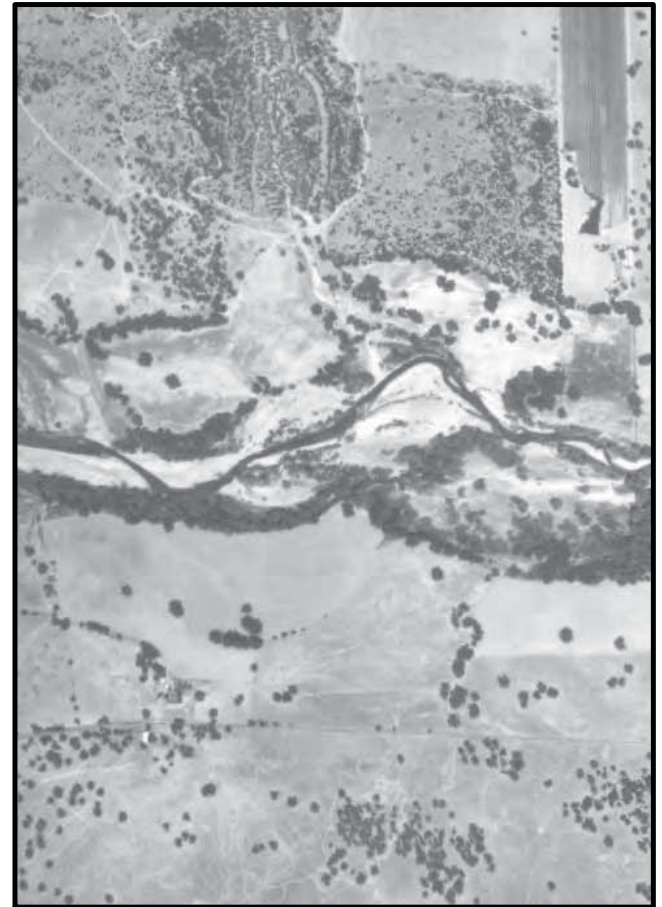




1938 BAKER PROPERTY



1952 BAKER PROPERTY



1966 BAKER PROPERTY

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graham@gnahydrology.com

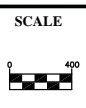
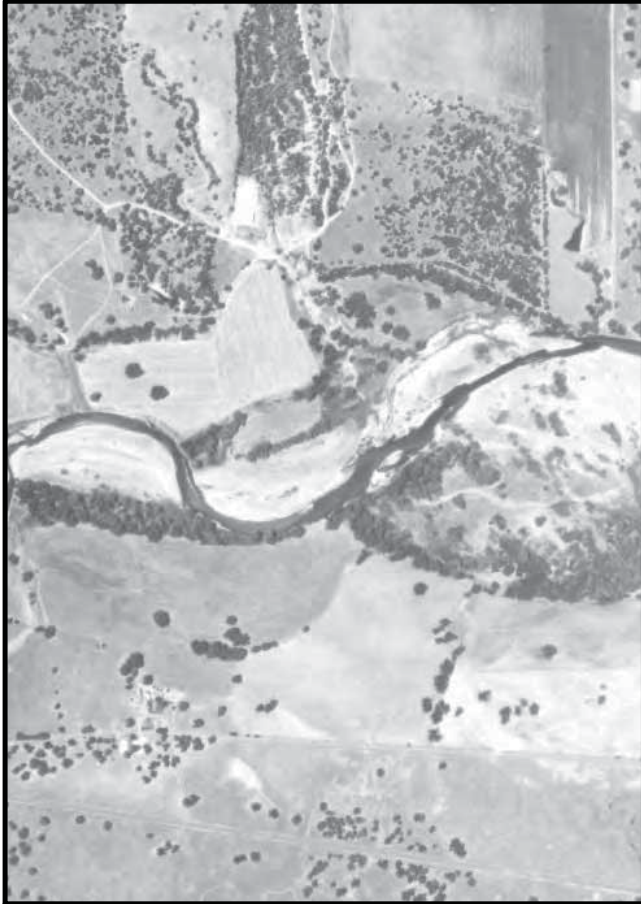


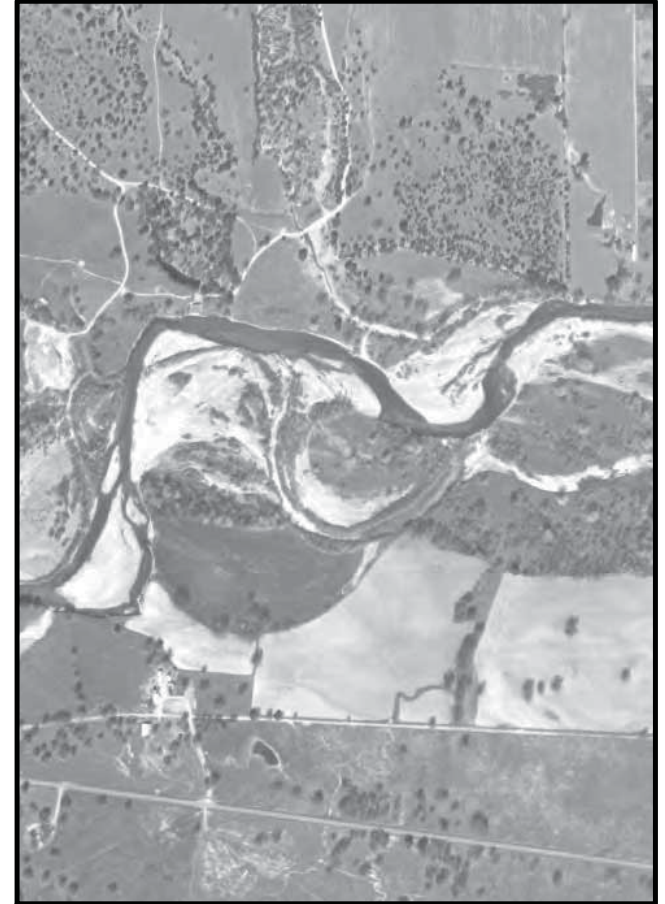
FIGURE
14a



1981 BAKER PROPERTY



1988 BAKER PROPERTY



2002 BAKER PROPERTY

**COTTONWOOD CREEK AERIAL PHOTO COMPARISON
BAKER PROPERTY, 1939-2002**

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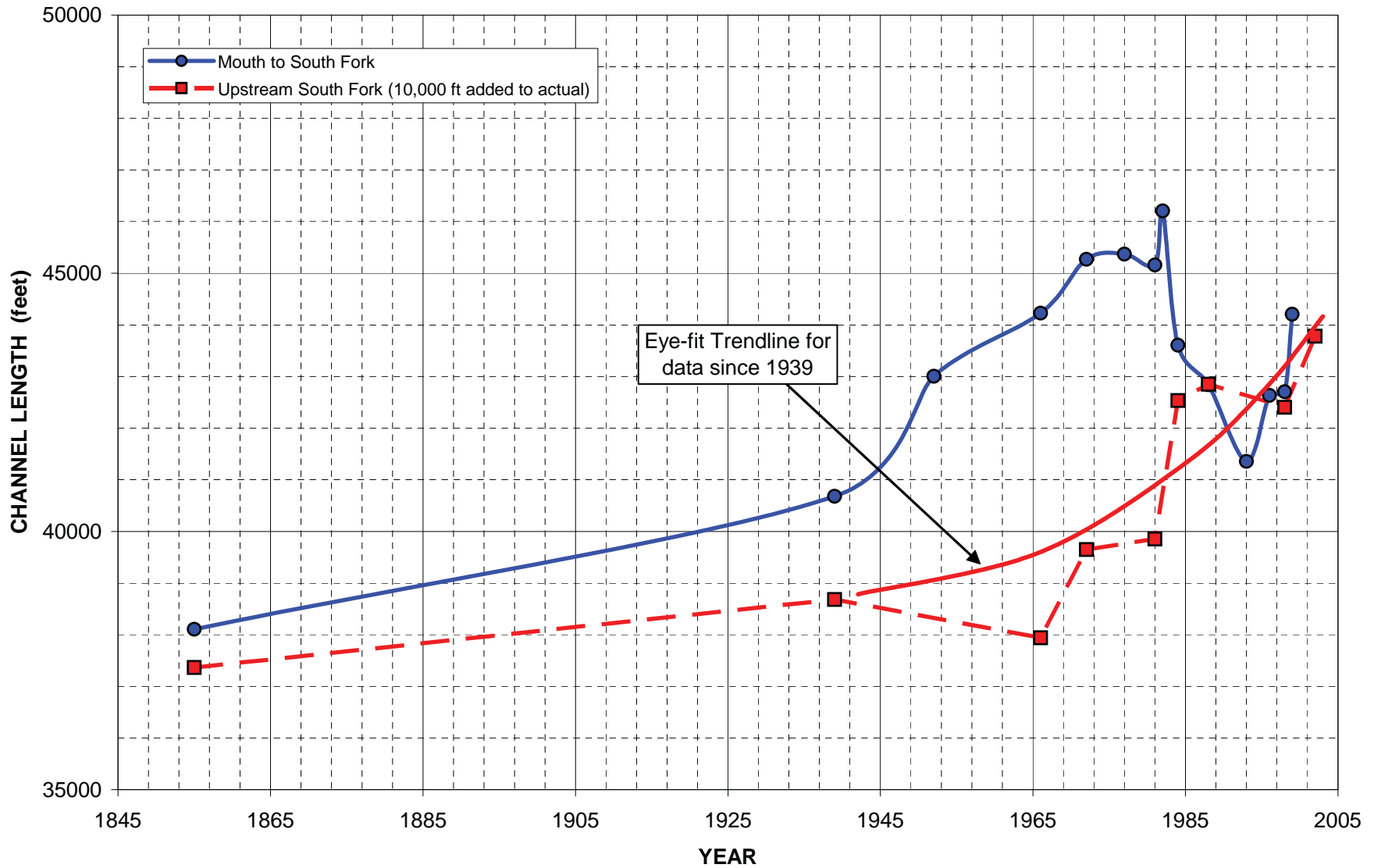
SCALE



