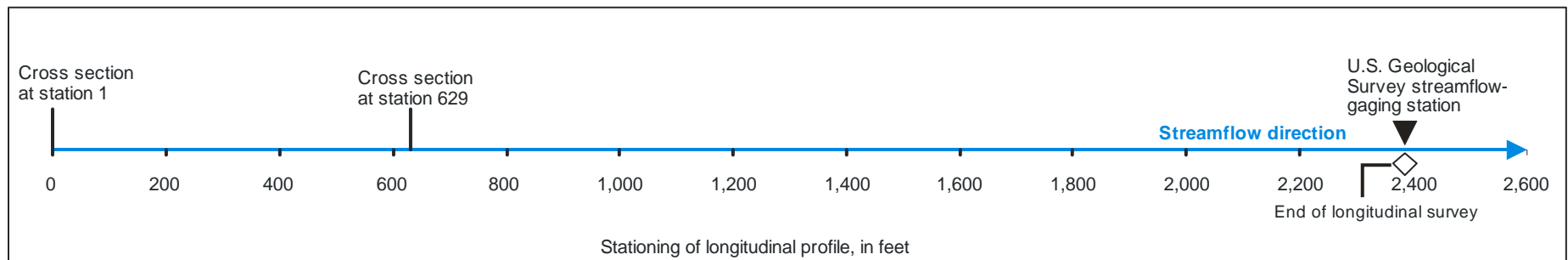
Cross-sectional data at station 1

Bankfull cross-sectional area (ft <sup>2</sup> )	222
Bankfull width (ft)	62.2
Bankfull mean depth (ft)	3.56
D50 (mm)	24.4
D84 (mm)	193

Cross-sectional data at station 629

Bankfull cross-sectional area (ft <sup>2</sup> )	240
Bankfull width (ft)	65.2
Bankfull mean depth (ft)	3.69
D50 (mm)	84.3
D84 (mm)	217

## Little Lehigh Creek near Allentown, Pa., Station Number 01451500



## Cross-reference

No. 4



View looking downstream at the reach of Little Lehigh Creek at 10<sup>th</sup> St Bridge containing cross section at station 702, September 18, 2001.

### Cross-sectional data at station 702

Bankfull cross-sectional area (ft <sup>2</sup> )	240
Bankfull width (ft)	80.9
Bankfull mean depth (ft)	2.97
D50 (mm)	32.0
D84 (mm)	104

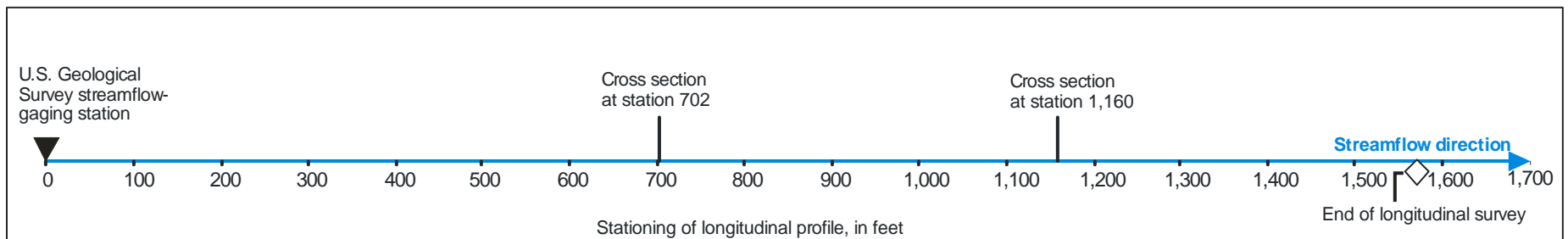


View looking upstream at the reach of Little Lehigh Creek at 10<sup>th</sup> St Bridge containing cross section at station 1,160, September 18, 2001.

### Cross-sectional data at station 1,160

Bankfull cross-sectional area (ft <sup>2</sup> )	189
Bankfull width (ft)	52.6
Bankfull mean depth (ft)	3.59
D50 (mm)	48.0
D84 (mm)	147

## Little Lehigh Creek at 10<sup>th</sup> St Bridge at Allentown, Pa., Station Number 01451650



## Cross-reference

### No. 5



View looking upstream at the reach of Jordan Creek near Schnecksville containing cross section at station 69, September 11, 2001.

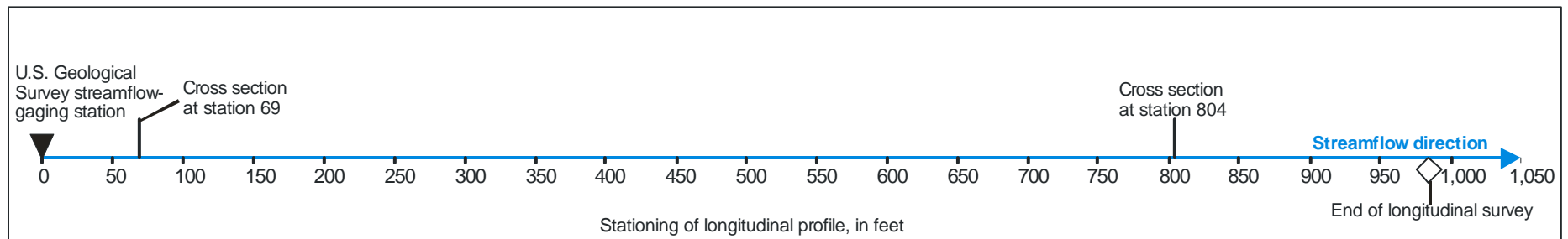
Cross-sectional data at station 69	
Bankfull cross-sectional area (ft <sup>2</sup> )	365
Bankfull width (ft)	111
Bankfull mean depth (ft)	3.31
D50 (mm)	56.3
D84 (mm)	142



View looking upstream at the reach of Jordan Creek near Schnecksville containing cross section at station 804, September 10, 2001.

Cross-sectional data at station 804	
Bankfull cross-sectional area (ft <sup>2</sup> )	298
Bankfull width (ft)	101
Bankfull mean depth (ft)	2.94
D50 (mm)	34.2
D84 (mm)	110

## Jordan Creek near Schnecksville, Pa., Station Number 01451800





## Cross-reference

### No. 6



View looking upstream at the reach of Jordan Creek at Allentown containing cross section at station 343, August 23, 2001.

#### Cross-sectional data at station 343

Bankfull cross-sectional area (ft <sup>2</sup> )	268
Bankfull width (ft)	72.0
Bankfull mean depth (ft)	3.73
D50 (mm)	17.7
D84 (mm)	112

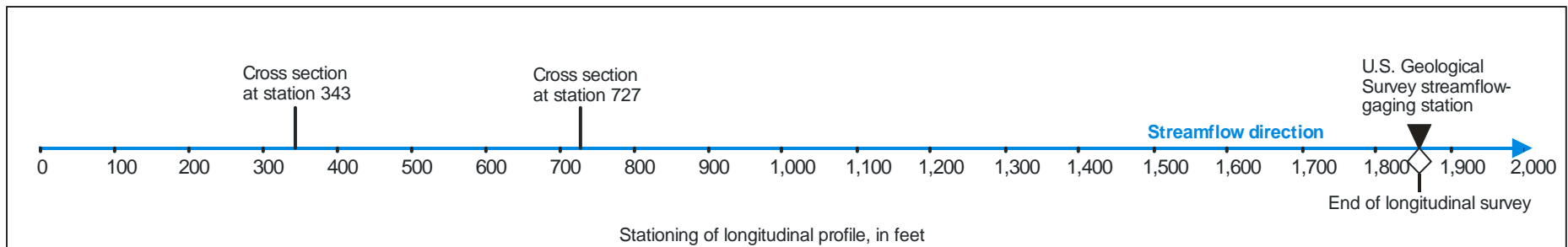


View looking downstream at the reach of Jordan Creek at Allentown containing cross section at station 727, August 23, 2001.

#### Cross-sectional data at station 727

Bankfull cross-sectional area (ft <sup>2</sup> )	353
Bankfull width (ft)	139
Bankfull mean depth (ft)	1.65
D50 (mm)	58.7
D84 (mm)	124

## Jordan Creek at Allentown, Pa., Station Number 01452000



## Cross-reference

### No. 7



View looking downstream at the reach of Monocacy Creek containing cross section at station 91, February 25, 2002.

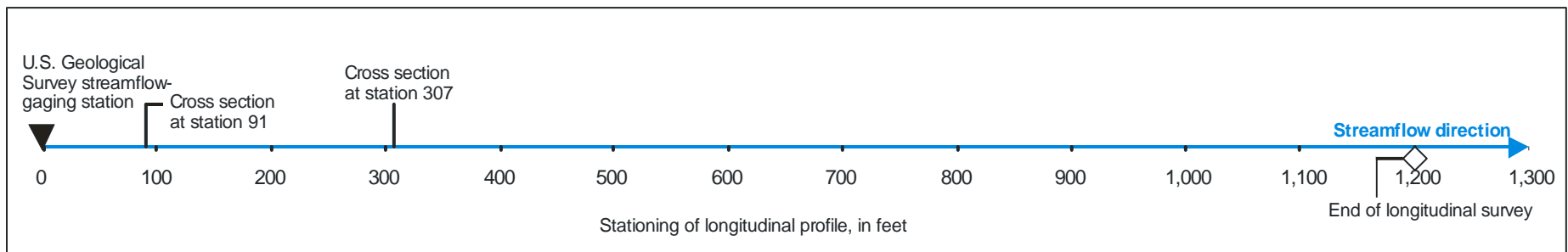
Cross-sectional data at station 91	
Bankfull cross-sectional area (ft <sup>2</sup> )	126
Bankfull width (ft)	58.5
Bankfull mean depth (ft)	2.16
D50 (mm)	79.6
D84 (mm)	162



View looking downstream at the reach of Monocacy Creek containing cross section at station 307, February 26, 2002.

Cross-sectional data at station 307	
Bankfull cross-sectional area (ft <sup>2</sup> )	103
Bankfull width (ft)	50.6
Bankfull mean depth (ft)	2.04
D50 (mm)	32.8
D84 (mm)	86.4

## Monocacy Creek at Bethlehem, Pa., Station Number 01452500



## Cross-reference

No. 8



View looking downstream at the reach of Schuylkill River containing cross section at station 1,225, July 10, 2002.

View looking upstream at the reach of Schuylkill River containing cross section at station 2,620, July 11, 2002.

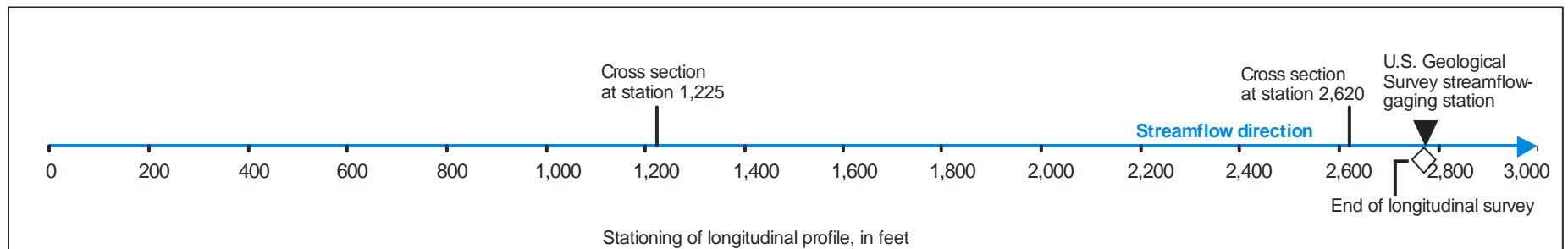
### Cross-sectional data at station 1,225

Bankfull cross-sectional area (ft <sup>2</sup> )	609
Bankfull width (ft)	115
Bankfull mean depth (ft)	5.32
D50 (mm)	20.4
D84 (mm)	41.4

### Cross-sectional data at station 2,620

Bankfull cross-sectional area (ft <sup>2</sup> )	543
Bankfull width (ft)	112
Bankfull mean depth (ft)	4.85
D50 (mm)	33.4
D84 (mm)	55.9

## Schuylkill River at Landingville, Pa., Station Number 01468500



## Cross-reference

### No. 9



View looking upstream at the reach of Little Schuylkill River containing cross section at station 386, July 9, 2002.

#### Cross-sectional data at station 386

Bankfull cross-sectional area (ft <sup>2</sup> )	156
Bankfull width (ft)	57.5
Bankfull mean depth (ft)	2.71
D50 (mm)	120
D84 (mm)	295

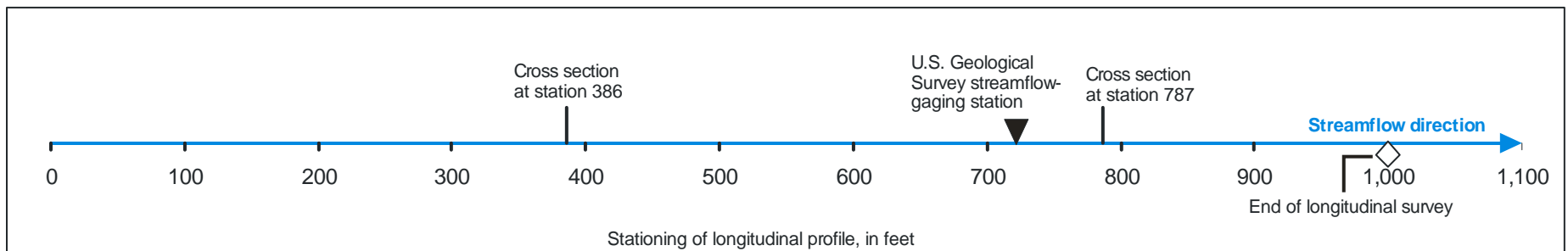


View looking downstream at the reach of Little Schuylkill River containing cross section at station 787, July 9, 2002.

#### Cross-sectional data at station 787

Bankfull cross-sectional area (ft <sup>2</sup> )	134
Bankfull width (ft)	53.5
Bankfull mean depth (ft)	2.50
D50 (mm)	118
D84 (mm)	202

## Little Schuylkill River at Tamaqua, Pa., Station Number 01469500



## Cross-reference

### No. 10



View looking upstream at the reach of Maiden Creek containing cross section at station 388, July 23, 2002.

View looking downstream at the reach of Maiden Creek containing cross section at station 1,310, July 23, 2002.

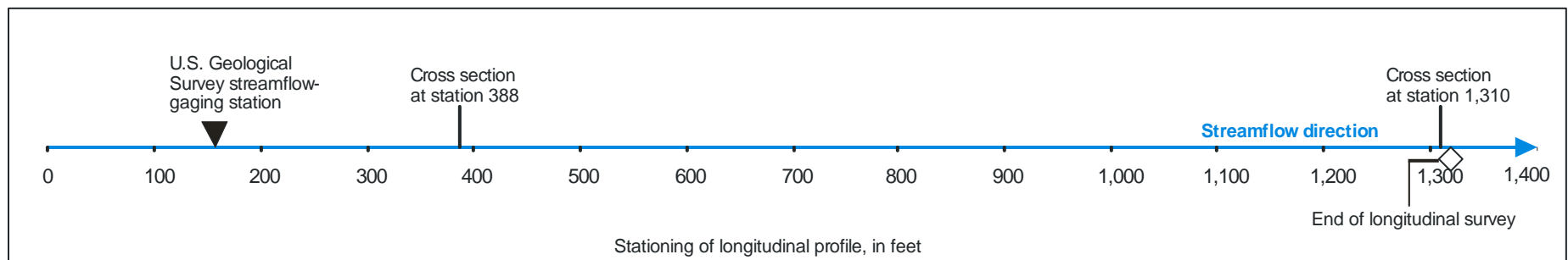
#### Cross-sectional data at station 388

Bankfull cross-sectional area (ft <sup>2</sup> )	733
Bankfull width (ft)	158
Bankfull mean depth (ft)	4.64
D50 (mm)	31.0
D84 (mm)	80.4

#### Cross-sectional data at station 1,310

Bankfull cross-sectional area (ft <sup>2</sup> )	609
Bankfull width (ft)	155
Bankfull mean depth (ft)	3.93
D50 (mm)	35.1
D84 (mm)	80.4

## Maiden Creek at Virginville, Pa., Station Number 01470756



## Cross-reference

### No. 11



View looking upstream at the reach of Tulpehocken Creek containing cross section at station 406, August 21, 2001.

View looking downstream at the reach of Tulpehocken Creek containing cross section at station 920, August 21, 2001.

