

Office Estimate 16' X 5' Bottomless culvert
Office Estimate min bridge 25' vertical Abutment
No FEMA - No MOA
No state stormwater permit.
→ 8-28-13 spanning structure

Print Record

Form PDR Action PDR P/P 412

GENERAL INFO

Date 5/20/2011

Div WBS
14

TIP #
Proj #
Let Date

County HAYWOOD

Bridge # 314

Road # SR 1355

Road Name: PANTHER CREEK RD.

Stream ARRINGTON BRANCH

Req Type Name Assigned To Checked By
Prior Survey NO Survey Date Recommendation
Study by Scour Section

DRAINAGE INFO

Flood Zone Panel # Study Type NO STUDY Study Date

IS THERE A HEC RAS TYPE MODEL ☐

BM info

Quad FINES CREEK

Drainage Area 1.61 Sq. Mi. DA Source QUAD

Q25 562 cfs Q 50 674 cfs Q100 808 cfs

METHOD USGS REGRESSION EQUATION BASIN TYPE REGION 2

EXISTING INFO

Location .5 MI. NORTH JCT. SR 1351

GPS CO-ORD(Dec) 35.661139 82.983028

OAL 17' B-C 7' Depth 1'

ADT 830 07 Skew 120 Stream Slope

STRUCTURE TYPE TIMBER DECK/TIMBER JOISTS

Spans 1@16'-6"

UP STREAM INFO

US Structure US Road # US Str. OAL

US Location

US B-C US Prior survey

DOWN STREAM INFO

DS Structure DS Road # DS Str. OAL

DS Location

DS B-C DS Prior survey SCS Watershed

ENVIRONMENTAL INFO

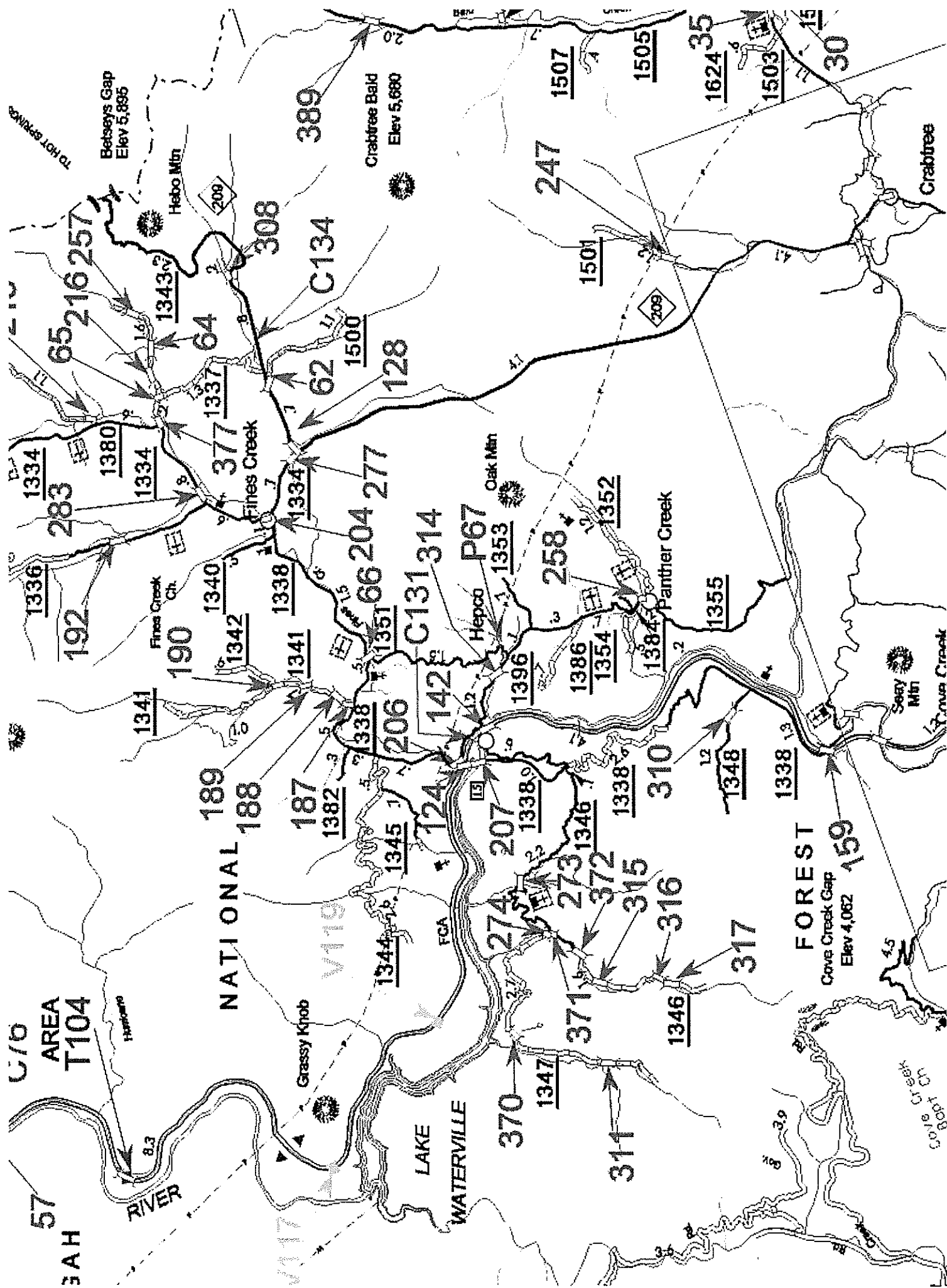
Trout Stream NO Anadromous Fish NO Primary Nursery Area NO