FIGURE

14b

COTTONWOOD CREEK
Channel Lengths by Reach, 1855-2002



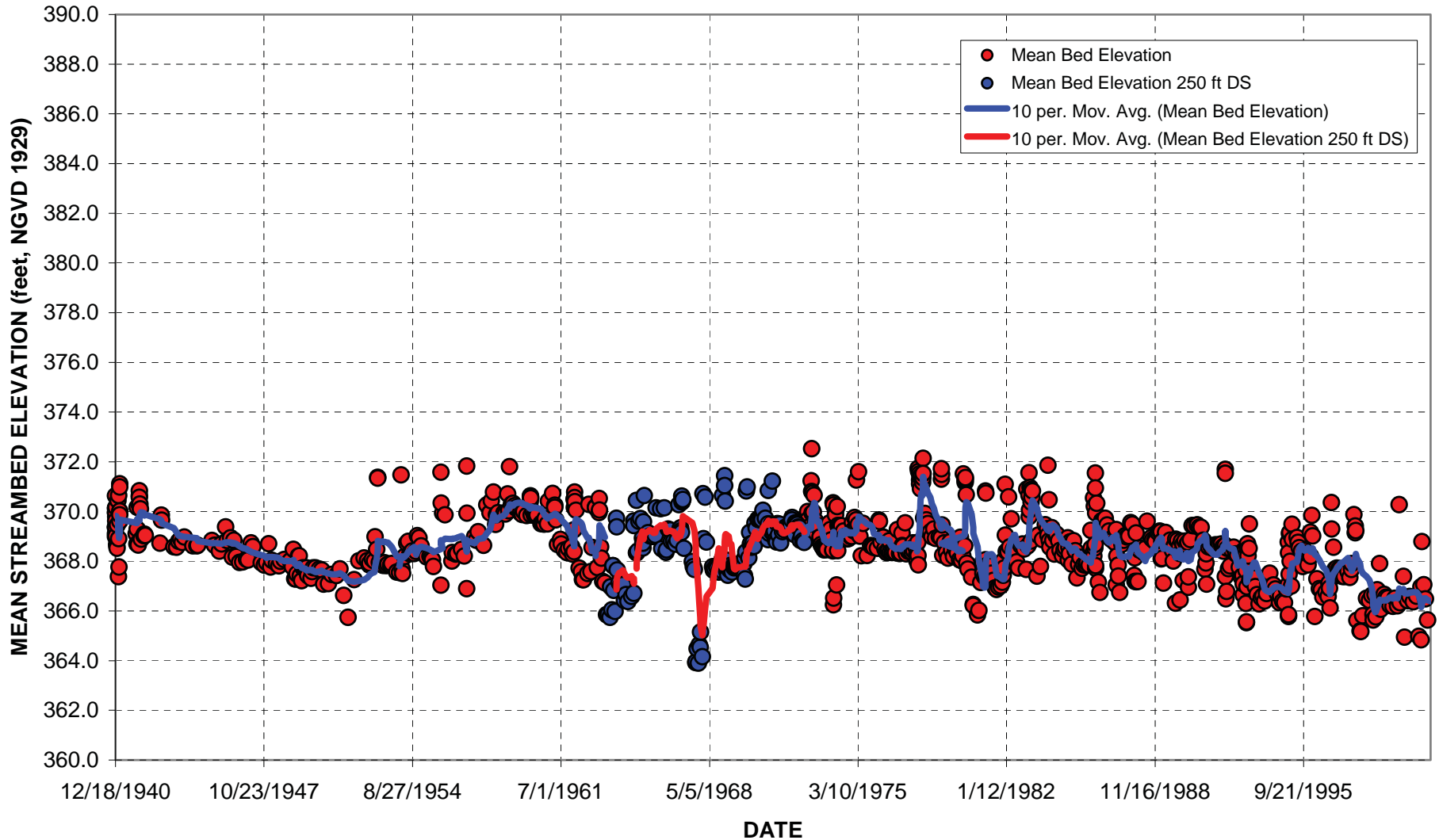
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FIGURE

15

COTTONWOOD CREEK near COTTONWOOD CALIFORNIA
Mean Bed Elevation for USGS gage # 11376000, All Discharge Measurements

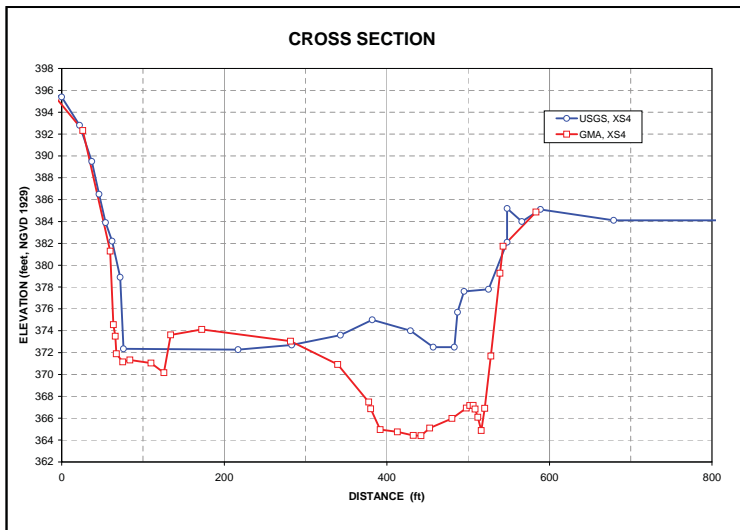
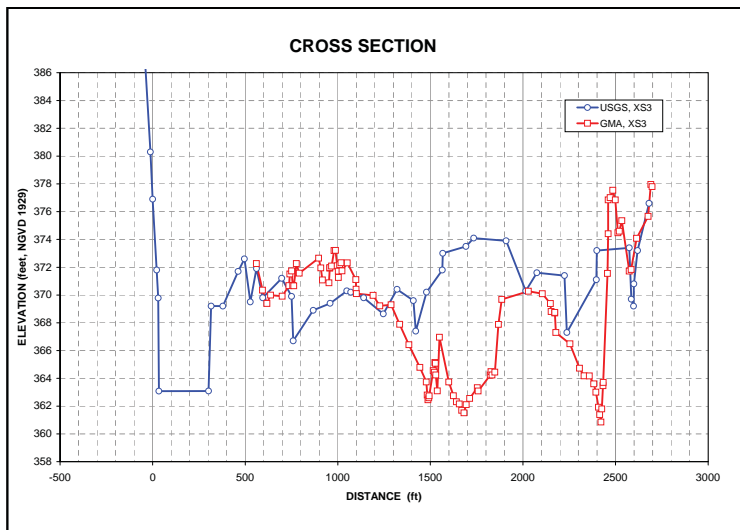
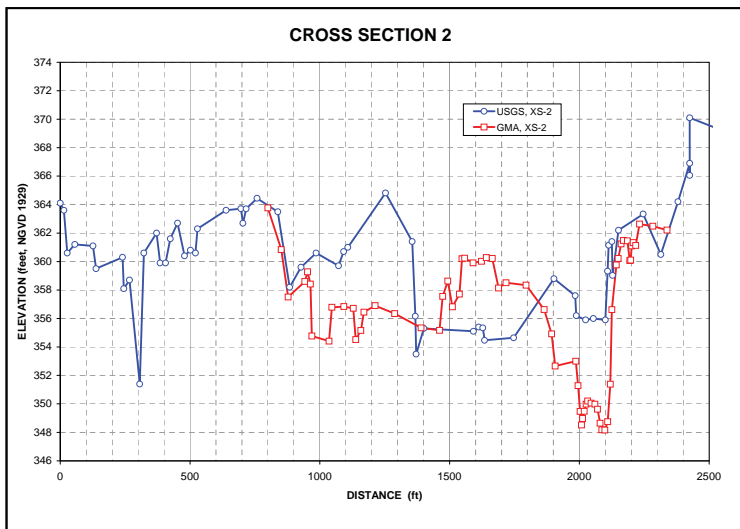
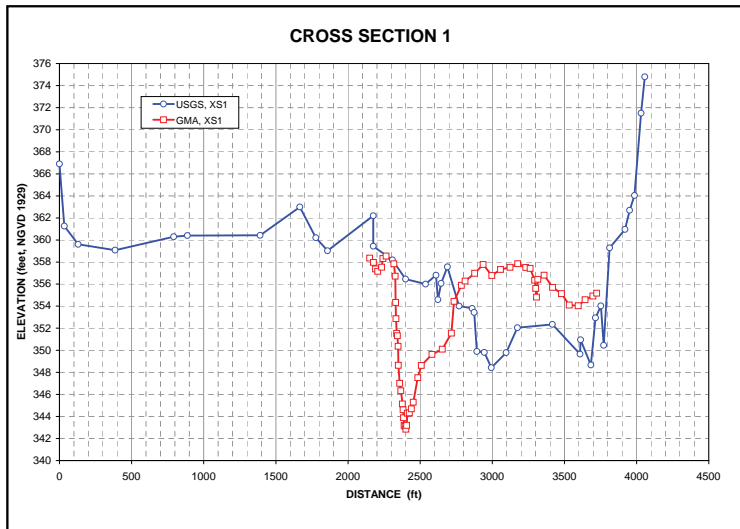


