

Database Code: GS002

Title: Stream cross-section profiles in the Andrews Experimental Forest and Hagan Block RNA 1978 to present

Abstract:

This database consists of periodically resurveyed cross-section profiles for 5 sites (stream reaches) located in the H.J. Andrews Experimental Forest on 3rd to 5th-order stream channels over the period 1978-present, and also includes historical data from Shorter Creek within the Andrews and two sites (North and South) on the Hagan Creek in the Hagan Block RNA. Each of these sites includes 10-20 cross sections spaced about 10-50 m apart. Observations include cross-sectional geometry based on surveys relative to a horizontal line between permanent stations on opposite sides of the stream, substrate type based on pebble counts and notes on extent of bedrock, and photo-documentation of the sites. Sampling was primarily done annually until 2000 and opportunistically since then depending on funding and noted geomorphic changes in response to floods. Sampling at least every 5 years is desired. Data tables cover 1. elevation and distance measurements between fixed end points, 2. pebble counts for particle size, 3. measures of extent of exposed bedrock, 4. vegetation (1984 only) in terms of % cover by spp., % cover of substrate types, and plant measurements for making biomass estimates with allometric equations, but such estimates are not presented. The original raw cross-section data for these sites has been adjusted to align profiles for consecutive year comparisons at each cross-section location to correct for imprecision in the survey methodology. John Faustini further corrected this cross-section data from 1978-1998 for the five main sites in Study GS019. The Shorter Creek cross-section surveys took place in 1978-1982 only.

Keywords: Channel geomorphology; Disturbance; Geomorphology; Long-Term Ecological Research (LTER); Riparian ecosystems; Riparian vegetation; Woody debris; Disturbance; Inorganic nutrients; Long-Term Ecological Research (LTER); geomorphology; disturbance; inorganic nutrients; woody debris; riparian ecosystems; streams; vegetation;

Date data commenced: 1978-04-14

Date data terminated: 2011-09-06

Principal Investigator: Sherri L. Johnson

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1. Andrews long-term stream cross-section data for Lookout Ck, Mack Ck and Cold Ck

Elevation and distance measurements are made between fixed end posts. Elevations and distances are corrected until 1995 for year to year comparison, but Z-post (zero distance post) elevations continue to be standardized for comparison.

Attribute List:

Table with 8 columns: Attribute Name, Domain, Cardinality, Data Type, Range, Start/End, and Unit. Rows include DBCODE, ENTITY, DATE, SITECODE, and YEAR.

XSEC_CODE	Y	N	char(7)	enum			
DISTANCE	Y	N	numeric(5,0)	range	-220.00005780.0000		cm
ELEVATION	Y	N	numeric(5,0)	range	-649.0000439.0000		cm
SUBSTRATE	N	N	char(2)	enum			
CHANCODE	N	N	char(2)	enum			
OTHERCODE	N	N	char(2)	enum			

## 2. Historic Hagan North and South Fork and Andrews Shorter Creek cross-section data

Elevation and distance measurements between fixed end posts adjusted for comparison.

### Attribute List:

DBCOD	N	N	char(5)	enum			
ENTITY	N	N	numeric(2,0)	range	2.0000	2.0000	number
DATE	N	N	datetime	range	4/14/1978	1/2007 12:00:00 12:00:00 AM AM	YYYY-MM-DD
SITECODE	Y	N	char(6)	place			
YEAR	Y	N	numeric(4,0)	range	1978.0000	1987.0000	number
XSEC_CODE	Y	N	char(7)	enum			
DISTANCE	Y	N	numeric(5,0)	range	-560.00003280.0000		cm
ELEVATION	Y	N	numeric(5,0)	range	-521.0000174.0000		cm
SUBSTRATE	N	Y	char(2)	enum			
CHANCODE	N	Y	char(2)	enum			
OTHERCODE	N	Y	char(2)	enum			

## 3. Particle count sampling along stream cross-sections

Particle count samples: b-axis particle diameter

### Attribute List:

DBCOD	N	N	char(5)	enum			
ENTITY	N	N	numeric(2,0)	range	3.0000	3.0000	number
DATE	N	N	datetime	range	7/1/1995	9/6/2011 12:00:00 12:00:00 AM AM	YYYY-MM-DD
SITECODE	Y	N	char(6)	place			
YEAR	Y	N	numeric(4,0)	range	1995.0000	2011.0000	number
XSEC_CODE	Y	N	char(7)	enum			
PARTICLE_INDEX	Y	N	numeric(3,0)	range	1.0000	105.0000	number
PARTICLE_SIZE	N	N	numeric(4,0)	range	0.0000	4000.0000	mm

## 4. Particle count sampling comments including presence of bedrock

Bedrock encountered in particle sampling is noted.

### Attribute List:

DBCOD	N	N	char(5)	enum			
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ENTITY	N	N	numeric(2,0)	range	4.0000	4.0000	number
DATE	N	N	datetime	range	7/1/1995 12:00:00 AM	8/18/2009 12:00:00 AM	YYYY-MM-DD
SITECODE	Y	N	char(6)	place			
YEAR	Y	N	numeric(4,0)	range	1995.0000	2009.0000	number
XSEC_CODE	Y	N	char(7)	enum			
COMMENT	N	Y	varchar(60)	freetext			

#### 5. Vegetation transect data (1984 only) - percent cover by species

Percent cover by species in transect plots - 1984 survey of Mack Cr clearcut riparian vegetation.

**Attribute List:**

DBCOD	N	N	char(5)	enum			
ENTITY	N	N	numeric(2,0)	range	5.0000	5.0000	number
DATE	N	N	datetime	range	6/27/1984 12:00:00 AM	8/2/1984 12:00:00 AM	YYYY-MM-DD
SITECODE	N	N	char(6)	place			
TRANSECT	Y	N	numeric(3,0)	range	10.0000	150.0000	number
PLOT	Y	N	numeric(3,0)	range	-15.0000	11.0000	number
SPECIES	Y	N	char(6)	taxa			
COVER	N	N	numeric(5,1)	range	0.1000	100.0000	%

#### 6. Vegetation transect data (1984 only) - percent substrate type

Percent substrate types in transect plots - 1984 riparian survey of Mack Cr clearcut

**Attribute List:**

DBCOD	N	N	char(5)	enum			
ENTITY	N	N	numeric(2,0)	range	6.0000	6.0000	number
DATE	N	N	datetime	range	6/27/1984 12:00:00 AM	8/2/1984 12:00:00 AM	YYYY-MM-DD
SITECODE	Y	N	char(6)	place			
TRANSECT	Y	N	numeric(3,0)	range	10.0000	150.0000	number
PLOT	Y	N	numeric(3,0)	range	-15.0000	11.0000	number
MICROSITE	Y	N	char(6)	enum			
COVER	N	N	numeric(5,1)	range	0.1000	100.0000	%

#### 7. Vegetation transect data (1984 only) - raw biomass measurements

Raw biomass measurements of height, diameter, leaf or frond length or count, etc. along transect in 1984 survey - biomass not calculated and calculation through allometric equations is needed.

**Attribute List:**

DBCOD	N	N	char(5)	enum			
ENTITY	N	N	numeric(2,0)	range	7.0000	7.0000	number
DATE	N	N	datetime	range	6/27/1984	8/3/1984	YYYY-MM-DD

SITECODE	Y	N	char(6)	place	12:00:00 AM	12:00:00 AM	
TRANSECT	Y	N	numeric(3,0)	range	10.0000	150.0000	number
PLOT	Y	N	numeric(3,0)	range	-15.0000	11.0000	number
COUNTER	Y	N	numeric(3,0)	range	1.0000	130.0000	number
SPECIES	N	N	char(6)	taxa			
BIOMASS1	N	N	numeric(7,2)	range	0.0100	225.0000	cm
BIOMASS2	N	Y	numeric(6,1)	range	1.0000	1500.0000	cm
AZIMUTH	N	Y	numeric(3,0)	range	0.0000	359.0000	deg az
LEAN	N	Y	numeric(2,0)	range	4.0000	90.0000	deg angle

#### 8. Permanent monument data (original 1978 survey/control net)

##### Attribute List:

DBCOD	N	N	char(5)	enum			
ENTITY	N	N	numeric(2,0)	range	8.0000	8.0000	number
YEAR	N	N	numeric(4,0)	range	1978.0000	1978.0000	number
SITECODE	Y	N	char(6)	place			
XSEC_CODE	Y	N	char(7)	enum			
BEARING	N	N	char(4)	freetext			
XSECDIST	N	N	numeric(5,0)	range	480.0000	5250.0000	cm
PERMZBRG	N	N	char(4)	freetext			
PERMZDST	N	N	numeric(5,0)	range	98.0000	1575.0000	cm
PERMXBRG	N	N	char(4)	freetext			
PERMXDST	N	N	numeric(5,0)	range	59.0000	1825.0000	cm

#### 9. Reference data for each cross-section number (original 1978 survey)

##### Attribute List:

DBCOD	N	N	char(5)	enum			
ENTITY	N	N	numeric(2,0)	range	9.0000	9.0000	number
DATE	N	N	datetime	range	4/14/1978	5/31/1978	YYYY-MM-DD
SITECODE	Y	N	char(6)	place	12:00:00 AM	12:00:00 AM	
XSEC_CODE	Y	N	char(7)	enum			
BEARING	N	N	char(4)	freetext			
REFHT	N	Y	numeric(5,2)	range	0.0000	4.4000	ft
OTHERHT	N	Y	numeric(5,2)	range	2.4600	4.8200	ft
REFLVL	N	Y	numeric(5,2)	range	-2.6200	8.6300	ft

REFPOST	N	Y	char(1)	enum			
XSECDIST	N	N	numeric(5,0)	range	480.0000	5250.0000	cm

#### 10. Raw data horizontal and vertical adjustment factors for each cross-section at all sites

Catalog of adjustments to raw data - internal program use only

**Attribute List:**

DBCOD	N	N	char(5)	enum			
ENTITY	N	N	numeric(2,0)	range	10.0000	10.0000	number
DATE	N	N	datetime	range	4/14/1978	9/6/2011 12:00:00 AM	YYYY-MM-DD 12:00:00 AM
SITECODE	Y	N	char(6)	place			
YEAR	Y	N	numeric(4,0)	range	1978.0000	2011.0000	number
XSEC_CODE	Y	N	char(7)	enum			
X_CONST	N	N	numeric(5,0)	range	-560.0000	500.0000	cm
Y_CONST	N	N	numeric(5,0)	range	-105.0000	570.0000	cm
X_FACTOR	N	N	numeric(8,5)	range	0.9800	1.0300	number
Y_FACTOR	N	N	numeric(8,5)	range	-0.0500	0.0700	number
NOTES	N	Y	text	freetext			

#### 11. Raw stream cross-section measurement data for all sites

Raw stream cross-section transect data - not adjusted.

**Attribute List:**

DBCOD	N	N	char(5)	enum			
ENTITY	N	N	numeric(2,0)	range	11.0000	11.0000	number
DATE	N	N	datetime	range	4/14/1978	9/6/2011 12:00:00 AM	YYYY-MM-DD 12:00:00 AM
SITECODE	Y	N	char(6)	place			
YEAR	Y	N	numeric(4,0)	range	1978.0000	2011.0000	number
XSEC_CODE	Y	N	char(7)	enum			
INSTHT	N	N	numeric(5,0)	range	-259.0000	329.0000	cm
ZDIST	Y	N	numeric(5,0)	range	-140.0000	5780.0000	cm
LEVEL	Y	N	numeric(5,0)	range	-259.0000	826.0000	cm
SUBSTRATE	N	N	char(2)	enum			
CHANCODE	N	N	char(2)	enum			
OTHERCODE	N	N	char(2)	enum			
CLASS	N	N	char(1)	enum			
HSTAGE	N	Y	char(1)	enum			

Attributes Definitions:

AZIMUTH

Azimuth of tree or shrub lean

BEARING

Bearing of cross-section, ie., n38w

BIOMASS1

Biomass parameter 1 - measurement differs by species - consult Gody Spycher or Charles Halpern

BIOMASS2

Biomass parameter 2 - measurement differs by species - consult Gody Spycher or Charles Halpern - units may be length in cm or a count

CHANCODE

Channel geomorphology code at point

CLASS

Numeric point location description, used only for Shorter Creek

COMMENT

Comment about presence of bedrock

COUNTER

Sequential count of incidence of species on each plot (established to create unique key)

COVER

Percent cover of this substrate (microsite classification) in the 1x1 meter plot

DATE

Date of survey

DBCODE

FSDB Database code

DISTANCE

Horizontal distance from starting z-post (zero post) - cross-section distances were adjusted for comparison until approximately 1996 when methods were improved

ELEVATION

Elevation difference from starting z-post (zero distance) - elevations along transect are adjusted by a common factor so that elevation is zero at this z-post for comparison among years

ENTITY

Entity number

HSTAGE

Code indicating high stage level for comparative analysis of channel area change (1978-1988)

INSTHT

Originally the instrument height was used to correct elevation (no longer used)

LEAN

Angle of tree or shrub lean

LEVEL

Positive elevation difference between transect point and instrument level (not adjusted for elevation at z-post)

MICROSITE

Microsite classification or substrate type

NOTES

Notes on adjustment of raw cross-section data

OTHERCODE

Secondary substrate type or channel geomorphology code at point

OTHERHT

Height of opposite post

PARTICLE\_INDEX

Numerical index of pebbles measured (for creating key field)

PARTICLE\_SIZE

Size of particle, b-axis

PERMXBRG

Bearing from permanent object to x post

PERMXDST

Distance from permanent object to x post

PERMZBRG

Bearing from permanent object to z post

PERMZDST

Distance from permanent object to z post

PLOT

Plot number (positive if on right side of stream looking upstream, negative if on left side of stream looking upstream)

REFHT

Height of reference post

REFLVL

Level ht above reference post

REFPOST

Post used as reference post (either x or z)

SITECODE

Coded name of study area

SPECIES

Species according to garrison alpha code

SUBSTRATE

Dominant substrate type at point

TRANSECT

Transect number

X\_CONST

Constant added to distance value

X\_FACTOR

Multiplicative adjustment factor for distance value

XSEC\_CODE

Cross-section number

XSECDIST

Total cross-section distance

Y\_CONST

Constant added to level (elevation) value

Y\_FACTOR

Multiplicative adjustment factor for elevation value

YEAR

Year of survey

ZDIST

Horizontal distance from instrument to transect point (not adjusted)

Enumerated Domains:

Enumerated Domain for Attribute: CHANCODE

NA	No channel code is applicable
BF	Bank full
EC	Edge of channel
EW	Edge of water (main channel)

Enumerated Domain for Attribute: OTHERCODE

NA	No other channel or substrate codes apply
BF	Bank full
BL	Boulder
CB	Cobble
EW	Edge of water (main channel)
GR	Gravel
LG	Log ( > 10 cm diameter )
LI	Litter
TR	Trail
FS	Fine sediment
UC	Undercut bank
TB	Tributary
RB	Rebar
EC	Edge of channel



Enumerated Domain for Attribute: DBCODE  
GS002 FSDB Database Code GS002

Enumerated Domain for Attribute: SUBSTRATE

NR	Not recorded
BL	Boulder
BR	Bedrock
CB	Cobble
FO	Fine organics
FS	Fine sediment
GR	Gravel
IB	Eye-bolt/bedrock
LG	Log ( > 10 cm diameter)
LI	Litter
LS	Suspended log
MS	Bare mineral soil / colluvium
OD	Organic debris ( < 10 cm diameter)
OS	Suspended organic debris
RW	Rootwad / stump
TF	Turf / grass
TR	Trail
WS	Water surface (for recording elevation of water; rod held at water surface) field crew was using code WSE water surface elevation

Enumerated Domain for Attribute: XSEC\_CODE

COC001	Cold Creek stream cross-section 1 - established 1980 as furthest downstream COC cross-section
COC002	Cold Creek stream cross-section 2 - established 1980
COC003	Cold Creek stream cross-section 3 - established 1980
COC004	Cold Creek stream cross-section 4 - established 1980
COC005	Cold Creek stream cross-section 5 - established 1980
COC006	Cold Creek stream cross-section 6 - established 1980 and measured through 1995 - z-post position is compromised
COC006A	Cold Creek stream cross-section 6A - established in 1996 and replaces cross-section 6
COC007	Cold Creek stream cross-section 7 - established 1980
COC008	Cold Creek stream cross-section 8 - established 1980
COC009	Cold Creek stream cross-section 9 - established 1980
COC010	Cold Creek stream cross-section 10 - established 1980
COC011	Cold Creek stream cross-section 11 - established 1980

COC012	Cold Creek stream cross-section 12 - established 1980
COC013	Cold Creek stream cross-section 13 - established 1980
COC014	Cold Creek stream cross-section 14 - established 1980
COC015	Cold Creek stream cross-section 15 - established 1980
COC016	Cold Creek stream cross-section 16 - established 1980
COC017	Cold Creek stream cross-section 17 - established 1980 as furthest upstream COC cross-section
HAN001	Hagan Block North stream cross-section 1 - established 1981 and used through 1987 - furthest downstream cross-section above S.Fork confluence
HAN002	Hagan Block North stream cross-section 2 - established 1981 and used through 1987
HAN003	Hagan Block North stream cross-section 3 - established 1981 and used through 1987
HAN004	Hagan Block North stream cross-section 4 - established 1981 and used through 1987
HAN005	Hagan Block North stream cross-section 5 - established 1981 and used through 1985
HAN006	Hagan Block North stream cross-section 6 - established 1981 and used through 1987
HAN007	Hagan Block North stream cross-section 7 - established 1981 and used through 1987
HAN008	Hagan Block North stream cross-section 8 - established 1981 and used through 1987
HAN009	Hagan Block North stream cross-section 9 - established 1981 and used through 1987
HAN010	Hagan Block North stream cross-section 10 - established 1981 and used through 1987
HAN011	Hagan Block North stream cross-section 11 - established 1981 and used through 1987
HAN012	Hagan Block North stream cross-section 12 - established 1981 and used through 1987
HAN013	Hagan Block North stream cross-section 13 - established 1981 and used through 1987
HAN014	Hagan Block North stream cross-section 14 - established 1981 and used through 1987
HAN015	Hagan Block North stream cross-section 15 - established 1981 and used through 1987
HAN016	Hagan Block North stream cross-section 16 - established 1981 and used through 1987
HAN017	Hagan Block North stream cross-section 17 - established 1981 and used through 1987
HAN018	Hagan Block North stream cross-section 18 - established 1981 and used through 1987
HAN019	Hagan Block North stream cross-section 19 - established 1981 and used through 1987
HAN020	Hagan Block North stream cross-section 20 - established 1981 and used through 1987 - furthest upstream cross-section
HAS001	Hagan Block South stream cross-section 1 - established 1981 and used through 1986 - downstream of cross-sections 2-21 and 911-918, upstream of 105-110 and 906-909
HAS002	Hagan Block South stream cross-section 2 - established 1981 and used through 1986
HAS003	Hagan Block South stream cross-section 3 - established 1981 and used through 1986
HAS004	Hagan Block South stream cross-section 4 - established 1981 and used through 1986
HAS005	Hagan Block South stream cross-section 5 - established 1981 and used through 1986
HAS006	Hagan Block South stream cross-section 6 - established 1981 and used through 1986
HAS007	Hagan Block South stream cross-section 7 - established 1981 and used through 1986

HAS008 Hagan Block South stream cross-section 8 - established 1981 and used through 1986

HAS009 Hagan Block South stream cross-section 9 - established 1981 and used through 1986

HAS010 Hagan Block South stream cross-section 10 - established 1981 and used through 1986

HAS011 Hagan Block South stream cross-section 11 - established 1981 and used through 1986

HAS012 Hagan Block South stream cross-section 12 - established 1981 and used through 1986

HAS013 Hagan Block South stream cross-section 13 - established 1981 and used through 1986

HAS014 Hagan Block South stream cross-section 14 - established 1981 and used through 1986

HAS015 Hagan Block South stream cross-section 15 - established 1981 and used through 1986 (15A used in 1984)

HAS015A Hagan Block South stream cross-section 15A - 1984 only - must have surveyed to wrong posts. The survey is 560 cm too long and the profile does not look like the previous or post surveys

HAS016 Hagan Block South stream cross-section 16 - established 1981 and used through 1986

HAS017 Hagan Block South stream cross-section 17 - established 1981 and used through 1986

HAS018 Hagan Block South stream cross-section 18 - established 1981 and used through 1986

HAS019 Hagan Block South stream cross-section 19 - established 1981 and used through 1986

HAS020 Hagan Block South stream cross-section 20 - established 1982 and used through 1986

HAS021 Hagan Block South stream cross-section 21 - established 1982 and used through 1986

HAS022 Hagan Block South stream cross-section 22 - established 1982 and used through 1986

HAS105 Hagan Block South stream cross-section 105 - established 1982 and used through 1986 - furthest downstream cross-section above N.Fork confluence

HAS106 Hagan Block South stream cross-section 106 - established 1982 and used through 1986

HAS107 Hagan Block South stream cross-section 107- established 1982 and used through 1986 (107A used in 1984)

HAS107A Hagan Block South stream cross-section 107A - 1984 only replacement for cross-section 107

HAS108 Hagan Block South stream cross-section 108- established 1982 and used through 1986

HAS109 Hagan Block South stream cross-section 109 - established 1982 and used through 1986

HAS110 Hagan Block South stream cross-section 110 - established 1982 and used through 1986

HAS906 Hagan Block South stream cross-section 906 - established 1982 and used through 1986 - between 106 and 107

HAS907 Hagan Block South stream cross-section 907 - established 1982 and used through 1986 - between 107 and 108

HAS908 Hagan Block South stream cross-section 908 - established 1982 and used through 1986 - between 108 and 109

HAS909 Hagan Block South stream cross-section 909 - established 1982 and used through 1986 - between 109 and 110

HAS911 Hagan Block South stream cross-section 911 - established 1982 and used through 1986 - between 011 and 012

HAS912 Hagan Block South stream cross-section 912 - established 1982 and used through 1986 - between 012 and 013

HAS913 Hagan Block South stream cross-section 913 - established 1982 and used through 1986 - between 013 and 014

HAS914 Hagan Block South stream cross-section 914 - established 1982 and used through 1986 - between 014 and 015

HAS916 Hagan Block South stream cross-section 916 - established 1982 and used through 1986 - between 016 and 017

HAS917 Hagan Block South stream cross-section 917 - established 1982 and used through 1986 - between 017 and 018

HAS918 Hagan Block South stream cross-section 918 - established 1982 and used through 1986 - between 018 and 019

LOL001 Lower Lookout stream cross-section 1 - established 1978 as furthest downstream LOL cross-section

LOL002 Lower Lookout stream cross-section 2 - established 1978 and used through 1999 - z-post lost to bank erosion

LOL002A Lower Lookout stream cross-section 2A - established 2000 and used through 2005 as replacement of cross-section 2 - z-post washed out by high flows

LOL002B Lower Lookout stream cross-section 2B - established in 2006 as replacement of cross-section 2A

LOL003 Lower Lookout stream cross-section 3 - established 1978 and used through 1995 - z-post lost

LOL003A Lower Lookout stream cross-section 3A - established 1996 and used through 1998 as replacement of cross-section 3 - bank erosion compromises z-post

LOL003B Lower Lookout stream cross-section 3B - established 1999 as replacement of cross-section 3A - x-post lost to falling trees

LOL003C Lower Lookout stream cross-section 3C - re-established 2006 and surveyed to recreate x-post placement of cross-section 3B

LOL004 Lower Lookout stream cross-section 4 - established 1978 and used through 1995 - x-post lost

LOL004A Lower Lookout stream cross-section 4A - established 1996 as replacement of cross-section 4

LOL005 Lower Lookout stream cross-section 5 - established 1978

LOL006 Lower Lookout stream cross-section 6 - established 1978 and used through 1995 - x-post lost in flood

LOL006A Lower Lookout stream cross-section 6A - established 1996 as replacement of cross-section 6 based on original z to x bearing

LOL007 Lower Lookout stream cross-section 7 - established 1978

LOL008 Lower Lookout stream cross-section 8 - established 1978

LOL009 Lower Lookout stream cross-section 9 - established 1978 and used through 1999 - x-post lost to tree windthrow

LOL009A Lower Lookout stream cross-section 9A - established 2000 as replacement of cross-section 9 - new distance and bearing but compares well with cross-section 9

LOL010 Lower Lookout stream cross-section 10 - established 1978 and used through 1995 - z-post washed out by high flows

LOL010A Lower Lookout stream cross-section 10A - established 1996 as replacement of cross-section 10

LOL011 Lower Lookout stream cross-section 11 - established 1978 and used through 1995 - z-post washed out by high flows

LOL011A Lower Lookout stream cross-section 11A - established 1996 as replacement of cross-section 11

LOL012 Lower Lookout stream cross-section 12 - established 1978

LOL013 Lower Lookout stream cross-section 13 - established 1978 and used through 2000 - earth slump changed position of post

LOL013A Lower Lookout stream cross-section 13A - re-established in 2002 as a comparable replacement of cross-section 13

LOL014 Lower Lookout stream cross-section 14 - established 1978 and used through 1999 - bank erosion compromises z-post

LOL014A Lower Lookout stream cross-section 14A - established 2000 as replacement of cross-section 14 - furthest upstream LOL cross-section

LOL019 Lower Lookout stream cross-section 19 - established 2004 between post 9Z and post 10X to capture changing gravel bar deposition from the 1996 flood

LOM001 Middle Lookout stream cross-section 1 - established 1978 as furthest upstream LOM cross-section

LOM002 Middle Lookout stream cross-section 2 - established 1978 and used through 1995 - z-post washed out by high flows

LOM002A Middle Lookout stream cross-section 2A - established 1996 and used through 2000 as replacement of cross-section 2 - x-post compromised to bank erosion

LOM002B Middle Lookout stream cross-section 2B- established 2002 as comparable replacement of cross-section 2A