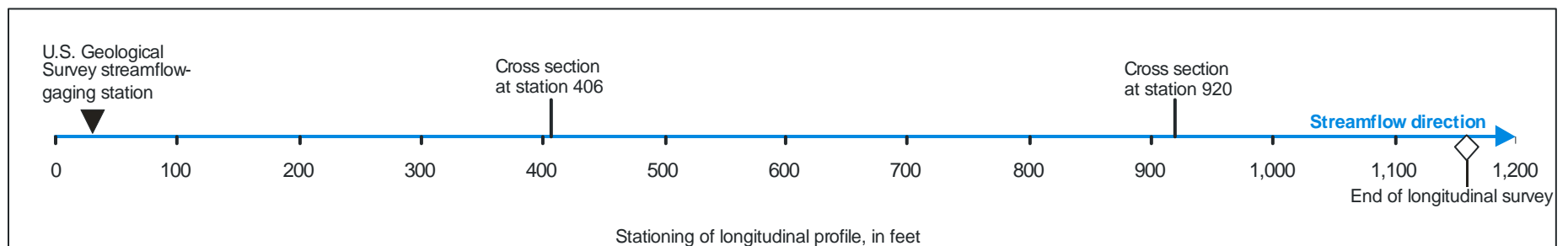
#### Cross-sectional data at station 406

Bankfull cross-sectional area (ft <sup>2</sup> )	360
Bankfull width (ft)	148
Bankfull mean depth (ft)	2.51
D50 (mm)	19.2
D84 (mm)	88.5

#### Cross-sectional data at station 920

Bankfull cross-sectional area (ft <sup>2</sup> )	250
Bankfull width (ft)	73.5
Bankfull mean depth (ft)	3.41
D50 (mm)	29.3
D84 (mm)	64.0

## Tulpehocken Creek near Bernville, Pa., Station Number 01470779



## Cross-reference

### No. 12



View looking downstream at the reach of Corey Creek containing cross section at station 582, February 11, 2002.

View looking downstream at the reach of Corey Creek containing cross section at station 818, February 12, 2002.

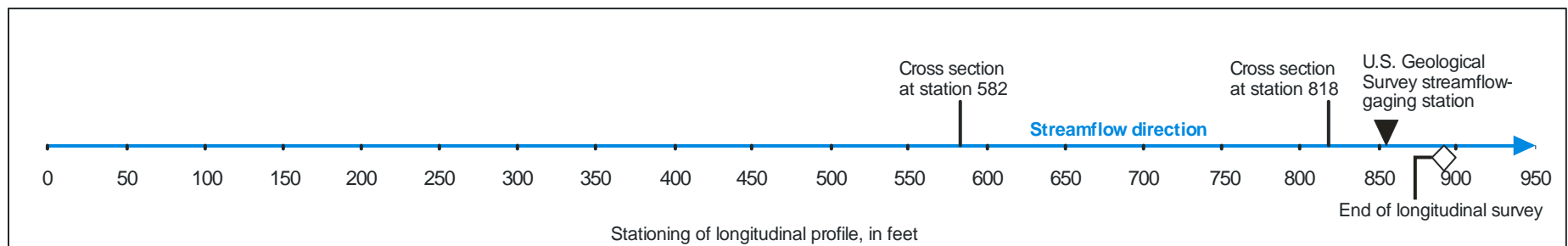
#### Cross-sectional data at station 582

Bankfull cross-sectional area (ft <sup>2</sup> )	209
Bankfull width (ft)	107
Bankfull mean depth (ft)	2.23
D50 (mm)	97.2
D84 (mm)	229

#### Cross-sectional data at station 818

Bankfull cross-sectional area (ft <sup>2</sup> )	96
Bankfull width (ft)	35.3
Bankfull mean depth (ft)	2.73
D50 (mm)	39.2
D84 (mm)	144

## Corey Creek near Mainesburg, Pa., Station Number 01516500



## Cross-reference No. 13



View looking downstream at the reach of Crooked Creek containing cross section at station 525, November 18, 2003.

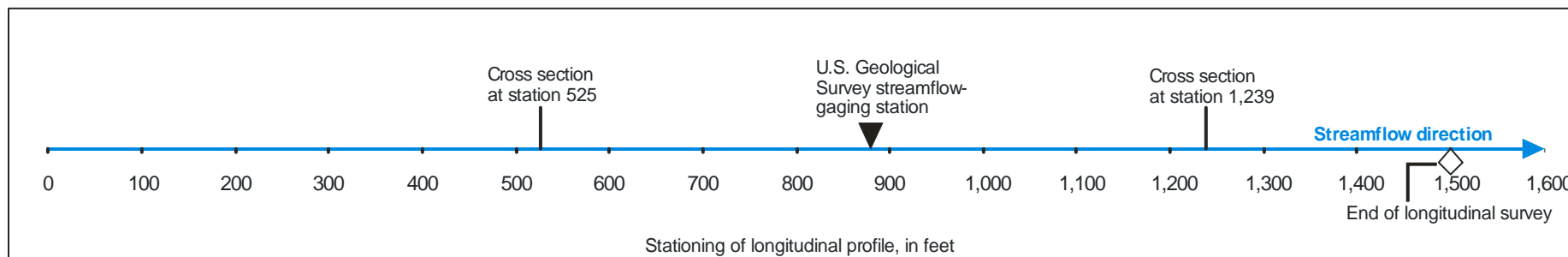
Cross-sectional data at station 525	
Bankfull cross-sectional area (ft <sup>2</sup> )	394
Bankfull width (ft)	92.6
Bankfull mean depth (ft)	4.25
D50 (mm)	40.8
D84 (mm)	69.6



View looking downstream at the reach of Crooked Creek containing cross section at station 1,239, December 1, 2003.

Cross-sectional data at station 1,239	
Bankfull cross-sectional area (ft <sup>2</sup> )	563
Bankfull width (ft)	125
Bankfull mean depth (ft)	4.49
D50 (mm)	25.6
D84 (mm)	51.8

### Crooked Creek below Catlin Hollow at Middlebury Center, Pa., Station Number 01518420



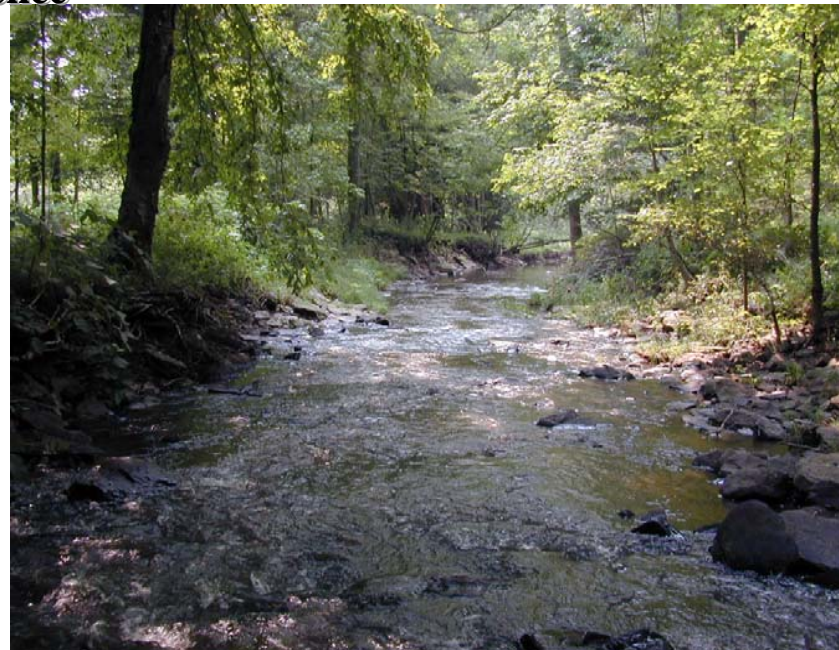


## Cross-reference

### No. 14



View looking downstream at the reach of Tuscarora Creek containing cross section at station 210, August 6, 2003.



View looking downstream at the reach of Tuscarora Creek containing cross section at station 805, August 6, 2003.

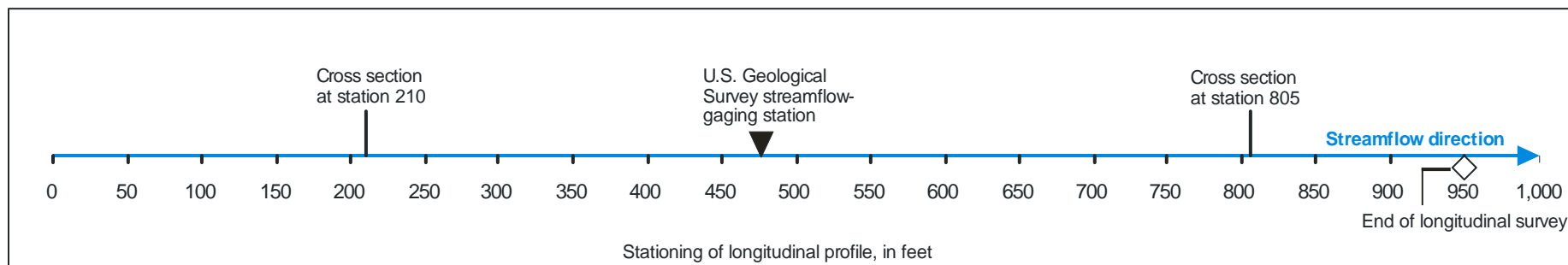
#### Cross-sectional data at station 210

Bankfull cross-sectional area (ft <sup>2</sup> )	81
Bankfull width (ft)	55.0
Bankfull mean depth (ft)	1.07
D50 (mm)	106
D84 (mm)	324

#### Cross-sectional data at station 805

Bankfull cross-sectional area (ft <sup>2</sup> )	79
Bankfull width (ft)	61.8
Bankfull mean depth (ft)	1.03
D50 (mm)	127
D84 (mm)	239

## Tuscarora Creek near Silvara, Pa., Station Number 01533250



## Cross-reference

### No. 15



View looking downstream at the reach of Toby Creek containing cross section at station 97, June 24, 2002.



View looking downstream at the reach of Toby Creek containing cross section at station 330, June 24, 2002.

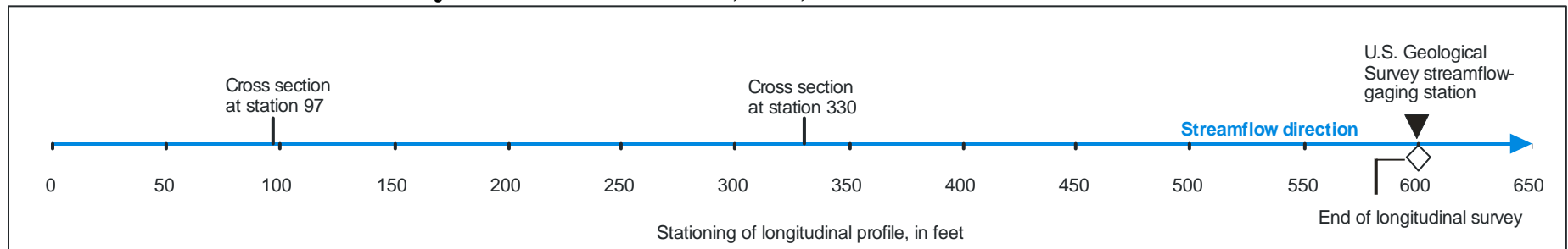
#### Cross-sectional data at station 97

Bankfull cross-sectional area (ft <sup>2</sup> )	113
Bankfull width (ft)	46.5
Bankfull mean depth (ft)	2.43
D50 (mm)	108
D84 (mm)	190

#### Cross-sectional data at station 330

Bankfull cross-sectional area (ft <sup>2</sup> )	116
Bankfull width (ft)	51.7
Bankfull mean depth (ft)	2.25
D50 (mm)	134
D84 (mm)	252

## Toby Creek at Luzerne, Pa., Station Number 01537000



## Cross-reference

### No. 16



View looking upstream at the reach of Wapwallopen Creek containing cross section at station 286, June 26, 2002.

#### Cross-sectional data at station 286

Bankfull cross-sectional area (ft <sup>2</sup> )	224
Bankfull width (ft)	83.5
Bankfull mean depth (ft)	2.69
D50 (mm)	58.8
D84 (mm)	171

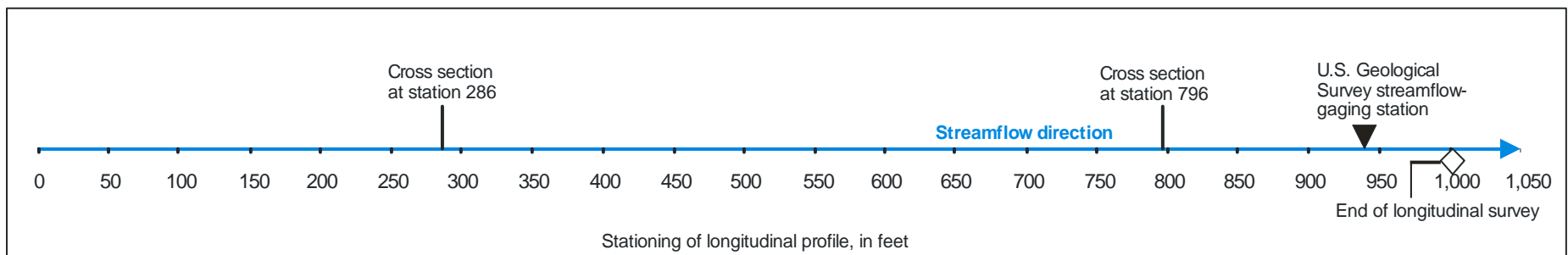


View looking downstream at the reach of Wapwallopen Creek containing cross section at station 796, June 26, 2002.

#### Cross-sectional data at station 796

Bankfull cross-sectional area (ft <sup>2</sup> )	156
Bankfull width (ft)	55.0
Bankfull mean depth (ft)	2.84
D50 (mm)	57.9
D84 (mm)	122

## Wapwallopen Creek near Wapwallopen, Pa., Station Number 01538000



## Cross-reference

### No. 17



View looking upstream at the reach of Wilson Run containing cross section at station 71, June 19, 2003.

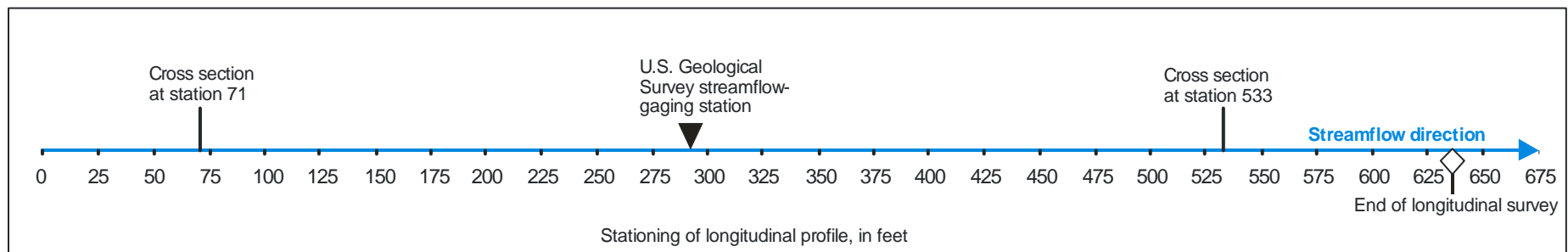
Cross-sectional data at station 71	
Bankfull cross-sectional area (ft <sup>2</sup> )	57
Bankfull width (ft)	25.9
Bankfull mean depth (ft)	2.20
D50 (mm)	35.4
D84 (mm)	101



View looking upstream at the reach of Wilson Run containing cross section at station 533, June 20, 2003.

Cross-sectional data at station 533	
Bankfull cross-sectional area (ft <sup>2</sup> )	36
Bankfull width (ft)	30.2
Bankfull mean depth (ft)	1.19
D50 (mm)	51.3
D84 (mm)	103

## Wilson Run at Penfield, Pa., Station Number 01542720



## Cross-reference

### No. 18



View looking downstream at the reach of Waldy Run containing cross section at station 117, June 18, 2003.



View looking upstream at the reach of Waldy Run containing cross section at station 408, June 18, 2003.