High Quality Waters NO NUTRIENT SENSITIVE WATERS NO

NEAR WATER SUPPLY INTAKE NO CAMA COUNTY NO

STREAM CLASSIFICATION C

DENR RIVER BASIN FRENCH BROAD





NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION Priority Maintenance Request

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY HAYWOOD BRIDGE NUMBER 430314 INSPECTION CYCLE 2 YRS

ROUTE SR1355 ACROSS CREEK M.P. 0

LOCATION .5 MI.N.JCT.SR1351

SUPERSTRUCTURE TIMBER FLOOR ON TIMBER JOISTS

SUBSTRUCTURE E.BTS:TIM.CAPS/TIM.POST&SILLS/CONC.FOOTINGS

SPANS 1@16'-6

LONGITUDE 82° 58' 58.9"

LATITUDE 35° 39' 40.1"

PRESENT CONDITION FAIR

INVENTORY RATING

INSPECTION DATE 06/19/2009

OPERATING RATING

PRESENT POSTING Not Posted

PROPOSED POSTING

COMPUTER UPDATE

ANALYSIS DATE

POSTING LETTER DATE

SUFFICIENCY RATING

OTHER SIGNS PRESENT Delineators



NORTH

SIGN NOTICE
ISSUED FOR

NUMBERED
REQUIRED

<u>No</u>	WEIGHT LIMIT	<u></u>
<u>No</u>	DELINEATORS	<u></u>
<u>No</u>	NARROW BRIDGE	<u></u>
<u>No</u>	ONE LANE BRIDGE	<u></u>
<u>No</u>	LOW CLEARANCE	<u></u>