LOM003 Middle Lookout stream cross-section 3 - established 1978

LOM004	Middle Lookout stream cross-section 4 - established 1978
LOM005	Middle Lookout stream cross-section 5 - established 1978 and used through 1995 - x-post washed out by high flows
LOM005A	Middle Lookout stream cross-section 5A - established 1996 as replacement of cross-section 5
LOM006	Middle Lookout stream cross-section 6 - established 1978 and used through 1995 - x or z-post washed out by high flows
LOM006A	Middle Lookout stream cross-section 6A - established 1996 as replacement of cross-section 6
LOM007	Middle Lookout stream cross-section 7 - established 1978 and used through 1995 - z-post washed out by high flows
LOM007A	Middle Lookout stream cross-section 7A - established 1996 as replacement of cross-section 7
LOM008	Middle Lookout stream cross-section 8 - established 1978 and used through 1995 - x or z-post washed out by high flows
LOM008A	Middle Lookout stream cross-section 8A - established 1996 as replacement of cross-section 8
LOM009	Middle Lookout stream cross-section 9 - established 1978 and used through 1985 - alignment of cross-section changes for unknown reason
LOM009A	Middle Lookout stream cross-section 9A - established 1986 and used through 1995 as replacement of cross-section 9 - x-post lost to bank erosion
LOM009B	Middle Lookout stream cross-section 9B - established 1996 and used through 2005 as replacement of cross-section 9A - x-post lost during high flows
LOM009C	Middle Lookout stream cross-section 9C - established 2006 as replacement of cross-section 9B
LOM010	Middle Lookout stream cross-section 10 - established 1978 and used through 1995 - x-post washed out by high flows
LOM010A	Middle Lookout stream cross-section 10A - established 1996 and used through 1999 as replacement of cross-section 10 - x-post lost to bank erosion
LOM010B	Middle Lookout stream cross-section 10B - established 2000 and used through 2005 as replacement of cross-section 10A with both end points changed - x-post lost to bank erosion
LOM010C	Middle Lookout stream cross-section 10C - established 2006 as replacement of cross-section 10B
LOM011	Middle Lookout stream cross-section 11 - established 1978 as furthest downstream LOM cross-section
MAC001	Mack old-growth stream cross-section 1 - established 1978 as furthest downstream MAC cross-section
MAC002	Mack old-growth stream cross-section 2 - established 1978
MAC003	Mack old-growth stream cross-section 3 - established 1978
MAC004	Mack old-growth stream cross-section 4 - established 1978
MAC005	Mack old-growth stream cross-section 5 - established 1978
MAC006	Mack old-growth stream cross-section 6 - established 1978
MAC007	Mack old-growth stream cross-section 7 - established 1978
MAC008	Mack old-growth stream cross-section 8 - established 1978
MAC009	Mack old-growth stream cross-section 9 - established 1978
MAC010	Mack old-growth stream cross-section 10 - established 1978
MAC011	Mack old-growth stream cross-section 11 - established 1978
MAC012	Mack old-growth stream cross-section 12 - established 1978 as furthest upstream MAC cross-section
MCC101	Mack clearcut stream cross-section 101 - established 1981 as furthest upstream MCC cross-section and below gauging station
MCC102	Mack clearcut stream cross-section 102 - established 1981
MCC103	Mack clearcut stream cross-section 103 - established 1981

MCC104	Mack clearcut stream cross-section 104 - established 1981
MCC105	Mack clearcut stream cross-section 105 - established 1981
MCC106	Mack clearcut stream cross-section 106 - established 1981
MCC107	Mack clearcut stream cross-section 107 - established 1981
MCC108	Mack clearcut stream cross-section 108 - established 1981
MCC109	Mack clearcut stream cross-section 109 - established 1981 and used through 2000 - repositioned to avoid tree affecting survey
MCC109A	Mack clearcut stream cross-section 109A - established in 2000 as replacement for cross-section 109 - x-post moved 1.15 m downstream
MCC110	Mack clearcut stream cross-section 110 - established 1981
MCC111	Mack clearcut stream cross-section 111 - established 1981
MCC112	Mack clearcut stream cross-section 112 - established 1981 but only used 1982 and 1984
MCC112A	Mack clearcut stream cross-section 112A - established in 1981 as cross-section 112, but use 112 in 1982 and 1984
MCC113	Mack clearcut stream cross-section 113 - established 1981
MCC114	Mack clearcut stream cross-section 114 - established 1981
MCC115	Mack clearcut stream cross-section 115 - established 1981
MCC116	Mack clearcut stream cross-section 116 - established 1981
MCC117	Mack clearcut stream cross-section 117 - established 1981 and used through 1982
MCC117A	Mack clearcut stream cross-section 117A - established in 1984 as replacement for cross-section 117
MCC118	Mack clearcut stream cross-section 118 - established 1981 and used through 2000 - repositioned
MCC118A	Mack clearcut stream cross-section 118A - established in 2000 as replacement for cross-section 118
MCC119	Mack clearcut stream cross-section 119 - established 1981
MCC120	Mack clearcut stream cross-section 120 - established 1981 as furthest downstream MCC cross-section
SHR000	Shorter stream cross-section 000 - established 1978 and used through 1982 as furthest downstream Shorter cross-section
SHR004	Shorter stream cross-section 004 - established 1978 and used through 1982
SHR008	Shorter stream cross-section 008 - established 1978 and used through 1982
SHR012	Shorter stream cross-section 012 - established 1978 and used through 1982
SHR016	Shorter stream cross-section 016 - established 1978 and used through 1982
SHR020	Shorter stream cross-section 020 - established 1978 and used through 1982
SHR024	Shorter stream cross-section 024 - established 1978 and used through 1982
SHR028	Shorter stream cross-section 028 - established 1978 and used through 1982
SHR032	Shorter stream cross-section 032 - established 1978 and used through 1982
SHR036	Shorter stream cross-section 036 - established 1978 and used through 1982
SHR040	Shorter stream cross-section 040 - established 1978 and used through 1982
SHR044	Shorter stream cross-section 044 - established 1978 and used through 1982
SHR100	Shorter stream cross-section 100 - established 1978 and used through 1982

SHR100P	Shorter stream cross-section 100P - second measurement of cross-section 100 in 1978
SHR100Q	Shorter stream cross-section 100Q - third measurement of cross-section 100 in 1978
SHR102	Shorter stream cross-section 102 - established 1978 and used through 1982
SHR102P	Shorter stream cross-section 102P - second measurement of cross-section 102 in 1978
SHR102Q	Shorter stream cross-section 102Q - third measurement of cross-section 102 in 1978
SHR104	Shorter stream cross-section 104 - established 1978 and used through 1982
SHR104P	Shorter stream cross-section 104P - second measurement of cross-section 104 in 1978
SHR104Q	Shorter stream cross-section 104Q - third measurement of cross-section 104 in 1978
SHR106	Shorter stream cross-section 106 - established 1978 and used through 1982
SHR106P	Shorter stream cross-section 106P - second measurement of cross-section 106 in 1978
SHR106Q	Shorter stream cross-section 106Q - third measurement of cross-section 106 in 1978
SHR108	Shorter stream cross-section 108 - established 1978 and used through 1982
SHR108P	Shorter stream cross-section 108P - second measurement of cross-section 108 in 1978
SHR108Q	Shorter stream cross-section 108Q - third measurement of cross-section 108 in 1978
SHR110	Shorter stream cross-section 110 - established 1978 and used through 1982
SHR110P	Shorter stream cross-section 110P - second measurement of cross-section 110 in 1978
SHR110Q	Shorter stream cross-section 110Q - third measurement of cross-section 110 in 1978
SHR112	Shorter stream cross-section 112 - established 1978 and used through 1982
SHR112P	Shorter stream cross-section 112P - second measurement of cross-section 112 in 1978
SHR112Q	Shorter stream cross-section 112Q - third measurement of cross-section 112 in 1978
SHR114	Shorter stream cross-section 114 - established 1978 and used through 1982
SHR114P	Shorter stream cross-section 114P - second measurement of cross-section 114 in 1978
SHR114Q	Shorter stream cross-section 114Q - third measurement of cross-section 114 in 1978
SHR116	Shorter stream cross-section 116 - established 1978 and used through 1982
SHR116P	Shorter stream cross-section 116P - second measurement of cross-section 116 in 1978
SHR116Q	Shorter stream cross-section 116Q - third measurement of cross-section 116 in 1978
SHR118	Shorter stream cross-section 118 - established 1978 and used through 1982
SHR118P	Shorter stream cross-section 118P - second measurement of cross-section 118 in 1978
SHR118Q	Shorter stream cross-section 118Q - third measurement of cross-section 118 in 1978
SHR120	Shorter stream cross-section 120 - established 1978 and used through 1982
SHR120P	Shorter stream cross-section 120P - second measurement of cross-section 120 in 1978
SHR120Q	Shorter stream cross-section 120Q - third measurement of cross-section 120 in 1978
SHR122	Shorter stream cross-section 122 - established 1978 and used through 1982
SHR122P	Shorter stream cross-section 122P - second measurement of cross-section 122

in 1978

SHR122Q	Shorter stream cross-section 122Q - third measurement of cross-section 122 in 1978
SHR124	Shorter stream cross-section 124 - established 1978 and used through 1982
SHR124P	Shorter stream cross-section 124P - second measurement of cross-section 124 in 1978
SHR126	Shorter stream cross-section 126 - established 1978 and used through 1981
SHR126A	Shorter stream cross-section 126A - established 1982 as replacement of cross-section 126
SHR126P	Shorter stream cross-section 126P - second measurement of cross-section 126 in 1978
SHR128	Shorter stream cross-section 128 - established 1978 and used through 1982
SHR130	Shorter stream cross-section 130 - established 1978 and used through 1982
SHR130P	Shorter stream cross-section 130P - second measurement of cross-section 130 in 1978
SHR132	Shorter stream cross-section 132 - established 1978 and used through 1982
SHR132P	Shorter stream cross-section 132P - second measurement of cross-section 132 in 1978
SHR134	Shorter stream cross-section 134 - established 1978 and used through 1982
SHR134P	Shorter stream cross-section 134P - second measurement of cross-section 134 in 1978
SHR136	Shorter stream cross-section 136 - established 1978 and used through 1982
SHR136P	Shorter stream cross-section 136P - second measurement of cross-section 136 in 1978
SHR138	Shorter stream cross-section 138 - established 1978 and used through 1982
SHR138P	Shorter stream cross-section 138P - second measurement of cross-section 138 in 1978
SHR140	Shorter stream cross-section 140 - established 1978 and used through 1982
SHR140P	Shorter stream cross-section 140P - second measurement of cross-section 140 in 1978
SHR142	Shorter stream cross-section 142 - established 1978 and used through 1982
SHR142P	Shorter stream cross-section 142P - second measurement of cross-section 142 in 1978
SHR144	Shorter stream cross-section 144 - established 1978 and used through 1982
SHR200	Shorter stream cross-section 200 - established 1978 and used through 1982
SHR202	Shorter stream cross-section 202 - established 1978 and used through 1982
SHR203	Shorter stream cross-section 203 - established 1978 and used through 1982
SHR206	Shorter stream cross-section 206 - established 1978 and used through 1982
SHR209	Shorter stream cross-section 209 - established 1978 and used through 1982
SHR211	Shorter stream cross-section 211 - established 1978 and used through 1982
SHR212	Shorter stream cross-section 212 - established 1978 and used through 1982
SHR215	Shorter stream cross-section 215 - established 1978 and used through 1982
SHR216	Shorter stream cross-section 216 - established 1978 and used through 1982
SHR219	Shorter stream cross-section 219 - established 1978 and used through 1982
SHR221	Shorter stream cross-section 221 - established 1978 and used through 1982



SHR222	Shorter stream cross-section 222 - established 1978 and used through 1982
SHR224	Shorter stream cross-section 224 - established 1978 and used through 1982
SHR226	Shorter stream cross-section 226 - established 1978 and used through 1982
SHR229	Shorter stream cross-section 229 - established 1978 and used through 1982
SHR231	Shorter stream cross-section 231 - established 1978 and used through 1982
SHR233	Shorter stream cross-section 233 - established 1978 and used through 1982
SHR236	Shorter stream cross-section 236 - established 1978 and used through 1982
SHR240	Shorter stream cross-section 240 - established 1978 and used through 1982
SHR244	Shorter stream cross-section 244 - established for 1982 only
SHR246	Shorter stream cross-section 246 - established 1978 and used through 1980
SHR250	Shorter stream cross-section 250 - established 1978 and used through 1982
SHR306	Shorter stream cross-section 306 - established 1978 and used through 1982
SHR313	Shorter stream cross-section 313 - established 1978 and used through 1982
SHR318	Shorter stream cross-section 318 - established 1978 and used through 1982
SHR321	Shorter stream cross-section 321 - established 1978 and used through 1982
SHR327	Shorter stream cross-section 327 - established 1978 and used through 1982
SHR330	Shorter stream cross-section 330 - established 1978 and used through 1982
SHR338	Shorter stream cross-section 338 - established 1978 and used through 1982
SHR340	Shorter stream cross-section 340 - established 1978 and used through 1982
SHR348	Shorter stream cross-section 348 - established 1978 and used through 1982
SHR354	Shorter stream cross-section 354 - established 1978 and used through 1982
LOL010B	Lower Lookout stream cross-section 10B - established 2009 as replacement of 10A - now shares x-post with 11B and 19A
LOL011B	Lower Lookout stream cross-section 11B - established 2009 as replacement of 11A and now shares x-post with 10B and 19A
LOL019A	Lower Lookout stream cross-section 19A - established in 2009 as replacement of 19 and now shares x-post with 10B and 11B
LOL010C	Lower Lookout stream cross-section 10C - established 2011 as replacement of 10B - no longer shares x-post with 11B and 19A
LOL011C	Lower Lookout stream cross-section 11C - established 2011 as replacement of 11B - no longer shares x-post with 10B and 19A
LOL019B	Lower Lookout stream cross-section 19B - established in 2011 as replacement of 19A - no longer shares x-post with 10B and 11B
LOM009D	Middle Lookout stream cross-section 9D - established 2011 as replacement of cross-section 9C
LOM010D	Middle Lookout stream cross-section 10D - established 2011 as replacement of cross-section 10C
COC002A	Cold Creek stream cross-section 2A - established 2011 as a replacement of cross-section 2 - X-post is reset due to tree fall

Enumerated Domain for Attribute: CHANCODE

NA	No channel code is applicable
BF	Bank full
EC	Edge of channel

EW Edge of water (main channel)

Enumerated Domain for Attribute: OTHERCODE

NA No other channel or substrate codes apply

BF Bank full

BL Boulder

CB Cobble

EW Edge of water (main channel)

GR Gravel

LG Log ( > 10 cm diameter )

LI Litter

TR Trail

FS Fine sediment

UC Undercut bank

TB Tributary

RB Rebar

EC Edge of channel

Enumerated Domain for Attribute: DBCODE

GS002 FSDB Database Code GS002

Enumerated Domain for Attribute: SUBSTRATE

NR Not recorded

BL Boulder

BR Bedrock

CB Cobble

FO Fine organics

FS Fine sediment

GR Gravel

IB Eye-bolt/bedrock

LG Log ( > 10 cm diameter)

LI Litter

LS Suspended log

MS Bare mineral soil / colluvium

OD Organic debris ( < 10 cm diameter)

OS Suspended organic debris

RW Rootwad / stump

TF	Turf / grass
TR	Trail
WS	Water surface (for recording elevation of water; rod held at water surface) field crew was using code WSE water surface elevation

Enumerated Domain for Attribute: XSEC\_CODE

COC001	Cold Creek stream cross-section 1 - established 1980 as furthest downstream COC cross-section
COC002	Cold Creek stream cross-section 2 - established 1980
COC003	Cold Creek stream cross-section 3 - established 1980
COC004	Cold Creek stream cross-section 4 - established 1980
COC005	Cold Creek stream cross-section 5 - established 1980
COC006	Cold Creek stream cross-section 6 - established 1980 and measured through 1995 - z-post position is compromised
COC006A	Cold Creek stream cross-section 6A - established in 1996 and replaces cross-section 6
COC007	Cold Creek stream cross-section 7 - established 1980
COC008	Cold Creek stream cross-section 8 - established 1980
COC009	Cold Creek stream cross-section 9 - established 1980
COC010	Cold Creek stream cross-section 10 - established 1980
COC011	Cold Creek stream cross-section 11 - established 1980
COC012	Cold Creek stream cross-section 12 - established 1980
COC013	Cold Creek stream cross-section 13 - established 1980
COC014	Cold Creek stream cross-section 14 - established 1980
COC015	Cold Creek stream cross-section 15 - established 1980
COC016	Cold Creek stream cross-section 16 - established 1980
COC017	Cold Creek stream cross-section 17 - established 1980 as furthest upstream COC cross-section
HAN001	Hagan Block North stream cross-section 1 - established 1981 and used through 1987 - furthest downstream cross-section above S.Fork confluence
HAN002	Hagan Block North stream cross-section 2 - established 1981 and used through 1987
HAN003	Hagan Block North stream cross-section 3 - established 1981 and used through 1987
HAN004	Hagan Block North stream cross-section 4 - established 1981 and used through 1987
HAN005	Hagan Block North stream cross-section 5 - established 1981 and used through 1985
HAN006	Hagan Block North stream cross-section 6 - established 1981 and used through 1987
HAN007	Hagan Block North stream cross-section 7 - established 1981 and used through 1987
HAN008	Hagan Block North stream cross-section 8 - established 1981 and used through 1987
HAN009	Hagan Block North stream cross-section 9 - established 1981 and used through 1987
HAN010	Hagan Block North stream cross-section 10 - established 1981 and used through 1987
HAN011	Hagan Block North stream cross-section 11 - established 1981 and used through 1987
HAN012	Hagan Block North stream cross-section 12 - established 1981 and used through 1987

HAN013	Hagan Block North stream cross-section 13 - established 1981 and used through 1987
HAN014	Hagan Block North stream cross-section 14 - established 1981 and used through 1987
HAN015	Hagan Block North stream cross-section 15 - established 1981 and used through 1987
HAN016	Hagan Block North stream cross-section 16 - established 1981 and used through 1987
HAN017	Hagan Block North stream cross-section 17 - established 1981 and used through 1987
HAN018	Hagan Block North stream cross-section 18 - established 1981 and used through 1987
HAN019	Hagan Block North stream cross-section 19 - established 1981 and used through 1987
HAN020	Hagan Block North stream cross-section 20 - established 1981 and used through 1987 - furthest upstream cross-section
HAS001	Hagan Block South stream cross-section 1 - established 1981 and used through 1986 - downstream of cross-sections 2-21 and 911-918, upstream of 105-110 and 906-909
HAS002	Hagan Block South stream cross-section 2 - established 1981 and used through 1986
HAS003	Hagan Block South stream cross-section 3 - established 1981 and used through 1986
HAS004	Hagan Block South stream cross-section 4 - established 1981 and used through 1986
HAS005	Hagan Block South stream cross-section 5 - established 1981 and used through 1986
HAS006	Hagan Block South stream cross-section 6 - established 1981 and used through 1986
HAS007	Hagan Block South stream cross-section 7 - established 1981 and used through 1986
HAS008	Hagan Block South stream cross-section 8 - established 1981 and used through 1986
HAS009	Hagan Block South stream cross-section 9 - established 1981 and used through 1986
HAS010	Hagan Block South stream cross-section 10 - established 1981 and used through 1986
HAS011	Hagan Block South stream cross-section 11 - established 1981 and used through 1986
HAS012	Hagan Block South stream cross-section 12 - established 1981 and used through 1986
HAS013	Hagan Block South stream cross-section 13 - established 1981 and used through 1986
HAS014	Hagan Block South stream cross-section 14 - established 1981 and used through 1986
HAS015	Hagan Block South stream cross-section 15 - established 1981 and used through 1986 (15A used in 1984)
HAS015A	Hagan Block South stream cross-section 15A - 1984 only - must have surveyed to wrong posts. The survey is 560 cm too long and the profile does not look like the previous or post surveys
HAS016	Hagan Block South stream cross-section 16 - established 1981 and used through 1986
HAS017	Hagan Block South stream cross-section 17 - established 1981 and used through 1986
HAS018	Hagan Block South stream cross-section 18 - established 1981 and used through 1986
HAS019	Hagan Block South stream cross-section 19 - established 1981 and used through 1986
HAS020	Hagan Block South stream cross-section 20 - established 1982 and used through 1986
HAS021	Hagan Block South stream cross-section 21 - established 1982 and used through 1986
HAS022	Hagan Block South stream cross-section 22 - established 1982 and used through 1986
HAS105	Hagan Block South stream cross-section 105 - established 1982 and used through 1986 - furthest downstream cross-section above N.Fork confluence
HAS106	Hagan Block South stream cross-section 106 - established 1982 and used

through 1986

HAS107	Hagan Block South stream cross-section 107- established 1982 and used through 1986 (107A used in 1984)
HAS107A	Hagan Block South stream cross-section 107A - 1984 only replacement for cross-section 107
HAS108	Hagan Block South stream cross-section 108- established 1982 and used through 1986
HAS109	Hagan Block South stream cross-section 109 - established 1982 and used through 1986
HAS110	Hagan Block South stream cross-section 110 - established 1982 and used through 1986
HAS906	Hagan Block South stream cross-section 906 - established 1982 and used through 1986 - between 106 and 107
HAS907	Hagan Block South stream cross-section 907 - established 1982 and used through 1986 - between 107 and 108
HAS908	Hagan Block South stream cross-section 908 - established 1982 and used through 1986 - between 108 and 109
HAS909	Hagan Block South stream cross-section 909 - established 1982 and used through 1986 - between 109 and 110
HAS911	Hagan Block South stream cross-section 911 - established 1982 and used through 1986 - between 011 and 012
HAS912	Hagan Block South stream cross-section 912 - established 1982 and used through 1986 - between 012 and 013
HAS913	Hagan Block South stream cross-section 913 - established 1982 and used through 1986 - between 013 and 014
HAS914	Hagan Block South stream cross-section 914 - established 1982 and used through 1986 - between 014 and 015
HAS916	Hagan Block South stream cross-section 916 - established 1982 and used through 1986 - between 016 and 017
HAS917	Hagan Block South stream cross-section 917 - established 1982 and used through 1986 - between 017 and 018
HAS918	Hagan Block South stream cross-section 918 - established 1982 and used through 1986 - between 018 and 019
LOL001	Lower Lookout stream cross-section 1 - established 1978 as furthest downstream LOL cross-section
LOL002	Lower Lookout stream cross-section 2 - established 1978 and used through 1999 - z-post lost to bank erosion
LOL002A	Lower Lookout stream cross-section 2A - established 2000 and used through 2005 as replacement of cross-section 2 - z-post washed out by high flows
LOL002B	Lower Lookout stream cross-section 2B - established in 2006 as replacement of cross-section 2A
LOL003	Lower Lookout stream cross-section 3 - established 1978 and used through 1995 - z-post lost
LOL003A	Lower Lookout stream cross-section 3A - established 1996 and used through 1998 as replacement of cross-section 3 - bank erosion compromises z-post
LOL003B	Lower Lookout stream cross-section 3B - established 1999 as replacement of cross-section 3A - x-post lost to falling trees
LOL003C	Lower Lookout stream cross-section 3C - re-established 2006 and surveyed to recreate x-post placement of cross-section 3B
LOL004	Lower Lookout stream cross-section 4 - established 1978 and used through 1995 - x-post lost
LOL004A	Lower Lookout stream cross-section 4A - established 1996 as replacement of cross-section 4
LOL005	Lower Lookout stream cross-section 5 - established 1978
LOL006	Lower Lookout stream cross-section 6 - established 1978 and used through 1995 - x-post lost in flood
LOL006A	Lower Lookout stream cross-section 6A - established 1996 as replacement of cross-section 6 based on original z to x bearing
LOL007	Lower Lookout stream cross-section 7 - established 1978
LOL008	Lower Lookout stream cross-section 8 - established 1978
LOL009	Lower Lookout stream cross-section 9 - established 1978 and used through 1999 - x-post lost to tree windthrow
LOL009A	Lower Lookout stream cross-section 9A - established 2000 as replacement of

cross-section 9 - new distance and bearing but compares well with cross-section 9

LOLO10 Lower Lookout stream cross-section 10 - established 1978 and used through 1995 - z-post washed out by high flows

LOLO10A Lower Lookout stream cross-section 10A - established 1996 as replacement of cross-section 10

LOLO11 Lower Lookout stream cross-section 11 - established 1978 and used through 1995 - z-post washed out by high flows

LOLO11A Lower Lookout stream cross-section 11A - established 1996 as replacement of cross-section 11

LOLO12 Lower Lookout stream cross-section 12 - established 1978

LOLO13 Lower Lookout stream cross-section 13 - established 1978 and used through 2000 - earth slump changed position of post

LOLO13A Lower Lookout stream cross-section 13A - re-established in 2002 as a comparable replacement of cross-section 13

LOLO14 Lower Lookout stream cross-section 14 - established 1978 and used through 1999 - bank erosion compromises z-post

LOLO14A Lower Lookout stream cross-section 14A - established 2000 as replacement of cross-section 14 - furthest upstream LOL cross-section

LOLO19 Lower Lookout stream cross-section 19 - established 2004 between post 9Z and post 10X to capture changing gravel bar deposition from the 1996 flood

LOM001 Middle Lookout stream cross-section 1 - established 1978 as furthest upstream LOM cross-section

LOM002 Middle Lookout stream cross-section 2 - established 1978 and used through 1995 - z-post washed out by high flows

LOM002A Middle Lookout stream cross-section 2A - established 1996 and used through 2000 as replacement of cross-section 2 - x-post compromised to bank erosion

LOM002B Middle Lookout stream cross-section 2B- established 2002 as comparable replacement of cross-section 2A

LOM003 Middle Lookout stream cross-section 3 - established 1978

LOM004 Middle Lookout stream cross-section 4 - established 1978

LOM005 Middle Lookout stream cross-section 5 - established 1978 and used through 1995 - x-post washed out by high flows

LOM005A Middle Lookout stream cross-section 5A - established 1996 as replacement of cross-section 5

LOM006 Middle Lookout stream cross-section 6 - established 1978 and used through 1995 - x or z-post washed out by high flows

LOM006A Middle Lookout stream cross-section 6A - established 1996 as replacement of cross-section 6

LOM007 Middle Lookout stream cross-section 7 - established 1978 and used through 1995 - z-post washed out by high flows

LOM007A Middle Lookout stream cross-section 7A - established 1996 as replacement of cross-section 7

LOM008 Middle Lookout stream cross-section 8 - established 1978 and used through 1995 - x or z-post washed out by high flows

LOM008A Middle Lookout stream cross-section 8A - established 1996 as replacement of cross-section 8

LOM009 Middle Lookout stream cross-section 9 - established 1978 and used through 1985 - alignment of cross-section changes for unknown reason

LOM009A Middle Lookout stream cross-section 9A - established 1986 and used through 1995 as replacement of cross-section 9 - x-post lost to bank erosion

LOM009B Middle Lookout stream cross-section 9B - established 1996 and used through 2005 as replacement of cross-section 9A - x-post lost during high flows

LOM009C Middle Lookout stream cross-section 9C - established 2006 as replacement of cross-section 9B

LOM010 Middle Lookout stream cross-section 10 - established 1978 and used through 1995 - x-post washed out by high flows

LOM010A Middle Lookout stream cross-section 10A - established 1996 and used through 1999 as replacement of cross-section 10 - x-post lost to bank erosion

LOM010B Middle Lookout stream cross-section 10B - established 2000 and used through 2005 as replacement of cross-section 10A with both end points changed - x-post lost to bank erosion

LOM010C Middle Lookout stream cross-section 10C - established 2006 as replacement of cross-section 10B