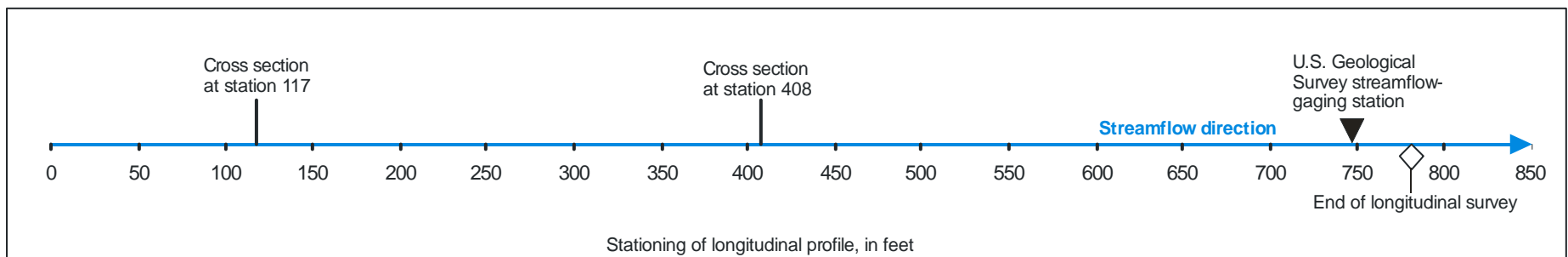
#### Cross-sectional data at station 117

Bankfull cross-sectional area (ft <sup>2</sup> )	42
Bankfull width (ft)	64.0
Bankfull mean depth (ft)	0.90
D50 (mm)	103
D84 (mm)	228

#### Cross-sectional data at station 408

Bankfull cross-sectional area (ft <sup>2</sup> )	44
Bankfull width (ft)	24.7
Bankfull mean depth (ft)	1.77
D50 (mm)	99.1
D84 (mm)	184

## Waldy Run near Emporium, Pa., Station Number 01542810



## Cross-reference No. 19



View looking downstream at the reach of First Fork Sinnemahoning Creek containing cross section at station 940, August 19, 2003.

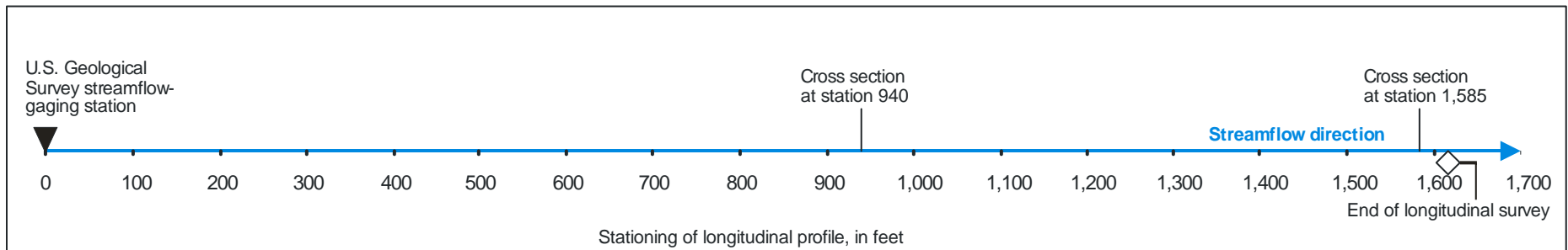
Cross-sectional data at station 940	
Bankfull cross-sectional area (ft <sup>2</sup> )	874
Bankfull width (ft)	196
Bankfull mean depth (ft)	4.37
D50 (mm)	105
D84 (mm)	243



View looking upstream at the reach of First Fork Sinnemahoning Creek containing cross section at station 1,585, August 19, 2003.

Cross-sectional data at station 1,585	
Bankfull cross-sectional area (ft <sup>2</sup> )	629
Bankfull width (ft)	161
Bankfull mean depth (ft)	3.90
D50 (mm)	110
D84 (mm)	220

### First Fork Sinnemahoning Creek at Wharton, Pa., Station Number 01543700



## Cross-reference

### No. 20



View looking upstream at the reach of Kettle Creek containing cross section at station 15, August 19, 2003.

#### Cross-sectional data at station 15

Bankfull cross-sectional area (ft <sup>2</sup> )	526
Bankfull width (ft)	165
Bankfull mean depth (ft)	3.20
D50 (mm)	91.3
D84 (mm)	177

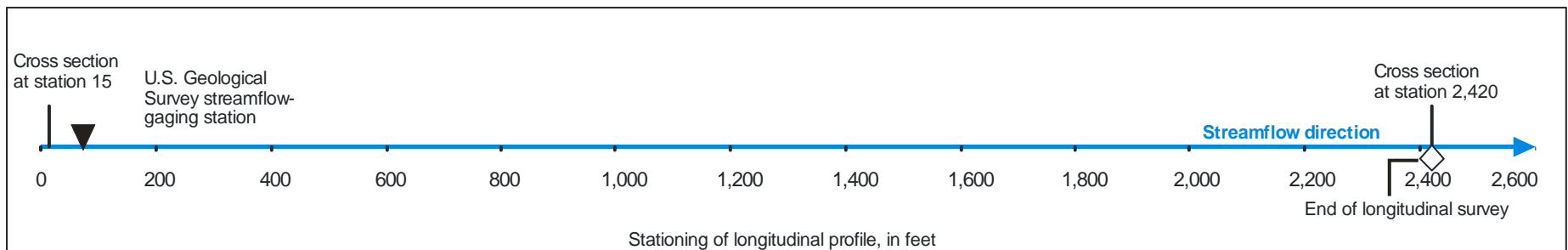


View looking downstream at the reach of Kettle Creek containing cross section at station 2,420, August 19, 2003.

#### Cross-sectional data at station 2,420

Bankfull cross-sectional area (ft <sup>2</sup> )	563
Bankfull width (ft)	153
Bankfull mean depth (ft)	3.68
D50 (mm)	147
D84 (mm)	311

## Kettle Creek at Cross Fork, Pa., Station Number 01544500



## Cross-reference

### No. 21



View looking upstream at the reach of Young Womans Creek containing cross section at station 40, August 8, 2003.

#### Cross-sectional data at station 40

Bankfull cross-sectional area (ft <sup>2</sup> )	236
Bankfull width (ft)	101
Bankfull mean depth (ft)	2.38
D50 (mm)	132
D84 (mm)	283

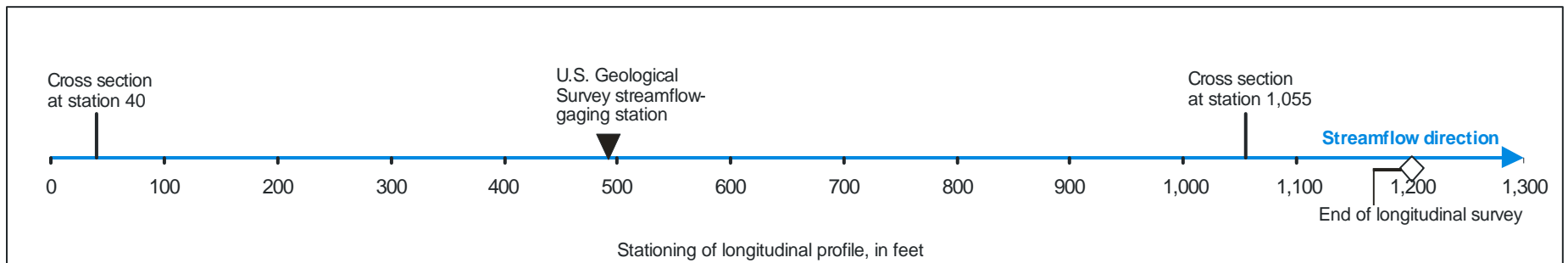


View looking downstream at the reach of Young Womans Creek containing cross section at station 1,055, August 8, 2003.

#### Cross-sectional data at station 1,055

Bankfull cross-sectional area (ft <sup>2</sup> )	190
Bankfull width (ft)	68.3
Bankfull mean depth (ft)	2.79
D50 (mm)	106
D84 (mm)	224

## Young Womans Creek near Renovo, Pa., Station Number 01545600





## Cross-reference

### No. 22



View looking upstream at the reach of Spring Creek at Houserville containing cross section at station 651, August 22, 2002.

#### Cross-sectional data at station 651

Bankfull cross-sectional area (ft <sup>2</sup> )	124
Bankfull width (ft)	47.6
Bankfull mean depth (ft)	2.61
D50 (mm)	50.8
D84 (mm)	127

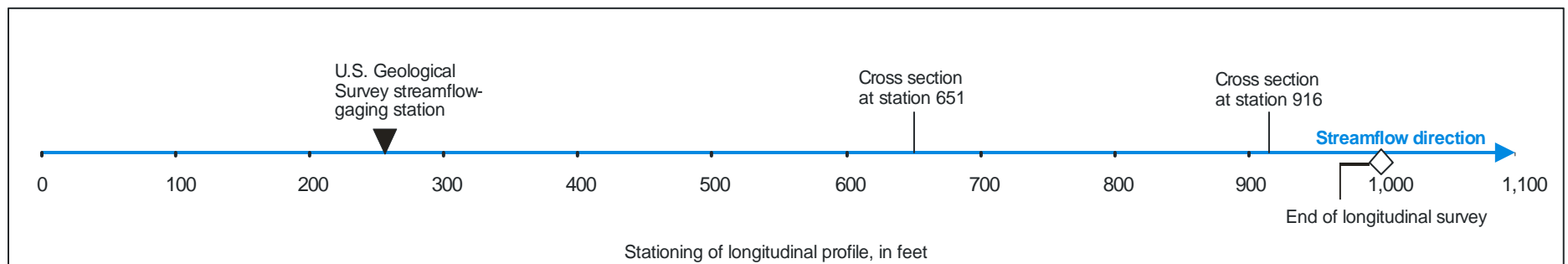


View looking downstream at the reach of Spring Creek at Houserville containing cross section at station 916, August 22, 2002.

#### Cross-sectional data at station 916

Bankfull cross-sectional area (ft <sup>2</sup> )	171
Bankfull width (ft)	84.0
Bankfull mean depth (ft)	2.04
D50 (mm)	50.4
D84 (mm)	113

## Spring Creek at Houserville, Pa., Station Number 01546400



## Cross-reference

### No. 23



View looking downstream at the reach of Spring Creek near Axemann containing cross section at station 174, August 20, 2002.

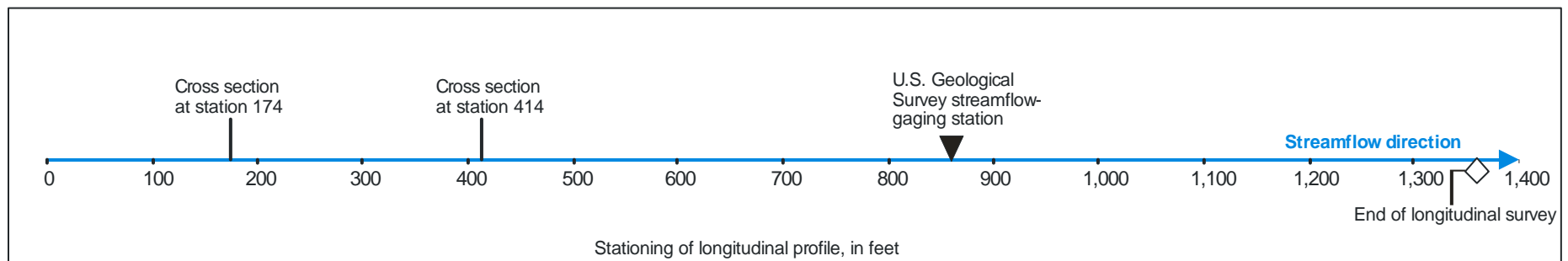
Cross-sectional data at station 174	
Bankfull cross-sectional area (ft <sup>2</sup> )	142
Bankfull width (ft)	66.7
Bankfull mean depth (ft)	2.12
D50 (mm)	59.6
D84 (mm)	131



View looking upstream at the reach of Spring Creek near Axemann containing cross section at station 414, August 20, 2002.

Cross-sectional data at station 414	
Bankfull cross-sectional area (ft <sup>2</sup> )	156
Bankfull width (ft)	65.3
Bankfull mean depth (ft)	2.38
D50 (mm)	80.2
D84 (mm)	160

## Spring Creek near Axemann, Pa., Station Number 01546500



## Cross-reference

### No. 24



View looking downstream at the reach of Spring Creek at Milesburg containing cross section at station 254, August 15, 2002.

View looking downstream at the reach of Spring Creek at Milesburg containing cross section at station 1,218, August 15, 2002.

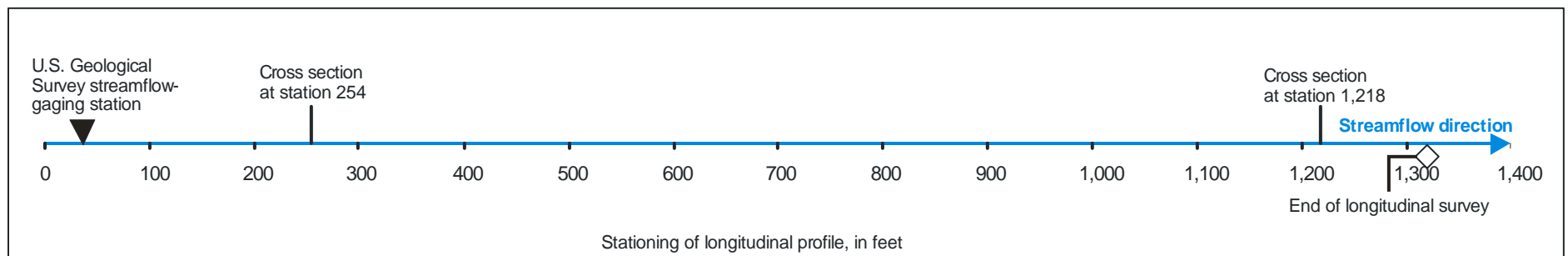
#### Cross-sectional data at station 254

Bankfull cross-sectional area (ft <sup>2</sup> )	336
Bankfull width (ft)	74.2
Bankfull mean depth (ft)	4.52
D50 (mm)	31.5
D84 (mm)	135

#### Cross-sectional data at station 1,218

Bankfull cross-sectional area (ft <sup>2</sup> )	367
Bankfull width (ft)	81.2
Bankfull mean depth (ft)	4.52
D50 (mm)	4.9
D84 (mm)	171

## Spring Creek at Milesburg, Pa., Station Number 01547100



## Cross-reference

### No. 25



View looking downstream at the reach of Marsh Creek containing cross section at station 436, August 13, 2002.

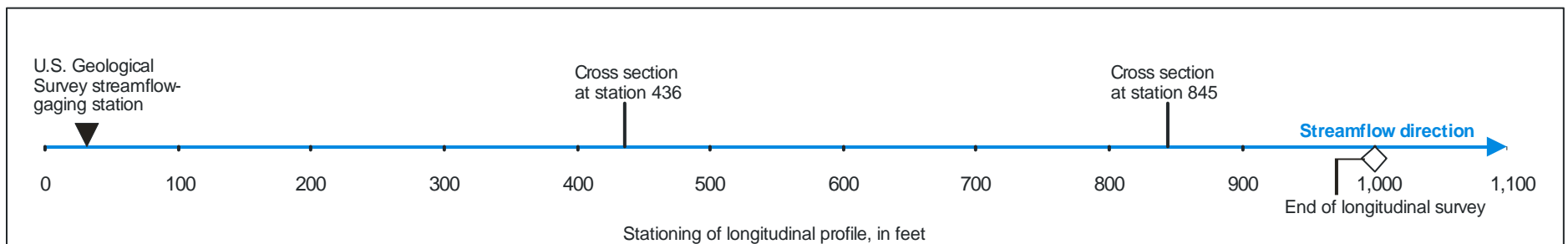
Cross-sectional data at station 436	
Bankfull cross-sectional area (ft <sup>2</sup> )	152
Bankfull width (ft)	70.5
Bankfull mean depth (ft)	2.16
D50 (mm)	88.5
D84 (mm)	165



View looking upstream at the reach of Marsh Creek containing cross section at station 845, August 13, 2002.

Cross-sectional data at station 845	
Bankfull cross-sectional area (ft <sup>2</sup> )	168
Bankfull width (ft)	57.0
Bankfull mean depth (ft)	2.94
D50 (mm)	67.1
D84 (mm)	126

## Marsh Creek at Blanchard, Pa., Station Number 01547700



## Cross-reference

No. 26



View looking downstream at the reach of Blockhouse Creek containing cross section at station 183, August 14, 2003.