BRIDGE MANAGEMENT UNIT
DATA ON EXISTING STRUCTURE

Run Date: 09/22/2009

COUNTY : HAYWOOD		DIV : 14		DIST : 2		STRUCTURE NUMBER : 430314		LENGTH : 17 FEET	
ROUTE CARRIED : SR1355				FEATURE INTERSECTED : CREEK					
LOCATED : .5 MI.N.JCT.SR1351				BRIDGE NAME :					
FUNC. CLASS : 09		SYST.ON : NFA		SYST.UNDER : NFA		ADT & YR : 830 2007		RAIL TYPE : LT 227 RT 227	
BUILT : 1961		BY : BMU		PROJ : 5.9451		FED.AID PROJ :		DESIGN LOAD : Other or Unknown	
REHAB :		BY :		PROJ :		ALIGNMENT : TAN		SKEW : 120	
								LANES : ON 2 UNDER	
NAVIGATION : VC 0.0 FT HC 0.0 FT				HT. CRN. TO BED : 7 FT				WATER DEPTH : 1 FT	
SUPERSTRUCTURE : TIMBER FLOOR ON TIMBER JOISTS									
SUBSTRUCTURE : E.BTS:TIM.CAPS/TIM.POST&SILLS/CONC.FOOTINGS									
SPANS : 1@16'-6									
BEAMS OR GIRDERS : 23 LINES 6X12 TIMBER JOISTS @ 1' CENTERS									
FLOOR : 3X4 TIM/4 AWS		ENCROACHMENT :				DECK (OUT TO OUT) : 24.2 FT			
CLEAR ROADWAY : 23.2 FT		BETWEEN RAILS : 23.8 FT				SIDEWALK OR CURB : LT 0.3 FT RT 0.3 FT			
VERT.CL.OVER : 99 FT 99 IN		VERT.CL.UNDER : 00 FT 00 IN		HOR.CL.UNDER : 0.0 FT					
INV.RTG. : HS-1		OPE.RTG. : HS-1		CONTR.MEMBER : Ext.jsts		POSTED : SV 11		TTST 20 DATE 09/18/2009	
SYSTEM : Secondary S.R. Route						GREEN LINE ROUTE : N			
2ND OPENING :		3RD OPENING :		4TH OPENING :		5TH OPENING :			
REMARKS :									

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 430314 County: HAYWOOD Date: 06/19/2009 By: RWS

Record sounding from top of rail. Other location if needed: _____

Distance from Highwater Mark to top of rail: _____ Location of Highwater Mark: _____

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	2.8				
0.3	2.8				
0.3	7.6				
1.8	7.6				
1.8	8.7	Water Surface/Water Edge (WSWE)			
1.8	8.8				
7	9.7				
10	8.7	Water Surface/Water Edge (WSWE)			
12	8.5				
14.7	7.8				
14.701	6.9				
16.3	6.9				
16.301	2.8				
16.7	2.8				