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FIGURE

16



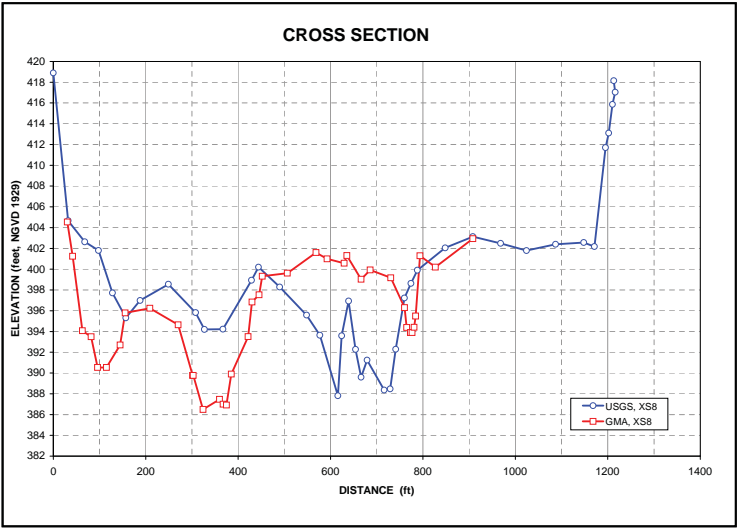
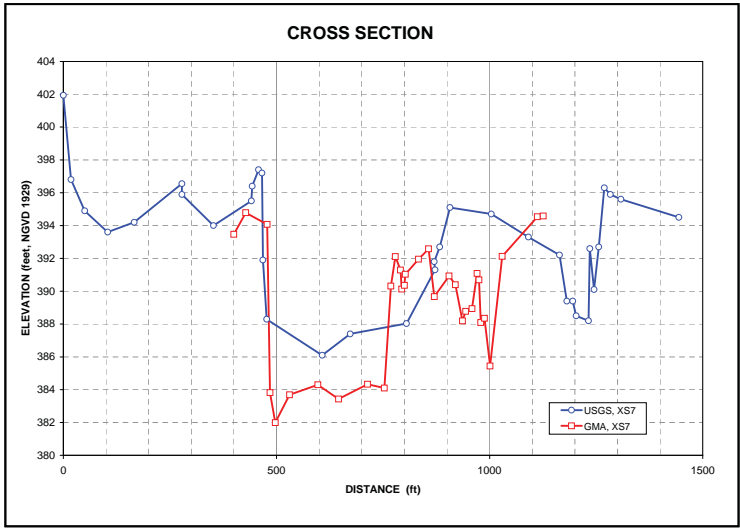
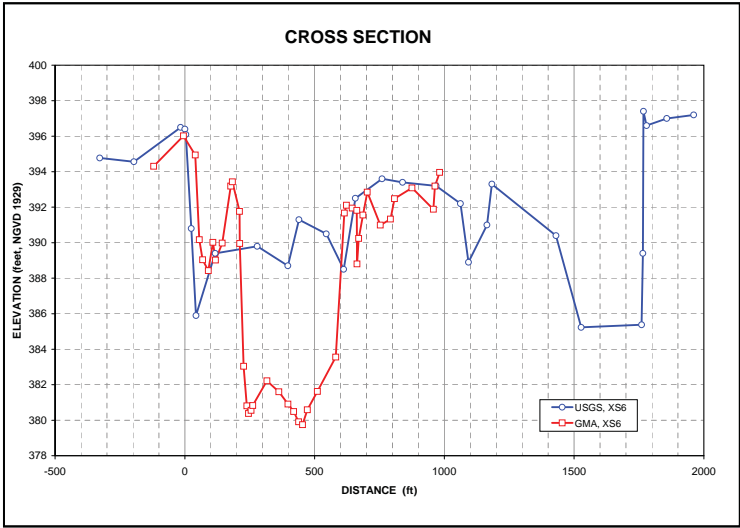
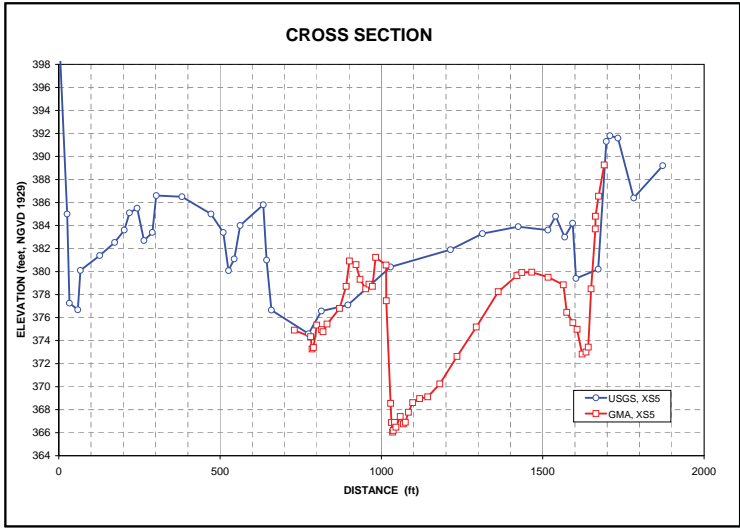
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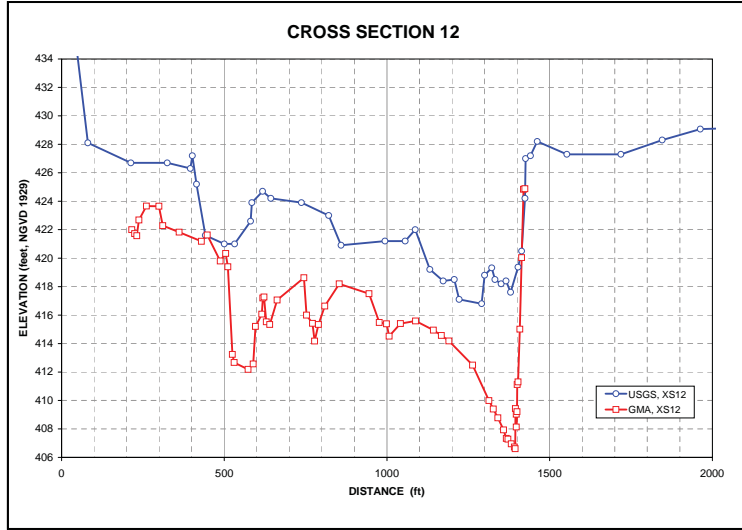
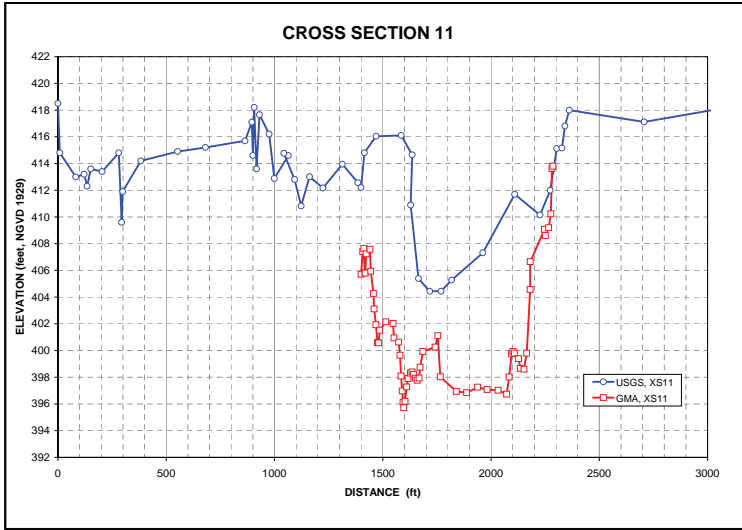
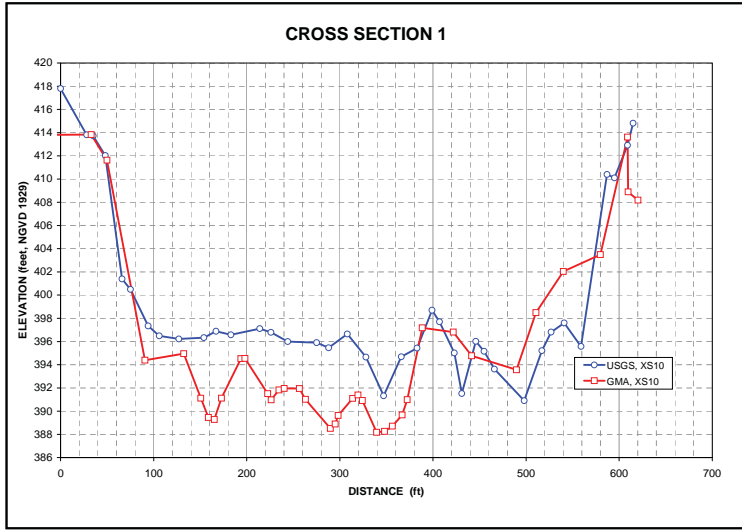
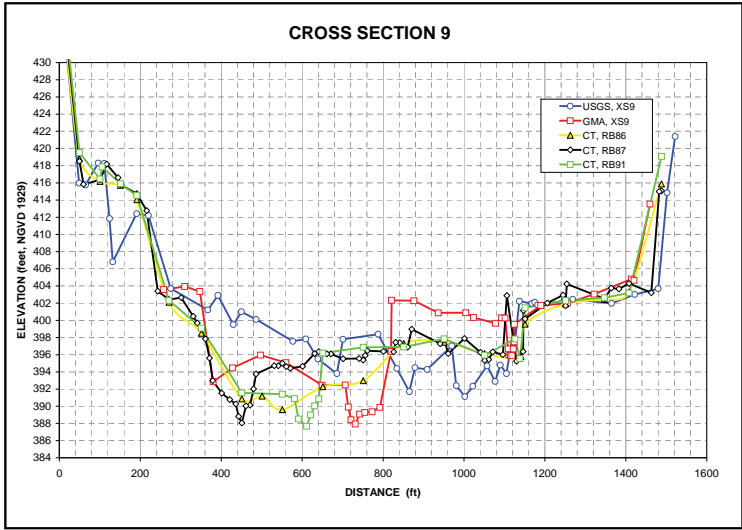
FIGURE