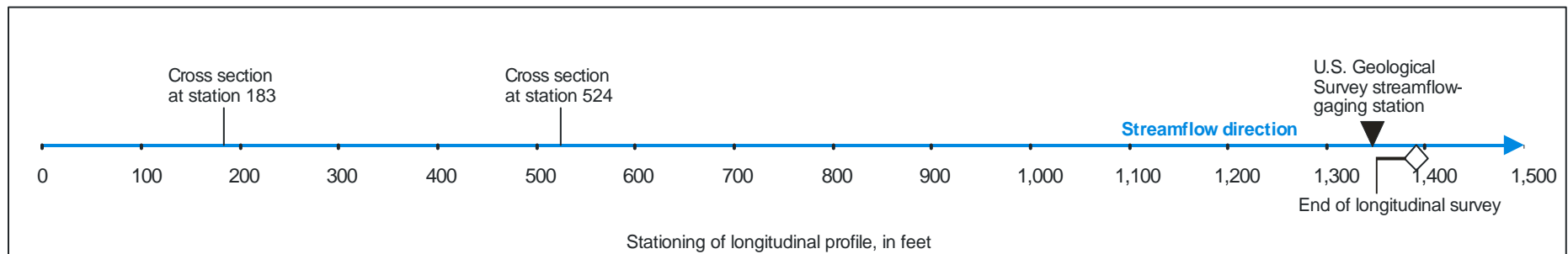
Cross-sectional data at station 183	
Bankfull cross-sectional area (ft <sup>2</sup> )	314
Bankfull width (ft)	96.3
Bankfull mean depth (ft)	3.26
D50 (mm)	102
D84 (mm)	194



View looking downstream at the reach of Blockhouse Creek containing cross section at station 524, August 15, 2003.

Cross-sectional data at station 524	
Bankfull cross-sectional area (ft <sup>2</sup> )	290
Bankfull width (ft)	88.1
Bankfull mean depth (ft)	3.29
D50 (mm)	62.1
D84 (mm)	150

## Blockhouse Creek near English Center, Pa., Station Number 01549500



## Cross-reference No. 27



View looking upstream at the reach of Lycoming Creek containing cross section at station 1,178, August 21, 2003.

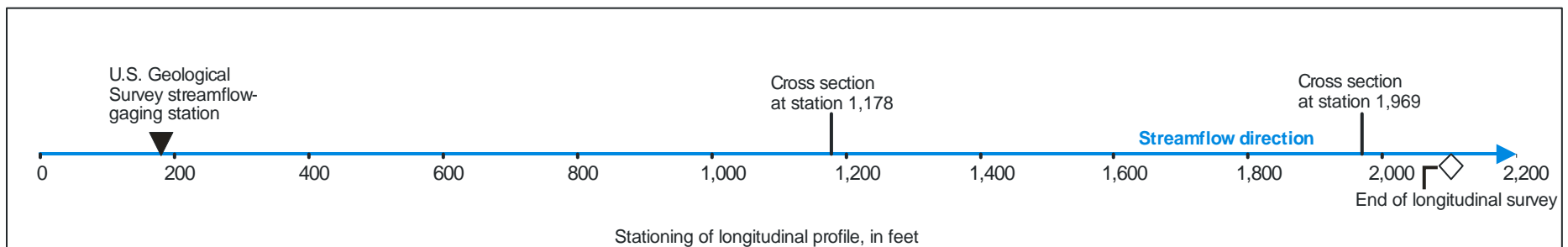
Cross-sectional data at station 1,178	
Bankfull cross-sectional area (ft <sup>2</sup> )	740
Bankfull width (ft)	180
Bankfull mean depth (ft)	4.12
D50 (mm)	122
D84 (mm)	221



View looking upstream at the reach of Lycoming Creek containing cross section at station 1,969, August 20, 2003.

Cross-sectional data at station 1,969	
Bankfull cross-sectional area (ft <sup>2</sup> )	813
Bankfull width (ft)	225
Bankfull mean depth (ft)	3.54
D50 (mm)	145
D84 (mm)	265

### Lycoming Creek near Trout Run, Pa., Station Number 01550000



## Cross-reference

### No. 28



View looking upstream at the reach of Muncy Creek containing cross section at station 380, August 6, 2003.

View looking downstream at the reach of Muncy Creek containing cross section at station 1,062, August 6, 2003.

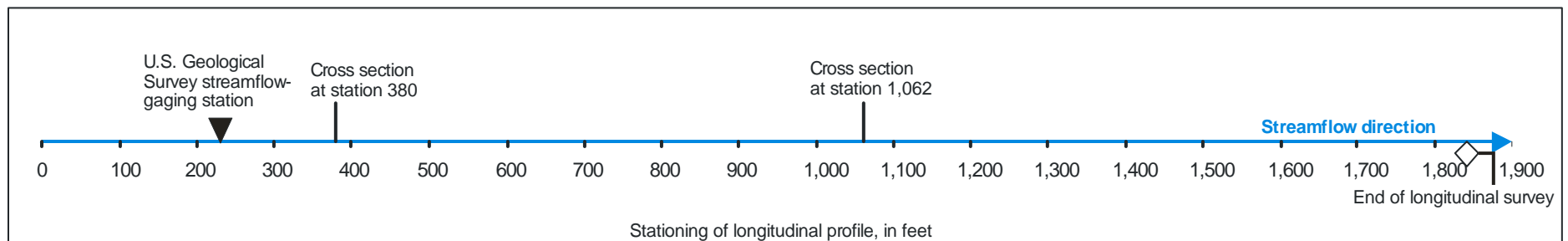
#### Cross-sectional data at station 380

Bankfull cross-sectional area (ft <sup>2</sup> )	249
Bankfull width (ft)	76.4
Bankfull mean depth (ft)	3.26
D50 (mm)	122
D84 (mm)	293

#### Cross-sectional data at station 1,062

Bankfull cross-sectional area (ft <sup>2</sup> )	191
Bankfull width (ft)	60.6
Bankfull mean depth (ft)	3.15
D50 (mm)	108
D84 (mm)	241

## Muncy Creek near Sonestown, Pa., Station Number 01552500



## Cross-reference

No. 29



View looking upstream at the reach of Chillisquaque Creek containing cross section at station 733, July 1, 2002.

### Cross-sectional data at station 733

Bankfull cross-sectional area (ft <sup>2</sup> )	373
Bankfull width (ft)	81.5
Bankfull mean depth (ft)	4.58
D50 (mm)	59.0
D84 (mm)	165

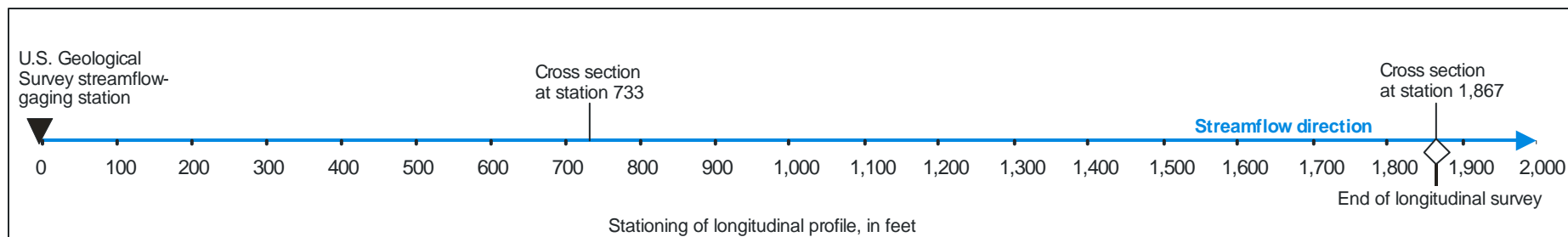


View looking downstream at the reach of Chillisquaque Creek containing cross section at station 1,867, July 1, 2002.

### Cross-sectional data at station 1,867

Bankfull cross-sectional area (ft <sup>2</sup> )	231
Bankfull width (ft)	67.5
Bankfull mean depth (ft)	3.42
D50 (mm)	42.3
D84 (mm)	121

## Chillisquaque Creek at Washingtonville, Pa., Station Number 01553700





## Cross-reference

No. 30



View looking downstream at the reach of East Mahantango Creek containing cross section at station 140, July 25, 2002.

### Cross-sectional data at station 140

Bankfull cross-sectional area (ft <sup>2</sup> )	709
Bankfull width (ft)	137
Bankfull mean depth (ft)	5.18
D50 (mm)	50.4
D84 (mm)	117

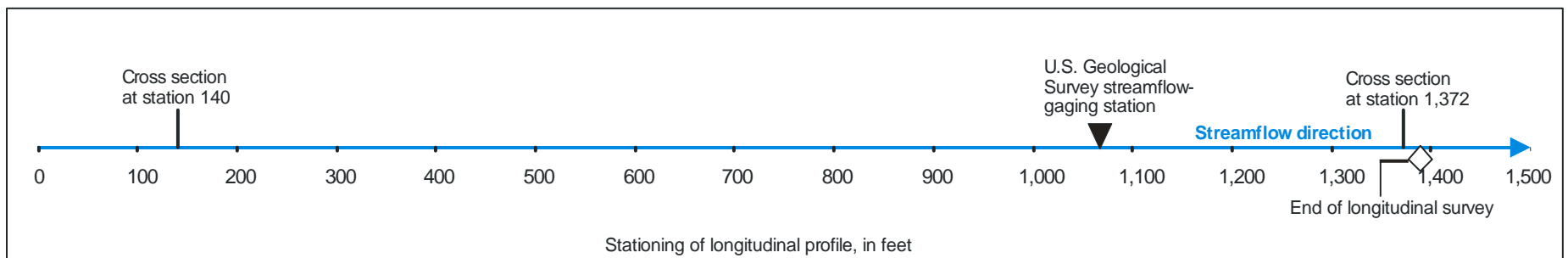


View looking upstream at the reach of East Mahantango Creek containing cross section at station 1,372, July 25, 2002.

### Cross-sectional data at station 1,372

Bankfull cross-sectional area (ft <sup>2</sup> )	652
Bankfull width (ft)	129
Bankfull mean depth (ft)	5.07
D50 (mm)	48.7
D84 (mm)	172

## East Mahantango Creek near Dalmatia, Pa., Station Number 01555500



## Cross-reference

### No. 31



View looking downstream at the reach of Kishacoquillas Creek containing cross section at station 171, August 29, 2002.

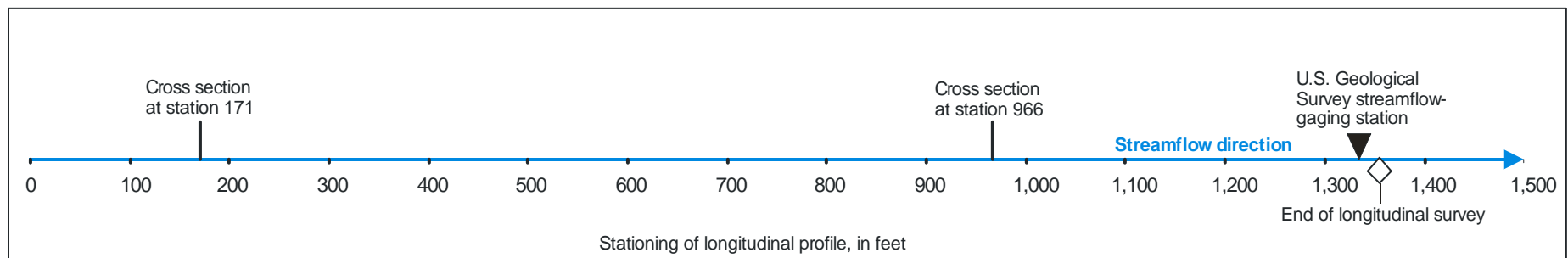
Cross-sectional data at station 171	
Bankfull cross-sectional area (ft <sup>2</sup> )	578
Bankfull width (ft)	103
Bankfull mean depth (ft)	5.60
D50 (mm)	194
D84 (mm)	323



View looking upstream at the reach of Kishacoquillas Creek containing cross section at station 966, August 29, 2002.

Cross-sectional data at station 966	
Bankfull cross-sectional area (ft <sup>2</sup> )	501
Bankfull width (ft)	129
Bankfull mean depth (ft)	3.90
D50 (mm)	166
D84 (mm)	318

## Kishacoquillas Creek at Reedsville, Pa., Station Number 01565000



## Cross-reference

### No. 32



View looking downstream at the reach of Tuscarora Creek near Port Royal containing cross section at station 48, September 5, 2002.

#### Cross-sectional data at station 48

Bankfull cross-sectional area (ft <sup>2</sup> )	1,286
Bankfull width (ft)	220
Bankfull mean depth (ft)	5.84
D50 (mm)	52.1
D84 (mm)	114

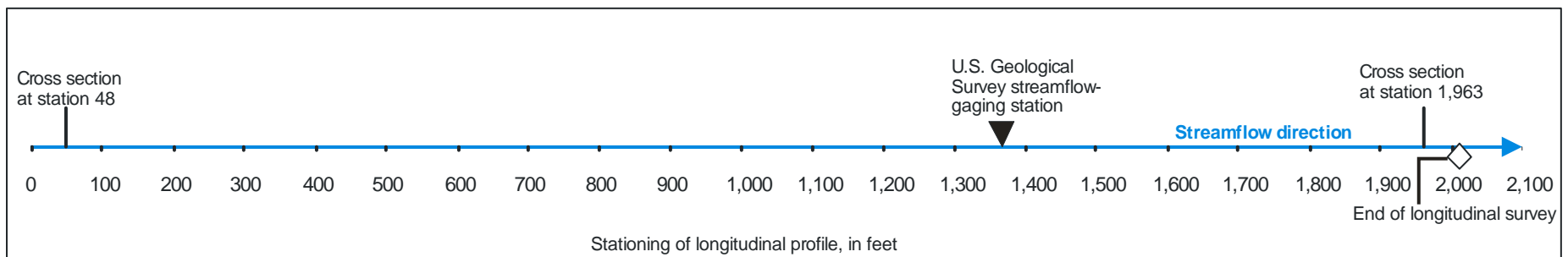


View looking upstream at the reach of Tuscarora Creek near Port Royal containing cross section at station 1,963, September 5, 2002.

#### Cross-sectional data at station 1,963

Bankfull cross-sectional area (ft <sup>2</sup> )	1,153
Bankfull width (ft)	180
Bankfull mean depth (ft)	6.41
D50 (mm)	64.0
D84 (mm)	132

## Tuscarora Creek near Port Royal, Pa., Station Number 01566000



## Cross-reference

### No. 33



View looking upstream at the reach of Bixler Run containing cross section at station 3, August 1, 2002.



View looking downstream at the reach of Bixler Run containing cross section at station 273, August 1, 2002.

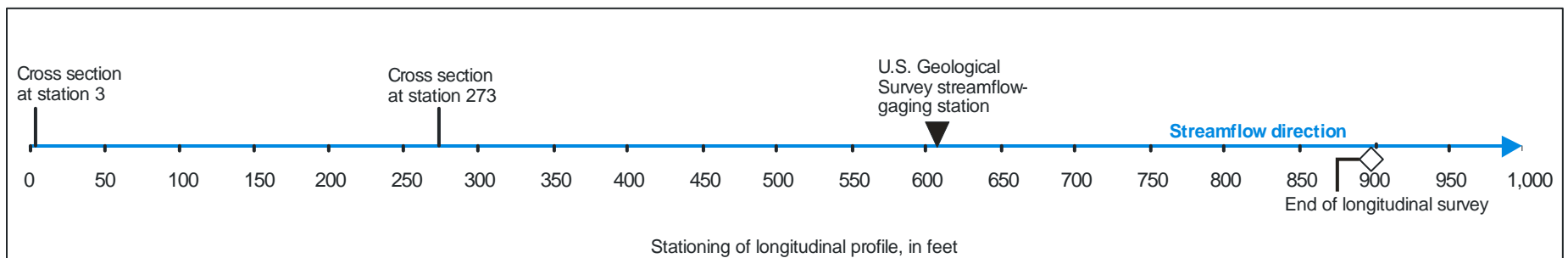
#### Cross-sectional data at station 3

Bankfull cross-sectional area (ft <sup>2</sup> )	108
Bankfull width (ft)	45.6
Bankfull mean depth (ft)	2.38
D50 (mm)	79.0
D84 (mm)	124

#### Cross-sectional data at station 273

Bankfull cross-sectional area (ft <sup>2</sup> )	108
Bankfull width (ft)	40.8
Bankfull mean depth (ft)	2.64
D50 (mm)	63.0
D84 (mm)	128

## Bixler Run near Loysville, Pa., Station Number 01567500



## Cross-reference

### No. 34



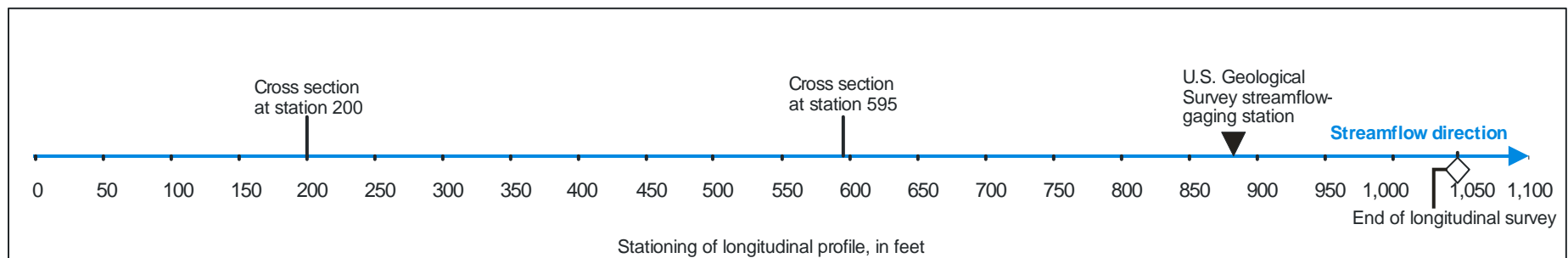
View looking downstream at the reach of Sherman Creek containing cross section at station 200, July 30, 2002.