LOM011	Middle Lookout stream cross-section 11- established 1978 as furthest downstream LOM cross-section
MAC001	Mack old-growth stream cross-section 1- established 1978 as furthest downstream MAC cross-section
MAC002	Mack old-growth stream cross-section 2- established 1978
MAC003	Mack old-growth stream cross-section 3 - established 1978
MAC004	Mack old-growth stream cross-section 4 - established 1978
MAC005	Mack old-growth stream cross-section 5 - established 1978
MAC006	Mack old-growth stream cross-section 6 - established 1978
MAC007	Mack old-growth stream cross-section 7 - established 1978
MAC008	Mack old-growth stream cross-section 8 - established 1978
MAC009	Mack old-growth stream cross-section 9 - established 1978
MAC010	Mack old-growth stream cross-section 10 - established 1978
MAC011	Mack old-growth stream cross-section 11 - established 1978
MAC012	Mack old-growth stream cross-section 12 - established 1978 as furthest upstream MAC cross-section
MCC101	Mack clearcut stream cross-section 101 - established 1981 as furthest upstream MCC cross-section and below gauging station
MCC102	Mack clearcut stream cross-section 102 - established 1981
MCC103	Mack clearcut stream cross-section 103 - established 1981
MCC104	Mack clearcut stream cross-section 104 - established 1981
MCC105	Mack clearcut stream cross-section 105 - established 1981
MCC106	Mack clearcut stream cross-section 106 - established 1981
MCC107	Mack clearcut stream cross-section 107 - established 1981
MCC108	Mack clearcut stream cross-section 108 - established 1981
MCC109	Mack clearcut stream cross-section 109 - established 1981 and used through 2000 - repositioned to avoid tree affecting survey
MCC109A	Mack clearcut stream cross-section 109A - established in 2000 as replacement for cross-section 109 - x-post moved 1.15 m downstream
MCC110	Mack clearcut stream cross-section 110 - established 1981
MCC111	Mack clearcut stream cross-section 111 - established 1981
MCC112	Mack clearcut stream cross-section 112 - established 1981 but only used 1982 and 1984
MCC112A	Mack clearcut stream cross-section 112A - established in 1981 as cross-section 112, but use 112 in 1982 and 1984
MCC113	Mack clearcut stream cross-section 113 - established 1981
MCC114	Mack clearcut stream cross-section 114 - established 1981
MCC115	Mack clearcut stream cross-section 115 - established 1981
MCC116	Mack clearcut stream cross-section 116 - established 1981
MCC117	Mack clearcut stream cross-section 117 - established 1981 and used through 1982
MCC117A	Mack clearcut stream cross-section 117A - established in 1984 as replacement for cross-section 117
MCC118	Mack clearcut stream cross-section 118 - established 1981 and used through

2000 - repositioned

MCC118A	Mack clearcut stream cross-section 118A - established in 2000 as replacement for cross-section 118
MCC119	Mack clearcut stream cross-section 119 - established 1981
MCC120	Mack clearcut stream cross-section 120 - established 1981 as furthest downstream MCC cross-section
SHR000	Shorter stream cross-section 000 - established 1978 and used through 1982 as furthest downstream Shorter cross-section
SHR004	Shorter stream cross-section 004 - established 1978 and used through 1982
SHR008	Shorter stream cross-section 008 - established 1978 and used through 1982
SHR012	Shorter stream cross-section 012 - established 1978 and used through 1982
SHR016	Shorter stream cross-section 016 - established 1978 and used through 1982
SHR020	Shorter stream cross-section 020 - established 1978 and used through 1982
SHR024	Shorter stream cross-section 024 - established 1978 and used through 1982
SHR028	Shorter stream cross-section 028 - established 1978 and used through 1982
SHR032	Shorter stream cross-section 032 - established 1978 and used through 1982
SHR036	Shorter stream cross-section 036 - established 1978 and used through 1982
SHR040	Shorter stream cross-section 040 - established 1978 and used through 1982
SHR044	Shorter stream cross-section 044 - established 1978 and used through 1982
SHR100	Shorter stream cross-section 100 - established 1978 and used through 1982
SHR100P	Shorter stream cross-section 100P - second measurement of cross-section 100 in 1978
SHR100Q	Shorter stream cross-section 100Q - third measurement of cross-section 100 in 1978
SHR102	Shorter stream cross-section 102 - established 1978 and used through 1982
SHR102P	Shorter stream cross-section 102P - second measurement of cross-section 102 in 1978
SHR102Q	Shorter stream cross-section 102Q - third measurement of cross-section 102 in 1978
SHR104	Shorter stream cross-section 104 - established 1978 and used through 1982
SHR104P	Shorter stream cross-section 104P - second measurement of cross-section 104 in 1978
SHR104Q	Shorter stream cross-section 104Q - third measurement of cross-section 104 in 1978
SHR106	Shorter stream cross-section 106 - established 1978 and used through 1982
SHR106P	Shorter stream cross-section 106P - second measurement of cross-section 106 in 1978
SHR106Q	Shorter stream cross-section 106Q - third measurement of cross-section 106 in 1978
SHR108	Shorter stream cross-section 108 - established 1978 and used through 1982
SHR108P	Shorter stream cross-section 108P - second measurement of cross-section 108 in 1978
SHR108Q	Shorter stream cross-section 108Q - third measurement of cross-section 108 in 1978
SHR110	Shorter stream cross-section 110 - established 1978 and used through 1982
SHR110P	Shorter stream cross-section 110P - second measurement of cross-section 110 in 1978
SHR110Q	Shorter stream cross-section 110Q - third measurement of cross-section 110 in 1978



1978

SHR112	Shorter stream cross-section 112 - established 1978 and used through 1982
SHR112P	Shorter stream cross-section 112P - second measurement of cross-section 112 in 1978
SHR112Q	Shorter stream cross-section 112Q - third measurement of cross-section 112 in 1978
SHR114	Shorter stream cross-section 114 - established 1978 and used through 1982
SHR114P	Shorter stream cross-section 114P - second measurement of cross-section 114 in 1978
SHR114Q	Shorter stream cross-section 114Q - third measurement of cross-section 114 in 1978
SHR116	Shorter stream cross-section 116 - established 1978 and used through 1982
SHR116P	Shorter stream cross-section 116P - second measurement of cross-section 116 in 1978
SHR116Q	Shorter stream cross-section 116Q - third measurement of cross-section 116 in 1978
SHR118	Shorter stream cross-section 118 - established 1978 and used through 1982
SHR118P	Shorter stream cross-section 118P - second measurement of cross-section 118 in 1978
SHR118Q	Shorter stream cross-section 118Q - third measurement of cross-section 118 in 1978
SHR120	Shorter stream cross-section 120 - established 1978 and used through 1982
SHR120P	Shorter stream cross-section 120P - second measurement of cross-section 120 in 1978
SHR120Q	Shorter stream cross-section 120Q - third measurement of cross-section 120 in 1978
SHR122	Shorter stream cross-section 122 - established 1978 and used through 1982
SHR122P	Shorter stream cross-section 122P - second measurement of cross-section 122 in 1978
SHR122Q	Shorter stream cross-section 122Q - third measurement of cross-section 122 in 1978
SHR124	Shorter stream cross-section 124 - established 1978 and used through 1982
SHR124P	Shorter stream cross-section 124P - second measurement of cross-section 124 in 1978
SHR126	Shorter stream cross-section 126 - established 1978 and used through 1981
SHR126A	Shorter stream cross-section 126A - established 1982 as replacement of cross-section 126
SHR126P	Shorter stream cross-section 126P - second measurement of cross-section 126 in 1978
SHR128	Shorter stream cross-section 128 - established 1978 and used through 1982
SHR130	Shorter stream cross-section 130 - established 1978 and used through 1982
SHR130P	Shorter stream cross-section 130P - second measurement of cross-section 130 in 1978
SHR132	Shorter stream cross-section 132 - established 1978 and used through 1982
SHR132P	Shorter stream cross-section 132P - second measurement of cross-section 132 in 1978
SHR134	Shorter stream cross-section 134 - established 1978 and used through 1982
SHR134P	Shorter stream cross-section 134P - second measurement of cross-section 134 in 1978
SHR136	Shorter stream cross-section 136 - established 1978 and used through 1982
SHR136P	Shorter stream cross-section 136P - second measurement of cross-section 136 in 1978
SHR138	Shorter stream cross-section 138 - established 1978 and used through 1982

SHR138P	Shorter stream cross-section 138P - second measurement of cross-section 138 in 1978
SHR140	Shorter stream cross-section 140 - established 1978 and used through 1982
SHR140P	Shorter stream cross-section 140P - second measurement of cross-section 140 in 1978
SHR142	Shorter stream cross-section 142 - established 1978 and used through 1982
SHR142P	Shorter stream cross-section 142P - second measurement of cross-section 142 in 1978
SHR144	Shorter stream cross-section 144 - established 1978 and used through 1982
SHR200	Shorter stream cross-section 200 - established 1978 and used through 1982
SHR202	Shorter stream cross-section 202 - established 1978 and used through 1982
SHR203	Shorter stream cross-section 203 - established 1978 and used through 1982
SHR206	Shorter stream cross-section 206 - established 1978 and used through 1982
SHR209	Shorter stream cross-section 209 - established 1978 and used through 1982
SHR211	Shorter stream cross-section 211 - established 1978 and used through 1982
SHR212	Shorter stream cross-section 212 - established 1978 and used through 1982
SHR215	Shorter stream cross-section 215 - established 1978 and used through 1982
SHR216	Shorter stream cross-section 216 - established 1978 and used through 1982
SHR219	Shorter stream cross-section 219 - established 1978 and used through 1982
SHR221	Shorter stream cross-section 221 - established 1978 and used through 1982
SHR222	Shorter stream cross-section 222 - established 1978 and used through 1982
SHR224	Shorter stream cross-section 224 - established 1978 and used through 1982
SHR226	Shorter stream cross-section 226 - established 1978 and used through 1982
SHR229	Shorter stream cross-section 229 - established 1978 and used through 1982
SHR231	Shorter stream cross-section 231 - established 1978 and used through 1982
SHR233	Shorter stream cross-section 233 - established 1978 and used through 1982
SHR236	Shorter stream cross-section 236 - established 1978 and used through 1982
SHR240	Shorter stream cross-section 240 - established 1978 and used through 1982
SHR244	Shorter stream cross-section 244 - established for 1982 only
SHR246	Shorter stream cross-section 246 - established 1978 and used through 1980
SHR250	Shorter stream cross-section 250 - established 1978 and used through 1982
SHR306	Shorter stream cross-section 306 - established 1978 and used through 1982
SHR313	Shorter stream cross-section 313 - established 1978 and used through 1982
SHR318	Shorter stream cross-section 318 - established 1978 and used through 1982
SHR321	Shorter stream cross-section 321 - established 1978 and used through 1982
SHR327	Shorter stream cross-section 327 - established 1978 and used through 1982
SHR330	Shorter stream cross-section 330 - established 1978 and used through 1982

SHR338	Shorter stream cross-section 338 - established 1978 and used through 1982
SHR340	Shorter stream cross-section 340 - established 1978 and used through 1982
SHR348	Shorter stream cross-section 348 - established 1978 and used through 1982
SHR354	Shorter stream cross-section 354 - established 1978 and used through 1982
LOL010B	Lower Lookout stream cross-section 10B - established 2009 as replacement of 10A - now shares x-post with 11B and 19A
LOL011B	Lower Lookout stream cross-section 11B - established 2009 as replacement of 11A and now shares x-post with 10B and 19A
LOL019A	Lower Lookout stream cross-section 19A - established in 2009 as replacement of 19 and now shares x-post with 10B and 11B
LOL010C	Lower Lookout stream cross-section 10C - established 2011 as replacement of 10B - no longer shares x-post with 11B and 19A
LOL011C	Lower Lookout stream cross-section 11C - established 2011 as replacement of 11B - no longer shares x-post with 10B and 19A
LOL019B	Lower Lookout stream cross-section 19B - established in 2011 as replacement of 19A - no longer shares x-post with 10B and 11B
LOM009D	Middle Lookout stream cross-section 9D - established 2011 as replacement of cross-section 9C
LOM010D	Middle Lookout stream cross-section 10D - established 2011 as replacement of cross-section 10C
COC002A	Cold Creek stream cross-section 2A - established 2011 as a replacement of cross-section 2 - X-post is reset due to tree fall

Enumerated Domain for Attribute: DBCODE

GS002	FSDB Database Code GS002
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Enumerated Domain for Attribute: XSEC\_CODE

COC001	Cold Creek stream cross-section 1 - established 1980 as furthest downstream COC cross-section
COC002	Cold Creek stream cross-section 2 - established 1980
COC003	Cold Creek stream cross-section 3 - established 1980
COC004	Cold Creek stream cross-section 4 - established 1980
COC005	Cold Creek stream cross-section 5 - established 1980
COC006	Cold Creek stream cross-section 6 - established 1980 and measured through 1995 - z-post position is compromised
COC006A	Cold Creek stream cross-section 6A - established in 1996 and replaces cross-section 6
COC007	Cold Creek stream cross-section 7 - established 1980
COC008	Cold Creek stream cross-section 8 - established 1980
COC009	Cold Creek stream cross-section 9 - established 1980
COC010	Cold Creek stream cross-section 10 - established 1980
COC011	Cold Creek stream cross-section 11 - established 1980
COC012	Cold Creek stream cross-section 12 - established 1980
COC013	Cold Creek stream cross-section 13 - established 1980
COC014	Cold Creek stream cross-section 14 - established 1980
COC015	Cold Creek stream cross-section 15 - established 1980
COC016	Cold Creek stream cross-section 16 - established 1980
COC017	Cold Creek stream cross-section 17 - established 1980 as furthest upstream COC cross-section

HAN001 Hagan Block North stream cross-section 1 - established 1981 and used through 1987 - furthest downstream cross-section above S.Fork confluence

HAN002 Hagan Block North stream cross-section 2 - established 1981 and used through 1987

HAN003 Hagan Block North stream cross-section 3 - established 1981 and used through 1987

HAN004 Hagan Block North stream cross-section 4 - established 1981 and used through 1987

HAN005 Hagan Block North stream cross-section 5 - established 1981 and used through 1985

HAN006 Hagan Block North stream cross-section 6 - established 1981 and used through 1987

HAN007 Hagan Block North stream cross-section 7 - established 1981 and used through 1987

HAN008 Hagan Block North stream cross-section 8 - established 1981 and used through 1987

HAN009 Hagan Block North stream cross-section 9 - established 1981 and used through 1987

HAN010 Hagan Block North stream cross-section 10 - established 1981 and used through 1987

HAN011 Hagan Block North stream cross-section 11 - established 1981 and used through 1987

HAN012 Hagan Block North stream cross-section 12 - established 1981 and used through 1987

HAN013 Hagan Block North stream cross-section 13 - established 1981 and used through 1987

HAN014 Hagan Block North stream cross-section 14 - established 1981 and used through 1987

HAN015 Hagan Block North stream cross-section 15 - established 1981 and used through 1987

HAN016 Hagan Block North stream cross-section 16 - established 1981 and used through 1987

HAN017 Hagan Block North stream cross-section 17 - established 1981 and used through 1987

HAN018 Hagan Block North stream cross-section 18 - established 1981 and used through 1987

HAN019 Hagan Block North stream cross-section 19 - established 1981 and used through 1987

HAN020 Hagan Block North stream cross-section 20 - established 1981 and used through 1987 - furthest upstream cross-section

HAS001 Hagan Block South stream cross-section 1 - established 1981 and used through 1986 - downstream of cross-sections 2-21 and 911-918, upstream of 105-110 and 906-909

HAS002 Hagan Block South stream cross-section 2 - established 1981 and used through 1986

HAS003 Hagan Block South stream cross-section 3 - established 1981 and used through 1986

HAS004 Hagan Block South stream cross-section 4 - established 1981 and used through 1986

HAS005 Hagan Block South stream cross-section 5 - established 1981 and used through 1986

HAS006 Hagan Block South stream cross-section 6 - established 1981 and used through 1986

HAS007 Hagan Block South stream cross-section 7 - established 1981 and used through 1986

HAS008 Hagan Block South stream cross-section 8 - established 1981 and used through 1986

HAS009 Hagan Block South stream cross-section 9 - established 1981 and used through 1986

HAS010 Hagan Block South stream cross-section 10 - established 1981 and used through 1986

HAS011 Hagan Block South stream cross-section 11 - established 1981 and used through 1986

HAS012 Hagan Block South stream cross-section 12 - established 1981 and used through 1986

HAS013 Hagan Block South stream cross-section 13 - established 1981 and used through 1986

HAS014 Hagan Block South stream cross-section 14 - established 1981 and used through 1986

HAS015 Hagan Block South stream cross-section 15 - established 1981 and used through 1986 (15A used in 1984)

HAS015A Hagan Block South stream cross-section 15A - 1984 only - must have surveyed to wrong posts. The survey is 560 cm too long and the profile does not look like the previous or post surveys

HAS016 Hagan Block South stream cross-section 16 - established 1981 and used through 1986

HAS017 Hagan Block South stream cross-section 17 - established 1981 and used through 1986

HAS018 Hagan Block South stream cross-section 18 - established 1981 and used through 1986

HAS019 Hagan Block South stream cross-section 19 - established 1981 and used through 1986

HAS020 Hagan Block South stream cross-section 20 - established 1982 and used through 1986

HAS021 Hagan Block South stream cross-section 21 - established 1982 and used through 1986

HAS022 Hagan Block South stream cross-section 22 - established 1982 and used through 1986

HAS105 Hagan Block South stream cross-section 105 - established 1982 and used through 1986 - furthest downstream cross-section above N.Fork confluence

HAS106 Hagan Block South stream cross-section 106 - established 1982 and used through 1986

HAS107 Hagan Block South stream cross-section 107- established 1982 and used through 1986 (107A used in 1984)

HAS107A Hagan Block South stream cross-section 107A - 1984 only replacement for cross-section 107

HAS108 Hagan Block South stream cross-section 108- established 1982 and used through 1986

HAS109 Hagan Block South stream cross-section 109 - established 1982 and used through 1986

HAS110 Hagan Block South stream cross-section 110 - established 1982 and used through 1986

HAS906 Hagan Block South stream cross-section 906 - established 1982 and used through 1986 - between 106 and 107

HAS907 Hagan Block South stream cross-section 907 - established 1982 and used through 1986 - between 107 and 108

HAS908 Hagan Block South stream cross-section 908 - established 1982 and used through 1986 - between 108 and 109

HAS909 Hagan Block South stream cross-section 909 - established 1982 and used through 1986 - between 109 and 110

HAS911 Hagan Block South stream cross-section 911 - established 1982 and used through 1986 - between 011 and 012

HAS912 Hagan Block South stream cross-section 912 - established 1982 and used through 1986 - between 012 and 013

HAS913 Hagan Block South stream cross-section 913 - established 1982 and used through 1986 - between 013 and 014

HAS914 Hagan Block South stream cross-section 914 - established 1982 and used through 1986 - between 014 and 015

HAS916 Hagan Block South stream cross-section 916 - established 1982 and used through 1986 - between 016 and 017

HAS917 Hagan Block South stream cross-section 917 - established 1982 and used through 1986 - between 017 and 018

HAS918 Hagan Block South stream cross-section 918 - established 1982 and used through 1986 - between 018 and 019

LOL001 Lower Lookout stream cross-section 1 - established 1978 as furthest downstream LOL cross-section

LOL002 Lower Lookout stream cross-section 2 - established 1978 and used through 1999 - z-post lost to bank erosion

LOL002A Lower Lookout stream cross-section 2A - established 2000 and used through 2005 as replacement of cross-section 2 - z-post washed out by high flows

LOL002B Lower Lookout stream cross-section 2B - established in 2006 as replacement of cross-section 2A

LOL003 Lower Lookout stream cross-section 3 - established 1978 and used through 1995 - z-post lost

LOL003A Lower Lookout stream cross-section 3A - established 1996 and used through 1998 as replacement of cross-section 3 - bank erosion compromises z-post  
 LOL003B Lower Lookout stream cross-section 3B - established 1999 as replacement of cross-section 3A - x-post lost to falling trees  
 LOL003C Lower Lookout stream cross-section 3C - re-established 2006 and surveyed to recreate x-post placement of cross-section 3B  
 LOL004 Lower Lookout stream cross-section 4 - established 1978 and used through 1995 - x-post lost  
 LOL004A Lower Lookout stream cross-section 4A - established 1996 as replacement of cross-section 4  
 LOL005 Lower Lookout stream cross-section 5 - established 1978  
 LOL006 Lower Lookout stream cross-section 6 - established 1978 and used through 1995 - x-post lost in flood  
 LOL006A Lower Lookout stream cross-section 6A - established 1996 as replacement of cross-section 6 based on original z to x bearing  
 LOL007 Lower Lookout stream cross-section 7 - established 1978  
 LOL008 Lower Lookout stream cross-section 8 - established 1978  
 LOL009 Lower Lookout stream cross-section 9 - established 1978 and used through 1999 - x-post lost to tree windthrow  
 LOL009A Lower Lookout stream cross-section 9A - established 2000 as replacement of cross-section 9 - new distance and bearing but compares well with cross-section 9  
 LOL010 Lower Lookout stream cross-section 10 - established 1978 and used through 1995 - z-post washed out by high flows  
 LOL010A Lower Lookout stream cross-section 10A - established 1996 as replacement of cross-section 10  
 LOL011 Lower Lookout stream cross-section 11 - established 1978 and used through 1995 - z-post washed out by high flows  
 LOL011A Lower Lookout stream cross-section 11A - established 1996 as replacement of cross-section 11  
 LOL012 Lower Lookout stream cross-section 12 - established 1978  
 LOL013 Lower Lookout stream cross-section 13 - established 1978 and used through 2000 - earth slump changed position of post  
 LOL013A Lower Lookout stream cross-section 13A - re-established in 2002 as a comparable replacement of cross-section 13  
 LOL014 Lower Lookout stream cross-section 14 - established 1978 and used through 1999 - bank erosion compromises z-post  
 LOL014A Lower Lookout stream cross-section 14A - established 2000 as replacement of cross-section 14 - furthest upstream LOL cross-section  
 LOL019 Lower Lookout stream cross-section 19 - established 2004 between post 9Z and post 10X to capture changing gravel bar deposition from the 1996 flood  
 LOM001 Middle Lookout stream cross-section 1 - established 1978 as furthest upstream LOM cross-section  
 LOM002 Middle Lookout stream cross-section 2 - established 1978 and used through 1995 - z-post washed out by high flows  
 LOM002A Middle Lookout stream cross-section 2A - established 1996 and used through 2000 as replacement of cross-section 2 - x-post compromised to bank erosion  
 LOM002B Middle Lookout stream cross-section 2B- established 2002 as comparable replacement of cross-section 2A  
 LOM003 Middle Lookout stream cross-section 3 - established 1978  
 LOM004 Middle Lookout stream cross-section 4 - established 1978  
 LOM005 Middle Lookout stream cross-section 5 - established 1978 and used through 1995 - x-post washed out by high flows  
 LOM005A Middle Lookout stream cross-section 5A - established 1996 as replacement of cross-section 5  
 LOM006 Middle Lookout stream cross-section 6 - established 1978 and used through 1995 - x or z-post washed out by high flows  
 LOM006A Middle Lookout stream cross-section 6A - established 1996 as replacement of cross-section 6  
 LOM007 Middle Lookout stream cross-section 7 - established 1978 and used through 1995 - z-post washed out by high flows

LOM007A Middle Lookout stream cross-section 7A - established 1996 as replacement of cross-section 7  
 LOM008 Middle Lookout stream cross-section 8 - established 1978 and used through 1995 - x or z-post washed out by high flows  
 LOM008A Middle Lookout stream cross-section 8A - established 1996 as replacement of cross-section 8  
 LOM009 Middle Lookout stream cross-section 9 - established 1978 and used through 1985 - alignment of cross-section changes for unknown reason  
 LOM009A Middle Lookout stream cross-section 9A - established 1986 and used through 1995 as replacement of cross-section 9 - x-post lost to bank erosion  
 LOM009B Middle Lookout stream cross-section 9B - established 1996 and used through 2005 as replacement of cross-section 9A - x-post lost during high flows  
 LOM009C Middle Lookout stream cross-section 9C - established 2006 as replacement of cross-section 9B  
 LOM010 Middle Lookout stream cross-section 10 - established 1978 and used through 1995 - x-post washed out by high flows  
 LOM010A Middle Lookout stream cross-section 10A - established 1996 and used through 1999 as replacement of cross-section 10 - x-post lost to bank erosion  
 LOM010B Middle Lookout stream cross-section 10B - established 2000 and used through 2005 as replacement of cross-section 10A with both end points changed - x-post lost to bank erosion  
 LOM010C Middle Lookout stream cross-section 10C - established 2006 as replacement of cross-section 10B  
 LOM011 Middle Lookout stream cross-section 11 - established 1978 as furthest downstream LOM cross-section  
 MAC001 Mack old-growth stream cross-section 1 - established 1978 as furthest downstream MAC cross-section  
 MAC002 Mack old-growth stream cross-section 2 - established 1978  
 MAC003 Mack old-growth stream cross-section 3 - established 1978  
 MAC004 Mack old-growth stream cross-section 4 - established 1978  
 MAC005 Mack old-growth stream cross-section 5 - established 1978  
 MAC006 Mack old-growth stream cross-section 6 - established 1978  
 MAC007 Mack old-growth stream cross-section 7 - established 1978  
 MAC008 Mack old-growth stream cross-section 8 - established 1978  
 MAC009 Mack old-growth stream cross-section 9 - established 1978  
 MAC010 Mack old-growth stream cross-section 10 - established 1978  
 MAC011 Mack old-growth stream cross-section 11 - established 1978  
 MAC012 Mack old-growth stream cross-section 12 - established 1978 as furthest upstream MAC cross-section  
 MCC101 Mack clearcut stream cross-section 101 - established 1981 as furthest upstream MCC cross-section and below gauging station  
 MCC102 Mack clearcut stream cross-section 102 - established 1981  
 MCC103 Mack clearcut stream cross-section 103 - established 1981  
 MCC104 Mack clearcut stream cross-section 104 - established 1981  
 MCC105 Mack clearcut stream cross-section 105 - established 1981  
 MCC106 Mack clearcut stream cross-section 106 - established 1981  
 MCC107 Mack clearcut stream cross-section 107 - established 1981  
 MCC108 Mack clearcut stream cross-section 108 - established 1981  
 MCC109 Mack clearcut stream cross-section 109 - established 1981 and used through 2000 - repositioned to avoid tree affecting survey