17a



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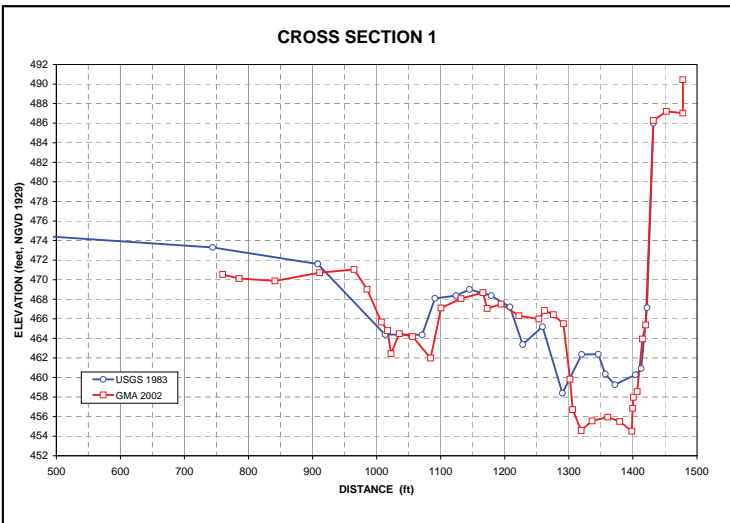
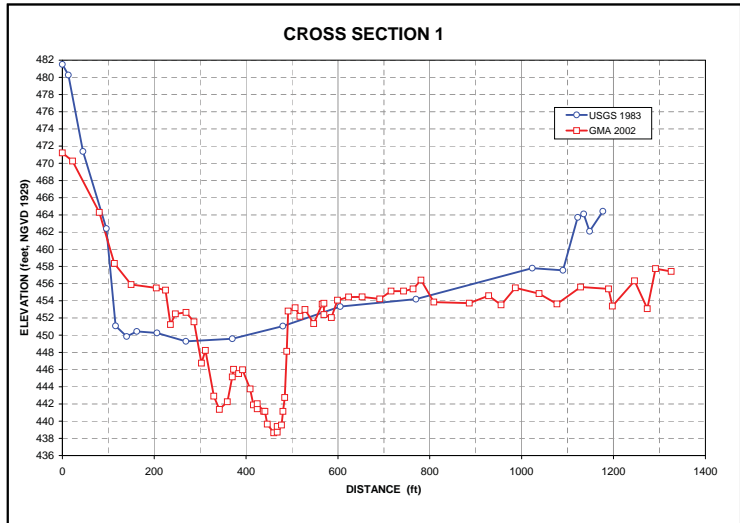
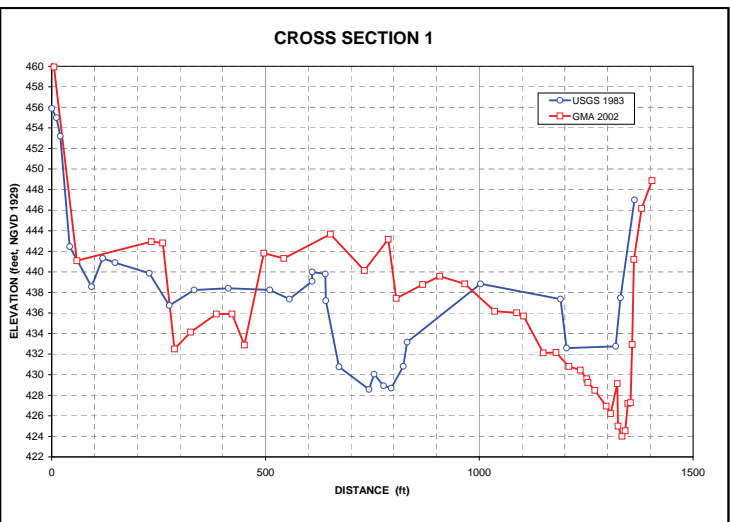
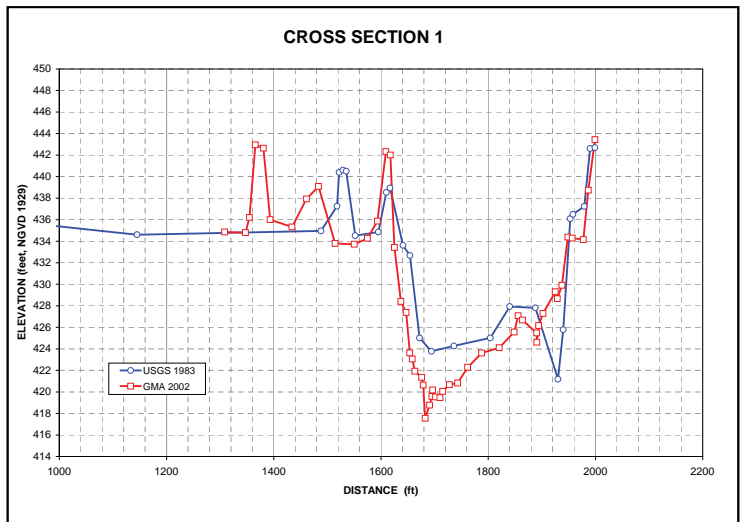