Cross-sectional data at station 200	
Bankfull cross-sectional area (ft <sup>2</sup> )	810
Bankfull width (ft)	178
Bankfull mean depth (ft)	2.60
D50 (mm)	73.0
D84 (mm)	208

View looking downstream at the reach of Sherman Creek containing cross section at station 595, July 30, 2002.

Cross-sectional data at station 595	
Bankfull cross-sectional area (ft <sup>2</sup> )	1,070
Bankfull width (ft)	227
Bankfull mean depth (ft)	4.71
D50 (mm)	30.3
D84 (mm)	152

## Sherman Creek at Shermans Dale, Pa., Station Number 01568000



## Cross-reference

### No. 35



View looking upstream at the reach of Newburg Run containing cross section at station 82, May 9, 2002.

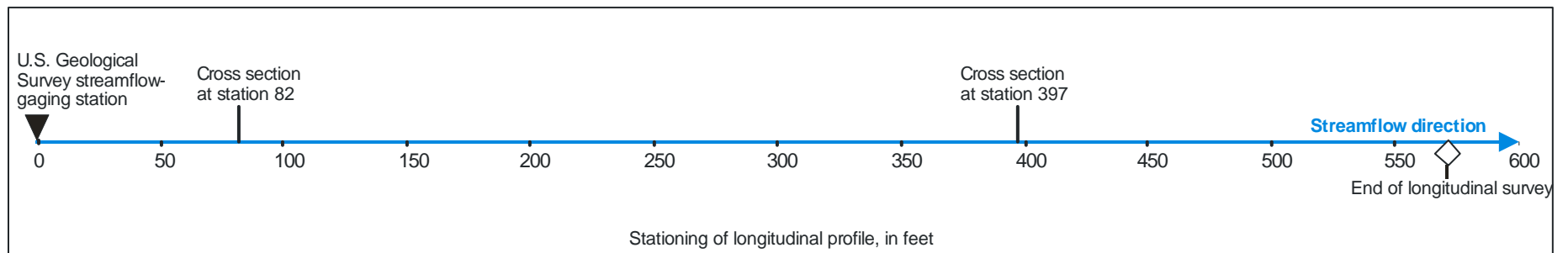
Cross-sectional data at station 82	
Bankfull cross-sectional area (ft <sup>2</sup> )	81
Bankfull width (ft)	50.3
Bankfull mean depth (ft)	1.61
D50 (mm)	33.0
D84 (mm)	73.3



View looking upstream at the reach of Newburg Run containing cross section at station 397, May 9, 2002.

Cross-sectional data at station 397	
Bankfull cross-sectional area (ft <sup>2</sup> )	60
Bankfull width (ft)	32.4
Bankfull mean depth (ft)	1.86
D50 (mm)	45.6
D84 (mm)	104

## Newburg Run at Newburg, Pa., Station Number 01569340



## Cross-reference

**No. 36**



View looking upstream at the reach of Yellow Breeches containing cross section at station 160, May 7, 2002.

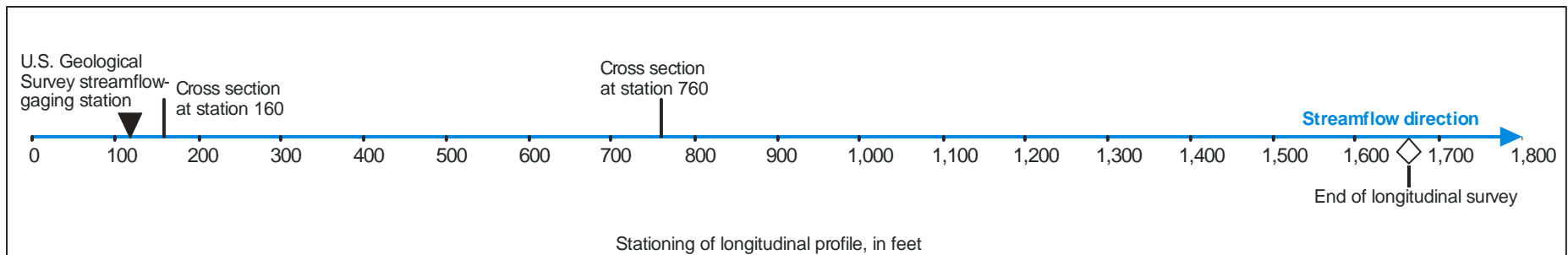
Cross-sectional data at station 160	
Bankfull cross-sectional area (ft <sup>2</sup> )	643
Bankfull width (ft)	120
Bankfull mean depth (ft)	5.34
D50 (mm)	23.4
D84 (mm)	70.8



View looking downstream at the reach of Yellow Breeches containing cross section at station 760, May 7, 2002.

Cross-sectional data at station 760	
Bankfull cross-sectional area (ft <sup>2</sup> )	664
Bankfull width (ft)	134
Bankfull mean depth (ft)	4.97
D50 (mm)	22.5
D84 (mm)	58.2

## Yellow Breeches Creek near Camp Hill, Pa., Station Number 01571500



## Cross-reference

No. 37



View looking downstream at the reach of Quittapahilla Creek containing cross section at station 9, September 25, 2001.

View looking downstream at the reach of Quittapahilla Creek containing cross section at station 820, September 24, 2001.

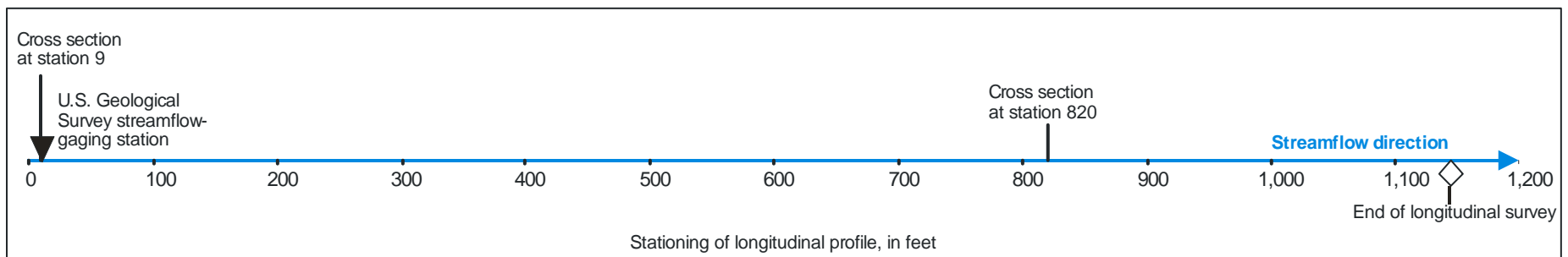
### Cross-sectional data at station 9

Bankfull cross-sectional area (ft <sup>2</sup> )	221
Bankfull width (ft)	69.5
Bankfull mean depth (ft)	3.18
D50 (mm)	14.4
D84 (mm)	56.3

### Cross-sectional data at station 820

Bankfull cross-sectional area (ft <sup>2</sup> )	218
Bankfull width (ft)	74.5
Bankfull mean depth (ft)	2.92
D50 (mm)	5.8
D84 (mm)	14.7

## Quittapahilla Creek near Bellegrove, Pa., Station Number 01573160





## Cross-reference

No. 38



View looking upstream at the reach of Tonoloway Creek containing cross section at station 300, March 26, 2003.



View looking upstream at the reach of Tonoloway Creek containing cross section at station 820, March 26, 2003.

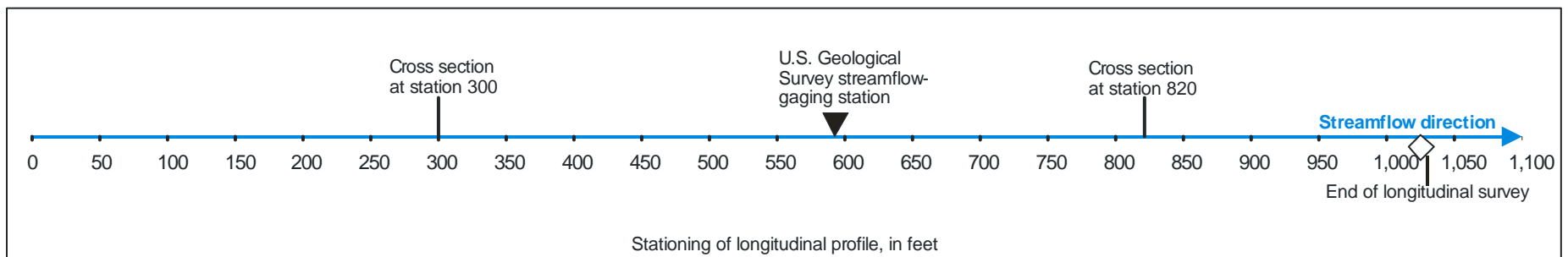
### Cross-sectional data at station 300

Bankfull cross-sectional area (ft <sup>2</sup> )	71
Bankfull width (ft)	40.8
Bankfull mean depth (ft)	1.73
D50 (mm)	53.1
D84 (mm)	172

### Cross-sectional data at station 820

Bankfull cross-sectional area (ft <sup>2</sup> )	64
Bankfull width (ft)	32.0
Bankfull mean depth (ft)	1.99
D50 (mm)	69.6
D84 (mm)	164

## Tonoloway Creek near Needmore, Pa., Station Number 01613050



## Cross-reference No. 39



View looking downstream at the reach of Marsh Run containing cross section at station 161, January 28, 2003.

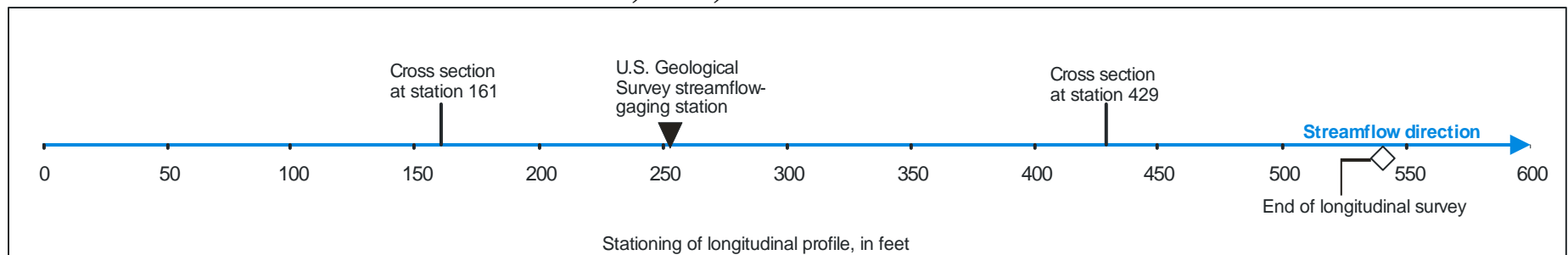
Cross-sectional data at station 161	
Bankfull cross-sectional area (ft <sup>2</sup> )	48
Bankfull width (ft)	20.1
Bankfull mean depth (ft)	2.38
D50 (mm)	35
D84 (mm)	Bedrock



View looking downstream at the reach of Marsh Run containing cross section at station 429, January 28, 2003.

Cross-sectional data at station 429	
Bankfull cross-sectional area (ft <sup>2</sup> )	43
Bankfull width (ft)	25.2
Bankfull mean depth (ft)	1.69
D50 (mm)	Bedrock
D84 (mm)	Bedrock

### Marsh Run at Grimes, Md., Station Number 01617800



## Cross-reference No. 40



View looking downstream at the reach of Kinzua Creek containing cross section at station 3, May 9, 2003.

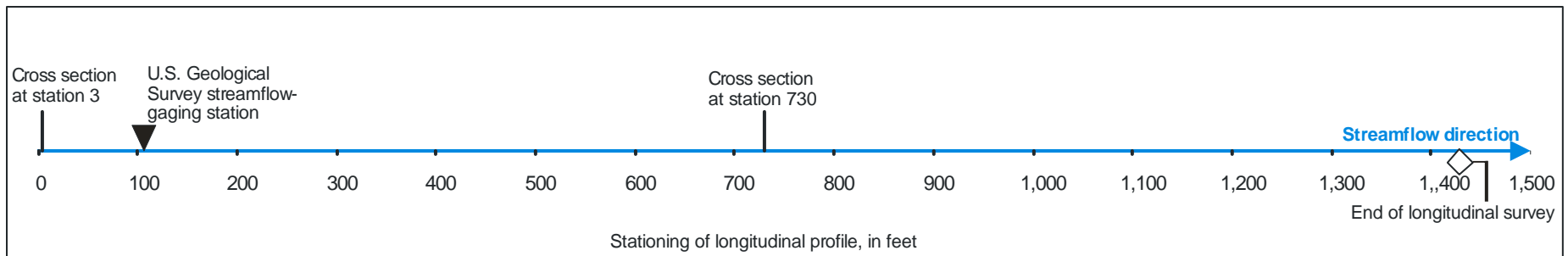
Cross-sectional data at station 3	
Bankfull cross-sectional area (ft <sup>2</sup> )	182
Bankfull width (ft)	64.0
Bankfull mean depth (ft)	2.85
D50 (mm)	99.8
D84 (mm)	202



View looking upstream at the reach of Kinzua Creek containing cross section at station 730, May 8, 2003.

Cross-sectional data at station 730	
Bankfull cross-sectional area (ft <sup>2</sup> )	172
Bankfull width (ft)	60.9
Bankfull mean depth (ft)	2.82
D50 (mm)	72.4
D84 (mm)	152

### Kinzua Creek near Guffey, Pa., Station Number 03011800



## Cross-reference No. 41



View looking downstream at the reach of West Branch French Creek containing cross section at station 10, June 12, 2003.

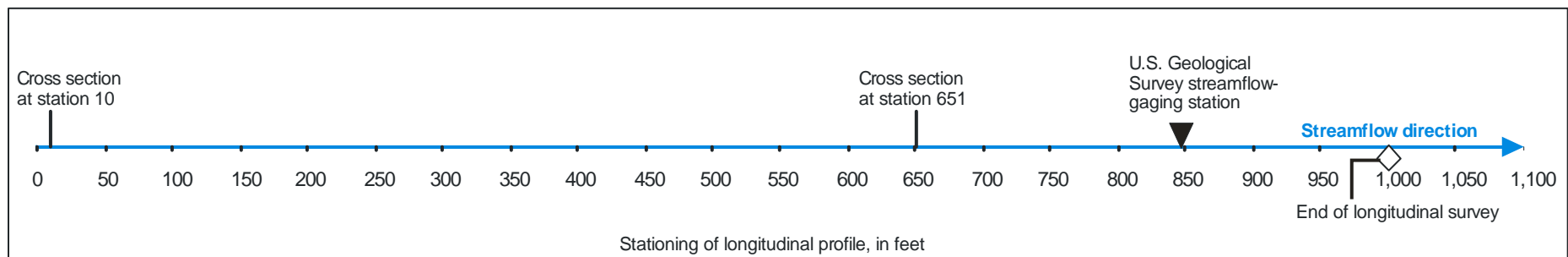
Cross-sectional data at station 10	
Bankfull cross-sectional area (ft <sup>2</sup> )	332
Bankfull width (ft)	73.4
Bankfull mean depth (ft)	4.52
D50 (mm)	17.6
D84 (mm)	45.5



View looking downstream at the reach of West Branch French Creek containing cross section at station 651, June 12, 2003.

Cross-sectional data at station 651	
Bankfull cross-sectional area (ft <sup>2</sup> )	293
Bankfull width (ft)	53.3
Bankfull mean depth (ft)	5.49
D50 (mm)	14.0
D84 (mm)	28.1

### West Branch French Creek near Lowville, Pa., Station Number 03021410



## Cross-reference

No. 42



View looking upstream at the reach of Woodcock Creek containing cross section at station 550, June 5, 2003.