MCC109A	Mack clearcut stream cross-section 109A - established in 2000 as replacement for cross-section 109 - x-post moved 1.15 m downstream
MCC110	Mack clearcut stream cross-section 110 - established 1981
MCC111	Mack clearcut stream cross-section 111 - established 1981
MCC112	Mack clearcut stream cross-section 112 - established 1981 but only used 1982 and 1984
MCC112A	Mack clearcut stream cross-section 112A - established in 1981 as cross-section 112, but use 112 in 1982 and 1984
MCC113	Mack clearcut stream cross-section 113 - established 1981
MCC114	Mack clearcut stream cross-section 114 - established 1981
MCC115	Mack clearcut stream cross-section 115 - established 1981
MCC116	Mack clearcut stream cross-section 116 - established 1981
MCC117	Mack clearcut stream cross-section 117 - established 1981 and used through 1982
MCC117A	Mack clearcut stream cross-section 117A - established in 1984 as replacement for cross-section 117
MCC118	Mack clearcut stream cross-section 118 - established 1981 and used through 2000 - repositioned
MCC118A	Mack clearcut stream cross-section 118A - established in 2000 as replacement for cross-section 118
MCC119	Mack clearcut stream cross-section 119 - established 1981
MCC120	Mack clearcut stream cross-section 120 - established 1981 as furthest downstream MCC cross-section
SHR000	Shorter stream cross-section 000 - established 1978 and used through 1982 as furthest downstream Shorter cross-section
SHR004	Shorter stream cross-section 004 - established 1978 and used through 1982
SHR008	Shorter stream cross-section 008 - established 1978 and used through 1982
SHR012	Shorter stream cross-section 012 - established 1978 and used through 1982
SHR016	Shorter stream cross-section 016 - established 1978 and used through 1982
SHR020	Shorter stream cross-section 020 - established 1978 and used through 1982
SHR024	Shorter stream cross-section 024 - established 1978 and used through 1982
SHR028	Shorter stream cross-section 028 - established 1978 and used through 1982
SHR032	Shorter stream cross-section 032 - established 1978 and used through 1982
SHR036	Shorter stream cross-section 036 - established 1978 and used through 1982
SHR040	Shorter stream cross-section 040 - established 1978 and used through 1982
SHR044	Shorter stream cross-section 044 - established 1978 and used through 1982
SHR100	Shorter stream cross-section 100 - established 1978 and used through 1982
SHR100P	Shorter stream cross-section 100P - second measurement of cross-section 100 in 1978
SHR100Q	Shorter stream cross-section 100Q - third measurement of cross-section 100 in 1978
SHR102	Shorter stream cross-section 102 - established 1978 and used through 1982
SHR102P	Shorter stream cross-section 102P - second measurement of cross-section 102 in 1978
SHR102Q	Shorter stream cross-section 102Q - third measurement of cross-section 102 in 1978
SHR104	Shorter stream cross-section 104 - established 1978 and used through 1982



SHR104P	Shorter stream cross-section 104P - second measurement of cross-section 104 in 1978
SHR104Q	Shorter stream cross-section 104Q - third measurement of cross-section 104 in 1978
SHR106	Shorter stream cross-section 106 - established 1978 and used through 1982
SHR106P	Shorter stream cross-section 106P - second measurement of cross-section 106 in 1978
SHR106Q	Shorter stream cross-section 106Q - third measurement of cross-section 106 in 1978
SHR108	Shorter stream cross-section 108 - established 1978 and used through 1982
SHR108P	Shorter stream cross-section 108P - second measurement of cross-section 108 in 1978
SHR108Q	Shorter stream cross-section 108Q - third measurement of cross-section 108 in 1978
SHR110	Shorter stream cross-section 110 - established 1978 and used through 1982
SHR110P	Shorter stream cross-section 110P - second measurement of cross-section 110 in 1978
SHR110Q	Shorter stream cross-section 110Q - third measurement of cross-section 110 in 1978
SHR112	Shorter stream cross-section 112 - established 1978 and used through 1982
SHR112P	Shorter stream cross-section 112P - second measurement of cross-section 112 in 1978
SHR112Q	Shorter stream cross-section 112Q - third measurement of cross-section 112 in 1978
SHR114	Shorter stream cross-section 114 - established 1978 and used through 1982
SHR114P	Shorter stream cross-section 114P - second measurement of cross-section 114 in 1978
SHR114Q	Shorter stream cross-section 114Q - third measurement of cross-section 114 in 1978
SHR116	Shorter stream cross-section 116 - established 1978 and used through 1982
SHR116P	Shorter stream cross-section 116P - second measurement of cross-section 116 in 1978
SHR116Q	Shorter stream cross-section 116Q - third measurement of cross-section 116 in 1978
SHR118	Shorter stream cross-section 118 - established 1978 and used through 1982
SHR118P	Shorter stream cross-section 118P - second measurement of cross-section 118 in 1978
SHR118Q	Shorter stream cross-section 118Q - third measurement of cross-section 118 in 1978
SHR120	Shorter stream cross-section 120 - established 1978 and used through 1982
SHR120P	Shorter stream cross-section 120P - second measurement of cross-section 120 in 1978
SHR120Q	Shorter stream cross-section 120Q - third measurement of cross-section 120 in 1978
SHR122	Shorter stream cross-section 122 - established 1978 and used through 1982
SHR122P	Shorter stream cross-section 122P - second measurement of cross-section 122 in 1978
SHR122Q	Shorter stream cross-section 122Q - third measurement of cross-section 122 in 1978
SHR124	Shorter stream cross-section 124 - established 1978 and used through 1982
SHR124P	Shorter stream cross-section 124P - second measurement of cross-section 124 in 1978
SHR126	Shorter stream cross-section 126 - established 1978 and used through 1981
SHR126A	Shorter stream cross-section 126A - established 1982 as replacement of cross-section 126
SHR126P	Shorter stream cross-section 126P - second measurement of cross-section 126

in 1978

SHR128	Shorter stream cross-section 128 - established 1978 and used through 1982
SHR130	Shorter stream cross-section 130 - established 1978 and used through 1982
SHR130P	Shorter stream cross-section 130P - second measurement of cross-section 130 in 1978
SHR132	Shorter stream cross-section 132 - established 1978 and used through 1982
SHR132P	Shorter stream cross-section 132P - second measurement of cross-section 132 in 1978
SHR134	Shorter stream cross-section 134 - established 1978 and used through 1982
SHR134P	Shorter stream cross-section 134P - second measurement of cross-section 134 in 1978
SHR136	Shorter stream cross-section 136 - established 1978 and used through 1982
SHR136P	Shorter stream cross-section 136P - second measurement of cross-section 136 in 1978
SHR138	Shorter stream cross-section 138 - established 1978 and used through 1982
SHR138P	Shorter stream cross-section 138P - second measurement of cross-section 138 in 1978
SHR140	Shorter stream cross-section 140 - established 1978 and used through 1982
SHR140P	Shorter stream cross-section 140P - second measurement of cross-section 140 in 1978
SHR142	Shorter stream cross-section 142 - established 1978 and used through 1982
SHR142P	Shorter stream cross-section 142P - second measurement of cross-section 142 in 1978
SHR144	Shorter stream cross-section 144 - established 1978 and used through 1982
SHR200	Shorter stream cross-section 200 - established 1978 and used through 1982
SHR202	Shorter stream cross-section 202 - established 1978 and used through 1982
SHR203	Shorter stream cross-section 203 - established 1978 and used through 1982
SHR206	Shorter stream cross-section 206 - established 1978 and used through 1982
SHR209	Shorter stream cross-section 209 - established 1978 and used through 1982
SHR211	Shorter stream cross-section 211 - established 1978 and used through 1982
SHR212	Shorter stream cross-section 212 - established 1978 and used through 1982
SHR215	Shorter stream cross-section 215 - established 1978 and used through 1982
SHR216	Shorter stream cross-section 216 - established 1978 and used through 1982
SHR219	Shorter stream cross-section 219 - established 1978 and used through 1982
SHR221	Shorter stream cross-section 221 - established 1978 and used through 1982
SHR222	Shorter stream cross-section 222 - established 1978 and used through 1982
SHR224	Shorter stream cross-section 224 - established 1978 and used through 1982
SHR226	Shorter stream cross-section 226 - established 1978 and used through 1982
SHR229	Shorter stream cross-section 229 - established 1978 and used through 1982
SHR231	Shorter stream cross-section 231 - established 1978 and used through 1982
SHR233	Shorter stream cross-section 233 - established 1978 and used through 1982

SHR236	Shorter stream cross-section 236 - established 1978 and used through 1982
SHR240	Shorter stream cross-section 240 - established 1978 and used through 1982
SHR244	Shorter stream cross-section 244 - established for 1982 only
SHR246	Shorter stream cross-section 246 - established 1978 and used through 1980
SHR250	Shorter stream cross-section 250 - established 1978 and used through 1982
SHR306	Shorter stream cross-section 306 - established 1978 and used through 1982
SHR313	Shorter stream cross-section 313 - established 1978 and used through 1982
SHR318	Shorter stream cross-section 318 - established 1978 and used through 1982
SHR321	Shorter stream cross-section 321 - established 1978 and used through 1982
SHR327	Shorter stream cross-section 327 - established 1978 and used through 1982
SHR330	Shorter stream cross-section 330 - established 1978 and used through 1982
SHR338	Shorter stream cross-section 338 - established 1978 and used through 1982
SHR340	Shorter stream cross-section 340 - established 1978 and used through 1982
SHR348	Shorter stream cross-section 348 - established 1978 and used through 1982
SHR354	Shorter stream cross-section 354 - established 1978 and used through 1982
LOL010B	Lower Lookout stream cross-section 10B - established 2009 as replacement of 10A - now shares x-post with 11B and 19A
LOL011B	Lower Lookout stream cross-section 11B - established 2009 as replacement of 11A and now shares x-post with 10B and 19A
LOL019A	Lower Lookout stream cross-section 19A - established in 2009 as replacement of 19 and now shares x-post with 10B and 11B
LOL010C	Lower Lookout stream cross-section 10C - established 2011 as replacement of 10B - no longer shares x-post with 11B and 19A
LOL011C	Lower Lookout stream cross-section 11C - established 2011 as replacement of 11B - no longer shares x-post with 10B and 19A
LOL019B	Lower Lookout stream cross-section 19B - established in 2011 as replacement of 19A - no longer shares x-post with 10B and 11B
LOM009D	Middle Lookout stream cross-section 9D - established 2011 as replacement of cross-section 9C
LOM010D	Middle Lookout stream cross-section 10D - established 2011 as replacement of cross-section 10C
COC002A	Cold Creek stream cross-section 2A - established 2011 as a replacement of cross-section 2 - X-post is reset due to tree fall

Enumerated Domain for Attribute: DBCODE

GS002	FSDB Database Code GS002
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Enumerated Domain for Attribute: XSEC\_CODE

COC001	Cold Creek stream cross-section 1 - established 1980 as furthest downstream COC cross-section
COC002	Cold Creek stream cross-section 2 - established 1980
COC003	Cold Creek stream cross-section 3 - established 1980
COC004	Cold Creek stream cross-section 4 - established 1980
COC005	Cold Creek stream cross-section 5 - established 1980
COC006	Cold Creek stream cross-section 6 - established 1980 and measured through 1995 - z-post position is compromised
COC006A	Cold Creek stream cross-section 6A - established in 1996 and replaces cross-section 6

COC007	Cold Creek stream cross-section 7 - established 1980
COC008	Cold Creek stream cross-section 8 - established 1980
COC009	Cold Creek stream cross-section 9 - established 1980
COC010	Cold Creek stream cross-section 10 - established 1980
COC011	Cold Creek stream cross-section 11 - established 1980
COC012	Cold Creek stream cross-section 12 - established 1980
COC013	Cold Creek stream cross-section 13 - established 1980
COC014	Cold Creek stream cross-section 14 - established 1980
COC015	Cold Creek stream cross-section 15 - established 1980
COC016	Cold Creek stream cross-section 16 - established 1980
COC017	Cold Creek stream cross-section 17 - established 1980 as furthest upstream COC cross-section
HAN001	Hagan Block North stream cross-section 1 - established 1981 and used through 1987 - furthest downstream cross-section above S.Fork confluence
HAN002	Hagan Block North stream cross-section 2 - established 1981 and used through 1987
HAN003	Hagan Block North stream cross-section 3 - established 1981 and used through 1987
HAN004	Hagan Block North stream cross-section 4 - established 1981 and used through 1987
HAN005	Hagan Block North stream cross-section 5 - established 1981 and used through 1985
HAN006	Hagan Block North stream cross-section 6 - established 1981 and used through 1987
HAN007	Hagan Block North stream cross-section 7 - established 1981 and used through 1987
HAN008	Hagan Block North stream cross-section 8 - established 1981 and used through 1987
HAN009	Hagan Block North stream cross-section 9 - established 1981 and used through 1987
HAN010	Hagan Block North stream cross-section 10 - established 1981 and used through 1987
HAN011	Hagan Block North stream cross-section 11 - established 1981 and used through 1987
HAN012	Hagan Block North stream cross-section 12 - established 1981 and used through 1987
HAN013	Hagan Block North stream cross-section 13 - established 1981 and used through 1987
HAN014	Hagan Block North stream cross-section 14 - established 1981 and used through 1987
HAN015	Hagan Block North stream cross-section 15 - established 1981 and used through 1987
HAN016	Hagan Block North stream cross-section 16 - established 1981 and used through 1987
HAN017	Hagan Block North stream cross-section 17 - established 1981 and used through 1987
HAN018	Hagan Block North stream cross-section 18 - established 1981 and used through 1987
HAN019	Hagan Block North stream cross-section 19 - established 1981 and used through 1987
HAN020	Hagan Block North stream cross-section 20 - established 1981 and used through 1987 - furthest upstream cross-section
HAS001	Hagan Block South stream cross-section 1 - established 1981 and used through 1986 - downstream of cross-sections 2-21 and 911-918, upstream of 105-110 and 906-909
HAS002	Hagan Block South stream cross-section 2 - established 1981 and used through 1986

HAS003 Hagan Block South stream cross-section 3 - established 1981 and used through 1986

HAS004 Hagan Block South stream cross-section 4 - established 1981 and used through 1986

HAS005 Hagan Block South stream cross-section 5 - established 1981 and used through 1986

HAS006 Hagan Block South stream cross-section 6 - established 1981 and used through 1986

HAS007 Hagan Block South stream cross-section 7 - established 1981 and used through 1986

HAS008 Hagan Block South stream cross-section 8 - established 1981 and used through 1986

HAS009 Hagan Block South stream cross-section 9 - established 1981 and used through 1986

HAS010 Hagan Block South stream cross-section 10 - established 1981 and used through 1986

HAS011 Hagan Block South stream cross-section 11 - established 1981 and used through 1986

HAS012 Hagan Block South stream cross-section 12 - established 1981 and used through 1986

HAS013 Hagan Block South stream cross-section 13 - established 1981 and used through 1986

HAS014 Hagan Block South stream cross-section 14 - established 1981 and used through 1986

HAS015 Hagan Block South stream cross-section 15 - established 1981 and used through 1986 (15A used in 1984)

HAS015A Hagan Block South stream cross-section 15A - 1984 only - must have surveyed to wrong posts. The survey is 560 cm too long and the profile does not look like the previous or post surveys

HAS016 Hagan Block South stream cross-section 16 - established 1981 and used through 1986

HAS017 Hagan Block South stream cross-section 17 - established 1981 and used through 1986

HAS018 Hagan Block South stream cross-section 18 - established 1981 and used through 1986

HAS019 Hagan Block South stream cross-section 19 - established 1981 and used through 1986

HAS020 Hagan Block South stream cross-section 20 - established 1982 and used through 1986

HAS021 Hagan Block South stream cross-section 21 - established 1982 and used through 1986

HAS022 Hagan Block South stream cross-section 22 - established 1982 and used through 1986

HAS105 Hagan Block South stream cross-section 105 - established 1982 and used through 1986 - furthest downstream cross-section above N.Fork confluence

HAS106 Hagan Block South stream cross-section 106 - established 1982 and used through 1986

HAS107 Hagan Block South stream cross-section 107- established 1982 and used through 1986 (107A used in 1984)

HAS107A Hagan Block South stream cross-section 107A - 1984 only replacement for cross-section 107

HAS108 Hagan Block South stream cross-section 108- established 1982 and used through 1986

HAS109 Hagan Block South stream cross-section 109 - established 1982 and used through 1986

HAS110 Hagan Block South stream cross-section 110 - established 1982 and used through 1986

HAS906 Hagan Block South stream cross-section 906 - established 1982 and used through 1986 - between 106 and 107

HAS907 Hagan Block South stream cross-section 907 - established 1982 and used through 1986 - between 107 and 108

HAS908 Hagan Block South stream cross-section 908 - established 1982 and used through 1986 - between 108 and 109

HAS909 Hagan Block South stream cross-section 909 - established 1982 and used through 1986 - between 109 and 110

HAS911 Hagan Block South stream cross-section 911 - established 1982 and used through 1986 - between 011 and 012

HAS912 Hagan Block South stream cross-section 912 - established 1982 and used through 1986 - between 012 and 013

HAS913 Hagan Block South stream cross-section 913 - established 1982 and used through 1986 - between 013 and 014

HAS914 Hagan Block South stream cross-section 914 - established 1982 and used through 1986 - between 014 and 015

HAS916 Hagan Block South stream cross-section 916 - established 1982 and used through 1986 - between 016 and 017

HAS917 Hagan Block South stream cross-section 917 - established 1982 and used through 1986 - between 017 and 018

HAS918 Hagan Block South stream cross-section 918 - established 1982 and used through 1986 - between 018 and 019

LOL001 Lower Lookout stream cross-section 1 - established 1978 as furthest downstream LOL cross-section

LOL002 Lower Lookout stream cross-section 2 - established 1978 and used through 1999 - z-post lost to bank erosion

LOL002A Lower Lookout stream cross-section 2A - established 2000 and used through 2005 as replacement of cross-section 2 - z-post washed out by high flows

LOL002B Lower Lookout stream cross-section 2B - established in 2006 as replacement of cross-section 2A

LOL003 Lower Lookout stream cross-section 3 - established 1978 and used through 1995 - z-post lost

LOL003A Lower Lookout stream cross-section 3A - established 1996 and used through 1998 as replacement of cross-section 3 - bank erosion compromises z-post

LOL003B Lower Lookout stream cross-section 3B - established 1999 as replacement of cross-section 3A - x-post lost to falling trees

LOL003C Lower Lookout stream cross-section 3C - re-established 2006 and surveyed to recreate x-post placement of cross-section 3B

LOL004 Lower Lookout stream cross-section 4 - established 1978 and used through 1995 - x-post lost

LOL004A Lower Lookout stream cross-section 4A - established 1996 as replacement of cross-section 4

LOL005 Lower Lookout stream cross-section 5 - established 1978

LOL006 Lower Lookout stream cross-section 6 - established 1978 and used through 1995 - x-post lost in flood

LOL006A Lower Lookout stream cross-section 6A - established 1996 as replacement of cross-section 6 based on original z to x bearing

LOL007 Lower Lookout stream cross-section 7 - established 1978

LOL008 Lower Lookout stream cross-section 8 - established 1978

LOL009 Lower Lookout stream cross-section 9 - established 1978 and used through 1999 - x-post lost to tree windthrow

LOL009A Lower Lookout stream cross-section 9A - established 2000 as replacement of cross-section 9 - new distance and bearing but compares well with cross-section 9

LOL010 Lower Lookout stream cross-section 10 - established 1978 and used through 1995 - z-post washed out by high flows

LOL010A Lower Lookout stream cross-section 10A - established 1996 as replacement of cross-section 10

LOL011 Lower Lookout stream cross-section 11 - established 1978 and used through 1995 - z-post washed out by high flows

LOL011A Lower Lookout stream cross-section 11A - established 1996 as replacement of cross-section 11

LOL012 Lower Lookout stream cross-section 12 - established 1978

LOL013 Lower Lookout stream cross-section 13 - established 1978 and used through 2000 - earth slump changed position of post

LOL013A Lower Lookout stream cross-section 13A - re-established in 2002 as a comparable replacement of cross-section 13

LOL014 Lower Lookout stream cross-section 14 - established 1978 and used through 1999 - bank erosion compromises z-post

LOL014A Lower Lookout stream cross-section 14A - established 2000 as replacement of cross-section 14 - furthest upstream LOL cross-section

LOL019 Lower Lookout stream cross-section 19 - established 2004 between post 9Z and post 10X to capture changing gravel bar deposition from the 1996 flood

LOM001	Middle Lookout stream cross-section 1 - established 1978 as furthest upstream LOM cross-section
LOM002	Middle Lookout stream cross-section 2 - established 1978 and used through 1995 - z-post washed out by high flows
LOM002A	Middle Lookout stream cross-section 2A - established 1996 and used through 2000 as replacement of cross-section 2 - x-post compromised to bank erosion
LOM002B	Middle Lookout stream cross-section 2B- established 2002 as comparable replacement of cross-section 2A
LOM003	Middle Lookout stream cross-section 3 - established 1978
LOM004	Middle Lookout stream cross-section 4 - established 1978
LOM005	Middle Lookout stream cross-section 5 - established 1978 and used through 1995 - x-post washed out by high flows
LOM005A	Middle Lookout stream cross-section 5A - established 1996 as replacement of cross-section 5
LOM006	Middle Lookout stream cross-section 6 - established 1978 and used through 1995 - x or z-post washed out by high flows
LOM006A	Middle Lookout stream cross-section 6A - established 1996 as replacement of cross-section 6
LOM007	Middle Lookout stream cross-section 7 - established 1978 and used through 1995 - z-post washed out by high flows
LOM007A	Middle Lookout stream cross-section 7A - established 1996 as replacement of cross-section 7
LOM008	Middle Lookout stream cross-section 8 - established 1978 and used through 1995 - x or z-post washed out by high flows
LOM008A	Middle Lookout stream cross-section 8A - established 1996 as replacement of cross-section 8
LOM009	Middle Lookout stream cross-section 9 - established 1978 and used through 1985 - alignment of cross-section changes for unknown reason
LOM009A	Middle Lookout stream cross-section 9A - established 1986 and used through 1995 as replacement of cross-section 9 - x-post lost to bank erosion
LOM009B	Middle Lookout stream cross-section 9B - established 1996 and used through 2005 as replacement of cross-section 9A - x-post lost during high flows
LOM009C	Middle Lookout stream cross-section 9C - established 2006 as replacement of cross-section 9B
LOM010	Middle Lookout stream cross-section 10 - established 1978 and used through 1995 - x-post washed out by high flows
LOM010A	Middle Lookout stream cross-section 10A - established 1996 and used through 1999 as replacement of cross-section 10 - x-post lost to bank erosion
LOM010B	Middle Lookout stream cross-section 10B - established 2000 and used through 2005 as replacement of cross-section 10A with both end points changed - x-post lost to bank erosion
LOM010C	Middle Lookout stream cross-section 10C - established 2006 as replacement of cross-section 10B
LOM011	Middle Lookout stream cross-section 11- established 1978 as furthest downstream LOM cross-section
MAC001	Mack old-growth stream cross-section 1- established 1978 as furthest downstream MAC cross-section
MAC002	Mack old-growth stream cross-section 2- established 1978
MAC003	Mack old-growth stream cross-section 3 - established 1978
MAC004	Mack old-growth stream cross-section 4 - established 1978
MAC005	Mack old-growth stream cross-section 5 - established 1978
MAC006	Mack old-growth stream cross-section 6 - established 1978
MAC007	Mack old-growth stream cross-section 7 - established 1978
MAC008	Mack old-growth stream cross-section 8 - established 1978
MAC009	Mack old-growth stream cross-section 9 - established 1978
MAC010	Mack old-growth stream cross-section 10 - established 1978

MAC011	Mack old-growth stream cross-section 11 - established 1978
MAC012	Mack old-growth stream cross-section 12 - established 1978 as furthest upstream MAC cross-section
MCC101	Mack clearcut stream cross-section 101 - established 1981 as furthest upstream MCC cross-section and below gauging station
MCC102	Mack clearcut stream cross-section 102 - established 1981
MCC103	Mack clearcut stream cross-section 103 - established 1981
MCC104	Mack clearcut stream cross-section 104 - established 1981
MCC105	Mack clearcut stream cross-section 105 - established 1981
MCC106	Mack clearcut stream cross-section 106 - established 1981
MCC107	Mack clearcut stream cross-section 107 - established 1981
MCC108	Mack clearcut stream cross-section 108 - established 1981
MCC109	Mack clearcut stream cross-section 109 - established 1981 and used through 2000 - repositioned to avoid tree affecting survey
MCC109A	Mack clearcut stream cross-section 109A - established in 2000 as replacement for cross-section 109 - x-post moved 1.15 m downstream
MCC110	Mack clearcut stream cross-section 110 - established 1981
MCC111	Mack clearcut stream cross-section 111 - established 1981
MCC112	Mack clearcut stream cross-section 112 - established 1981 but only used 1982 and 1984
MCC112A	Mack clearcut stream cross-section 112A - established in 1981 as cross-section 112, but use 112 in 1982 and 1984
MCC113	Mack clearcut stream cross-section 113 - established 1981
MCC114	Mack clearcut stream cross-section 114 - established 1981
MCC115	Mack clearcut stream cross-section 115 - established 1981
MCC116	Mack clearcut stream cross-section 116 - established 1981
MCC117	Mack clearcut stream cross-section 117 - established 1981 and used through 1982
MCC117A	Mack clearcut stream cross-section 117A - established in 1984 as replacement for cross-section 117
MCC118	Mack clearcut stream cross-section 118 - established 1981 and used through 2000 - repositioned
MCC118A	Mack clearcut stream cross-section 118A - established in 2000 as replacement for cross-section 118
MCC119	Mack clearcut stream cross-section 119 - established 1981
MCC120	Mack clearcut stream cross-section 120 - established 1981 as furthest downstream MCC cross-section
SHR000	Shorter stream cross-section 000 - established 1978 and used through 1982 as furthest downstream Shorter cross-section
SHR004	Shorter stream cross-section 004 - established 1978 and used through 1982
SHR008	Shorter stream cross-section 008 - established 1978 and used through 1982
SHR012	Shorter stream cross-section 012 - established 1978 and used through 1982
SHR016	Shorter stream cross-section 016 - established 1978 and used through 1982
SHR020	Shorter stream cross-section 020 - established 1978 and used through 1982
SHR024	Shorter stream cross-section 024 - established 1978 and used through 1982
SHR028	Shorter stream cross-section 028 - established 1978 and used through 1982



SHR032	Shorter stream cross-section 032 - established 1978 and used through 1982
SHR036	Shorter stream cross-section 036 - established 1978 and used through 1982
SHR040	Shorter stream cross-section 040 - established 1978 and used through 1982
SHR044	Shorter stream cross-section 044 - established 1978 and used through 1982
SHR100	Shorter stream cross-section 100 - established 1978 and used through 1982
SHR100P	Shorter stream cross-section 100P - second measurement of cross-section 100 in 1978
SHR100Q	Shorter stream cross-section 100Q - third measurement of cross-section 100 in 1978
SHR102	Shorter stream cross-section 102 - established 1978 and used through 1982
SHR102P	Shorter stream cross-section 102P - second measurement of cross-section 102 in 1978
SHR102Q	Shorter stream cross-section 102Q - third measurement of cross-section 102 in 1978
SHR104	Shorter stream cross-section 104 - established 1978 and used through 1982
SHR104P	Shorter stream cross-section 104P - second measurement of cross-section 104 in 1978
SHR104Q	Shorter stream cross-section 104Q - third measurement of cross-section 104 in 1978
SHR106	Shorter stream cross-section 106 - established 1978 and used through 1982
SHR106P	Shorter stream cross-section 106P - second measurement of cross-section 106 in 1978
SHR106Q	Shorter stream cross-section 106Q - third measurement of cross-section 106 in 1978
SHR108	Shorter stream cross-section 108 - established 1978 and used through 1982
SHR108P	Shorter stream cross-section 108P - second measurement of cross-section 108 in 1978
SHR108Q	Shorter stream cross-section 108Q - third measurement of cross-section 108 in 1978
SHR110	Shorter stream cross-section 110 - established 1978 and used through 1982
SHR110P	Shorter stream cross-section 110P - second measurement of cross-section 110 in 1978
SHR110Q	Shorter stream cross-section 110Q - third measurement of cross-section 110 in 1978
SHR112	Shorter stream cross-section 112 - established 1978 and used through 1982
SHR112P	Shorter stream cross-section 112P - second measurement of cross-section 112 in 1978
SHR112Q	Shorter stream cross-section 112Q - third measurement of cross-section 112 in 1978
SHR114	Shorter stream cross-section 114 - established 1978 and used through 1982
SHR114P	Shorter stream cross-section 114P - second measurement of cross-section 114 in 1978
SHR114Q	Shorter stream cross-section 114Q - third measurement of cross-section 114 in 1978
SHR116	Shorter stream cross-section 116 - established 1978 and used through 1982
SHR116P	Shorter stream cross-section 116P - second measurement of cross-section 116 in 1978
SHR116Q	Shorter stream cross-section 116Q - third measurement of cross-section 116 in 1978
SHR118	Shorter stream cross-section 118 - established 1978 and used through 1982
SHR118P	Shorter stream cross-section 118P - second measurement of cross-section 118 in 1978
SHR118Q	Shorter stream cross-section 118Q - third measurement of cross-section 118 in 1978