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FIGURE

17c

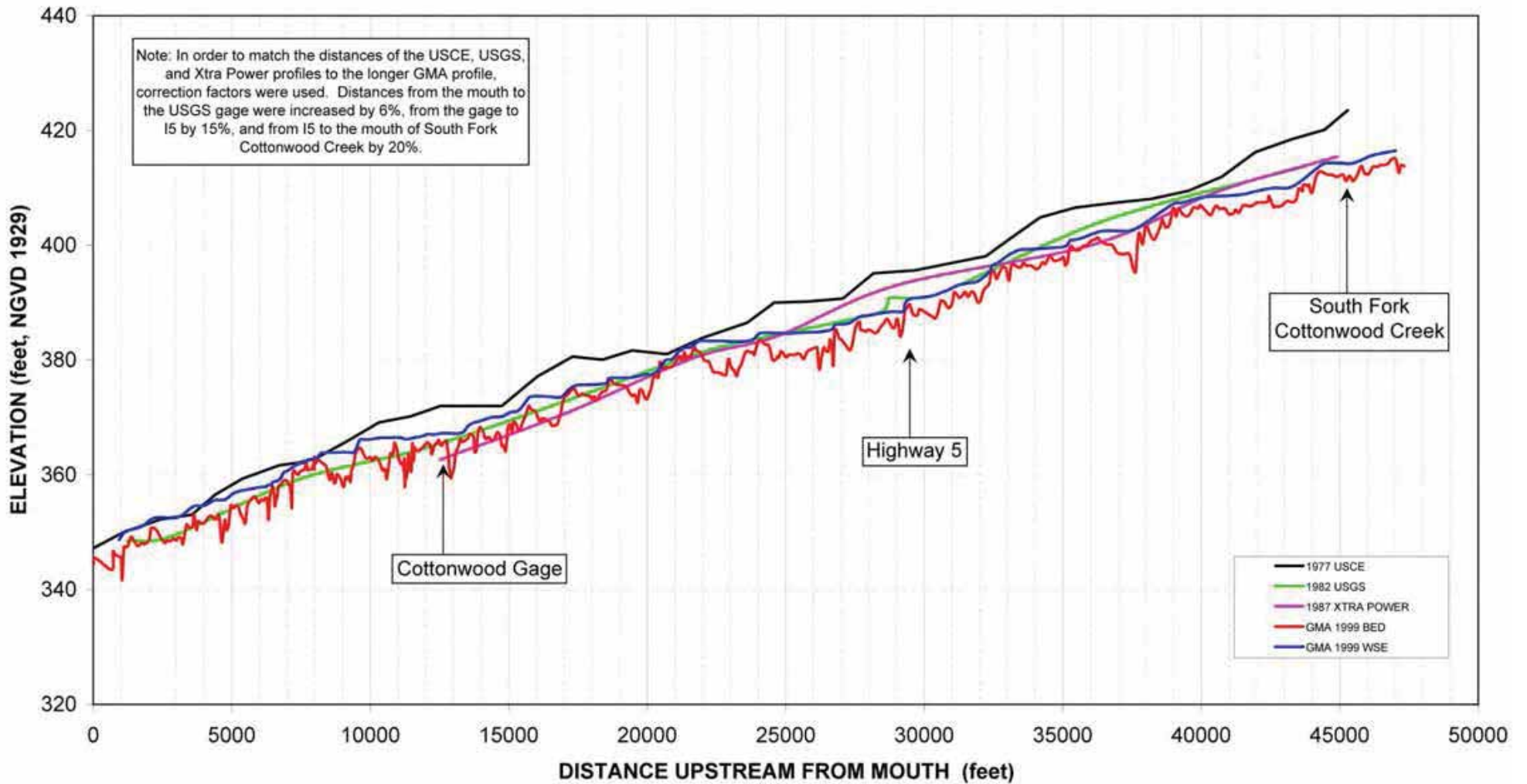


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FIGURE
17d

COTTONWOOD CREEK LONGITUDINAL PROFILES



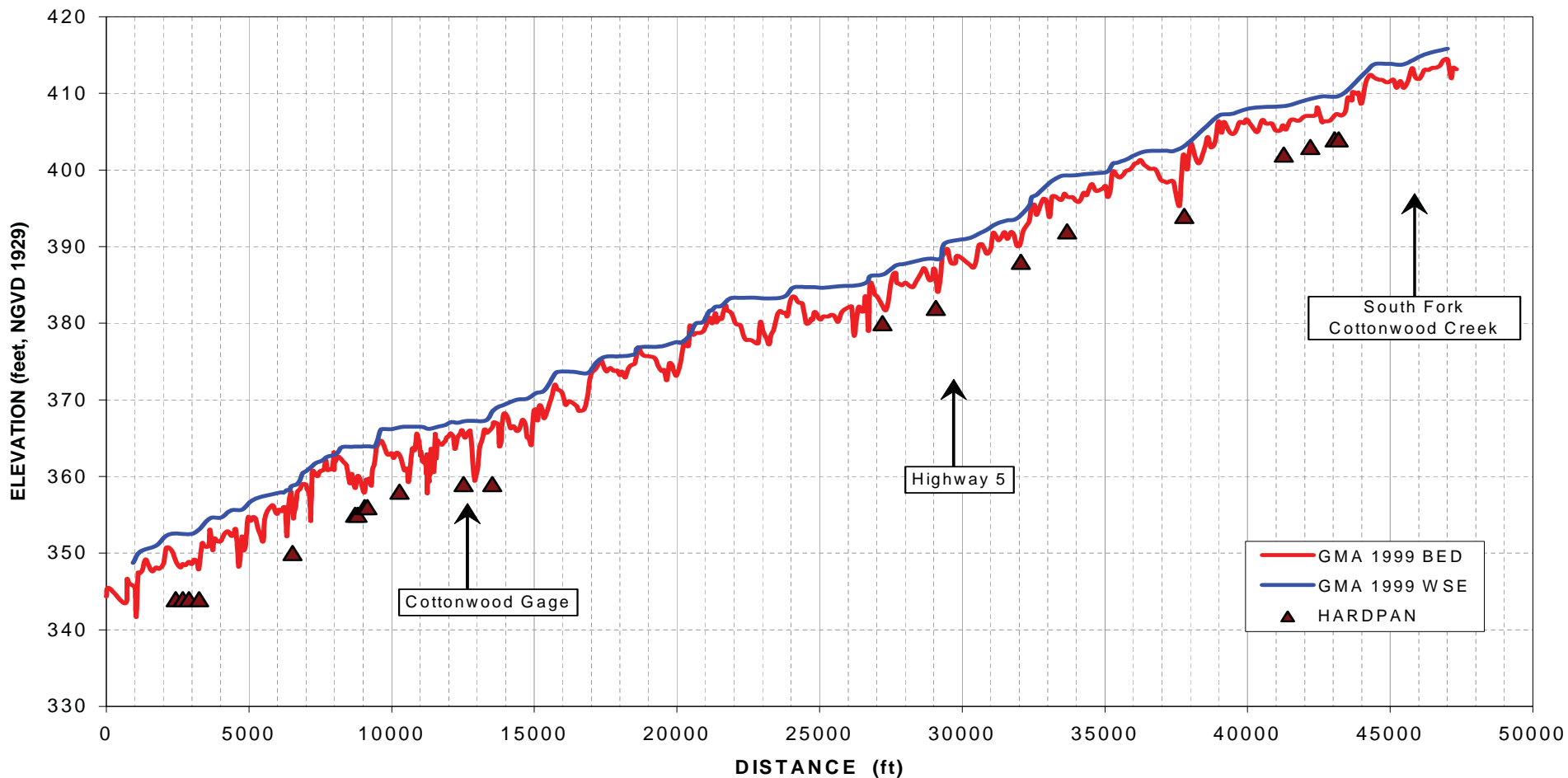
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FIGURE