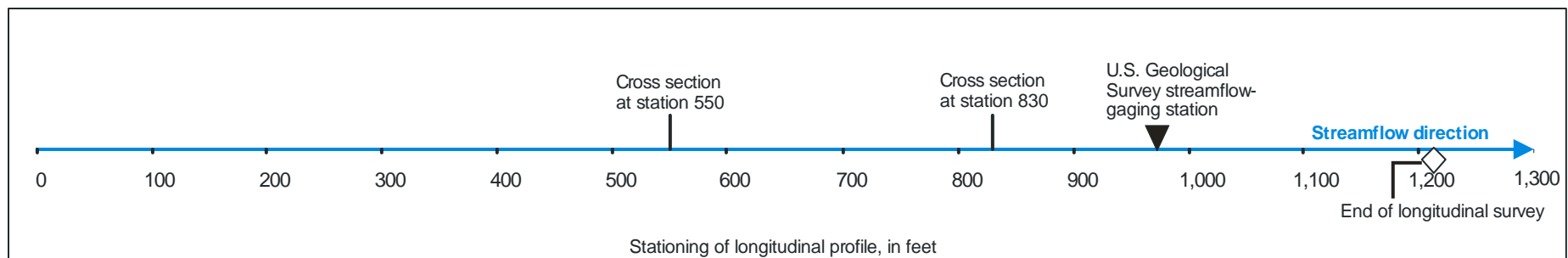
Cross-sectional data at station 550	
Bankfull cross-sectional area (ft <sup>2</sup> )	183
Bankfull width (ft)	83.3
Bankfull mean depth (ft)	2.19
D50 (mm)	113
D84 (mm)	222



View looking downstream at the reach of Woodcock Creek containing cross section at station 830, June 5, 2003.

Cross-sectional data at station 830	
Bankfull cross-sectional area (ft <sup>2</sup> )	177
Bankfull width (ft)	63.3
Bankfull mean depth (ft)	2.80
D50 (mm)	107
D84 (mm)	218

## Woodcock Creek at Blooming Valley, Pa., Station Number 03022540



## Cross-reference

### No. 43



View looking downstream at the reach of Sevenmile Run containing cross section at station 70, May 30, 2003.

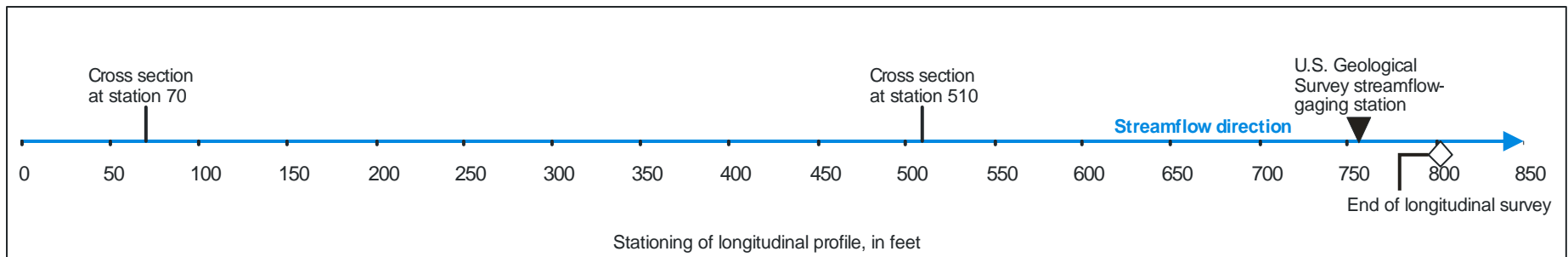
Cross-sectional data at station 70	
Bankfull cross-sectional area (ft <sup>2</sup> )	78
Bankfull width (ft)	31.1
Bankfull mean depth (ft)	2.49
D50 (mm)	75.5
D84 (mm)	202



View looking downstream at the reach of Sevenmile Run containing cross section at station 510, May 30, 2003.

Cross-sectional data at station 510	
Bankfull cross-sectional area (ft <sup>2</sup> )	84
Bankfull width (ft)	40.4
Bankfull mean depth (ft)	2.08
D50 (mm)	71.5
D84 (mm)	12243

## Sevenmile Run near Russelas, Pa., Station Number 03026500



## Cross-reference

No. 44



View looking upstream at the reach of West Branch Clarion River containing cross section at station 235, May 7, 2003.

View looking downstream at the reach of West Branch Clarion River containing cross section at station 951, May 7, 2003.

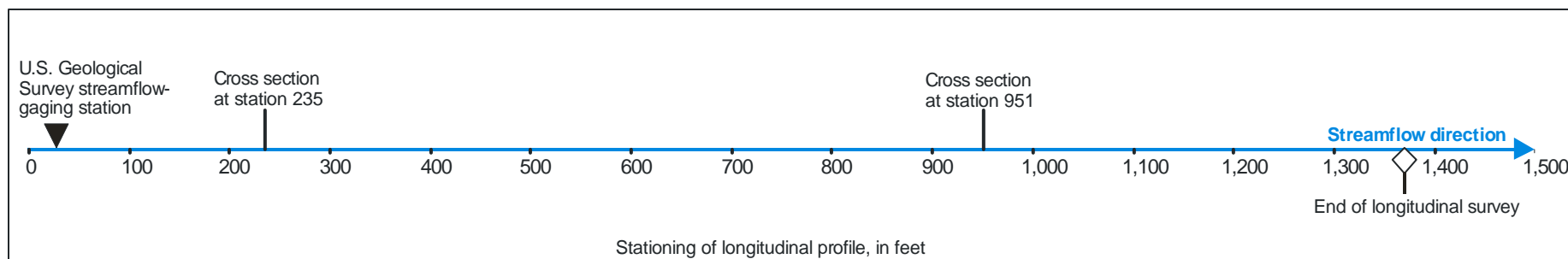
### Cross-sectional data at station 235

Bankfull cross-sectional area (ft <sup>2</sup> )	307
Bankfull width (ft)	111
Bankfull mean depth (ft)	2.07
D50 (mm)	61.3
D84 (mm)	128

### Cross-sectional data at station 951

Bankfull cross-sectional area (ft <sup>2</sup> )	322
Bankfull width (ft)	83.6
Bankfull mean depth (ft)	3.85
D50 (mm)	72.6
D84 (mm)	151

## West Branch Clarion River at Wilcox, Pa., Station Number 03028000



## Cross-reference

### No. 45



View looking upstream at the reach of Little Mahoning Creek containing cross section at station 885, May 20, 2003.

#### Cross-sectional data at station 885

Bankfull cross-sectional area (ft <sup>2</sup> )	458
Bankfull width (ft)	96.3
Bankfull mean depth (ft)	4.76
D50 (mm)	73.3
D84 (mm)	162

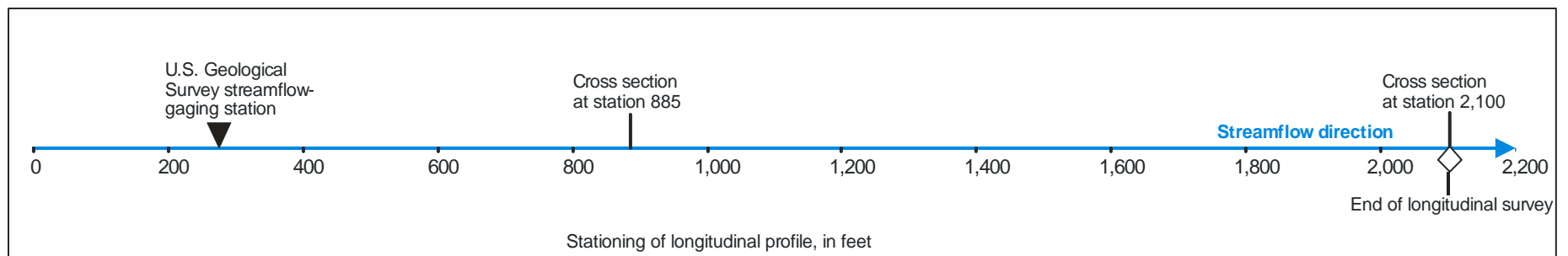


View looking downstream at the reach of Little Mahoning Creek containing cross section at station 2,100, May 20, 2003.

#### Cross-sectional data at station 2,100

Bankfull cross-sectional area (ft <sup>2</sup> )	569
Bankfull width (ft)	105
Bankfull mean depth (ft)	5.44
D50 (mm)	61.7
D84 (mm)	142

## Little Mahoning Creek at McCormick, Pa., Station Number 03034500





## Cross-reference

No. 46



View looking upstream at the reach of North Fork Bens Creek containing cross section at station 286, March 28, 2003.

View looking downstream at the reach of North Fork Bens Creek containing cross section at station 608, March 28, 2003.

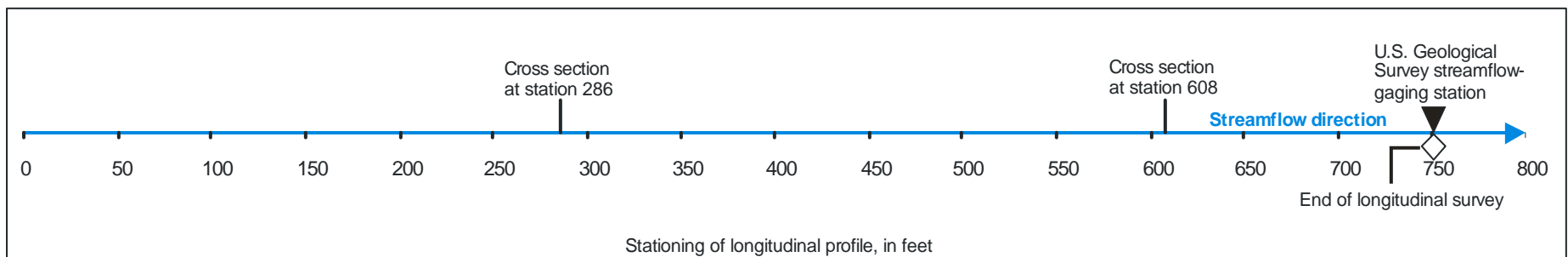
### Cross-sectional data at station 286

Bankfull cross-sectional area (ft <sup>2</sup> )	33
Bankfull width (ft)	27.0
Bankfull mean depth (ft)	1.21
D50 (mm)	103
D84 (mm)	228

### Cross-sectional data at station 608

Bankfull cross-sectional area (ft <sup>2</sup> )	35
Bankfull width (ft)	27.6
Bankfull mean depth (ft)	1.27
D50 (mm)	61.0
D84 (mm)	141

## North Fork Bens Creek at North Fork, Pa., Station Number 03039925



## Cross-reference

No. 47



View looking downstream at the reach of Buffalo Creek containing cross section at station 660, July 18, 2003.

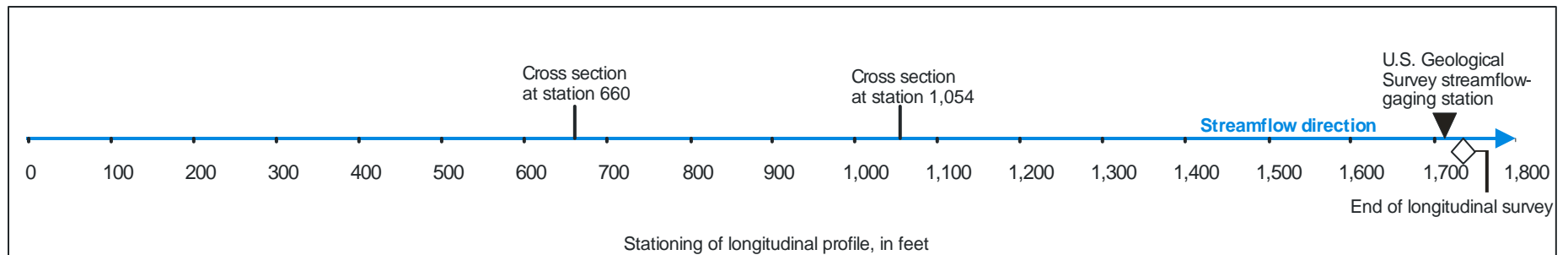
Cross-sectional data at station 660	
Bankfull cross-sectional area (ft <sup>2</sup> )	580
Bankfull width (ft)	111
Bankfull mean depth (ft)	5.24
D50 (mm)	37.6
D84 (mm)	160



View looking downstream at the reach of Buffalo Creek containing cross section at station 1,054, July 18, 2003.

Cross-sectional data at station 1,054	
Bankfull cross-sectional area (ft <sup>2</sup> )	497
Bankfull width (ft)	114
Bankfull mean depth (ft)	4.37
D50 (mm)	51.6
D84 (mm)	141

### Buffalo Creek near Freeport, Pa., Station Number 03049000



## Cross-reference

No. 48



View looking downstream at the reach of Little Pine Creek containing cross section at station 734, April 10, 2003.



View looking upstream at the reach of Little Pine Creek containing cross section at station 945, April 10, 2003.

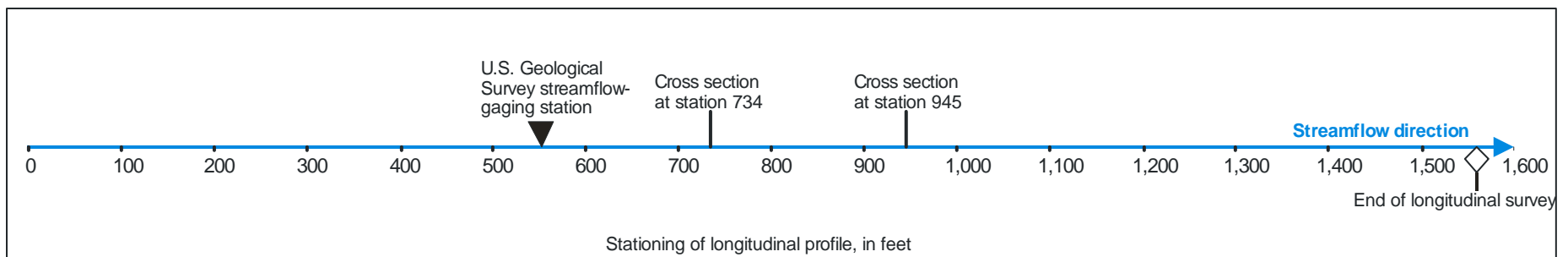
### Cross-sectional data at station 734

Bankfull cross-sectional area (ft <sup>2</sup> )	31
Bankfull width (ft)	17.9
Bankfull mean depth (ft)	1.74
D50 (mm)	20.9
D84 (mm)	73.8

### Cross-sectional data at station 945

Bankfull cross-sectional area (ft <sup>2</sup> )	34
Bankfull width (ft)	18.0
Bankfull mean depth (ft)	1.90
D50 (mm)	20.5
D84 (mm)	59.5

## Little Pine Creek near Etna, Pa., Station Number 03049800



## Cross-reference

No. 49



View looking downstream at the reach of Browns Creek containing cross section at station 290, December 4, 2003.



View looking upstream at the reach of Browns Creek containing cross section at station 1,175, December 4, 2003.

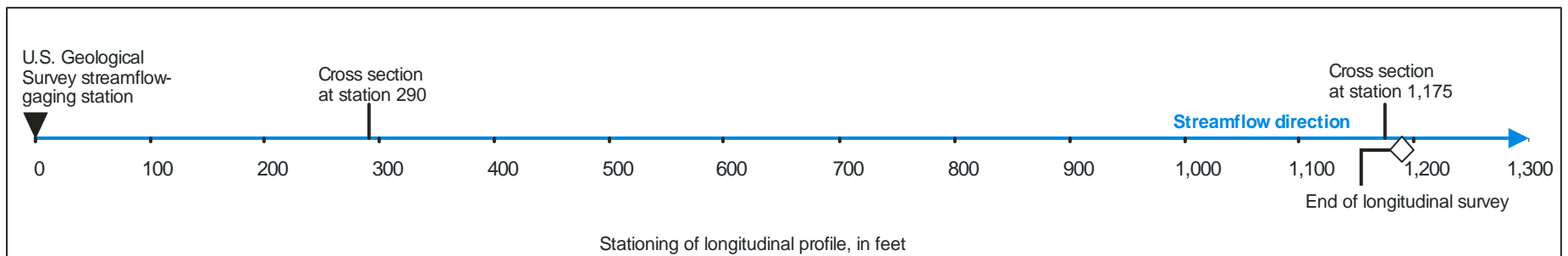
### Cross-sectional data at station 290

Bankfull cross-sectional area (ft <sup>2</sup> )	192
Bankfull width (ft)	65.0
Bankfull mean depth (ft)	2.95
D50 (mm)	10.4
D84 (mm)	18.5

### Cross-sectional data at station 1,175

Bankfull cross-sectional area (ft <sup>2</sup> )	157
Bankfull width (ft)	50.0
Bankfull mean depth (ft)	3.14
D50 (mm)	18.6
D84 (mm)	45.9

## Browns Creek near Nineveh, Pa., Station Number 03072880



## Cross-reference No. 50



View looking downstream at the reach of Laurel Hill Creek containing cross section at station 5, October 14, 2003.