1978

SHR120	Shorter stream cross-section 120 - established 1978 and used through 1982
SHR120P	Shorter stream cross-section 120P - second measurement of cross-section 120 in 1978
SHR120Q	Shorter stream cross-section 120Q - third measurement of cross-section 120 in 1978
SHR122	Shorter stream cross-section 122 - established 1978 and used through 1982
SHR122P	Shorter stream cross-section 122P - second measurement of cross-section 122 in 1978
SHR122Q	Shorter stream cross-section 122Q - third measurement of cross-section 122 in 1978
SHR124	Shorter stream cross-section 124 - established 1978 and used through 1982
SHR124P	Shorter stream cross-section 124P - second measurement of cross-section 124 in 1978
SHR126	Shorter stream cross-section 126 - established 1978 and used through 1981
SHR126A	Shorter stream cross-section 126A - established 1982 as replacement of cross-section 126
SHR126P	Shorter stream cross-section 126P - second measurement of cross-section 126 in 1978
SHR128	Shorter stream cross-section 128 - established 1978 and used through 1982
SHR130	Shorter stream cross-section 130 - established 1978 and used through 1982
SHR130P	Shorter stream cross-section 130P - second measurement of cross-section 130 in 1978
SHR132	Shorter stream cross-section 132 - established 1978 and used through 1982
SHR132P	Shorter stream cross-section 132P - second measurement of cross-section 132 in 1978
SHR134	Shorter stream cross-section 134 - established 1978 and used through 1982
SHR134P	Shorter stream cross-section 134P - second measurement of cross-section 134 in 1978
SHR136	Shorter stream cross-section 136 - established 1978 and used through 1982
SHR136P	Shorter stream cross-section 136P - second measurement of cross-section 136 in 1978
SHR138	Shorter stream cross-section 138 - established 1978 and used through 1982
SHR138P	Shorter stream cross-section 138P - second measurement of cross-section 138 in 1978
SHR140	Shorter stream cross-section 140 - established 1978 and used through 1982
SHR140P	Shorter stream cross-section 140P - second measurement of cross-section 140 in 1978
SHR142	Shorter stream cross-section 142 - established 1978 and used through 1982
SHR142P	Shorter stream cross-section 142P - second measurement of cross-section 142 in 1978
SHR144	Shorter stream cross-section 144 - established 1978 and used through 1982
SHR200	Shorter stream cross-section 200 - established 1978 and used through 1982
SHR202	Shorter stream cross-section 202 - established 1978 and used through 1982
SHR203	Shorter stream cross-section 203 - established 1978 and used through 1982
SHR206	Shorter stream cross-section 206 - established 1978 and used through 1982
SHR209	Shorter stream cross-section 209 - established 1978 and used through 1982
SHR211	Shorter stream cross-section 211 - established 1978 and used through 1982

SHR212	Shorter stream cross-section 212 - established 1978 and used through 1982
SHR215	Shorter stream cross-section 215 - established 1978 and used through 1982
SHR216	Shorter stream cross-section 216 - established 1978 and used through 1982
SHR219	Shorter stream cross-section 219 - established 1978 and used through 1982
SHR221	Shorter stream cross-section 221 - established 1978 and used through 1982
SHR222	Shorter stream cross-section 222 - established 1978 and used through 1982
SHR224	Shorter stream cross-section 224 - established 1978 and used through 1982
SHR226	Shorter stream cross-section 226 - established 1978 and used through 1982
SHR229	Shorter stream cross-section 229 - established 1978 and used through 1982
SHR231	Shorter stream cross-section 231 - established 1978 and used through 1982
SHR233	Shorter stream cross-section 233 - established 1978 and used through 1982
SHR236	Shorter stream cross-section 236 - established 1978 and used through 1982
SHR240	Shorter stream cross-section 240 - established 1978 and used through 1982
SHR244	Shorter stream cross-section 244 - established for 1982 only
SHR246	Shorter stream cross-section 246 - established 1978 and used through 1980
SHR250	Shorter stream cross-section 250 - established 1978 and used through 1982
SHR306	Shorter stream cross-section 306 - established 1978 and used through 1982
SHR313	Shorter stream cross-section 313 - established 1978 and used through 1982
SHR318	Shorter stream cross-section 318 - established 1978 and used through 1982
SHR321	Shorter stream cross-section 321 - established 1978 and used through 1982
SHR327	Shorter stream cross-section 327 - established 1978 and used through 1982
SHR330	Shorter stream cross-section 330 - established 1978 and used through 1982
SHR338	Shorter stream cross-section 338 - established 1978 and used through 1982
SHR340	Shorter stream cross-section 340 - established 1978 and used through 1982
SHR348	Shorter stream cross-section 348 - established 1978 and used through 1982
SHR354	Shorter stream cross-section 354 - established 1978 and used through 1982
LOL010B	Lower Lookout stream cross-section 10B - established 2009 as replacement of 10A - now shares x-post with 11B and 19A
LOL011B	Lower Lookout stream cross-section 11B - established 2009 as replacement of 11A and now shares x-post with 10B and 19A
LOL019A	Lower Lookout stream cross-section 19A - established in 2009 as replacement of 19 and now shares x-post with 10B and 11B
LOL010C	Lower Lookout stream cross-section 10C - established 2011 as replacement of 10B - no longer shares x-post with 11B and 19A
LOL011C	Lower Lookout stream cross-section 11C - established 2011 as replacement of 11B - no longer shares x-post with 10B and 19A
LOL019B	Lower Lookout stream cross-section 19B - established in 2011 as replacement of 19A - no longer shares x-post with 10B and 11B
LOM009D	Middle Lookout stream cross-section 9D - established 2011 as replacement of cross-section 9C
LOM010D	Middle Lookout stream cross-section 10D - established 2011 as replacement of

cross-section 10C

COC002A Cold Creek stream cross-section 2A - established 2011 as a replacement of cross-section 2 - X-post is reset due to tree fall

Enumerated Domain for Attribute: DBCODE  
GS002 FSDB Database Code GS002

Enumerated Domain for Attribute: MICROSITE  
BANK Bank

BOULDE Boulder

COBBLE Cobble

EMBANK Embankment

GRAVEL Gravel

HILLSP Hillslope

ISLAND Island

LOG Log

SBF Summer base flow

T1 Primary terrace

T2 Secondary terrace

TERACE Terrace

TRIBU Tributary

WF Winter flow

WOOD Wood

Enumerated Domain for Attribute: DBCODE  
GS002 FSDB Database Code GS002

Enumerated Domain for Attribute: DBCODE  
GS002 FSDB Database Code GS002

Enumerated Domain for Attribute: DBCODE  
GS002 FSDB Database Code GS002

Enumerated Domain for Attribute: XSEC\_CODE

COC001 Cold Creek stream cross-section 1 - established 1980 as furthest downstream  
COC cross-section

COC002 Cold Creek stream cross-section 2 - established 1980

COC003 Cold Creek stream cross-section 3 - established 1980

COC004 Cold Creek stream cross-section 4 - established 1980

COC005 Cold Creek stream cross-section 5 - established 1980

COC006 Cold Creek stream cross-section 6 - established 1980 and measured through  
1995 - z-post position is compromised

COC006A Cold Creek stream cross-section 6A - established in 1996 and replaces  
cross-section 6

COC007 Cold Creek stream cross-section 7 - established 1980

COC008	Cold Creek stream cross-section 8 - established 1980
COC009	Cold Creek stream cross-section 9 - established 1980
COC010	Cold Creek stream cross-section 10 - established 1980
COC011	Cold Creek stream cross-section 11 - established 1980
COC012	Cold Creek stream cross-section 12 - established 1980
COC013	Cold Creek stream cross-section 13 - established 1980
COC014	Cold Creek stream cross-section 14 - established 1980
COC015	Cold Creek stream cross-section 15 - established 1980
COC016	Cold Creek stream cross-section 16 - established 1980
COC017	Cold Creek stream cross-section 17 - established 1980 as furthest upstream COC cross-section
HAN001	Hagan Block North stream cross-section 1 - established 1981 and used through 1987 - furthest downstream cross-section above S.Fork confluence
HAN002	Hagan Block North stream cross-section 2 - established 1981 and used through 1987
HAN003	Hagan Block North stream cross-section 3 - established 1981 and used through 1987
HAN004	Hagan Block North stream cross-section 4 - established 1981 and used through 1987
HAN005	Hagan Block North stream cross-section 5 - established 1981 and used through 1985
HAN006	Hagan Block North stream cross-section 6 - established 1981 and used through 1987
HAN007	Hagan Block North stream cross-section 7 - established 1981 and used through 1987
HAN008	Hagan Block North stream cross-section 8 - established 1981 and used through 1987
HAN009	Hagan Block North stream cross-section 9 - established 1981 and used through 1987
HAN010	Hagan Block North stream cross-section 10 - established 1981 and used through 1987
HAN011	Hagan Block North stream cross-section 11 - established 1981 and used through 1987
HAN012	Hagan Block North stream cross-section 12 - established 1981 and used through 1987
HAN013	Hagan Block North stream cross-section 13 - established 1981 and used through 1987
HAN014	Hagan Block North stream cross-section 14 - established 1981 and used through 1987
HAN015	Hagan Block North stream cross-section 15 - established 1981 and used through 1987
HAN016	Hagan Block North stream cross-section 16 - established 1981 and used through 1987
HAN017	Hagan Block North stream cross-section 17 - established 1981 and used through 1987
HAN018	Hagan Block North stream cross-section 18 - established 1981 and used through 1987
HAN019	Hagan Block North stream cross-section 19 - established 1981 and used through 1987
HAN020	Hagan Block North stream cross-section 20 - established 1981 and used through 1987 - furthest upstream cross-section
HAS001	Hagan Block South stream cross-section 1 - established 1981 and used through 1986 - downstream of cross-sections 2-21 and 911-918, upstream of 105-110 and 906-909
HAS002	Hagan Block South stream cross-section 2 - established 1981 and used through 1986
HAS003	Hagan Block South stream cross-section 3 - established 1981 and used through 1986

HAS004 Hagan Block South stream cross-section 4 - established 1981 and used through 1986

HAS005 Hagan Block South stream cross-section 5 - established 1981 and used through 1986

HAS006 Hagan Block South stream cross-section 6 - established 1981 and used through 1986

HAS007 Hagan Block South stream cross-section 7 - established 1981 and used through 1986

HAS008 Hagan Block South stream cross-section 8 - established 1981 and used through 1986

HAS009 Hagan Block South stream cross-section 9 - established 1981 and used through 1986

HAS010 Hagan Block South stream cross-section 10 - established 1981 and used through 1986

HAS011 Hagan Block South stream cross-section 11 - established 1981 and used through 1986

HAS012 Hagan Block South stream cross-section 12 - established 1981 and used through 1986

HAS013 Hagan Block South stream cross-section 13 - established 1981 and used through 1986

HAS014 Hagan Block South stream cross-section 14 - established 1981 and used through 1986

HAS015 Hagan Block South stream cross-section 15 - established 1981 and used through 1986 (15A used in 1984)

HAS015A Hagan Block South stream cross-section 15A - 1984 only - must have surveyed to wrong posts. The survey is 560 cm too long and the profile does not look like the previous or post surveys

HAS016 Hagan Block South stream cross-section 16 - established 1981 and used through 1986

HAS017 Hagan Block South stream cross-section 17 - established 1981 and used through 1986

HAS018 Hagan Block South stream cross-section 18 - established 1981 and used through 1986

HAS019 Hagan Block South stream cross-section 19 - established 1981 and used through 1986

HAS020 Hagan Block South stream cross-section 20 - established 1982 and used through 1986

HAS021 Hagan Block South stream cross-section 21 - established 1982 and used through 1986

HAS022 Hagan Block South stream cross-section 22 - established 1982 and used through 1986

HAS105 Hagan Block South stream cross-section 105 - established 1982 and used through 1986 - furthest downstream cross-section above N.Fork confluence

HAS106 Hagan Block South stream cross-section 106 - established 1982 and used through 1986

HAS107 Hagan Block South stream cross-section 107- established 1982 and used through 1986 (107A used in 1984)

HAS107A Hagan Block South stream cross-section 107A - 1984 only replacement for cross-section 107

HAS108 Hagan Block South stream cross-section 108- established 1982 and used through 1986

HAS109 Hagan Block South stream cross-section 109 - established 1982 and used through 1986

HAS110 Hagan Block South stream cross-section 110 - established 1982 and used through 1986

HAS906 Hagan Block South stream cross-section 906 - established 1982 and used through 1986 - between 106 and 107

HAS907 Hagan Block South stream cross-section 907 - established 1982 and used through 1986 - between 107 and 108

HAS908 Hagan Block South stream cross-section 908 - established 1982 and used through 1986 - between 108 and 109

HAS909 Hagan Block South stream cross-section 909 - established 1982 and used through 1986 - between 109 and 110

HAS911 Hagan Block South stream cross-section 911 - established 1982 and used through 1986 - between 011 and 012

HAS912 Hagan Block South stream cross-section 912 - established 1982 and used through 1986 - between 012 and 013

HAS913 Hagan Block South stream cross-section 913 - established 1982 and used through 1986 - between 013 and 014

HAS914 Hagan Block South stream cross-section 914 - established 1982 and used through 1986 - between 014 and 015

HAS916 Hagan Block South stream cross-section 916 - established 1982 and used through 1986 - between 016 and 017

HAS917 Hagan Block South stream cross-section 917 - established 1982 and used through 1986 - between 017 and 018

HAS918 Hagan Block South stream cross-section 918 - established 1982 and used through 1986 - between 018 and 019

LOL001 Lower Lookout stream cross-section 1 - established 1978 as furthest downstream LOL cross-section

LOL002 Lower Lookout stream cross-section 2 - established 1978 and used through 1999 - z-post lost to bank erosion

LOL002A Lower Lookout stream cross-section 2A - established 2000 and used through 2005 as replacement of cross-section 2 - z-post washed out by high flows

LOL002B Lower Lookout stream cross-section 2B - established in 2006 as replacement of cross-section 2A

LOL003 Lower Lookout stream cross-section 3 - established 1978 and used through 1995 - z-post lost

LOL003A Lower Lookout stream cross-section 3A - established 1996 and used through 1998 as replacement of cross-section 3 - bank erosion compromises z-post

LOL003B Lower Lookout stream cross-section 3B - established 1999 as replacement of cross-section 3A - x-post lost to falling trees

LOL003C Lower Lookout stream cross-section 3C - re-established 2006 and surveyed to recreate x-post placement of cross-section 3B

LOL004 Lower Lookout stream cross-section 4 - established 1978 and used through 1995 - x-post lost

LOL004A Lower Lookout stream cross-section 4A - established 1996 as replacement of cross-section 4

LOL005 Lower Lookout stream cross-section 5 - established 1978

LOL006 Lower Lookout stream cross-section 6 - established 1978 and used through 1995 - x-post lost in flood

LOL006A Lower Lookout stream cross-section 6A - established 1996 as replacement of cross-section 6 based on original z to x bearing

LOL007 Lower Lookout stream cross-section 7 - established 1978

LOL008 Lower Lookout stream cross-section 8 - established 1978

LOL009 Lower Lookout stream cross-section 9 - established 1978 and used through 1999 - x-post lost to tree windthrow

LOL009A Lower Lookout stream cross-section 9A - established 2000 as replacement of cross-section 9 - new distance and bearing but compares well with cross-section 9

LOL010 Lower Lookout stream cross-section 10 - established 1978 and used through 1995 - z-post washed out by high flows

LOL010A Lower Lookout stream cross-section 10A - established 1996 as replacement of cross-section 10

LOL011 Lower Lookout stream cross-section 11 - established 1978 and used through 1995 - z-post washed out by high flows

LOL011A Lower Lookout stream cross-section 11A - established 1996 as replacement of cross-section 11

LOL012 Lower Lookout stream cross-section 12 - established 1978

LOL013 Lower Lookout stream cross-section 13 - established 1978 and used through 2000 - earth slump changed position of post

LOL013A Lower Lookout stream cross-section 13A - re-established in 2002 as a comparable replacement of cross-section 13

LOL014 Lower Lookout stream cross-section 14 - established 1978 and used through 1999 - bank erosion compromises z-post

LOL014A Lower Lookout stream cross-section 14A - established 2000 as replacement of cross-section 14 - furthest upstream LOL cross-section

LOL019 Lower Lookout stream cross-section 19 - established 2004 between post 9Z and post 10X to capture changing gravel bar deposition from the 1996 flood

LOM001 Middle Lookout stream cross-section 1 - established 1978 as furthest upstream LOM cross-section

LOM002	Middle Lookout stream cross-section 2 - established 1978 and used through 1995 - z-post washed out by high flows
LOM002A	Middle Lookout stream cross-section 2A - established 1996 and used through 2000 as replacement of cross-section 2 - x-post compromised to bank erosion
LOM002B	Middle Lookout stream cross-section 2B- established 2002 as comparable replacement of cross-section 2A
LOM003	Middle Lookout stream cross-section 3 - established 1978
LOM004	Middle Lookout stream cross-section 4 - established 1978
LOM005	Middle Lookout stream cross-section 5 - established 1978 and used through 1995 - x-post washed out by high flows
LOM005A	Middle Lookout stream cross-section 5A - established 1996 as replacement of cross-section 5
LOM006	Middle Lookout stream cross-section 6 - established 1978 and used through 1995 - x or z-post washed out by high flows
LOM006A	Middle Lookout stream cross-section 6A - established 1996 as replacement of cross-section 6
LOM007	Middle Lookout stream cross-section 7 - established 1978 and used through 1995 - z-post washed out by high flows
LOM007A	Middle Lookout stream cross-section 7A - established 1996 as replacement of cross-section 7
LOM008	Middle Lookout stream cross-section 8 - established 1978 and used through 1995 - x or z-post washed out by high flows
LOM008A	Middle Lookout stream cross-section 8A - established 1996 as replacement of cross-section 8
LOM009	Middle Lookout stream cross-section 9 - established 1978 and used through 1985 - alignment of cross-section changes for unknown reason
LOM009A	Middle Lookout stream cross-section 9A - established 1986 and used through 1995 as replacement of cross-section 9 - x-post lost to bank erosion
LOM009B	Middle Lookout stream cross-section 9B - established 1996 and used through 2005 as replacement of cross-section 9A - x-post lost during high flows
LOM009C	Middle Lookout stream cross-section 9C - established 2006 as replacement of cross-section 9B
LOM010	Middle Lookout stream cross-section 10 - established 1978 and used through 1995 - x-post washed out by high flows
LOM010A	Middle Lookout stream cross-section 10A - established 1996 and used through 1999 as replacement of cross-section 10 - x-post lost to bank erosion
LOM010B	Middle Lookout stream cross-section 10B - established 2000 and used through 2005 as replacement of cross-section 10A with both end points changed - x-post lost to bank erosion
LOM010C	Middle Lookout stream cross-section 10C - established 2006 as replacement of cross-section 10B
LOM011	Middle Lookout stream cross-section 11- established 1978 as furthest downstream LOM cross-section
MAC001	Mack old-growth stream cross-section 1- established 1978 as furthest downstream MAC cross-section
MAC002	Mack old-growth stream cross-section 2- established 1978
MAC003	Mack old-growth stream cross-section 3 - established 1978
MAC004	Mack old-growth stream cross-section 4 - established 1978
MAC005	Mack old-growth stream cross-section 5 - established 1978
MAC006	Mack old-growth stream cross-section 6 - established 1978
MAC007	Mack old-growth stream cross-section 7 - established 1978
MAC008	Mack old-growth stream cross-section 8 - established 1978
MAC009	Mack old-growth stream cross-section 9 - established 1978
MAC010	Mack old-growth stream cross-section 10 - established 1978
MAC011	Mack old-growth stream cross-section 11 - established 1978



MAC012	Mack old-growth stream cross-section 12 - established 1978 as furthest upstream MAC cross-section
MCC101	Mack clearcut stream cross-section 101 - established 1981 as furthest upstream MCC cross-section and below gauging station
MCC102	Mack clearcut stream cross-section 102 - established 1981
MCC103	Mack clearcut stream cross-section 103 - established 1981
MCC104	Mack clearcut stream cross-section 104 - established 1981
MCC105	Mack clearcut stream cross-section 105 - established 1981
MCC106	Mack clearcut stream cross-section 106 - established 1981
MCC107	Mack clearcut stream cross-section 107 - established 1981
MCC108	Mack clearcut stream cross-section 108 - established 1981
MCC109	Mack clearcut stream cross-section 109 - established 1981 and used through 2000 - repositioned to avoid tree affecting survey
MCC109A	Mack clearcut stream cross-section 109A - established in 2000 as replacement for cross-section 109 - x-post moved 1.15 m downstream
MCC110	Mack clearcut stream cross-section 110 - established 1981
MCC111	Mack clearcut stream cross-section 111 - established 1981
MCC112	Mack clearcut stream cross-section 112 - established 1981 but only used 1982 and 1984
MCC112A	Mack clearcut stream cross-section 112A - established in 1981 as cross-section 112, but use 112 in 1982 and 1984
MCC113	Mack clearcut stream cross-section 113 - established 1981
MCC114	Mack clearcut stream cross-section 114 - established 1981
MCC115	Mack clearcut stream cross-section 115 - established 1981
MCC116	Mack clearcut stream cross-section 116 - established 1981
MCC117	Mack clearcut stream cross-section 117 - established 1981 and used through 1982
MCC117A	Mack clearcut stream cross-section 117A - established in 1984 as replacement for cross-section 117
MCC118	Mack clearcut stream cross-section 118 - established 1981 and used through 2000 - repositioned
MCC118A	Mack clearcut stream cross-section 118A - established in 2000 as replacement for cross-section 118
MCC119	Mack clearcut stream cross-section 119 - established 1981
MCC120	Mack clearcut stream cross-section 120 - established 1981 as furthest downstream MCC cross-section
SHR000	Shorter stream cross-section 000 - established 1978 and used through 1982 as furthest downstream Shorter cross-section
SHR004	Shorter stream cross-section 004 - established 1978 and used through 1982
SHR008	Shorter stream cross-section 008 - established 1978 and used through 1982
SHR012	Shorter stream cross-section 012 - established 1978 and used through 1982
SHR016	Shorter stream cross-section 016 - established 1978 and used through 1982
SHR020	Shorter stream cross-section 020 - established 1978 and used through 1982
SHR024	Shorter stream cross-section 024 - established 1978 and used through 1982
SHR028	Shorter stream cross-section 028 - established 1978 and used through 1982
SHR032	Shorter stream cross-section 032 - established 1978 and used through 1982

SHR036	Shorter stream cross-section 036 - established 1978 and used through 1982
SHR040	Shorter stream cross-section 040 - established 1978 and used through 1982
SHR044	Shorter stream cross-section 044 - established 1978 and used through 1982
SHR100	Shorter stream cross-section 100 - established 1978 and used through 1982
SHR100P	Shorter stream cross-section 100P - second measurement of cross-section 100 in 1978
SHR100Q	Shorter stream cross-section 100Q - third measurement of cross-section 100 in 1978
SHR102	Shorter stream cross-section 102 - established 1978 and used through 1982
SHR102P	Shorter stream cross-section 102P - second measurement of cross-section 102 in 1978
SHR102Q	Shorter stream cross-section 102Q - third measurement of cross-section 102 in 1978
SHR104	Shorter stream cross-section 104 - established 1978 and used through 1982
SHR104P	Shorter stream cross-section 104P - second measurement of cross-section 104 in 1978
SHR104Q	Shorter stream cross-section 104Q - third measurement of cross-section 104 in 1978
SHR106	Shorter stream cross-section 106 - established 1978 and used through 1982
SHR106P	Shorter stream cross-section 106P - second measurement of cross-section 106 in 1978
SHR106Q	Shorter stream cross-section 106Q - third measurement of cross-section 106 in 1978
SHR108	Shorter stream cross-section 108 - established 1978 and used through 1982
SHR108P	Shorter stream cross-section 108P - second measurement of cross-section 108 in 1978
SHR108Q	Shorter stream cross-section 108Q - third measurement of cross-section 108 in 1978
SHR110	Shorter stream cross-section 110 - established 1978 and used through 1982
SHR110P	Shorter stream cross-section 110P - second measurement of cross-section 110 in 1978
SHR110Q	Shorter stream cross-section 110Q - third measurement of cross-section 110 in 1978
SHR112	Shorter stream cross-section 112 - established 1978 and used through 1982
SHR112P	Shorter stream cross-section 112P - second measurement of cross-section 112 in 1978
SHR112Q	Shorter stream cross-section 112Q - third measurement of cross-section 112 in 1978
SHR114	Shorter stream cross-section 114 - established 1978 and used through 1982
SHR114P	Shorter stream cross-section 114P - second measurement of cross-section 114 in 1978
SHR114Q	Shorter stream cross-section 114Q - third measurement of cross-section 114 in 1978
SHR116	Shorter stream cross-section 116 - established 1978 and used through 1982
SHR116P	Shorter stream cross-section 116P - second measurement of cross-section 116 in 1978
SHR116Q	Shorter stream cross-section 116Q - third measurement of cross-section 116 in 1978
SHR118	Shorter stream cross-section 118 - established 1978 and used through 1982
SHR118P	Shorter stream cross-section 118P - second measurement of cross-section 118 in 1978
SHR118Q	Shorter stream cross-section 118Q - third measurement of cross-section 118 in 1978
SHR120	Shorter stream cross-section 120 - established 1978 and used through 1982