18a

**1999 COTTONWOOD CREEK LONGIT DINAL ROFILE
WIT ARD ANE OS RES DOWNSTREAM SF COTTONWOOD CREEK**

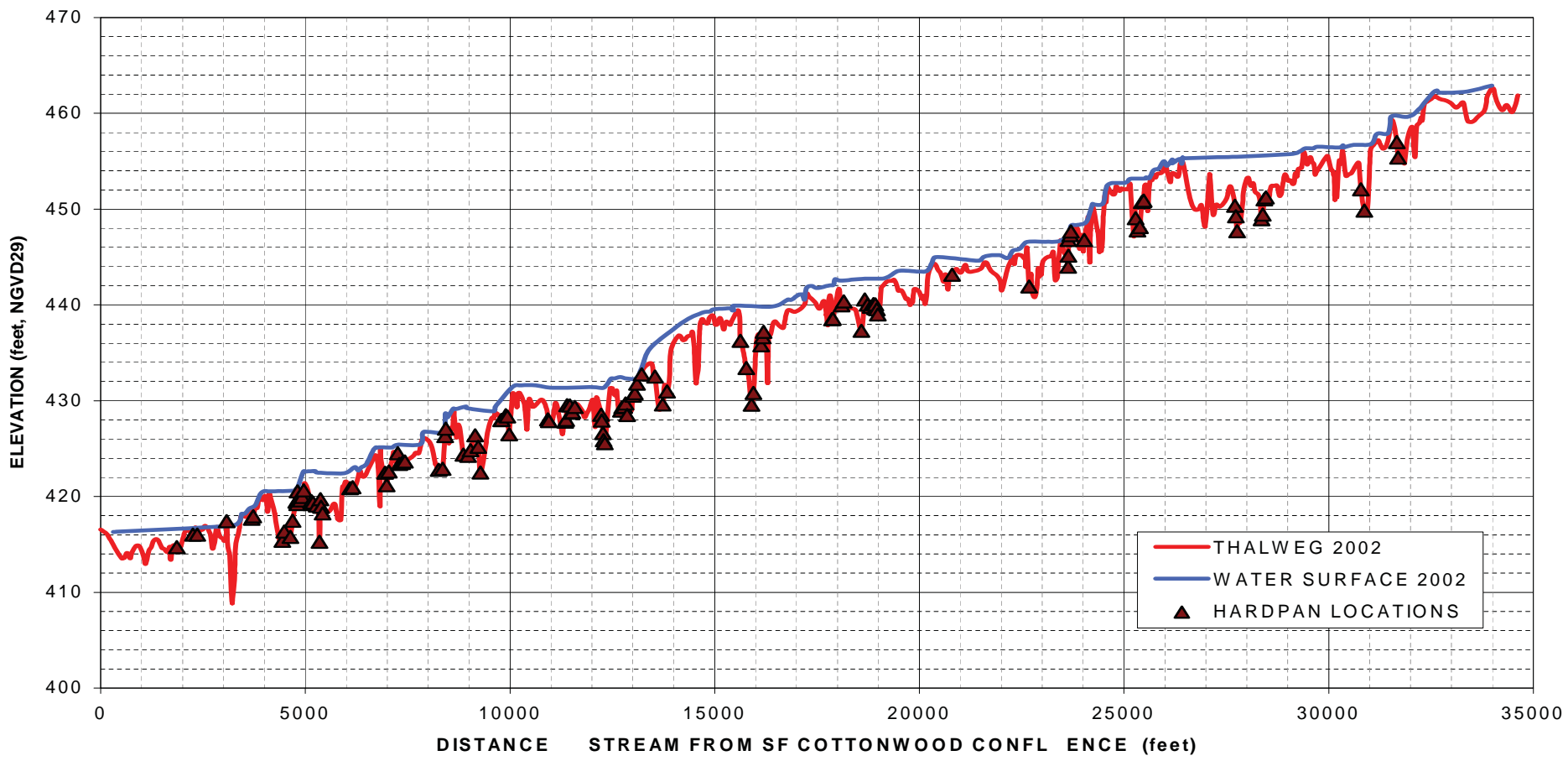


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**FIGURE
18b**

LONGITUDINAL PROFILE WITH HARDPAN LOCATIONS
 STREAM OF SOUTH FORK COTTONWOOD



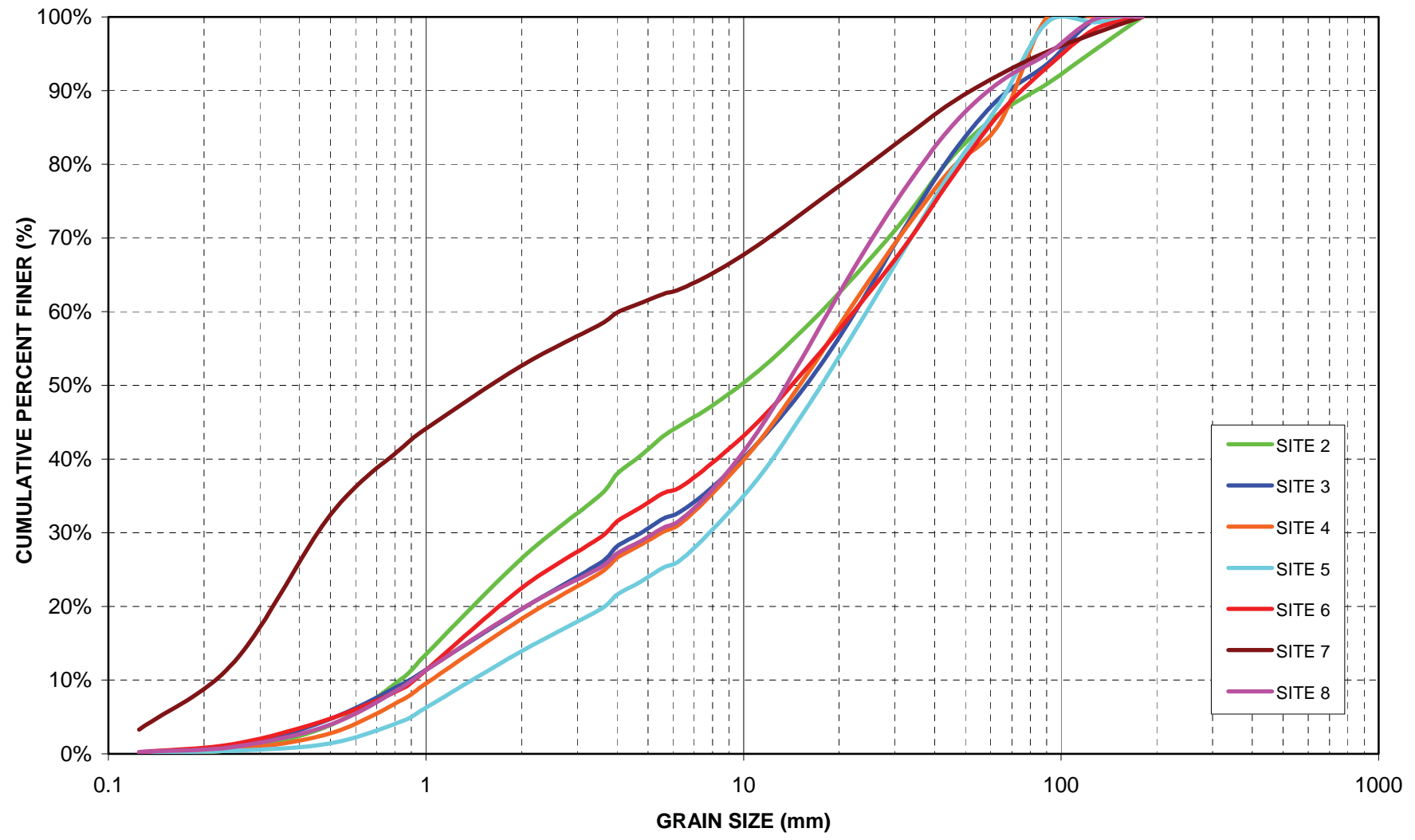
2002 GMA PROFILE WITH HARDPAN EXPOSURES

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FIGURE
18c

**COTTONWOOD CREEK BULK SAMPLING
COMBINED SUBSURFACE SAMPLES**



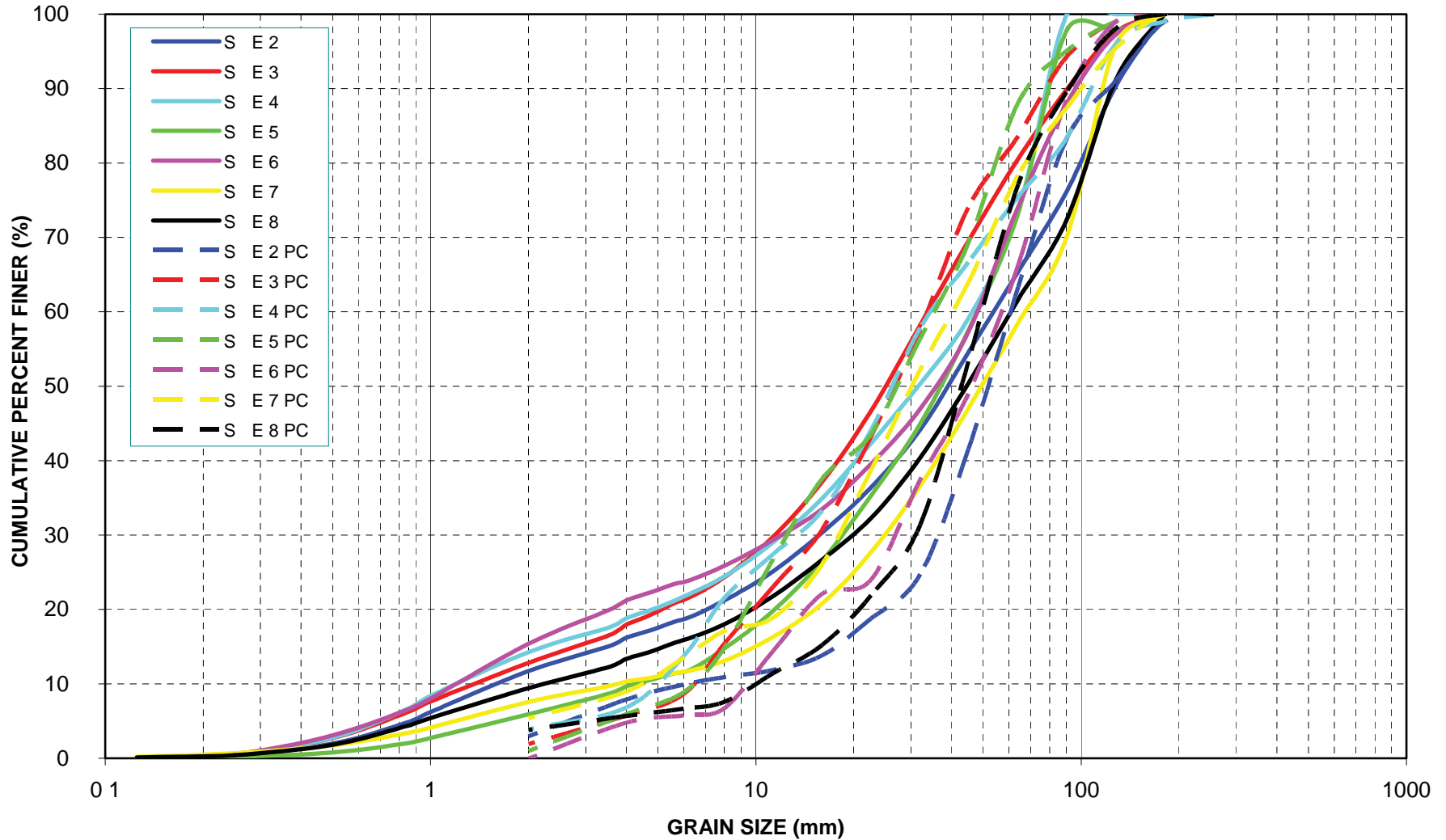
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FIGURE
19