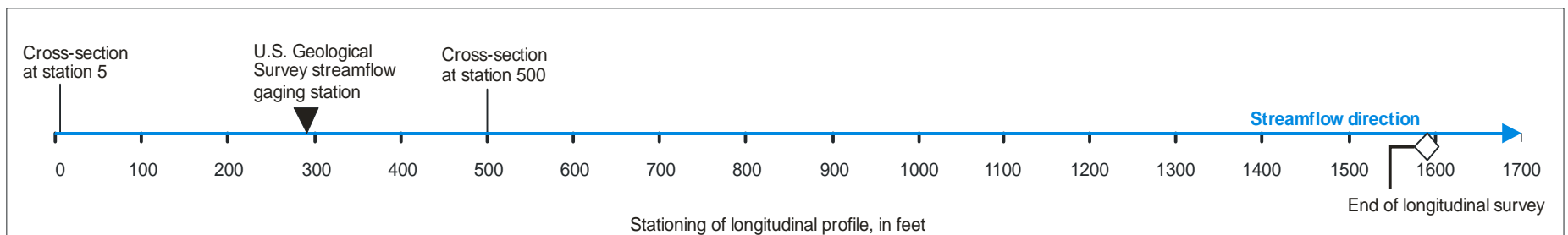
Cross-sectional data at station 5	
Bankfull cross-sectional area (ft <sup>2</sup> )	618
Bankfull width (ft)	173
Bankfull mean depth (ft)	3.57
D50 (mm)	69.1
D84 (mm)	166



View looking downstream at the reach of Laurel Hill Creek containing cross section at station 500, October 14, 2003.

Cross-sectional data at station 500	
Bankfull cross-sectional area (ft <sup>2</sup> )	593
Bankfull width (ft)	149
Bankfull mean depth (ft)	3.99
D50 (mm)	65.3
D84 (mm)	209

### Laurel Hill Creek at Ursina, Pa., Station Number 03080000



## Cross-reference

### No. 51



View looking upstream at the reach of Little Shenango River containing cross section at station 0, October 22, 2003.

View looking downstream at the reach of Little Shenango River containing cross section at station 170, October 22, 2003.

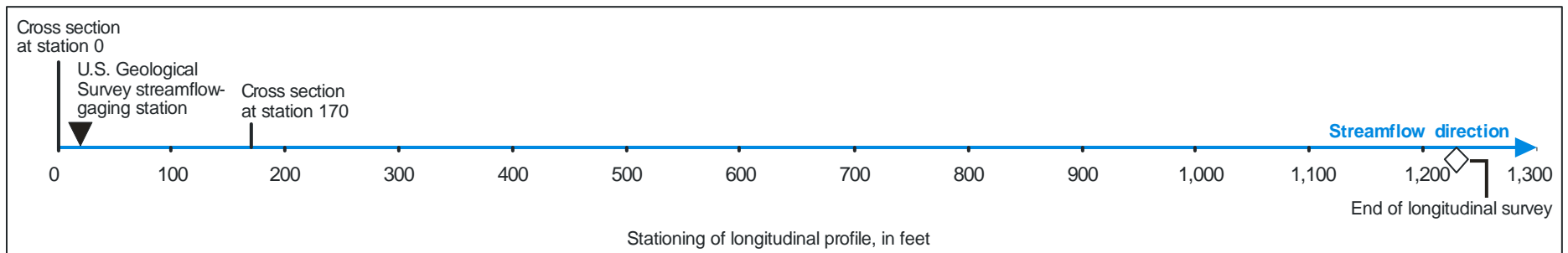
#### Cross-sectional data at station 0

Bankfull cross-sectional area (ft <sup>2</sup> )	410
Bankfull width (ft)	70.0
Bankfull mean depth (ft)	5.86
D50 (mm)	56.6
D84 (mm)	175

#### Cross-sectional data at station 170

Bankfull cross-sectional area (ft <sup>2</sup> )	407
Bankfull width (ft)	74.9
Bankfull mean depth (ft)	5.44
D50 (mm)	48.0
D84 (mm)	176

## Little Shenango River at Greenville, Pa., Station Number 03102500



## Cross-reference

No. 52



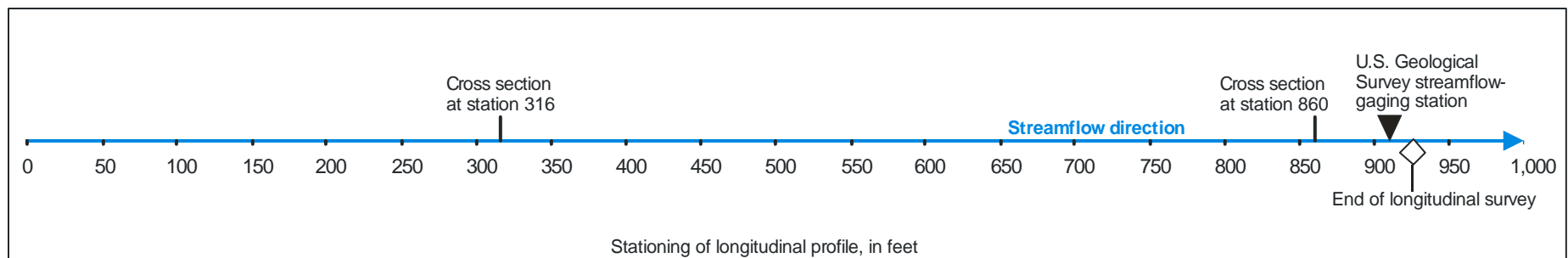
View looking upstream at the reach of Brandy Run containing cross section at station 316, November 18, 2003.

View looking upstream at the reach of Brandy Run containing cross section at station 860, November 18, 2003.

Cross-sectional data at station 316	
Bankfull cross-sectional area (ft <sup>2</sup> )	25
Bankfull width (ft)	33.0
Bankfull mean depth (ft)	0.76
D50 (mm)	41.0
D84 (mm)	93.3

Cross-sectional data at station 860	
Bankfull cross-sectional area (ft <sup>2</sup> )	23
Bankfull width (ft)	25.1
Bankfull mean depth (ft)	0.92
D50 (mm)	Bedrock
D84 (mm)	Bedrock

## Brandy Run near Girard, Pa., Station Number 04213075



## Cross-reference No. W1

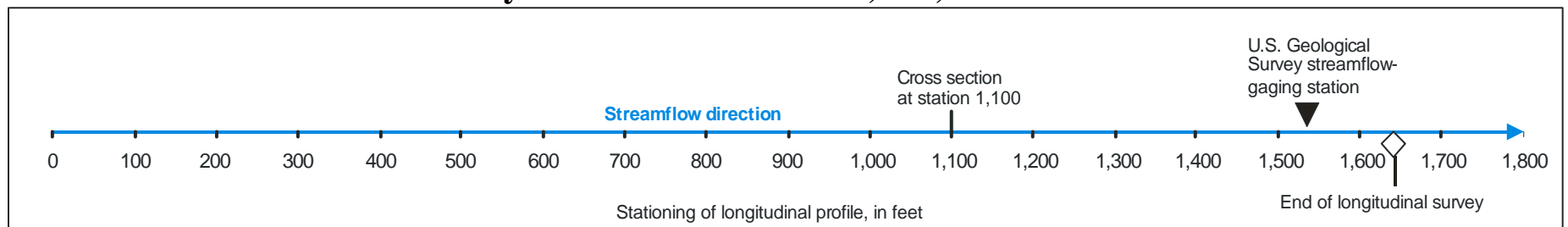


View looking upstream at the reach of Manatawny Creek near Pottstown containing cross section 1,100, January 5, 2000.

### Cross-sectional data at station 1,100

Bankfull cross-sectional area (ft <sup>2</sup> )	466
Bankfull width (ft)	90.1
Bankfull mean depth (ft)	5.19
D50 (mm)	27.7
D84 (mm)	103.2

## Manatawny Creek near Pottstown, Pa., Station 01471980





## Cross-reference No. W2



View looking downstream at the reach of French Creek containing cross sections at stations 1,024 and 1,170, January 3, 2000.

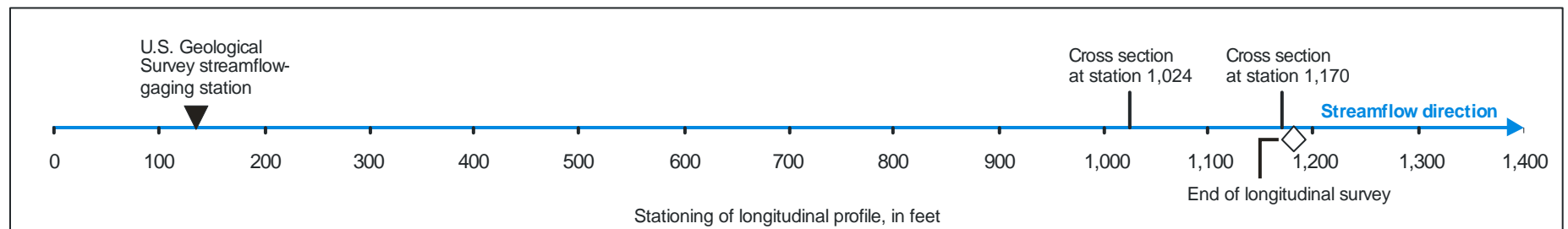
### Cross-sectional data at station 1,024

Bankfull cross-sectional area (ft <sup>2</sup> )	280
Bankfull width (ft)	75.2
Bankfull mean depth (ft)	3.72
D50 (mm)	98.2
D84 (mm)	341.9

### Cross-sectional data at station 1,170

Bankfull cross-sectional area (ft <sup>2</sup> )	352
Bankfull width (ft)	99
Bankfull mean depth (ft)	3.55
D50 (mm)	80.7
D84 (mm)	280.1

## French Creek near Phoenixville, Pa., Station 01472157



## Cross-reference No. W3



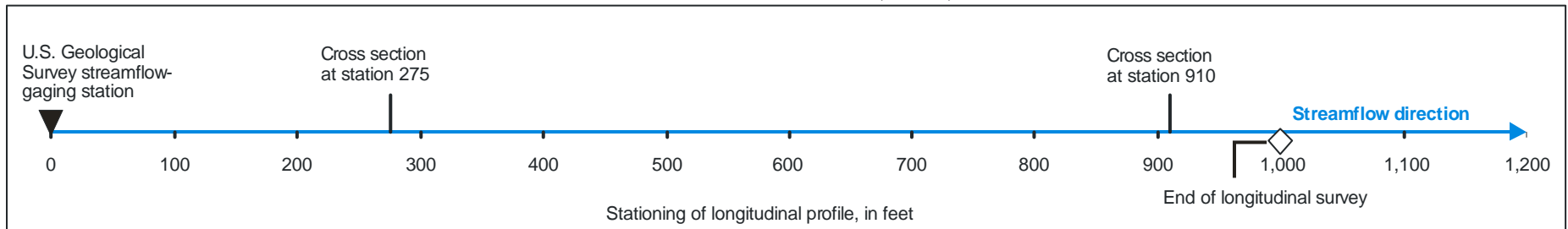
View looking downstream at the reach of Perkiomen Creek containing cross section at station 275, January 12, 2000.

View looking upstream at the reach of Perkiomen Creek containing cross section at station 910, January 12, 2000.

Cross-sectional data at station 275	
Bankfull cross-sectional area (ft <sup>2</sup> )	306
Bankfull width (ft)	133.7
Bankfull mean depth (ft)	2.29
D50 (mm)	7.4
D84 (mm)	30.4

Cross-sectional data at station 910	
Bankfull cross-sectional area (ft <sup>2</sup> )	303
Bankfull width (ft)	101.1
Bankfull mean depth (ft)	3.00
D50 (mm)	.2
D84 (mm)	54.4

### Perkiomen Creek at East Greenville, Pa., Station 01472198



## Cross-reference No. W4

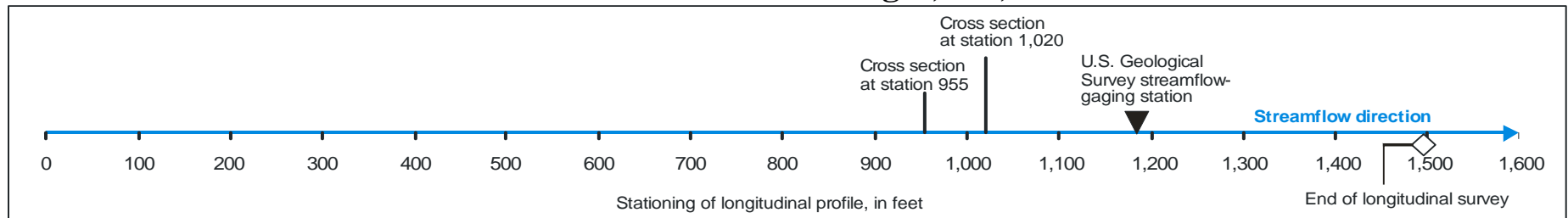


View looking upstream at the reach of West Branch Perkiomen Creek containing cross sections at stations 955 and 1,020, March 2, 2000.

Cross-sectional data at station 955	
Bankfull cross-sectional area (ft <sup>2</sup> )	202
Bankfull width (ft)	100.0
Bankfull mean depth (ft)	2.02
D50 (mm)	.2
D84 (mm)	70

Cross-sectional data at station 1,020	
Bankfull cross-sectional area (ft <sup>2</sup> )	201
Bankfull width (ft)	93
Bankfull mean depth (ft)	2.16
D50 (mm)	1.4
D84 (mm)	70.8

### West Branch Perkiomen Creek at Hillegas, Pa., Station 01472199



## Cross-reference

No. C5



View looking downstream at the reach of Crum Creek containing cross section at station 105, June 27, 2001.

View looking upstream at the reach of Crum Creek containing cross section at station 455, June 27, 2001.

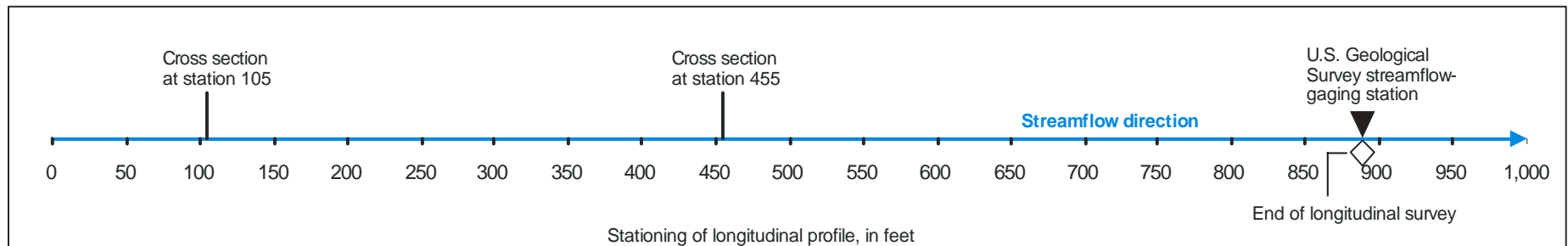
### Cross-sectional data at station 105

Bankfull cross-sectional area (ft <sup>2</sup> )	183
Bankfull width (ft)	65.5
Bankfull mean depth (ft)	2.80
D50 (mm)	5.4
D84 (mm)	50

### Cross-sectional data at station 455

Bankfull cross-sectional area (ft <sup>2</sup> )	138
Bankfull width (ft)	49.5
Bankfull mean depth (ft)	2.79
D50 (mm)	1.0
D84 (mm)	27.7

## Crum Creek near Newtown Square, Pa., Station 01475850



## Cross-reference

### No. C6



View looking upstream at the reach of Chester Creek containing cross section at station 140, June 28, 2001.