SHR120P	Shorter stream cross-section 120P - second measurement of cross-section 120 in 1978
SHR120Q	Shorter stream cross-section 120Q - third measurement of cross-section 120 in 1978
SHR122	Shorter stream cross-section 122 - established 1978 and used through 1982
SHR122P	Shorter stream cross-section 122P - second measurement of cross-section 122 in 1978
SHR122Q	Shorter stream cross-section 122Q - third measurement of cross-section 122 in 1978
SHR124	Shorter stream cross-section 124 - established 1978 and used through 1982
SHR124P	Shorter stream cross-section 124P - second measurement of cross-section 124 in 1978
SHR126	Shorter stream cross-section 126 - established 1978 and used through 1981
SHR126A	Shorter stream cross-section 126A - established 1982 as replacement of cross-section 126
SHR126P	Shorter stream cross-section 126P - second measurement of cross-section 126 in 1978
SHR128	Shorter stream cross-section 128 - established 1978 and used through 1982
SHR130	Shorter stream cross-section 130 - established 1978 and used through 1982
SHR130P	Shorter stream cross-section 130P - second measurement of cross-section 130 in 1978
SHR132	Shorter stream cross-section 132 - established 1978 and used through 1982
SHR132P	Shorter stream cross-section 132P - second measurement of cross-section 132 in 1978
SHR134	Shorter stream cross-section 134 - established 1978 and used through 1982
SHR134P	Shorter stream cross-section 134P - second measurement of cross-section 134 in 1978
SHR136	Shorter stream cross-section 136 - established 1978 and used through 1982
SHR136P	Shorter stream cross-section 136P - second measurement of cross-section 136 in 1978
SHR138	Shorter stream cross-section 138 - established 1978 and used through 1982
SHR138P	Shorter stream cross-section 138P - second measurement of cross-section 138 in 1978
SHR140	Shorter stream cross-section 140 - established 1978 and used through 1982
SHR140P	Shorter stream cross-section 140P - second measurement of cross-section 140 in 1978
SHR142	Shorter stream cross-section 142 - established 1978 and used through 1982
SHR142P	Shorter stream cross-section 142P - second measurement of cross-section 142 in 1978
SHR144	Shorter stream cross-section 144 - established 1978 and used through 1982
SHR200	Shorter stream cross-section 200 - established 1978 and used through 1982
SHR202	Shorter stream cross-section 202 - established 1978 and used through 1982
SHR203	Shorter stream cross-section 203 - established 1978 and used through 1982
SHR206	Shorter stream cross-section 206 - established 1978 and used through 1982
SHR209	Shorter stream cross-section 209 - established 1978 and used through 1982
SHR211	Shorter stream cross-section 211 - established 1978 and used through 1982
SHR212	Shorter stream cross-section 212 - established 1978 and used through 1982
SHR215	Shorter stream cross-section 215 - established 1978 and used through 1982

SHR216	Shorter stream cross-section 216 - established 1978 and used through 1982
SHR219	Shorter stream cross-section 219 - established 1978 and used through 1982
SHR221	Shorter stream cross-section 221 - established 1978 and used through 1982
SHR222	Shorter stream cross-section 222 - established 1978 and used through 1982
SHR224	Shorter stream cross-section 224 - established 1978 and used through 1982
SHR226	Shorter stream cross-section 226 - established 1978 and used through 1982
SHR229	Shorter stream cross-section 229 - established 1978 and used through 1982
SHR231	Shorter stream cross-section 231 - established 1978 and used through 1982
SHR233	Shorter stream cross-section 233 - established 1978 and used through 1982
SHR236	Shorter stream cross-section 236 - established 1978 and used through 1982
SHR240	Shorter stream cross-section 240 - established 1978 and used through 1982
SHR244	Shorter stream cross-section 244 - established for 1982 only
SHR246	Shorter stream cross-section 246 - established 1978 and used through 1980
SHR250	Shorter stream cross-section 250 - established 1978 and used through 1982
SHR306	Shorter stream cross-section 306 - established 1978 and used through 1982
SHR313	Shorter stream cross-section 313 - established 1978 and used through 1982
SHR318	Shorter stream cross-section 318 - established 1978 and used through 1982
SHR321	Shorter stream cross-section 321 - established 1978 and used through 1982
SHR327	Shorter stream cross-section 327 - established 1978 and used through 1982
SHR330	Shorter stream cross-section 330 - established 1978 and used through 1982
SHR338	Shorter stream cross-section 338 - established 1978 and used through 1982
SHR340	Shorter stream cross-section 340 - established 1978 and used through 1982
SHR348	Shorter stream cross-section 348 - established 1978 and used through 1982
SHR354	Shorter stream cross-section 354 - established 1978 and used through 1982
LOL010B	Lower Lookout stream cross-section 10B - established 2009 as replacement of 10A - now shares x-post with 11B and 19A
LOL011B	Lower Lookout stream cross-section 11B - established 2009 as replacement of 11A and now shares x-post with 10B and 19A
LOL019A	Lower Lookout stream cross-section 19A - established in 2009 as replacement of 19 and now shares x-post with 10B and 11B
LOL010C	Lower Lookout stream cross-section 10C - established 2011 as replacement of 10B - no longer shares x-post with 11B and 19A
LOL011C	Lower Lookout stream cross-section 11C - established 2011 as replacement of 11B - no longer shares x-post with 10B and 19A
LOL019B	Lower Lookout stream cross-section 19B - established in 2011 as replacement of 19A - no longer shares x-post with 10B and 11B
LOM009D	Middle Lookout stream cross-section 9D - established 2011 as replacement of cross-section 9C
LOM010D	Middle Lookout stream cross-section 10D - established 2011 as replacement of cross-section 10C
COC002A	Cold Creek stream cross-section 2A - established 2011 as a replacement of cross-section 2 - X-post is reset due to tree fall

Enumerated Domain for Attribute: REFPOST

X	X post (cross-section end point)- right side looking upstream
Z	Z post (cross-section end point) - left side looking upstream

Enumerated Domain for Attribute: DBCODE  
 GS002 FSDB Database Code GS002

Enumerated Domain for Attribute: XSEC\_CODE

COC001	Cold Creek stream cross-section 1 - established 1980 as furthest downstream COC cross-section
COC002	Cold Creek stream cross-section 2 - established 1980
COC003	Cold Creek stream cross-section 3 - established 1980
COC004	Cold Creek stream cross-section 4 - established 1980
COC005	Cold Creek stream cross-section 5 - established 1980
COC006	Cold Creek stream cross-section 6 - established 1980 and measured through 1995 - z-post position is compromised
COC006A	Cold Creek stream cross-section 6A - established in 1996 and replaces cross-section 6
COC007	Cold Creek stream cross-section 7 - established 1980
COC008	Cold Creek stream cross-section 8 - established 1980
COC009	Cold Creek stream cross-section 9 - established 1980
COC010	Cold Creek stream cross-section 10 - established 1980
COC011	Cold Creek stream cross-section 11 - established 1980
COC012	Cold Creek stream cross-section 12 - established 1980
COC013	Cold Creek stream cross-section 13 - established 1980
COC014	Cold Creek stream cross-section 14 - established 1980
COC015	Cold Creek stream cross-section 15 - established 1980
COC016	Cold Creek stream cross-section 16 - established 1980
COC017	Cold Creek stream cross-section 17 - established 1980 as furthest upstream COC cross-section
HAN001	Hagan Block North stream cross-section 1 - established 1981 and used through 1987 - furthest downstream cross-section above S.Fork confluence
HAN002	Hagan Block North stream cross-section 2 - established 1981 and used through 1987
HAN003	Hagan Block North stream cross-section 3 - established 1981 and used through 1987
HAN004	Hagan Block North stream cross-section 4 - established 1981 and used through 1987
HAN005	Hagan Block North stream cross-section 5 - established 1981 and used through 1985
HAN006	Hagan Block North stream cross-section 6 - established 1981 and used through 1987
HAN007	Hagan Block North stream cross-section 7 - established 1981 and used through 1987
HAN008	Hagan Block North stream cross-section 8 - established 1981 and used through 1987
HAN009	Hagan Block North stream cross-section 9 - established 1981 and used through 1987
HAN010	Hagan Block North stream cross-section 10 - established 1981 and used through 1987
HAN011	Hagan Block North stream cross-section 11 - established 1981 and used through 1987

HAN012	Hagan Block North stream cross-section 12 - established 1981 and used through 1987
HAN013	Hagan Block North stream cross-section 13 - established 1981 and used through 1987
HAN014	Hagan Block North stream cross-section 14 - established 1981 and used through 1987
HAN015	Hagan Block North stream cross-section 15 - established 1981 and used through 1987
HAN016	Hagan Block North stream cross-section 16 - established 1981 and used through 1987
HAN017	Hagan Block North stream cross-section 17 - established 1981 and used through 1987
HAN018	Hagan Block North stream cross-section 18 - established 1981 and used through 1987
HAN019	Hagan Block North stream cross-section 19 - established 1981 and used through 1987
HAN020	Hagan Block North stream cross-section 20 - established 1981 and used through 1987 - furthest upstream cross-section
HAS001	Hagan Block South stream cross-section 1 - established 1981 and used through 1986 - downstream of cross-sections 2-21 and 911-918, upstream of 105-110 and 906-909
HAS002	Hagan Block South stream cross-section 2 - established 1981 and used through 1986
HAS003	Hagan Block South stream cross-section 3 - established 1981 and used through 1986
HAS004	Hagan Block South stream cross-section 4 - established 1981 and used through 1986
HAS005	Hagan Block South stream cross-section 5 - established 1981 and used through 1986
HAS006	Hagan Block South stream cross-section 6 - established 1981 and used through 1986
HAS007	Hagan Block South stream cross-section 7 - established 1981 and used through 1986
HAS008	Hagan Block South stream cross-section 8 - established 1981 and used through 1986
HAS009	Hagan Block South stream cross-section 9 - established 1981 and used through 1986
HAS010	Hagan Block South stream cross-section 10 - established 1981 and used through 1986
HAS011	Hagan Block South stream cross-section 11 - established 1981 and used through 1986
HAS012	Hagan Block South stream cross-section 12 - established 1981 and used through 1986
HAS013	Hagan Block South stream cross-section 13 - established 1981 and used through 1986
HAS014	Hagan Block South stream cross-section 14 - established 1981 and used through 1986
HAS015	Hagan Block South stream cross-section 15 - established 1981 and used through 1986 (15A used in 1984)
HAS015A	Hagan Block South stream cross-section 15A - 1984 only - must have surveyed to wrong posts. The survey is 560 cm too long and the profile does not look like the previous or post surveys
HAS016	Hagan Block South stream cross-section 16 - established 1981 and used through 1986
HAS017	Hagan Block South stream cross-section 17 - established 1981 and used through 1986
HAS018	Hagan Block South stream cross-section 18 - established 1981 and used through 1986
HAS019	Hagan Block South stream cross-section 19 - established 1981 and used through 1986
HAS020	Hagan Block South stream cross-section 20 - established 1982 and used through 1986
HAS021	Hagan Block South stream cross-section 21 - established 1982 and used through 1986
HAS022	Hagan Block South stream cross-section 22 - established 1982 and used through 1986
HAS105	Hagan Block South stream cross-section 105 - established 1982 and used

through 1986 - furthest downstream cross-section above N.Fork confluence

HAS106	Hagan Block South stream cross-section 106 - established 1982 and used through 1986
HAS107	Hagan Block South stream cross-section 107- established 1982 and used through 1986 (107A used in 1984)
HAS107A	Hagan Block South stream cross-section 107A - 1984 only replacement for cross-section 107
HAS108	Hagan Block South stream cross-section 108- established 1982 and used through 1986
HAS109	Hagan Block South stream cross-section 109 - established 1982 and used through 1986
HAS110	Hagan Block South stream cross-section 110 - established 1982 and used through 1986
HAS906	Hagan Block South stream cross-section 906 - established 1982 and used through 1986 - between 106 and 107
HAS907	Hagan Block South stream cross-section 907 - established 1982 and used through 1986 - between 107 and 108
HAS908	Hagan Block South stream cross-section 908 - established 1982 and used through 1986 - between 108 and 109
HAS909	Hagan Block South stream cross-section 909 - established 1982 and used through 1986 - between 109 and 110
HAS911	Hagan Block South stream cross-section 911 - established 1982 and used through 1986 - between 011 and 012
HAS912	Hagan Block South stream cross-section 912 - established 1982 and used through 1986 - between 012 and 013
HAS913	Hagan Block South stream cross-section 913 - established 1982 and used through 1986 - between 013 and 014
HAS914	Hagan Block South stream cross-section 914 - established 1982 and used through 1986 - between 014 and 015
HAS916	Hagan Block South stream cross-section 916 - established 1982 and used through 1986 - between 016 and 017
HAS917	Hagan Block South stream cross-section 917 - established 1982 and used through 1986 - between 017 and 018
HAS918	Hagan Block South stream cross-section 918 - established 1982 and used through 1986 - between 018 and 019
LOL001	Lower Lookout stream cross-section 1 - established 1978 as furthest downstream LOL cross-section
LOL002	Lower Lookout stream cross-section 2 - established 1978 and used through 1999 - z-post lost to bank erosion
LOL002A	Lower Lookout stream cross-section 2A - established 2000 and used through 2005 as replacement of cross-section 2 - z-post washed out by high flows
LOL002B	Lower Lookout stream cross-section 2B - established in 2006 as replacement of cross-section 2A
LOL003	Lower Lookout stream cross-section 3 - established 1978 and used through 1995 - z-post lost
LOL003A	Lower Lookout stream cross-section 3A - established 1996 and used through 1998 as replacement of cross-section 3 - bank erosion compromises z-post
LOL003B	Lower Lookout stream cross-section 3B - established 1999 as replacement of cross-section 3A - x-post lost to falling trees
LOL003C	Lower Lookout stream cross-section 3C - re-established 2006 and surveyed to recreate x-post placement of cross-section 3B
LOL004	Lower Lookout stream cross-section 4 - established 1978 and used through 1995 - x-post lost
LOL004A	Lower Lookout stream cross-section 4A - established 1996 as replacement of cross-section 4
LOL005	Lower Lookout stream cross-section 5 - established 1978
LOL006	Lower Lookout stream cross-section 6 - established 1978 and used through 1995 - x-post lost in flood
LOL006A	Lower Lookout stream cross-section 6A - established 1996 as replacement of cross-section 6 based on original z to x bearing
LOL007	Lower Lookout stream cross-section 7 - established 1978
LOL008	Lower Lookout stream cross-section 8 - established 1978
LOL009	Lower Lookout stream cross-section 9 - established 1978 and used through

1999 - x-post lost to tree windthrow

LOL009A	Lower Lookout stream cross-section 9A - established 2000 as replacement of cross-section 9 - new distance and bearing but compares well with cross-section 9
LOL010	Lower Lookout stream cross-section 10 - established 1978 and used through 1995 - z-post washed out by high flows
LOL010A	Lower Lookout stream cross-section 10A - established 1996 as replacement of cross-section 10
LOL011	Lower Lookout stream cross-section 11 - established 1978 and used through 1995 - z-post washed out by high flows
LOL011A	Lower Lookout stream cross-section 11A - established 1996 as replacement of cross-section 11
LOL012	Lower Lookout stream cross-section 12 - established 1978
LOL013	Lower Lookout stream cross-section 13 - established 1978 and used through 2000 - earth slump changed position of post
LOL013A	Lower Lookout stream cross-section 13A - re-established in 2002 as a comparable replacement of cross-section 13
LOL014	Lower Lookout stream cross-section 14 - established 1978 and used through 1999 - bank erosion compromises z-post
LOL014A	Lower Lookout stream cross-section 14A - established 2000 as replacement of cross-section 14 - furthest upstream LOL cross-section
LOL019	Lower Lookout stream cross-section 19 - established 2004 between post 9Z and post 10X to capture changing gravel bar deposition from the 1996 flood
LOM001	Middle Lookout stream cross-section 1 - established 1978 as furthest upstream LOM cross-section
LOM002	Middle Lookout stream cross-section 2 - established 1978 and used through 1995 - z-post washed out by high flows
LOM002A	Middle Lookout stream cross-section 2A - established 1996 and used through 2000 as replacement of cross-section 2 - x-post compromised to bank erosion
LOM002B	Middle Lookout stream cross-section 2B- established 2002 as comparable replacement of cross-section 2A
LOM003	Middle Lookout stream cross-section 3 - established 1978
LOM004	Middle Lookout stream cross-section 4 - established 1978
LOM005	Middle Lookout stream cross-section 5 - established 1978 and used through 1995 - x-post washed out by high flows
LOM005A	Middle Lookout stream cross-section 5A - established 1996 as replacement of cross-section 5
LOM006	Middle Lookout stream cross-section 6 - established 1978 and used through 1995 - x or z-post washed out by high flows
LOM006A	Middle Lookout stream cross-section 6A - established 1996 as replacement of cross-section 6
LOM007	Middle Lookout stream cross-section 7 - established 1978 and used through 1995 - z-post washed out by high flows
LOM007A	Middle Lookout stream cross-section 7A - established 1996 as replacement of cross-section 7
LOM008	Middle Lookout stream cross-section 8 - established 1978 and used through 1995 - x or z-post washed out by high flows
LOM008A	Middle Lookout stream cross-section 8A - established 1996 as replacement of cross-section 8
LOM009	Middle Lookout stream cross-section 9 - established 1978 and used through 1985 - alignment of cross-section changes for unknown reason
LOM009A	Middle Lookout stream cross-section 9A - established 1986 and used through 1995 as replacement of cross-section 9 - x-post lost to bank erosion
LOM009B	Middle Lookout stream cross-section 9B - established 1996 and used through 2005 as replacement of cross-section 9A - x-post lost during high flows
LOM009C	Middle Lookout stream cross-section 9C - established 2006 as replacement of cross-section 9B
LOM010	Middle Lookout stream cross-section 10 - established 1978 and used through 1995 - x-post washed out by high flows
LOM010A	Middle Lookout stream cross-section 10A - established 1996 and used through 1999 as replacement of cross-section 10 - x-post lost to bank erosion
LOM010B	Middle Lookout stream cross-section 10B - established 2000 and used through 2005 as replacement of cross-section 10A with both end points changed -



x-post lost to bank erosion

LOM010C	Middle Lookout stream cross-section 10C - established 2006 as replacement of cross-section 10B
LOM011	Middle Lookout stream cross-section 11- established 1978 as furthest downstream LOM cross-section
MAC001	Mack old-growth stream cross-section 1- established 1978 as furthest downstream MAC cross-section
MAC002	Mack old-growth stream cross-section 2- established 1978
MAC003	Mack old-growth stream cross-section 3 - established 1978
MAC004	Mack old-growth stream cross-section 4 - established 1978
MAC005	Mack old-growth stream cross-section 5 - established 1978
MAC006	Mack old-growth stream cross-section 6 - established 1978
MAC007	Mack old-growth stream cross-section 7 - established 1978
MAC008	Mack old-growth stream cross-section 8 - established 1978
MAC009	Mack old-growth stream cross-section 9 - established 1978
MAC010	Mack old-growth stream cross-section 10 - established 1978
MAC011	Mack old-growth stream cross-section 11 - established 1978
MAC012	Mack old-growth stream cross-section 12 - established 1978 as furthest upstream MAC cross-section
MCC101	Mack clearcut stream cross-section 101 - established 1981 as furthest upstream MCC cross-section and below gauging station
MCC102	Mack clearcut stream cross-section 102 - established 1981
MCC103	Mack clearcut stream cross-section 103 - established 1981
MCC104	Mack clearcut stream cross-section 104 - established 1981
MCC105	Mack clearcut stream cross-section 105 - established 1981
MCC106	Mack clearcut stream cross-section 106 - established 1981
MCC107	Mack clearcut stream cross-section 107 - established 1981
MCC108	Mack clearcut stream cross-section 108 - established 1981
MCC109	Mack clearcut stream cross-section 109 - established 1981 and used through 2000 - repositioned to avoid tree affecting survey
MCC109A	Mack clearcut stream cross-section 109A - established in 2000 as replacement for cross-section 109 - x-post moved 1.15 m downstream
MCC110	Mack clearcut stream cross-section 110 - established 1981
MCC111	Mack clearcut stream cross-section 111 - established 1981
MCC112	Mack clearcut stream cross-section 112 - established 1981 but only used 1982 and 1984
MCC112A	Mack clearcut stream cross-section 112A - established in 1981 as cross-section 112, but use 112 in 1982 and 1984
MCC113	Mack clearcut stream cross-section 113 - established 1981
MCC114	Mack clearcut stream cross-section 114 - established 1981
MCC115	Mack clearcut stream cross-section 115 - established 1981
MCC116	Mack clearcut stream cross-section 116 - established 1981
MCC117	Mack clearcut stream cross-section 117 - established 1981 and used through

1982

MCC117A	Mack clearcut stream cross-section 117A - established in 1984 as replacement for cross-section 117
MCC118	Mack clearcut stream cross-section 118 - established 1981 and used through 2000 - repositioned
MCC118A	Mack clearcut stream cross-section 118A - established in 2000 as replacement for cross-section 118
MCC119	Mack clearcut stream cross-section 119 - established 1981
MCC120	Mack clearcut stream cross-section 120 - established 1981 as furthest downstream MCC cross-section
SHR000	Shorter stream cross-section 000 - established 1978 and used through 1982 as furthest downstream Shorter cross-section
SHR004	Shorter stream cross-section 004 - established 1978 and used through 1982
SHR008	Shorter stream cross-section 008 - established 1978 and used through 1982
SHR012	Shorter stream cross-section 012 - established 1978 and used through 1982
SHR016	Shorter stream cross-section 016 - established 1978 and used through 1982
SHR020	Shorter stream cross-section 020 - established 1978 and used through 1982
SHR024	Shorter stream cross-section 024 - established 1978 and used through 1982
SHR028	Shorter stream cross-section 028 - established 1978 and used through 1982
SHR032	Shorter stream cross-section 032 - established 1978 and used through 1982
SHR036	Shorter stream cross-section 036 - established 1978 and used through 1982
SHR040	Shorter stream cross-section 040 - established 1978 and used through 1982
SHR044	Shorter stream cross-section 044 - established 1978 and used through 1982
SHR100	Shorter stream cross-section 100 - established 1978 and used through 1982
SHR100P	Shorter stream cross-section 100P - second measurement of cross-section 100 in 1978
SHR100Q	Shorter stream cross-section 100Q - third measurement of cross-section 100 in 1978
SHR102	Shorter stream cross-section 102 - established 1978 and used through 1982
SHR102P	Shorter stream cross-section 102P - second measurement of cross-section 102 in 1978
SHR102Q	Shorter stream cross-section 102Q - third measurement of cross-section 102 in 1978
SHR104	Shorter stream cross-section 104 - established 1978 and used through 1982
SHR104P	Shorter stream cross-section 104P - second measurement of cross-section 104 in 1978
SHR104Q	Shorter stream cross-section 104Q - third measurement of cross-section 104 in 1978
SHR106	Shorter stream cross-section 106 - established 1978 and used through 1982
SHR106P	Shorter stream cross-section 106P - second measurement of cross-section 106 in 1978
SHR106Q	Shorter stream cross-section 106Q - third measurement of cross-section 106 in 1978
SHR108	Shorter stream cross-section 108 - established 1978 and used through 1982
SHR108P	Shorter stream cross-section 108P - second measurement of cross-section 108 in 1978
SHR108Q	Shorter stream cross-section 108Q - third measurement of cross-section 108 in 1978
SHR110	Shorter stream cross-section 110 - established 1978 and used through 1982

SHR110P	Shorter stream cross-section 110P - second measurement of cross-section 110 in 1978
SHR110Q	Shorter stream cross-section 110Q - third measurement of cross-section 110 in 1978
SHR112	Shorter stream cross-section 112 - established 1978 and used through 1982
SHR112P	Shorter stream cross-section 112P - second measurement of cross-section 112 in 1978
SHR112Q	Shorter stream cross-section 112Q - third measurement of cross-section 112 in 1978
SHR114	Shorter stream cross-section 114 - established 1978 and used through 1982
SHR114P	Shorter stream cross-section 114P - second measurement of cross-section 114 in 1978
SHR114Q	Shorter stream cross-section 114Q - third measurement of cross-section 114 in 1978
SHR116	Shorter stream cross-section 116 - established 1978 and used through 1982
SHR116P	Shorter stream cross-section 116P - second measurement of cross-section 116 in 1978
SHR116Q	Shorter stream cross-section 116Q - third measurement of cross-section 116 in 1978
SHR118	Shorter stream cross-section 118 - established 1978 and used through 1982
SHR118P	Shorter stream cross-section 118P - second measurement of cross-section 118 in 1978
SHR118Q	Shorter stream cross-section 118Q - third measurement of cross-section 118 in 1978
SHR120	Shorter stream cross-section 120 - established 1978 and used through 1982
SHR120P	Shorter stream cross-section 120P - second measurement of cross-section 120 in 1978
SHR120Q	Shorter stream cross-section 120Q - third measurement of cross-section 120 in 1978
SHR122	Shorter stream cross-section 122 - established 1978 and used through 1982
SHR122P	Shorter stream cross-section 122P - second measurement of cross-section 122 in 1978
SHR122Q	Shorter stream cross-section 122Q - third measurement of cross-section 122 in 1978
SHR124	Shorter stream cross-section 124 - established 1978 and used through 1982
SHR124P	Shorter stream cross-section 124P - second measurement of cross-section 124 in 1978
SHR126	Shorter stream cross-section 126 - established 1978 and used through 1981
SHR126A	Shorter stream cross-section 126A - established 1982 as replacement of cross-section 126
SHR126P	Shorter stream cross-section 126P - second measurement of cross-section 126 in 1978
SHR128	Shorter stream cross-section 128 - established 1978 and used through 1982
SHR130	Shorter stream cross-section 130 - established 1978 and used through 1982
SHR130P	Shorter stream cross-section 130P - second measurement of cross-section 130 in 1978
SHR132	Shorter stream cross-section 132 - established 1978 and used through 1982
SHR132P	Shorter stream cross-section 132P - second measurement of cross-section 132 in 1978
SHR134	Shorter stream cross-section 134 - established 1978 and used through 1982
SHR134P	Shorter stream cross-section 134P - second measurement of cross-section 134 in 1978
SHR136	Shorter stream cross-section 136 - established 1978 and used through 1982
SHR136P	Shorter stream cross-section 136P - second measurement of cross-section 136

in 1978

SHR138	Shorter stream cross-section 138 - established 1978 and used through 1982
SHR138P	Shorter stream cross-section 138P - second measurement of cross-section 138 in 1978
SHR140	Shorter stream cross-section 140 - established 1978 and used through 1982
SHR140P	Shorter stream cross-section 140P - second measurement of cross-section 140 in 1978
SHR142	Shorter stream cross-section 142 - established 1978 and used through 1982
SHR142P	Shorter stream cross-section 142P - second measurement of cross-section 142 in 1978
SHR144	Shorter stream cross-section 144 - established 1978 and used through 1982
SHR200	Shorter stream cross-section 200 - established 1978 and used through 1982
SHR202	Shorter stream cross-section 202 - established 1978 and used through 1982
SHR203	Shorter stream cross-section 203 - established 1978 and used through 1982
SHR206	Shorter stream cross-section 206 - established 1978 and used through 1982
SHR209	Shorter stream cross-section 209 - established 1978 and used through 1982
SHR211	Shorter stream cross-section 211 - established 1978 and used through 1982
SHR212	Shorter stream cross-section 212 - established 1978 and used through 1982
SHR215	Shorter stream cross-section 215 - established 1978 and used through 1982
SHR216	Shorter stream cross-section 216 - established 1978 and used through 1982
SHR219	Shorter stream cross-section 219 - established 1978 and used through 1982
SHR221	Shorter stream cross-section 221 - established 1978 and used through 1982
SHR222	Shorter stream cross-section 222 - established 1978 and used through 1982
SHR224	Shorter stream cross-section 224 - established 1978 and used through 1982
SHR226	Shorter stream cross-section 226 - established 1978 and used through 1982
SHR229	Shorter stream cross-section 229 - established 1978 and used through 1982
SHR231	Shorter stream cross-section 231 - established 1978 and used through 1982
SHR233	Shorter stream cross-section 233 - established 1978 and used through 1982
SHR236	Shorter stream cross-section 236 - established 1978 and used through 1982
SHR240	Shorter stream cross-section 240 - established 1978 and used through 1982
SHR244	Shorter stream cross-section 244 - established for 1982 only
SHR246	Shorter stream cross-section 246 - established 1978 and used through 1980
SHR250	Shorter stream cross-section 250 - established 1978 and used through 1982
SHR306	Shorter stream cross-section 306 - established 1978 and used through 1982
SHR313	Shorter stream cross-section 313 - established 1978 and used through 1982
SHR318	Shorter stream cross-section 318 - established 1978 and used through 1982
SHR321	Shorter stream cross-section 321 - established 1978 and used through 1982