COTTONWOOD CREEK BULK SAMPLING

Comparison of Coarse Surfaces and Particle Counting Site



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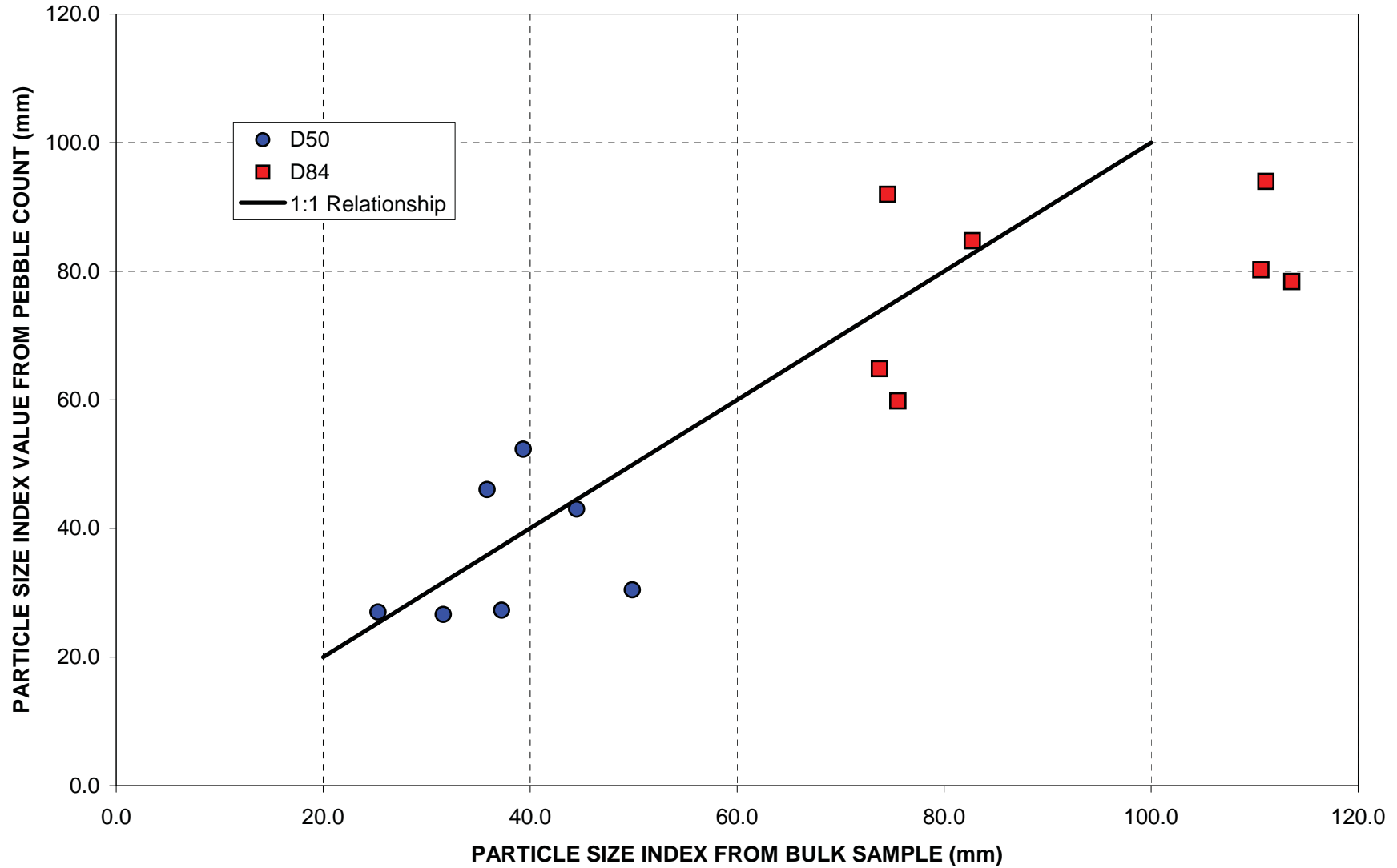
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FIGURE

0

COTTONWOOD CREEK SUBSTRATE

Comparison of Particle Size Indices from Bulk Samples and Pebble Counts for 7 Sites



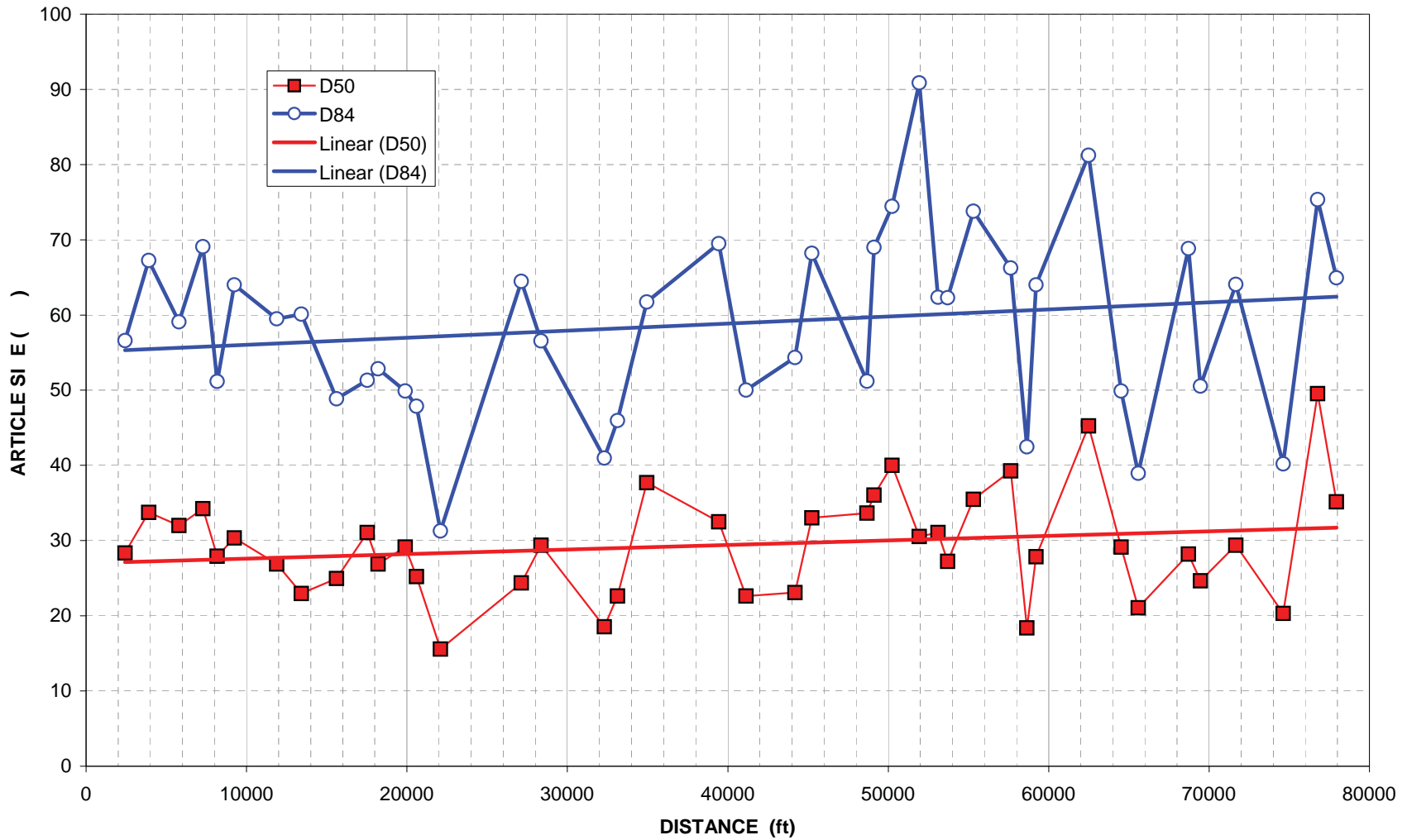
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FIGURE

1

COTTONWOOD CREEK S BSTRATE
 Pebble Count Particle Size Parameters vs. Long Profile Distance

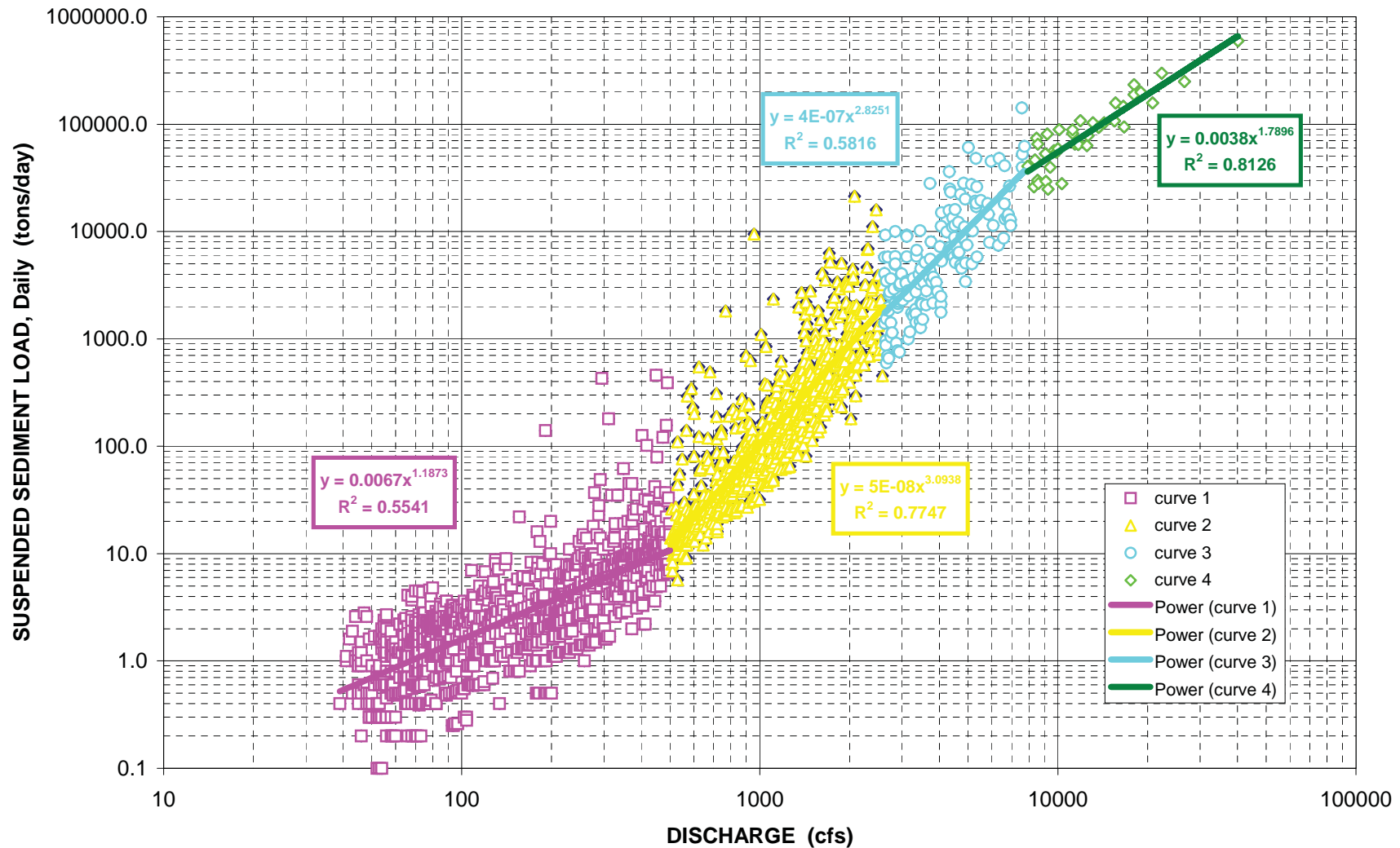


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FIGURE

COTTONWOOD CREEK NEAR COTTONWOOD
 Suspended Sediment Rating Curve, USGS Gage #11376000, WY 1963 - 1980