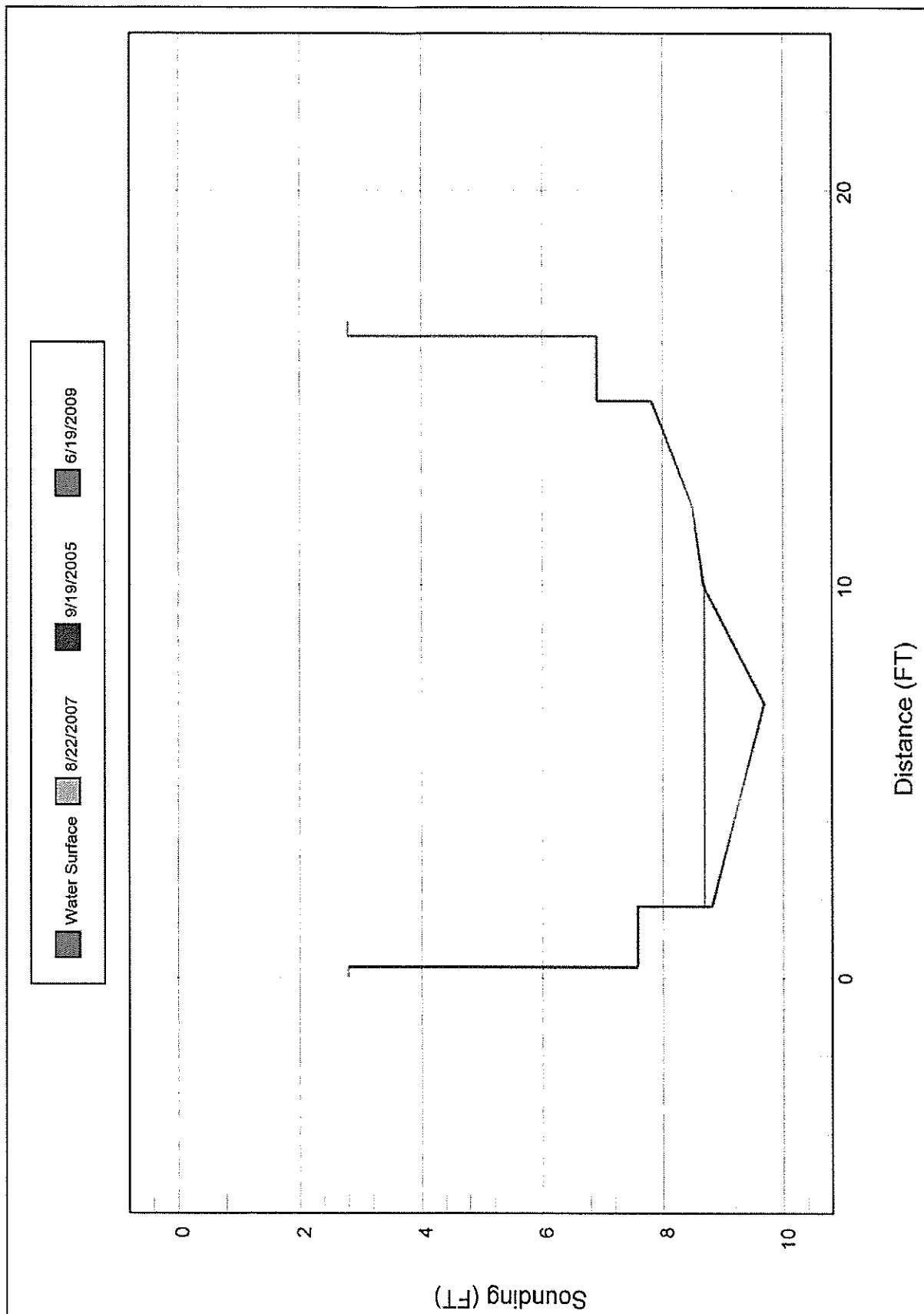
Bridge: 430314

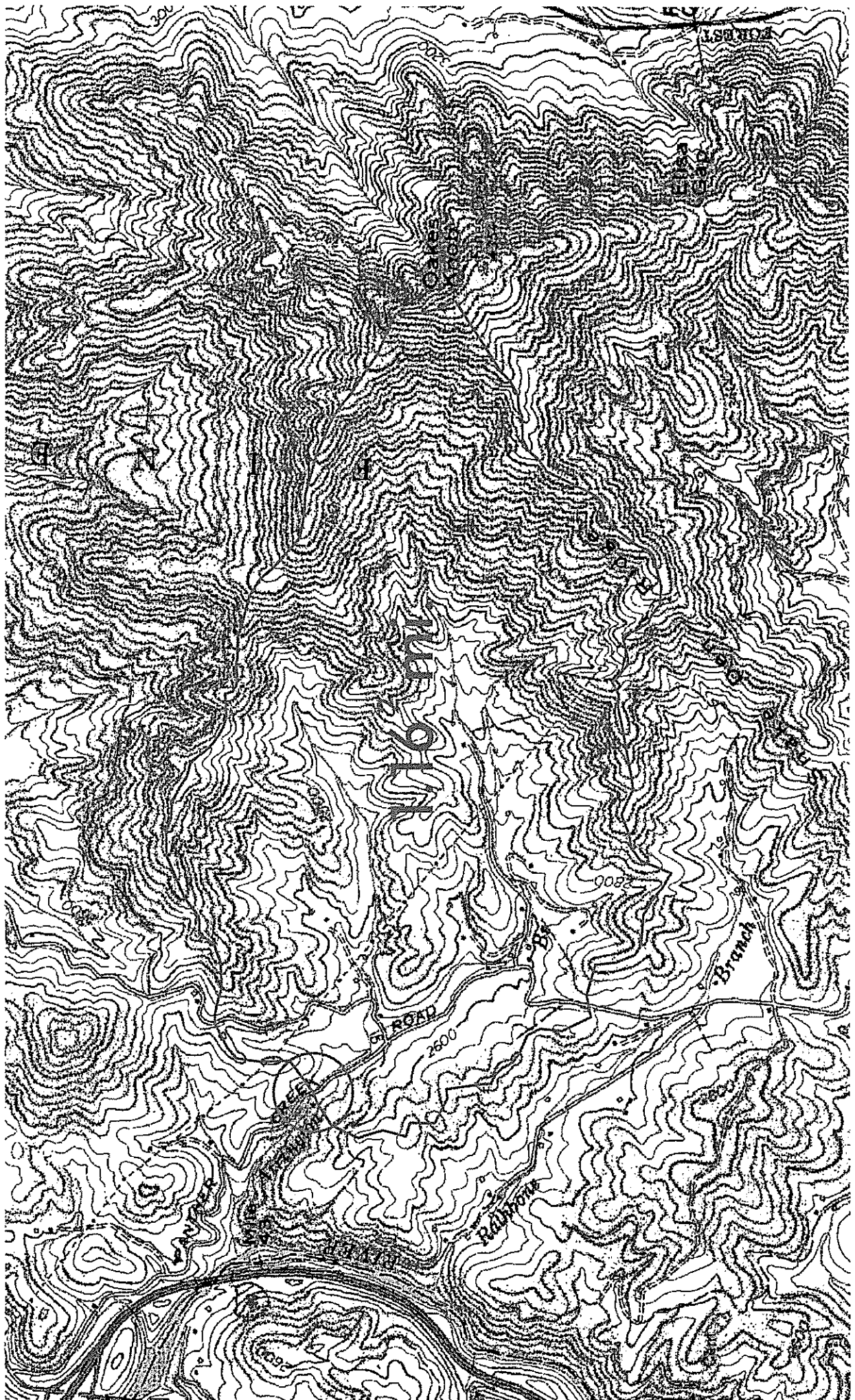
County HAYWOOD

Date: 06/19/2009

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)





This spreadsheet computes the 50-, 20-, 10-, 4-, 2-, 1-, 0.5-, and 0.2-percent chance exceedance flows for an ungaged site in Georgia, South Carolina, and North Carolina. The spreadsheet also includes the 95-percent prediction intervals, the minus and plus standard error of prediction intervals, and the average standard error of prediction. To use the spreadsheet, enter requested information in the yellow cells below.

Enter a site-description name: HAYWOOD CO., BRIDGE 314, ARRINGTON

Enter the explanatory variables:

Drainage area, in square miles	1.61
Percent of basin in Hydrologic Region 1	
Percent of basin in Hydrologic Region 2	100
Percent of basin in Hydrologic Region 3	
Percent of basin in Hydrologic Region 4	
Percent of basin in Hydrologic Region 5	

Applicable range of drainage area is 1 to 9,000 square miles.
Hydrologic Region 1 corresponds to the USEPA Level III Ridge and Valley and Piedmont ecoregions