SHR327	Shorter stream cross-section 327 - established 1978 and used through 1982
SHR330	Shorter stream cross-section 330 - established 1978 and used through 1982
SHR338	Shorter stream cross-section 338 - established 1978 and used through 1982
SHR340	Shorter stream cross-section 340 - established 1978 and used through 1982
SHR348	Shorter stream cross-section 348 - established 1978 and used through 1982
SHR354	Shorter stream cross-section 354 - established 1978 and used through 1982
LOL010B	Lower Lookout stream cross-section 10B - established 2009 as replacement of 10A - now shares x-post with 11B and 19A
LOL011B	Lower Lookout stream cross-section 11B - established 2009 as replacement of 11A and now shares x-post with 10B and 19A
LOL019A	Lower Lookout stream cross-section 19A - established in 2009 as replacement of 19 and now shares x-post with 10B and 11B
LOL010C	Lower Lookout stream cross-section 10C - established 2011 as replacement of 10B - no longer shares x-post with 11B and 19A
LOL011C	Lower Lookout stream cross-section 11C - established 2011 as replacement of 11B - no longer shares x-post with 10B and 19A
LOL019B	Lower Lookout stream cross-section 19B - established in 2011 as replacement of 19A - no longer shares x-post with 10B and 11B
LOM009D	Middle Lookout stream cross-section 9D - established 2011 as replacement of cross-section 9C
LOM010D	Middle Lookout stream cross-section 10D - established 2011 as replacement of cross-section 10C
COC002A	Cold Creek stream cross-section 2A - established 2011 as a replacement of cross-section 2 - X-post is reset due to tree fall

Enumerated Domain for Attribute: DBCODE

GS002	FSDB Database Code GS002
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Enumerated Domain for Attribute: XSEC\_CODE

COC001	Cold Creek stream cross-section 1 - established 1980 as furthest downstream COC cross-section
COC002	Cold Creek stream cross-section 2 - established 1980
COC003	Cold Creek stream cross-section 3 - established 1980
COC004	Cold Creek stream cross-section 4 - established 1980
COC005	Cold Creek stream cross-section 5 - established 1980
COC006	Cold Creek stream cross-section 6 - established 1980 and measured through 1995 - z-post position is compromised
COC006A	Cold Creek stream cross-section 6A - established in 1996 and replaces cross-section 6
COC007	Cold Creek stream cross-section 7 - established 1980
COC008	Cold Creek stream cross-section 8 - established 1980
COC009	Cold Creek stream cross-section 9 - established 1980
COC010	Cold Creek stream cross-section 10 - established 1980
COC011	Cold Creek stream cross-section 11 - established 1980
COC012	Cold Creek stream cross-section 12 - established 1980
COC013	Cold Creek stream cross-section 13 - established 1980
COC014	Cold Creek stream cross-section 14 - established 1980
COC015	Cold Creek stream cross-section 15 - established 1980

COC016 Cold Creek stream cross-section 16 - established 1980

COC017 Cold Creek stream cross-section 17 - established 1980 as furthest upstream  
COC cross-section

HAN001 Hagan Block North stream cross-section 1 - established 1981 and used through  
1987 - furthest downstream cross-section above S.Fork confluence

HAN002 Hagan Block North stream cross-section 2 - established 1981 and used through  
1987

HAN003 Hagan Block North stream cross-section 3 - established 1981 and used through  
1987

HAN004 Hagan Block North stream cross-section 4 - established 1981 and used through  
1987

HAN005 Hagan Block North stream cross-section 5 - established 1981 and used through  
1985

HAN006 Hagan Block North stream cross-section 6 - established 1981 and used through  
1987

HAN007 Hagan Block North stream cross-section 7 - established 1981 and used through  
1987

HAN008 Hagan Block North stream cross-section 8 - established 1981 and used through  
1987

HAN009 Hagan Block North stream cross-section 9 - established 1981 and used through  
1987

HAN010 Hagan Block North stream cross-section 10 - established 1981 and used  
through 1987

HAN011 Hagan Block North stream cross-section 11 - established 1981 and used  
through 1987

HAN012 Hagan Block North stream cross-section 12 - established 1981 and used  
through 1987

HAN013 Hagan Block North stream cross-section 13 - established 1981 and used  
through 1987

HAN014 Hagan Block North stream cross-section 14 - established 1981 and used  
through 1987

HAN015 Hagan Block North stream cross-section 15 - established 1981 and used  
through 1987

HAN016 Hagan Block North stream cross-section 16 - established 1981 and used  
through 1987

HAN017 Hagan Block North stream cross-section 17 - established 1981 and used  
through 1987

HAN018 Hagan Block North stream cross-section 18 - established 1981 and used  
through 1987

HAN019 Hagan Block North stream cross-section 19 - established 1981 and used  
through 1987

HAN020 Hagan Block North stream cross-section 20 - established 1981 and used  
through 1987 - furthest upstream cross-section

HAS001 Hagan Block South stream cross-section 1 - established 1981 and used through  
1986 - downstream of cross-sections 2-21 and 911-918, upstream of 105-110  
and 906-909

HAS002 Hagan Block South stream cross-section 2 - established 1981 and used through  
1986

HAS003 Hagan Block South stream cross-section 3 - established 1981 and used through  
1986

HAS004 Hagan Block South stream cross-section 4 - established 1981 and used through  
1986

HAS005 Hagan Block South stream cross-section 5 - established 1981 and used through  
1986

HAS006 Hagan Block South stream cross-section 6 - established 1981 and used through  
1986

HAS007 Hagan Block South stream cross-section 7 - established 1981 and used through  
1986

HAS008 Hagan Block South stream cross-section 8 - established 1981 and used through  
1986

HAS009 Hagan Block South stream cross-section 9 - established 1981 and used through  
1986

HAS010 Hagan Block South stream cross-section 10 - established 1981 and used  
through 1986

HAS011 Hagan Block South stream cross-section 11 - established 1981 and used  
through 1986

HAS012 Hagan Block South stream cross-section 12 - established 1981 and used through 1986

HAS013 Hagan Block South stream cross-section 13 - established 1981 and used through 1986

HAS014 Hagan Block South stream cross-section 14 - established 1981 and used through 1986

HAS015 Hagan Block South stream cross-section 15 - established 1981 and used through 1986 (15A used in 1984)

HAS015A Hagan Block South stream cross-section 15A - 1984 only - must have surveyed to wrong posts. The survey is 560 cm too long and the profile does not look like the previous or post surveys

HAS016 Hagan Block South stream cross-section 16 - established 1981 and used through 1986

HAS017 Hagan Block South stream cross-section 17 - established 1981 and used through 1986

HAS018 Hagan Block South stream cross-section 18 - established 1981 and used through 1986

HAS019 Hagan Block South stream cross-section 19 - established 1981 and used through 1986

HAS020 Hagan Block South stream cross-section 20 - established 1982 and used through 1986

HAS021 Hagan Block South stream cross-section 21 - established 1982 and used through 1986

HAS022 Hagan Block South stream cross-section 22 - established 1982 and used through 1986

HAS105 Hagan Block South stream cross-section 105 - established 1982 and used through 1986 - furthest downstream cross-section above N.Fork confluence

HAS106 Hagan Block South stream cross-section 106 - established 1982 and used through 1986

HAS107 Hagan Block South stream cross-section 107- established 1982 and used through 1986 (107A used in 1984)

HAS107A Hagan Block South stream cross-section 107A - 1984 only replacement for cross-section 107

HAS108 Hagan Block South stream cross-section 108- established 1982 and used through 1986

HAS109 Hagan Block South stream cross-section 109 - established 1982 and used through 1986

HAS110 Hagan Block South stream cross-section 110 - established 1982 and used through 1986

HAS906 Hagan Block South stream cross-section 906 - established 1982 and used through 1986 - between 106 and 107

HAS907 Hagan Block South stream cross-section 907 - established 1982 and used through 1986 - between 107 and 108

HAS908 Hagan Block South stream cross-section 908 - established 1982 and used through 1986 - between 108 and 109

HAS909 Hagan Block South stream cross-section 909 - established 1982 and used through 1986 - between 109 and 110

HAS911 Hagan Block South stream cross-section 911 - established 1982 and used through 1986 - between 011 and 012

HAS912 Hagan Block South stream cross-section 912 - established 1982 and used through 1986 - between 012 and 013

HAS913 Hagan Block South stream cross-section 913 - established 1982 and used through 1986 - between 013 and 014

HAS914 Hagan Block South stream cross-section 914 - established 1982 and used through 1986 - between 014 and 015

HAS916 Hagan Block South stream cross-section 916 - established 1982 and used through 1986 - between 016 and 017

HAS917 Hagan Block South stream cross-section 917 - established 1982 and used through 1986 - between 017 and 018

HAS918 Hagan Block South stream cross-section 918 - established 1982 and used through 1986 - between 018 and 019

LOL001 Lower Lookout stream cross-section 1 - established 1978 as furthest downstream LOL cross-section

LOL002 Lower Lookout stream cross-section 2 - established 1978 and used through 1999 - z-post lost to bank erosion

LOL002A Lower Lookout stream cross-section 2A - established 2000 and used through 2005 as replacement of cross-section 2 - z-post washed out by high flows

LOL002B Lower Lookout stream cross-section 2B - established in 2006 as replacement of cross-section 2A  
 LOL003 Lower Lookout stream cross-section 3 - established 1978 and used through 1995 - z-post lost  
 LOL003A Lower Lookout stream cross-section 3A - established 1996 and used through 1998 as replacement of cross-section 3 - bank erosion compromises z-post  
 LOL003B Lower Lookout stream cross-section 3B - established 1999 as replacement of cross-section 3A - x-post lost to falling trees  
 LOL003C Lower Lookout stream cross-section 3C - re-established 2006 and surveyed to recreate x-post placement of cross-section 3B  
 LOL004 Lower Lookout stream cross-section 4 - established 1978 and used through 1995 - x-post lost  
 LOL004A Lower Lookout stream cross-section 4A - established 1996 as replacement of cross-section 4  
 LOL005 Lower Lookout stream cross-section 5 - established 1978  
 LOL006 Lower Lookout stream cross-section 6 - established 1978 and used through 1995 - x-post lost in flood  
 LOL006A Lower Lookout stream cross-section 6A - established 1996 as replacement of cross-section 6 based on original z to x bearing  
 LOL007 Lower Lookout stream cross-section 7 - established 1978  
 LOL008 Lower Lookout stream cross-section 8 - established 1978  
 LOL009 Lower Lookout stream cross-section 9 - established 1978 and used through 1999 - x-post lost to tree windthrow  
 LOL009A Lower Lookout stream cross-section 9A - established 2000 as replacement of cross-section 9 - new distance and bearing but compares well with cross-section 9  
 LOL010 Lower Lookout stream cross-section 10 - established 1978 and used through 1995 - z-post washed out by high flows  
 LOL010A Lower Lookout stream cross-section 10A - established 1996 as replacement of cross-section 10  
 LOL011 Lower Lookout stream cross-section 11 - established 1978 and used through 1995 - z-post washed out by high flows  
 LOL011A Lower Lookout stream cross-section 11A - established 1996 as replacement of cross-section 11  
 LOL012 Lower Lookout stream cross-section 12 - established 1978  
 LOL013 Lower Lookout stream cross-section 13 - established 1978 and used through 2000 - earth slump changed position of post  
 LOL013A Lower Lookout stream cross-section 13A - re-established in 2002 as a comparable replacement of cross-section 13  
 LOL014 Lower Lookout stream cross-section 14 - established 1978 and used through 1999 - bank erosion compromises z-post  
 LOL014A Lower Lookout stream cross-section 14A - established 2000 as replacement of cross-section 14 - furthest upstream LOL cross-section  
 LOL019 Lower Lookout stream cross-section 19 - established 2004 between post 9Z and post 10X to capture changing gravel bar deposition from the 1996 flood  
 LOM001 Middle Lookout stream cross-section 1 - established 1978 as furthest upstream LOM cross-section  
 LOM002 Middle Lookout stream cross-section 2 - established 1978 and used through 1995 - z-post washed out by high flows  
 LOM002A Middle Lookout stream cross-section 2A - established 1996 and used through 2000 as replacement of cross-section 2 - x-post compromised to bank erosion  
 LOM002B Middle Lookout stream cross-section 2B- established 2002 as comparable replacement of cross-section 2A  
 LOM003 Middle Lookout stream cross-section 3 - established 1978  
 LOM004 Middle Lookout stream cross-section 4 - established 1978  
 LOM005 Middle Lookout stream cross-section 5 - established 1978 and used through 1995 - x-post washed out by high flows  
 LOM005A Middle Lookout stream cross-section 5A - established 1996 as replacement of cross-section 5  
 LOM006 Middle Lookout stream cross-section 6 - established 1978 and used through 1995 - x or z-post washed out by high flows



LOM006A	Middle Lookout stream cross-section 6A - established 1996 as replacement of cross-section 6
LOM007	Middle Lookout stream cross-section 7 - established 1978 and used through 1995 - z-post washed out by high flows
LOM007A	Middle Lookout stream cross-section 7A - established 1996 as replacement of cross-section 7
LOM008	Middle Lookout stream cross-section 8 - established 1978 and used through 1995 - x or z-post washed out by high flows
LOM008A	Middle Lookout stream cross-section 8A - established 1996 as replacement of cross-section 8
LOM009	Middle Lookout stream cross-section 9 - established 1978 and used through 1985 - alignment of cross-section changes for unknown reason
LOM009A	Middle Lookout stream cross-section 9A - established 1986 and used through 1995 as replacement of cross-section 9 - x-post lost to bank erosion
LOM009B	Middle Lookout stream cross-section 9B - established 1996 and used through 2005 as replacement of cross-section 9A - x-post lost during high flows
LOM009C	Middle Lookout stream cross-section 9C - established 2006 as replacement of cross-section 9B
LOM010	Middle Lookout stream cross-section 10 - established 1978 and used through 1995 - x-post washed out by high flows
LOM010A	Middle Lookout stream cross-section 10A - established 1996 and used through 1999 as replacement of cross-section 10 - x-post lost to bank erosion
LOM010B	Middle Lookout stream cross-section 10B - established 2000 and used through 2005 as replacement of cross-section 10A with both end points changed - x-post lost to bank erosion
LOM010C	Middle Lookout stream cross-section 10C - established 2006 as replacement of cross-section 10B
LOM011	Middle Lookout stream cross-section 11 - established 1978 as furthest downstream LOM cross-section
MAC001	Mack old-growth stream cross-section 1 - established 1978 as furthest downstream MAC cross-section
MAC002	Mack old-growth stream cross-section 2 - established 1978
MAC003	Mack old-growth stream cross-section 3 - established 1978
MAC004	Mack old-growth stream cross-section 4 - established 1978
MAC005	Mack old-growth stream cross-section 5 - established 1978
MAC006	Mack old-growth stream cross-section 6 - established 1978
MAC007	Mack old-growth stream cross-section 7 - established 1978
MAC008	Mack old-growth stream cross-section 8 - established 1978
MAC009	Mack old-growth stream cross-section 9 - established 1978
MAC010	Mack old-growth stream cross-section 10 - established 1978
MAC011	Mack old-growth stream cross-section 11 - established 1978
MAC012	Mack old-growth stream cross-section 12 - established 1978 as furthest upstream MAC cross-section
MCC101	Mack clearcut stream cross-section 101 - established 1981 as furthest upstream MCC cross-section and below gauging station
MCC102	Mack clearcut stream cross-section 102 - established 1981
MCC103	Mack clearcut stream cross-section 103 - established 1981
MCC104	Mack clearcut stream cross-section 104 - established 1981
MCC105	Mack clearcut stream cross-section 105 - established 1981
MCC106	Mack clearcut stream cross-section 106 - established 1981
MCC107	Mack clearcut stream cross-section 107 - established 1981

MCC108	Mack clearcut stream cross-section 108 - established 1981
MCC109	Mack clearcut stream cross-section 109 - established 1981 and used through 2000 - repositioned to avoid tree affecting survey
MCC109A	Mack clearcut stream cross-section 109A - established in 2000 as replacement for cross-section 109 - x-post moved 1.15 m downstream
MCC110	Mack clearcut stream cross-section 110 - established 1981
MCC111	Mack clearcut stream cross-section 111 - established 1981
MCC112	Mack clearcut stream cross-section 112 - established 1981 but only used 1982 and 1984
MCC112A	Mack clearcut stream cross-section 112A - established in 1981 as cross-section 112, but use 112 in 1982 and 1984
MCC113	Mack clearcut stream cross-section 113 - established 1981
MCC114	Mack clearcut stream cross-section 114 - established 1981
MCC115	Mack clearcut stream cross-section 115 - established 1981
MCC116	Mack clearcut stream cross-section 116 - established 1981
MCC117	Mack clearcut stream cross-section 117 - established 1981 and used through 1982
MCC117A	Mack clearcut stream cross-section 117A - established in 1984 as replacement for cross-section 117
MCC118	Mack clearcut stream cross-section 118 - established 1981 and used through 2000 - repositioned
MCC118A	Mack clearcut stream cross-section 118A - established in 2000 as replacement for cross-section 118
MCC119	Mack clearcut stream cross-section 119 - established 1981
MCC120	Mack clearcut stream cross-section 120 - established 1981 as furthest downstream MCC cross-section
SHR000	Shorter stream cross-section 000 - established 1978 and used through 1982 as furthest downstream Shorter cross-section
SHR004	Shorter stream cross-section 004 - established 1978 and used through 1982
SHR008	Shorter stream cross-section 008 - established 1978 and used through 1982
SHR012	Shorter stream cross-section 012 - established 1978 and used through 1982
SHR016	Shorter stream cross-section 016 - established 1978 and used through 1982
SHR020	Shorter stream cross-section 020 - established 1978 and used through 1982
SHR024	Shorter stream cross-section 024 - established 1978 and used through 1982
SHR028	Shorter stream cross-section 028 - established 1978 and used through 1982
SHR032	Shorter stream cross-section 032 - established 1978 and used through 1982
SHR036	Shorter stream cross-section 036 - established 1978 and used through 1982
SHR040	Shorter stream cross-section 040 - established 1978 and used through 1982
SHR044	Shorter stream cross-section 044 - established 1978 and used through 1982
SHR100	Shorter stream cross-section 100 - established 1978 and used through 1982
SHR100P	Shorter stream cross-section 100P - second measurement of cross-section 100 in 1978
SHR100Q	Shorter stream cross-section 100Q - third measurement of cross-section 100 in 1978
SHR102	Shorter stream cross-section 102 - established 1978 and used through 1982
SHR102P	Shorter stream cross-section 102P - second measurement of cross-section 102

in 1978

SHR102Q	Shorter stream cross-section 102Q - third measurement of cross-section 102 in 1978
SHR104	Shorter stream cross-section 104 - established 1978 and used through 1982
SHR104P	Shorter stream cross-section 104P - second measurement of cross-section 104 in 1978
SHR104Q	Shorter stream cross-section 104Q - third measurement of cross-section 104 in 1978
SHR106	Shorter stream cross-section 106 - established 1978 and used through 1982
SHR106P	Shorter stream cross-section 106P - second measurement of cross-section 106 in 1978
SHR106Q	Shorter stream cross-section 106Q - third measurement of cross-section 106 in 1978
SHR108	Shorter stream cross-section 108 - established 1978 and used through 1982
SHR108P	Shorter stream cross-section 108P - second measurement of cross-section 108 in 1978
SHR108Q	Shorter stream cross-section 108Q - third measurement of cross-section 108 in 1978
SHR110	Shorter stream cross-section 110 - established 1978 and used through 1982
SHR110P	Shorter stream cross-section 110P - second measurement of cross-section 110 in 1978
SHR110Q	Shorter stream cross-section 110Q - third measurement of cross-section 110 in 1978
SHR112	Shorter stream cross-section 112 - established 1978 and used through 1982
SHR112P	Shorter stream cross-section 112P - second measurement of cross-section 112 in 1978
SHR112Q	Shorter stream cross-section 112Q - third measurement of cross-section 112 in 1978
SHR114	Shorter stream cross-section 114 - established 1978 and used through 1982
SHR114P	Shorter stream cross-section 114P - second measurement of cross-section 114 in 1978
SHR114Q	Shorter stream cross-section 114Q - third measurement of cross-section 114 in 1978
SHR116	Shorter stream cross-section 116 - established 1978 and used through 1982
SHR116P	Shorter stream cross-section 116P - second measurement of cross-section 116 in 1978
SHR116Q	Shorter stream cross-section 116Q - third measurement of cross-section 116 in 1978
SHR118	Shorter stream cross-section 118 - established 1978 and used through 1982
SHR118P	Shorter stream cross-section 118P - second measurement of cross-section 118 in 1978
SHR118Q	Shorter stream cross-section 118Q - third measurement of cross-section 118 in 1978
SHR120	Shorter stream cross-section 120 - established 1978 and used through 1982
SHR120P	Shorter stream cross-section 120P - second measurement of cross-section 120 in 1978
SHR120Q	Shorter stream cross-section 120Q - third measurement of cross-section 120 in 1978
SHR122	Shorter stream cross-section 122 - established 1978 and used through 1982
SHR122P	Shorter stream cross-section 122P - second measurement of cross-section 122 in 1978
SHR122Q	Shorter stream cross-section 122Q - third measurement of cross-section 122 in 1978
SHR124	Shorter stream cross-section 124 - established 1978 and used through 1982
SHR124P	Shorter stream cross-section 124P - second measurement of cross-section 124

in 1978

SHR126	Shorter stream cross-section 126 - established 1978 and used through 1981
SHR126A	Shorter stream cross-section 126A - established 1982 as replacement of cross-section 126
SHR126P	Shorter stream cross-section 126P - second measurement of cross-section 126 in 1978
SHR128	Shorter stream cross-section 128 - established 1978 and used through 1982
SHR130	Shorter stream cross-section 130 - established 1978 and used through 1982
SHR130P	Shorter stream cross-section 130P - second measurement of cross-section 130 in 1978
SHR132	Shorter stream cross-section 132 - established 1978 and used through 1982
SHR132P	Shorter stream cross-section 132P - second measurement of cross-section 132 in 1978
SHR134	Shorter stream cross-section 134 - established 1978 and used through 1982
SHR134P	Shorter stream cross-section 134P - second measurement of cross-section 134 in 1978
SHR136	Shorter stream cross-section 136 - established 1978 and used through 1982
SHR136P	Shorter stream cross-section 136P - second measurement of cross-section 136 in 1978
SHR138	Shorter stream cross-section 138 - established 1978 and used through 1982
SHR138P	Shorter stream cross-section 138P - second measurement of cross-section 138 in 1978
SHR140	Shorter stream cross-section 140 - established 1978 and used through 1982
SHR140P	Shorter stream cross-section 140P - second measurement of cross-section 140 in 1978
SHR142	Shorter stream cross-section 142 - established 1978 and used through 1982
SHR142P	Shorter stream cross-section 142P - second measurement of cross-section 142 in 1978
SHR144	Shorter stream cross-section 144 - established 1978 and used through 1982
SHR200	Shorter stream cross-section 200 - established 1978 and used through 1982
SHR202	Shorter stream cross-section 202 - established 1978 and used through 1982
SHR203	Shorter stream cross-section 203 - established 1978 and used through 1982
SHR206	Shorter stream cross-section 206 - established 1978 and used through 1982
SHR209	Shorter stream cross-section 209 - established 1978 and used through 1982
SHR211	Shorter stream cross-section 211 - established 1978 and used through 1982
SHR212	Shorter stream cross-section 212 - established 1978 and used through 1982
SHR215	Shorter stream cross-section 215 - established 1978 and used through 1982
SHR216	Shorter stream cross-section 216 - established 1978 and used through 1982
SHR219	Shorter stream cross-section 219 - established 1978 and used through 1982
SHR221	Shorter stream cross-section 221 - established 1978 and used through 1982
SHR222	Shorter stream cross-section 222 - established 1978 and used through 1982
SHR224	Shorter stream cross-section 224 - established 1978 and used through 1982
SHR226	Shorter stream cross-section 226 - established 1978 and used through 1982

SHR229	Shorter stream cross-section 229 - established 1978 and used through 1982
SHR231	Shorter stream cross-section 231 - established 1978 and used through 1982
SHR233	Shorter stream cross-section 233 - established 1978 and used through 1982
SHR236	Shorter stream cross-section 236 - established 1978 and used through 1982
SHR240	Shorter stream cross-section 240 - established 1978 and used through 1982
SHR244	Shorter stream cross-section 244 - established for 1982 only
SHR246	Shorter stream cross-section 246 - established 1978 and used through 1980
SHR250	Shorter stream cross-section 250 - established 1978 and used through 1982
SHR306	Shorter stream cross-section 306 - established 1978 and used through 1982
SHR313	Shorter stream cross-section 313 - established 1978 and used through 1982
SHR318	Shorter stream cross-section 318 - established 1978 and used through 1982
SHR321	Shorter stream cross-section 321 - established 1978 and used through 1982
SHR327	Shorter stream cross-section 327 - established 1978 and used through 1982
SHR330	Shorter stream cross-section 330 - established 1978 and used through 1982
SHR338	Shorter stream cross-section 338 - established 1978 and used through 1982
SHR340	Shorter stream cross-section 340 - established 1978 and used through 1982
SHR348	Shorter stream cross-section 348 - established 1978 and used through 1982
SHR354	Shorter stream cross-section 354 - established 1978 and used through 1982
LOL010B	Lower Lookout stream cross-section 10B - established 2009 as replacement of 10A - now shares x-post with 11B and 19A
LOL011B	Lower Lookout stream cross-section 11B - established 2009 as replacement of 11A and now shares x-post with 10B and 19A
LOL019A	Lower Lookout stream cross-section 19A - established in 2009 as replacement of 19 and now shares x-post with 10B and 11B
LOL010C	Lower Lookout stream cross-section 10C - established 2011 as replacement of 10B - no longer shares x-post with 11B and 19A
LOL011C	Lower Lookout stream cross-section 11C - established 2011 as replacement of 11B - no longer shares x-post with 10B and 19A
LOL019B	Lower Lookout stream cross-section 19B - established in 2011 as replacement of 19A - no longer shares x-post with 10B and 11B
LOM009D	Middle Lookout stream cross-section 9D - established 2011 as replacement of cross-section 9C
LOM010D	Middle Lookout stream cross-section 10D - established 2011 as replacement of cross-section 10C
COC002A	Cold Creek stream cross-section 2A - established 2011 as a replacement of cross-section 2 - X-post is reset due to tree fall