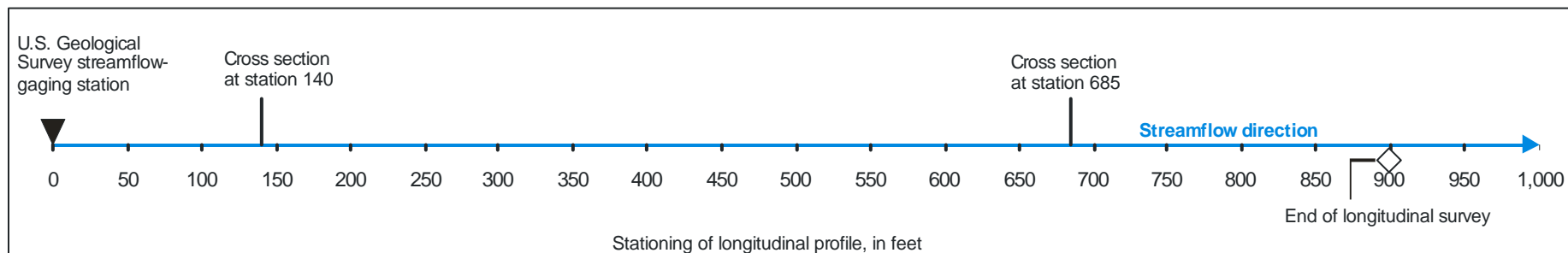
Cross-sectional data at station 140	
Bankfull cross-sectional area (ft <sup>2</sup> )	301
Bankfull width (ft)	70.6
Bankfull mean depth (ft)	4.26
D50 (mm)	43.4
D84 (mm)	147.8



View looking upstream at the reach of Chester Creek containing cross section at station 685, June 28, 2001.

Cross-sectional data at station 685	
Bankfull cross-sectional area (ft <sup>2</sup> )	305
Bankfull width (ft)	68.6
Bankfull mean depth (ft)	4.44
D50 (mm)	52.8
D84 (mm)	159.1

## Chester Creek near Chester, Pa., Station 01477000



## Cross-reference No. C7



View looking upstream at the reach of West Branch Brandywine Creek near Honey Brook containing cross section at station 354, May 31, 2001.

### Cross-sectional data at station 354

Bankfull cross-sectional area (ft <sup>2</sup> )	123
Bankfull width (ft)	51.9
Bankfull mean depth (ft)	2.36
D50 (mm)	8.9
D84 (mm)	54.3

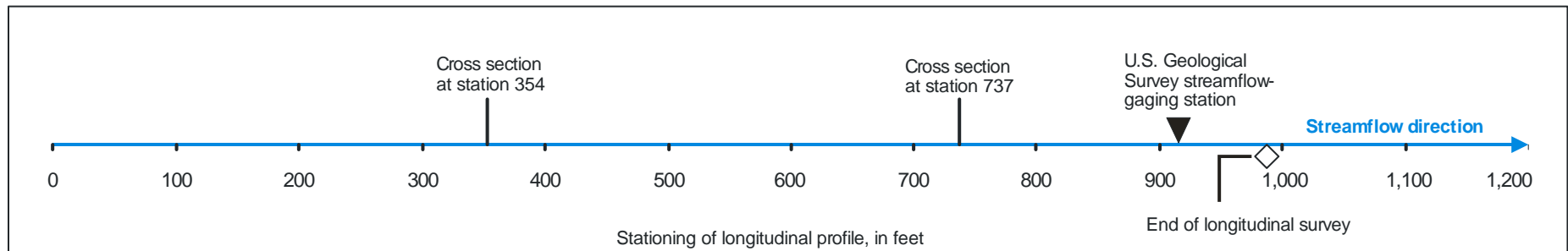


View looking upstream at the reach of West Branch Brandywine Creek near Honey Brook containing cross section at station 737, May 31, 2001.

### Cross-sectional data at station 737

Bankfull cross-sectional area (ft <sup>2</sup> )	135
Bankfull width (ft)	62.8
Bankfull mean depth (ft)	2.15
D50 (mm)	5.8
D84 (mm)	16

## West Branch Brandywine Creek near Honey Brook, Pa., Station 01480300



## Cross-reference

No. C8



View looking downstream at the reach of West Branch Brandywine Creek at Coatesville containing cross section at station 170, June 14, 2001.

### Cross-sectional data at station 170

Bankfull cross-sectional area (ft <sup>2</sup> )	188
Bankfull width (ft)	87.2
Bankfull mean depth (ft)	2.15
D50 (mm)	52.3
D84 (mm)	163.22

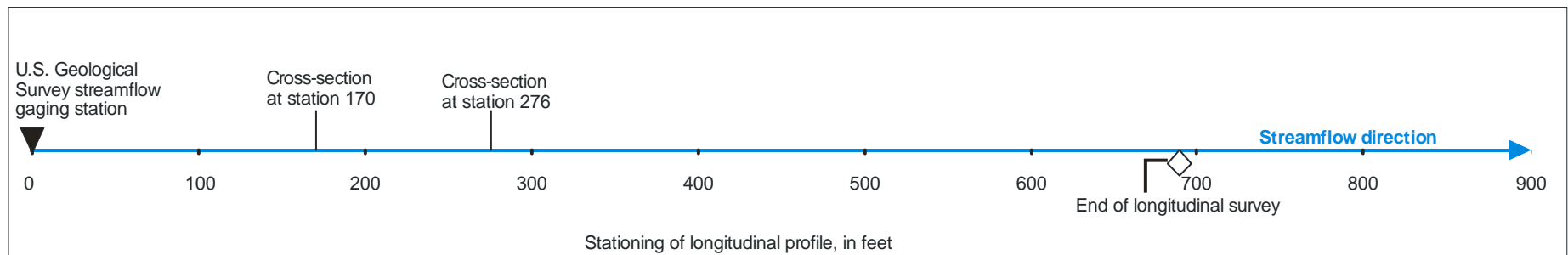


View looking downstream at the reach of West Branch Brandywine Creek at Coatesville containing cross section at station 276, June 14, 2001.

### Cross-sectional data at station 276

Bankfull cross-sectional area (ft <sup>2</sup> )	170
Bankfull width (ft)	67.9
Bankfull mean depth (ft)	2.51
D50 (mm)	32
D84 (mm)	117.1

## West Branch Brandywine Creek at Coatesville, Pa., Station 01480500



## Cross-reference No. W9



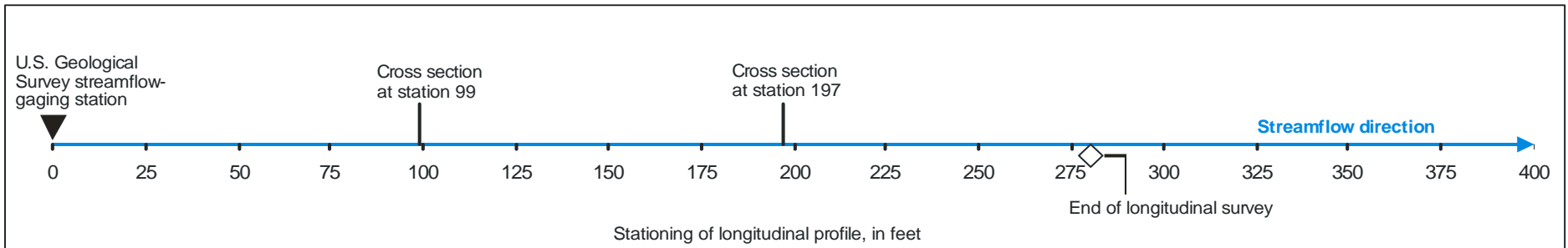
View looking downstream at the reach of Sucker Run containing cross section at station 99, December 16, 1999.

View looking upstream at the reach of Sucker Run containing cross section at station 197, December 16, 1999.

Cross-sectional data at station 99	
Bankfull cross-sectional area (ft <sup>2</sup> )	23
Bankfull width (ft)	18.2
Bankfull mean depth (ft)	1.25
D50 (mm)	10
D84 (mm)	15.3

Cross-sectional data at station 197	
Bankfull cross-sectional area (ft <sup>2</sup> )	25
Bankfull width (ft)	17.4
Bankfull mean depth (ft)	1.46
D50 (mm)	.4
D84 (mm)	96

### Sucker Run near Coatesville, Pa., Station 01480610





## Cross-reference

No. C10



View looking upstream at the reach of West Branch Brandywine Creek at Modena containing cross section at station 146, June 12, 2001.

View looking upstream at the reach of West Branch Brandywine Creek at Modena containing cross section at station 242, June 12, 2001.

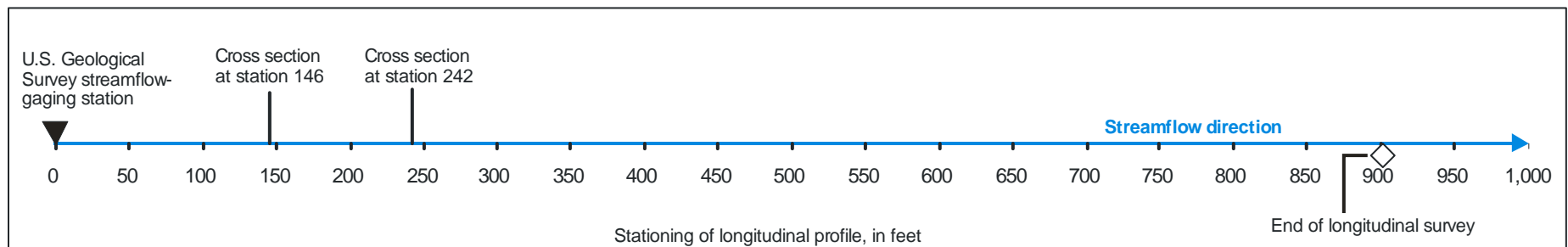
### Cross-sectional data at station 146

Bankfull cross-sectional area (ft <sup>2</sup> )	276
Bankfull width (ft)	98.2
Bankfull mean depth (ft)	2.81
D50 (mm)	19.1
D84 (mm)	83.1

### Cross-sectional data at station 242

Bankfull cross-sectional area (ft <sup>2</sup> )	261
Bankfull width (ft)	95.8
Bankfull mean depth (ft)	2.72
D50 (mm)	29.4
D84 (mm)	81.6

## West Branch Brandywine Creek at Modena, Pa., Station 01480617



## Cross-reference No. C11



View looking downstream at the reach of Conowingo Creek containing cross section at station 58, April 19, 2002.

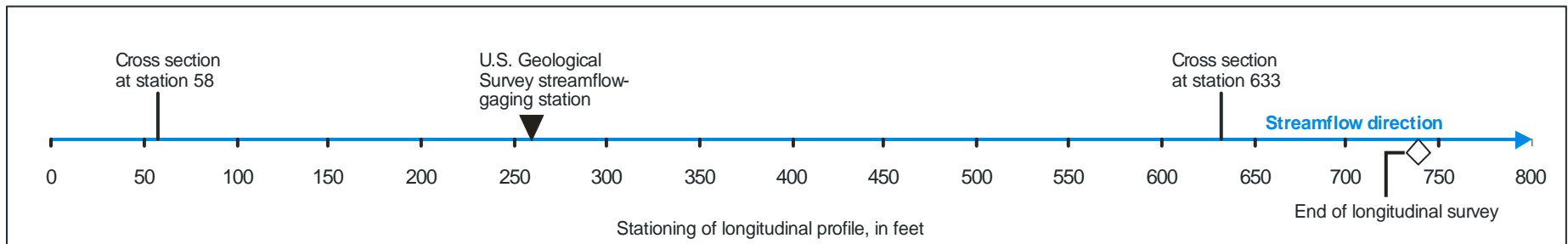
Cross-sectional data at station 58	
Bankfull cross-sectional area (ft <sup>2</sup> )	56
Bankfull width (ft)	23.6
Bankfull mean depth (ft)	2.36
D50 (mm)	39.2
D84 (mm)	151.8



View looking downstream at the reach of Conowingo Creek containing cross section at station 633, April 18, 2002.

Cross-sectional data at station 633	
Bankfull cross-sectional area (ft <sup>2</sup> )	72
Bankfull width (ft)	34.7
Bankfull mean depth (ft)	2.07
D50 (mm)	48
D84 (mm)	140

### Conowingo Creek near Buck, Pa., Station 01578200



## Cross-reference

No. C12



View looking upstream at the reach of Beaver Run containing cross section at station 328, July 16, 2001.

View looking upstream at the reach of Beaver Run containing cross section at station 534, July 16, 2001.

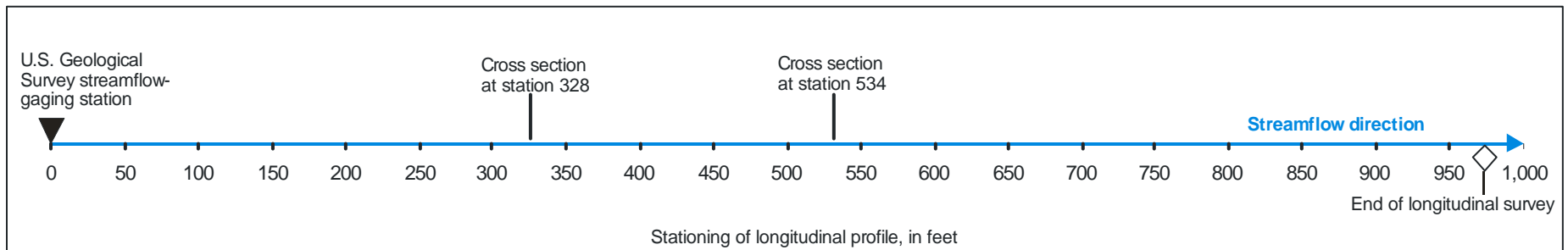
### Cross-sectional data at station 328

Bankfull cross-sectional area (ft <sup>2</sup> )	101
Bankfull width (ft)	43
Bankfull mean depth (ft)	2.34
D50 (mm)	16.7
D84 (mm)	110.8

### Cross-sectional data at station 534

Bankfull cross-sectional area (ft <sup>2</sup> )	111
Bankfull width (ft)	45.8
Bankfull mean depth (ft)	2.42
D50 (mm)	33.9
D84 (mm)	116.3

## Beaver Run near Finksburg, Md., Station 01586210



## Cross-reference No. C13



View looking downstream at the reach of Morgan Run containing cross section at station 204, July 17, 2001.

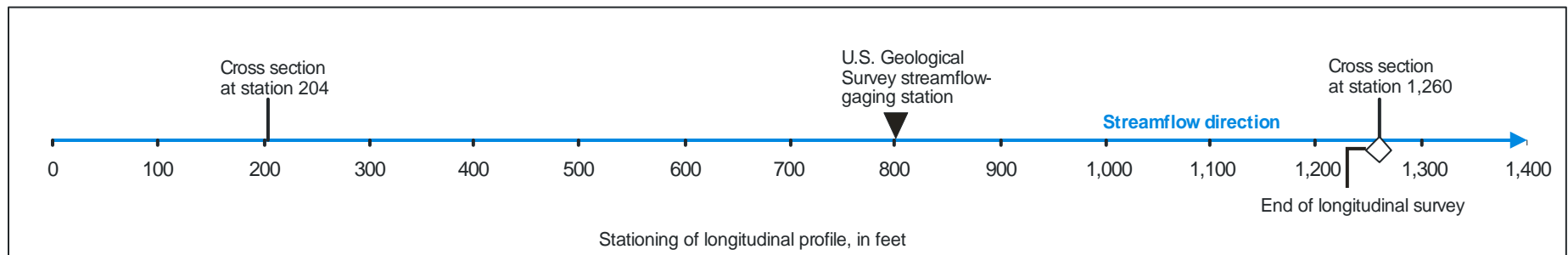
Cross-sectional data at station 204	
Bankfull cross-sectional area (ft <sup>2</sup> )	173
Bankfull width (ft)	60.8
Bankfull mean depth (ft)	2.84
D50 (mm)	29.4
D84 (mm)	76.3



View looking upstream at the reach of Morgan Run containing cross section at station 1,260, July 17, 2001.

Cross-sectional data at station 1,260	
Bankfull cross-sectional area (ft <sup>2</sup> )	204
Bankfull width (ft)	75.6
Bankfull mean depth (ft)	2.7
D50 (mm)	24.6
D84 (mm)	81.4

### Morgan Run near Louisville, Md., Station 01586610



## Cross-reference No. W14



View looking upstream at the reach of Big Pipe Creek containing cross section at station 60, March 27, 2000.

### Cross-sectional data at station 60

Bankfull cross-sectional area (ft <sup>2</sup> )	615
Bankfull width (ft)	100.5
Bankfull mean depth (ft)	6.12
D50 (mm)	22.4
D84 (mm)	95.8

## Big Pipe Creek at Bruceville, Md., Station 01639500