Hydrologic Region 2 corresponds to the USEPA Level III Blue Ridge ecoregion
Hydrologic Region 3 corresponds to the USEPA Level IV Sand Hills ecoregion
Hydrologic Region 4 corresponds to the USEPA Level III Southeastern, Middle Atlantic Coastal, and Southern Coastal Plain ecoregions
Hydrologic Region 5 corresponds to the lower portion of the USEPA Level IV Tifton Uplands ecoregion.

Sum of region percentages	100
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Drainage area check DRAINAGE AREA WITHIN APPLICABLE LIMITS.
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Percent chance exceedance	Percent chance exceedance flow, in ft ³ /s	Lower 95 percent prediction interval flow, in ft ³ /s	Upper 95 percent prediction interval flow, in ft ³ /s	-S _{PI} (percent)	+S _{PI} (percent)	Average S _{PI} (percent)
50	159	81	312	-29.1	41.0	35.4
20	298	153	581	-28.8	40.5	35.0
10	409	205	815	-29.6	42.1	36.3
4	562	270	1,170	-31.2	45.4	38.8
2	674	311	1,460	-32.6	48.4	41.1
1	808	357	1,830	-34.1	51.7	43.5
0.5	926	392	2,190	-35.5	55.1	46.1
0.2	1,110	442	2,790	-37.5	60.0	49.7