Enumerated Domain for Attribute: CHANCODE

NA	No channel code is applicable
BF	Bank full
EC	Edge of channel
EW	Edge of water (main channel)

Enumerated Domain for Attribute: CLASS

0	Class not assigned
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- |   |  |
|---|--|
| 1 | Slope: Measured point is on slope **used only on Shorter Creek**   |
| 2 | Bankful channel: Measured point is in bankful channel **used only on Shorter Creek**                             |
| 3 | Edge point where slope and upper end of bankful channel meet (1+2) **used only on Shorter Creek**                |
| 4 | Active channel: Measured point is in active channel **used only on Shorter Creek**                               |
| 5 | Edge point where slope and active channel meet (no bankful channel present) (1+4) **used only on Shorter Creek** |
| 6 | Edge point where bankful channel and active channel meet (2+4) **used only on Shorter Creek**                    |

Enumerated Domain for Attribute: HSTAGE

- |   |  |
|---|--|
| H | Indicates highest level point for comparative x-section analysis |
|   | Stage comparison point not assigned                              |

Enumerated Domain for Attribute: OTHERCODE

- |    |   |
|----|---|
| NA | No other channel or substrate codes apply |
| BF | Bank full                                 |
| BL | Boulder                                   |
| CB | Cobble                                    |
| EW | Edge of water (main channel)              |
| GR | Gravel                                    |
| LG | Log ( > 10 cm diameter )                  |
| LI | Litter                                    |
| TR | Trail                                     |
| FS | Fine sediment                             |
| UC | Undercut bank                             |
| TB | Tributary                                 |
| RB | Rebar                                     |
| EC | Edge of channel                           |

Enumerated Domain for Attribute: DBCODE

- |       |                          |
|-------|--------------------------|
| GS002 | FSDB Database Code GS002 |
|-------|--------------------------|

Enumerated Domain for Attribute: SUBSTRATE

- |    |               |
|----|---------------|
| NR | Not recorded  |
| BL | Boulder       |
| BR | Bedrock       |
| CB | Cobble        |
| FO | Fine organics |
| FS | Fine sediment |
| GR | Gravel        |

IB	Eye-bolt/bedrock
LG	Log (> 10 cm diameter)
LI	Litter
LS	Suspended log
MS	Bare mineral soil / colluvium
OD	Organic debris (< 10 cm diameter)
OS	Suspended organic debris
RW	Rootwad / stump
TF	Turf / grass
TR	Trail
WS	Water surface (for recording elevation of water; rod held at water surface) field crew was using code WSE water surface elevation

Enumerated Domain for Attribute: XSEC\_CODE

COC001	Cold Creek stream cross-section 1 - established 1980 as furthest downstream COC cross-section
COC002	Cold Creek stream cross-section 2 - established 1980
COC003	Cold Creek stream cross-section 3 - established 1980
COC004	Cold Creek stream cross-section 4 - established 1980
COC005	Cold Creek stream cross-section 5 - established 1980
COC006	Cold Creek stream cross-section 6 - established 1980 and measured through 1995 - z-post position is compromised
COC006A	Cold Creek stream cross-section 6A - established in 1996 and replaces cross-section 6
COC007	Cold Creek stream cross-section 7 - established 1980
COC008	Cold Creek stream cross-section 8 - established 1980
COC009	Cold Creek stream cross-section 9 - established 1980
COC010	Cold Creek stream cross-section 10 - established 1980
COC011	Cold Creek stream cross-section 11 - established 1980
COC012	Cold Creek stream cross-section 12 - established 1980
COC013	Cold Creek stream cross-section 13 - established 1980
COC014	Cold Creek stream cross-section 14 - established 1980
COC015	Cold Creek stream cross-section 15 - established 1980
COC016	Cold Creek stream cross-section 16 - established 1980
COC017	Cold Creek stream cross-section 17 - established 1980 as furthest upstream COC cross-section
HAN001	Hagan Block North stream cross-section 1 - established 1981 and used through 1987 - furthest downstream cross-section above S.Fork confluence
HAN002	Hagan Block North stream cross-section 2 - established 1981 and used through 1987
HAN003	Hagan Block North stream cross-section 3 - established 1981 and used through 1987
HAN004	Hagan Block North stream cross-section 4 - established 1981 and used through 1987

HAN005	Hagan Block North stream cross-section 5 - established 1981 and used through 1985
HAN006	Hagan Block North stream cross-section 6 - established 1981 and used through 1987
HAN007	Hagan Block North stream cross-section 7 - established 1981 and used through 1987
HAN008	Hagan Block North stream cross-section 8 - established 1981 and used through 1987
HAN009	Hagan Block North stream cross-section 9 - established 1981 and used through 1987
HAN010	Hagan Block North stream cross-section 10 - established 1981 and used through 1987
HAN011	Hagan Block North stream cross-section 11 - established 1981 and used through 1987
HAN012	Hagan Block North stream cross-section 12 - established 1981 and used through 1987
HAN013	Hagan Block North stream cross-section 13 - established 1981 and used through 1987
HAN014	Hagan Block North stream cross-section 14 - established 1981 and used through 1987
HAN015	Hagan Block North stream cross-section 15 - established 1981 and used through 1987
HAN016	Hagan Block North stream cross-section 16 - established 1981 and used through 1987
HAN017	Hagan Block North stream cross-section 17 - established 1981 and used through 1987
HAN018	Hagan Block North stream cross-section 18 - established 1981 and used through 1987
HAN019	Hagan Block North stream cross-section 19 - established 1981 and used through 1987
HAN020	Hagan Block North stream cross-section 20 - established 1981 and used through 1987 - furthest upstream cross-section
HAS001	Hagan Block South stream cross-section 1 - established 1981 and used through 1986 - downstream of cross-sections 2-21 and 911-918, upstream of 105-110 and 906-909
HAS002	Hagan Block South stream cross-section 2 - established 1981 and used through 1986
HAS003	Hagan Block South stream cross-section 3 - established 1981 and used through 1986
HAS004	Hagan Block South stream cross-section 4 - established 1981 and used through 1986
HAS005	Hagan Block South stream cross-section 5 - established 1981 and used through 1986
HAS006	Hagan Block South stream cross-section 6 - established 1981 and used through 1986
HAS007	Hagan Block South stream cross-section 7 - established 1981 and used through 1986
HAS008	Hagan Block South stream cross-section 8 - established 1981 and used through 1986
HAS009	Hagan Block South stream cross-section 9 - established 1981 and used through 1986
HAS010	Hagan Block South stream cross-section 10 - established 1981 and used through 1986
HAS011	Hagan Block South stream cross-section 11 - established 1981 and used through 1986
HAS012	Hagan Block South stream cross-section 12 - established 1981 and used through 1986
HAS013	Hagan Block South stream cross-section 13 - established 1981 and used through 1986
HAS014	Hagan Block South stream cross-section 14 - established 1981 and used through 1986
HAS015	Hagan Block South stream cross-section 15 - established 1981 and used through 1986 (15A used in 1984)
HAS015A	Hagan Block South stream cross-section 15A - 1984 only - must have surveyed to wrong posts. The survey is 560 cm too long and the profile does not look like the previous or post surveys
HAS016	Hagan Block South stream cross-section 16 - established 1981 and used



through 1986

HAS017	Hagan Block South stream cross-section 17 - established 1981 and used through 1986
HAS018	Hagan Block South stream cross-section 18 - established 1981 and used through 1986
HAS019	Hagan Block South stream cross-section 19 - established 1981 and used through 1986
HAS020	Hagan Block South stream cross-section 20 - established 1982 and used through 1986
HAS021	Hagan Block South stream cross-section 21 - established 1982 and used through 1986
HAS022	Hagan Block South stream cross-section 22 - established 1982 and used through 1986
HAS105	Hagan Block South stream cross-section 105 - established 1982 and used through 1986 - furthest downstream cross-section above N.Fork confluence
HAS106	Hagan Block South stream cross-section 106 - established 1982 and used through 1986
HAS107	Hagan Block South stream cross-section 107- established 1982 and used through 1986 (107A used in 1984)
HAS107A	Hagan Block South stream cross-section 107A - 1984 only replacement for cross-section 107
HAS108	Hagan Block South stream cross-section 108- established 1982 and used through 1986
HAS109	Hagan Block South stream cross-section 109 - established 1982 and used through 1986
HAS110	Hagan Block South stream cross-section 110 - established 1982 and used through 1986
HAS906	Hagan Block South stream cross-section 906 - established 1982 and used through 1986 - between 106 and 107
HAS907	Hagan Block South stream cross-section 907 - established 1982 and used through 1986 - between 107 and 108
HAS908	Hagan Block South stream cross-section 908 - established 1982 and used through 1986 - between 108 and 109
HAS909	Hagan Block South stream cross-section 909 - established 1982 and used through 1986 - between 109 and 110
HAS911	Hagan Block South stream cross-section 911 - established 1982 and used through 1986 - between 011 and 012
HAS912	Hagan Block South stream cross-section 912 - established 1982 and used through 1986 - between 012 and 013
HAS913	Hagan Block South stream cross-section 913 - established 1982 and used through 1986 - between 013 and 014
HAS914	Hagan Block South stream cross-section 914 - established 1982 and used through 1986 - between 014 and 015
HAS916	Hagan Block South stream cross-section 916 - established 1982 and used through 1986 - between 016 and 017
HAS917	Hagan Block South stream cross-section 917 - established 1982 and used through 1986 - between 017 and 018
HAS918	Hagan Block South stream cross-section 918 - established 1982 and used through 1986 - between 018 and 019
LOL001	Lower Lookout stream cross-section 1 - established 1978 as furthest downstream LOL cross-section
LOL002	Lower Lookout stream cross-section 2 - established 1978 and used through 1999 - z-post lost to bank erosion
LOL002A	Lower Lookout stream cross-section 2A - established 2000 and used through 2005 as replacement of cross-section 2 - z-post washed out by high flows
LOL002B	Lower Lookout stream cross-section 2B - established in 2006 as replacement of cross-section 2A
LOL003	Lower Lookout stream cross-section 3 - established 1978 and used through 1995 - z-post lost
LOL003A	Lower Lookout stream cross-section 3A - established 1996 and used through 1998 as replacement of cross-section 3 - bank erosion compromises z-post
LOL003B	Lower Lookout stream cross-section 3B - established 1999 as replacement of cross-section 3A - x-post lost to falling trees
LOL003C	Lower Lookout stream cross-section 3C - re-established 2006 and surveyed to recreate x-post placement of cross-section 3B
LOL004	Lower Lookout stream cross-section 4 - established 1978 and used through

1995 - x-post lost

LOL004A Lower Lookout stream cross-section 4A - established 1996 as replacement of cross-section 4

LOL005 Lower Lookout stream cross-section 5 - established 1978

LOL006 Lower Lookout stream cross-section 6 - established 1978 and used through 1995 - x-post lost in flood

LOL006A Lower Lookout stream cross-section 6A - established 1996 as replacement of cross-section 6 based on original z to x bearing

LOL007 Lower Lookout stream cross-section 7 - established 1978

LOL008 Lower Lookout stream cross-section 8 - established 1978

LOL009 Lower Lookout stream cross-section 9 - established 1978 and used through 1999 - x-post lost to tree windthrow

LOL009A Lower Lookout stream cross-section 9A - established 2000 as replacement of cross-section 9 - new distance and bearing but compares well with cross-section 9

LOL010 Lower Lookout stream cross-section 10 - established 1978 and used through 1995 - z-post washed out by high flows

LOL010A Lower Lookout stream cross-section 10A - established 1996 as replacement of cross-section 10

LOL011 Lower Lookout stream cross-section 11 - established 1978 and used through 1995 - z-post washed out by high flows

LOL011A Lower Lookout stream cross-section 11A - established 1996 as replacement of cross-section 11

LOL012 Lower Lookout stream cross-section 12 - established 1978

LOL013 Lower Lookout stream cross-section 13 - established 1978 and used through 2000 - earth slump changed position of post

LOL013A Lower Lookout stream cross-section 13A - re-established in 2002 as a comparable replacement of cross-section 13

LOL014 Lower Lookout stream cross-section 14 - established 1978 and used through 1999 - bank erosion compromises z-post

LOL014A Lower Lookout stream cross-section 14A - established 2000 as replacement of cross-section 14 - furthest upstream LOL cross-section

LOL019 Lower Lookout stream cross-section 19 - established 2004 between post 9Z and post 10X to capture changing gravel bar deposition from the 1996 flood

LOM001 Middle Lookout stream cross-section 1 - established 1978 as furthest upstream LOM cross-section

LOM002 Middle Lookout stream cross-section 2 - established 1978 and used through 1995 - z-post washed out by high flows

LOM002A Middle Lookout stream cross-section 2A - established 1996 and used through 2000 as replacement of cross-section 2 - x-post compromised to bank erosion

LOM002B Middle Lookout stream cross-section 2B- established 2002 as comparable replacement of cross-section 2A

LOM003 Middle Lookout stream cross-section 3 - established 1978

LOM004 Middle Lookout stream cross-section 4 - established 1978

LOM005 Middle Lookout stream cross-section 5 - established 1978 and used through 1995 - x-post washed out by high flows

LOM005A Middle Lookout stream cross-section 5A - established 1996 as replacement of cross-section 5

LOM006 Middle Lookout stream cross-section 6 - established 1978 and used through 1995 - x or z-post washed out by high flows

LOM006A Middle Lookout stream cross-section 6A - established 1996 as replacement of cross-section 6

LOM007 Middle Lookout stream cross-section 7 - established 1978 and used through 1995 - z-post washed out by high flows

LOM007A Middle Lookout stream cross-section 7A - established 1996 as replacement of cross-section 7

LOM008 Middle Lookout stream cross-section 8 - established 1978 and used through 1995 - x or z-post washed out by high flows

LOM008A Middle Lookout stream cross-section 8A - established 1996 as replacement of cross-section 8

LOM009	Middle Lookout stream cross-section 9 - established 1978 and used through 1985 - alignment of cross-section changes for unknown reason
LOM009A	Middle Lookout stream cross-section 9A - established 1986 and used through 1995 as replacement of cross-section 9 - x-post lost to bank erosion
LOM009B	Middle Lookout stream cross-section 9B - established 1996 and used through 2005 as replacement of cross-section 9A - x-post lost during high flows
LOM009C	Middle Lookout stream cross-section 9C - established 2006 as replacement of cross-section 9B
LOM010	Middle Lookout stream cross-section 10 - established 1978 and used through 1995 - x-post washed out by high flows
LOM010A	Middle Lookout stream cross-section 10A - established 1996 and used through 1999 as replacement of cross-section 10 - x-post lost to bank erosion
LOM010B	Middle Lookout stream cross-section 10B - established 2000 and used through 2005 as replacement of cross-section 10A with both end points changed - x-post lost to bank erosion
LOM010C	Middle Lookout stream cross-section 10C - established 2006 as replacement of cross-section 10B
LOM011	Middle Lookout stream cross-section 11- established 1978 as furthest downstream LOM cross-section
MAC001	Mack old-growth stream cross-section 1- established 1978 as furthest downstream MAC cross-section
MAC002	Mack old-growth stream cross-section 2- established 1978
MAC003	Mack old-growth stream cross-section 3 - established 1978
MAC004	Mack old-growth stream cross-section 4 - established 1978
MAC005	Mack old-growth stream cross-section 5 - established 1978
MAC006	Mack old-growth stream cross-section 6 - established 1978
MAC007	Mack old-growth stream cross-section 7 - established 1978
MAC008	Mack old-growth stream cross-section 8 - established 1978
MAC009	Mack old-growth stream cross-section 9 - established 1978
MAC010	Mack old-growth stream cross-section 10 - established 1978
MAC011	Mack old-growth stream cross-section 11 - established 1978
MAC012	Mack old-growth stream cross-section 12 - established 1978 as furthest upstream MAC cross-section
MCC101	Mack clearcut stream cross-section 101 - established 1981 as furthest upstream MCC cross-section and below gauging station
MCC102	Mack clearcut stream cross-section 102 - established 1981
MCC103	Mack clearcut stream cross-section 103 - established 1981
MCC104	Mack clearcut stream cross-section 104 - established 1981
MCC105	Mack clearcut stream cross-section 105 - established 1981
MCC106	Mack clearcut stream cross-section 106 - established 1981
MCC107	Mack clearcut stream cross-section 107 - established 1981
MCC108	Mack clearcut stream cross-section 108 - established 1981
MCC109	Mack clearcut stream cross-section 109 - established 1981 and used through 2000 - repositioned to avoid tree affecting survey
MCC109A	Mack clearcut stream cross-section 109A - established in 2000 as replacement for cross-section 109 - x-post moved 1.15 m downstream
MCC110	Mack clearcut stream cross-section 110 - established 1981
MCC111	Mack clearcut stream cross-section 111 - established 1981

MCC112	Mack clearcut stream cross-section 112 - established 1981 but only used 1982 and 1984
MCC112A	Mack clearcut stream cross-section 112A - established in 1981 as cross-section 112, but use 112 in 1982 and 1984
MCC113	Mack clearcut stream cross-section 113 - established 1981
MCC114	Mack clearcut stream cross-section 114 - established 1981
MCC115	Mack clearcut stream cross-section 115 - established 1981
MCC116	Mack clearcut stream cross-section 116 - established 1981
MCC117	Mack clearcut stream cross-section 117 - established 1981 and used through 1982
MCC117A	Mack clearcut stream cross-section 117A - established in 1984 as replacement for cross-section 117
MCC118	Mack clearcut stream cross-section 118 - established 1981 and used through 2000 - repositioned
MCC118A	Mack clearcut stream cross-section 118A - established in 2000 as replacement for cross-section 118
MCC119	Mack clearcut stream cross-section 119 - established 1981
MCC120	Mack clearcut stream cross-section 120 - established 1981 as furthest downstream MCC cross-section
SHR000	Shorter stream cross-section 000 - established 1978 and used through 1982 as furthest downstream Shorter cross-section
SHR004	Shorter stream cross-section 004 - established 1978 and used through 1982
SHR008	Shorter stream cross-section 008 - established 1978 and used through 1982
SHR012	Shorter stream cross-section 012 - established 1978 and used through 1982
SHR016	Shorter stream cross-section 016 - established 1978 and used through 1982
SHR020	Shorter stream cross-section 020 - established 1978 and used through 1982
SHR024	Shorter stream cross-section 024 - established 1978 and used through 1982
SHR028	Shorter stream cross-section 028 - established 1978 and used through 1982
SHR032	Shorter stream cross-section 032 - established 1978 and used through 1982
SHR036	Shorter stream cross-section 036 - established 1978 and used through 1982
SHR040	Shorter stream cross-section 040 - established 1978 and used through 1982
SHR044	Shorter stream cross-section 044 - established 1978 and used through 1982
SHR100	Shorter stream cross-section 100 - established 1978 and used through 1982
SHR100P	Shorter stream cross-section 100P - second measurement of cross-section 100 in 1978
SHR100Q	Shorter stream cross-section 100Q - third measurement of cross-section 100 in 1978
SHR102	Shorter stream cross-section 102 - established 1978 and used through 1982
SHR102P	Shorter stream cross-section 102P - second measurement of cross-section 102 in 1978
SHR102Q	Shorter stream cross-section 102Q - third measurement of cross-section 102 in 1978
SHR104	Shorter stream cross-section 104 - established 1978 and used through 1982
SHR104P	Shorter stream cross-section 104P - second measurement of cross-section 104 in 1978
SHR104Q	Shorter stream cross-section 104Q - third measurement of cross-section 104 in 1978
SHR106	Shorter stream cross-section 106 - established 1978 and used through 1982

SHR106P	Shorter stream cross-section 106P - second measurement of cross-section 106 in 1978
SHR106Q	Shorter stream cross-section 106Q - third measurement of cross-section 106 in 1978
SHR108	Shorter stream cross-section 108 - established 1978 and used through 1982
SHR108P	Shorter stream cross-section 108P - second measurement of cross-section 108 in 1978
SHR108Q	Shorter stream cross-section 108Q - third measurement of cross-section 108 in 1978
SHR110	Shorter stream cross-section 110 - established 1978 and used through 1982
SHR110P	Shorter stream cross-section 110P - second measurement of cross-section 110 in 1978
SHR110Q	Shorter stream cross-section 110Q - third measurement of cross-section 110 in 1978
SHR112	Shorter stream cross-section 112 - established 1978 and used through 1982
SHR112P	Shorter stream cross-section 112P - second measurement of cross-section 112 in 1978
SHR112Q	Shorter stream cross-section 112Q - third measurement of cross-section 112 in 1978
SHR114	Shorter stream cross-section 114 - established 1978 and used through 1982
SHR114P	Shorter stream cross-section 114P - second measurement of cross-section 114 in 1978
SHR114Q	Shorter stream cross-section 114Q - third measurement of cross-section 114 in 1978
SHR116	Shorter stream cross-section 116 - established 1978 and used through 1982
SHR116P	Shorter stream cross-section 116P - second measurement of cross-section 116 in 1978
SHR116Q	Shorter stream cross-section 116Q - third measurement of cross-section 116 in 1978
SHR118	Shorter stream cross-section 118 - established 1978 and used through 1982
SHR118P	Shorter stream cross-section 118P - second measurement of cross-section 118 in 1978
SHR118Q	Shorter stream cross-section 118Q - third measurement of cross-section 118 in 1978
SHR120	Shorter stream cross-section 120 - established 1978 and used through 1982
SHR120P	Shorter stream cross-section 120P - second measurement of cross-section 120 in 1978
SHR120Q	Shorter stream cross-section 120Q - third measurement of cross-section 120 in 1978
SHR122	Shorter stream cross-section 122 - established 1978 and used through 1982
SHR122P	Shorter stream cross-section 122P - second measurement of cross-section 122 in 1978
SHR122Q	Shorter stream cross-section 122Q - third measurement of cross-section 122 in 1978
SHR124	Shorter stream cross-section 124 - established 1978 and used through 1982
SHR124P	Shorter stream cross-section 124P - second measurement of cross-section 124 in 1978
SHR126	Shorter stream cross-section 126 - established 1978 and used through 1981
SHR126A	Shorter stream cross-section 126A - established 1982 as replacement of cross-section 126
SHR126P	Shorter stream cross-section 126P - second measurement of cross-section 126 in 1978
SHR128	Shorter stream cross-section 128 - established 1978 and used through 1982
SHR130	Shorter stream cross-section 130 - established 1978 and used through 1982
SHR130P	Shorter stream cross-section 130P - second measurement of cross-section 130

in 1978

SHR132	Shorter stream cross-section 132 - established 1978 and used through 1982
SHR132P	Shorter stream cross-section 132P - second measurement of cross-section 132 in 1978
SHR134	Shorter stream cross-section 134 - established 1978 and used through 1982
SHR134P	Shorter stream cross-section 134P - second measurement of cross-section 134 in 1978
SHR136	Shorter stream cross-section 136 - established 1978 and used through 1982
SHR136P	Shorter stream cross-section 136P - second measurement of cross-section 136 in 1978
SHR138	Shorter stream cross-section 138 - established 1978 and used through 1982
SHR138P	Shorter stream cross-section 138P - second measurement of cross-section 138 in 1978
SHR140	Shorter stream cross-section 140 - established 1978 and used through 1982
SHR140P	Shorter stream cross-section 140P - second measurement of cross-section 140 in 1978
SHR142	Shorter stream cross-section 142 - established 1978 and used through 1982
SHR142P	Shorter stream cross-section 142P - second measurement of cross-section 142 in 1978
SHR144	Shorter stream cross-section 144 - established 1978 and used through 1982
SHR200	Shorter stream cross-section 200 - established 1978 and used through 1982
SHR202	Shorter stream cross-section 202 - established 1978 and used through 1982
SHR203	Shorter stream cross-section 203 - established 1978 and used through 1982
SHR206	Shorter stream cross-section 206 - established 1978 and used through 1982
SHR209	Shorter stream cross-section 209 - established 1978 and used through 1982
SHR211	Shorter stream cross-section 211 - established 1978 and used through 1982
SHR212	Shorter stream cross-section 212 - established 1978 and used through 1982
SHR215	Shorter stream cross-section 215 - established 1978 and used through 1982
SHR216	Shorter stream cross-section 216 - established 1978 and used through 1982
SHR219	Shorter stream cross-section 219 - established 1978 and used through 1982
SHR221	Shorter stream cross-section 221 - established 1978 and used through 1982
SHR222	Shorter stream cross-section 222 - established 1978 and used through 1982
SHR224	Shorter stream cross-section 224 - established 1978 and used through 1982
SHR226	Shorter stream cross-section 226 - established 1978 and used through 1982
SHR229	Shorter stream cross-section 229 - established 1978 and used through 1982
SHR231	Shorter stream cross-section 231 - established 1978 and used through 1982
SHR233	Shorter stream cross-section 233 - established 1978 and used through 1982
SHR236	Shorter stream cross-section 236 - established 1978 and used through 1982
SHR240	Shorter stream cross-section 240 - established 1978 and used through 1982
SHR244	Shorter stream cross-section 244 - established for 1982 only

SHR246	Shorter stream cross-section 246 - established 1978 and used through 1980
SHR250	Shorter stream cross-section 250 - established 1978 and used through 1982
SHR306	Shorter stream cross-section 306 - established 1978 and used through 1982
SHR313	Shorter stream cross-section 313 - established 1978 and used through 1982
SHR318	Shorter stream cross-section 318 - established 1978 and used through 1982
SHR321	Shorter stream cross-section 321 - established 1978 and used through 1982
SHR327	Shorter stream cross-section 327 - established 1978 and used through 1982
SHR330	Shorter stream cross-section 330 - established 1978 and used through 1982
SHR338	Shorter stream cross-section 338 - established 1978 and used through 1982
SHR340	Shorter stream cross-section 340 - established 1978 and used through 1982
SHR348	Shorter stream cross-section 348 - established 1978 and used through 1982
SHR354	Shorter stream cross-section 354 - established 1978 and used through 1982
LOL010B	Lower Lookout stream cross-section 10B - established 2009 as replacement of 10A - now shares x-post with 11B and 19A
LOL011B	Lower Lookout stream cross-section 11B - established 2009 as replacement of 11A and now shares x-post with 10B and 19A
LOL019A	Lower Lookout stream cross-section 19A - established in 2009 as replacement of 19 and now shares x-post with 10B and 11B
LOL010C	Lower Lookout stream cross-section 10C - established 2011 as replacement of 10B - no longer shares x-post with 11B and 19A
LOL011C	Lower Lookout stream cross-section 11C - established 2011 as replacement of 11B - no longer shares x-post with 10B and 19A
LOL019B	Lower Lookout stream cross-section 19B - established in 2011 as replacement of 19A - no longer shares x-post with 10B and 11B
LOM009D	Middle Lookout stream cross-section 9D - established 2011 as replacement of cross-section 9C
LOM010D	Middle Lookout stream cross-section 10D - established 2011 as replacement of cross-section 10C
COC002A	Cold Creek stream cross-section 2A - established 2011 as a replacement of cross-section 2 - X-post is reset due to tree fall