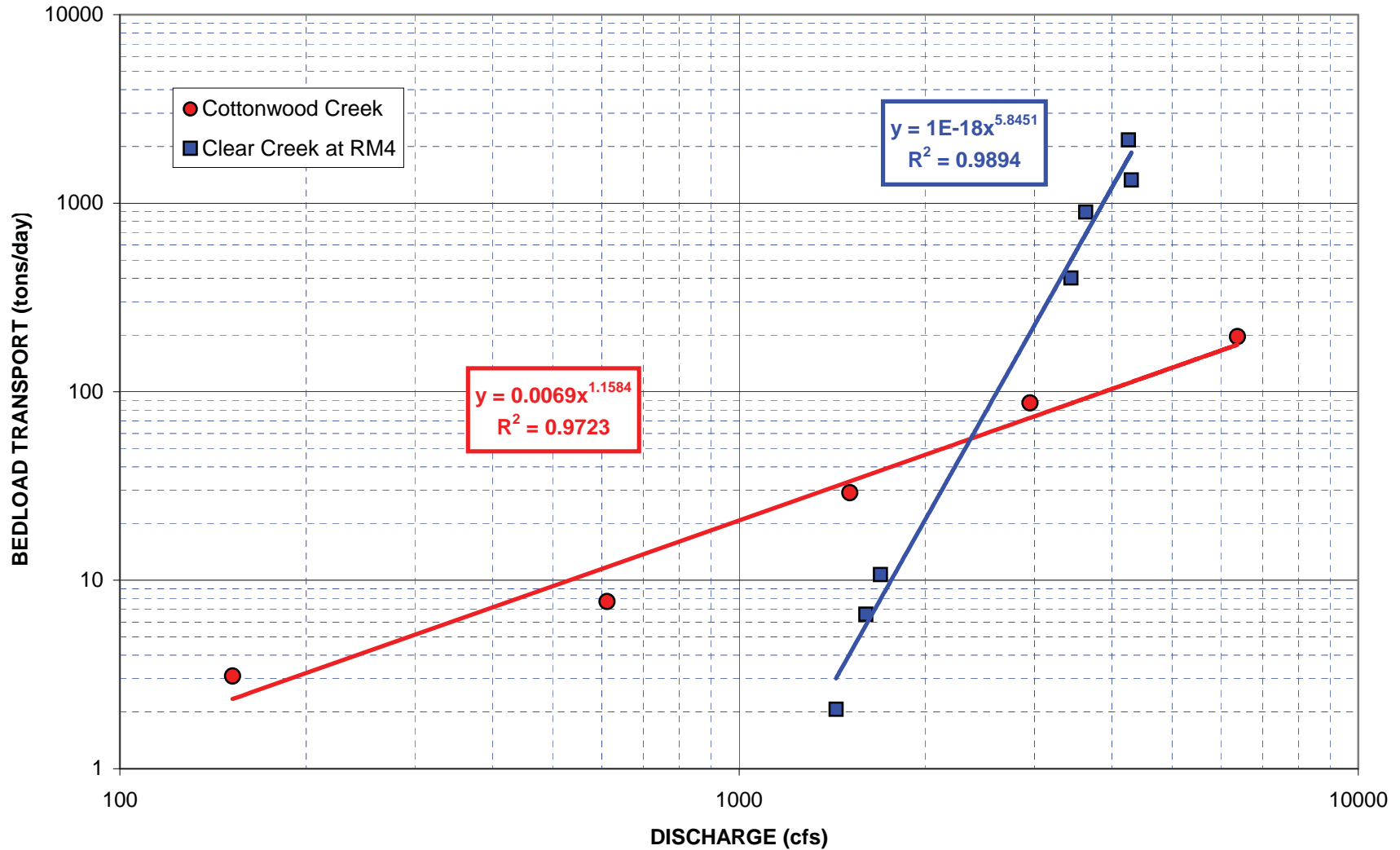
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FIGURE

COTTONWOOD CREEK near COTTONWOOD

Comparison of Bedload Rating Curve, USGS Gage #11376000, WY 1977 -1979 and Clear Creek WY2003 Data



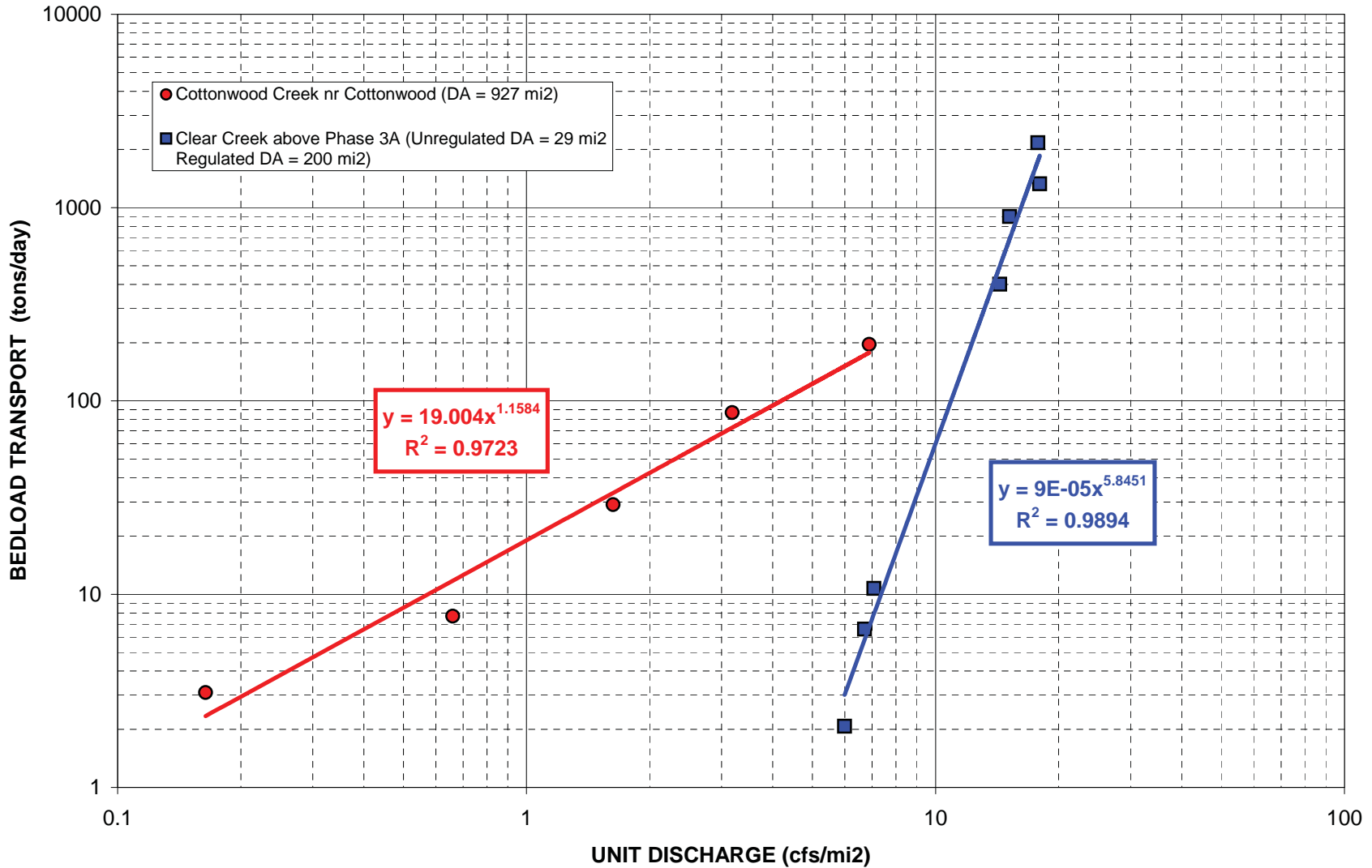
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FIGURE

COTTONWOOD CREEK SEDIMENT TRANSPORT

Comparison of Cottonwood Creek and Clear Creek Unit Discharge Bedload Transport Rates



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FIGURE



1999 AERIAL PHOTO OF BENGARD RANCH VICINITY

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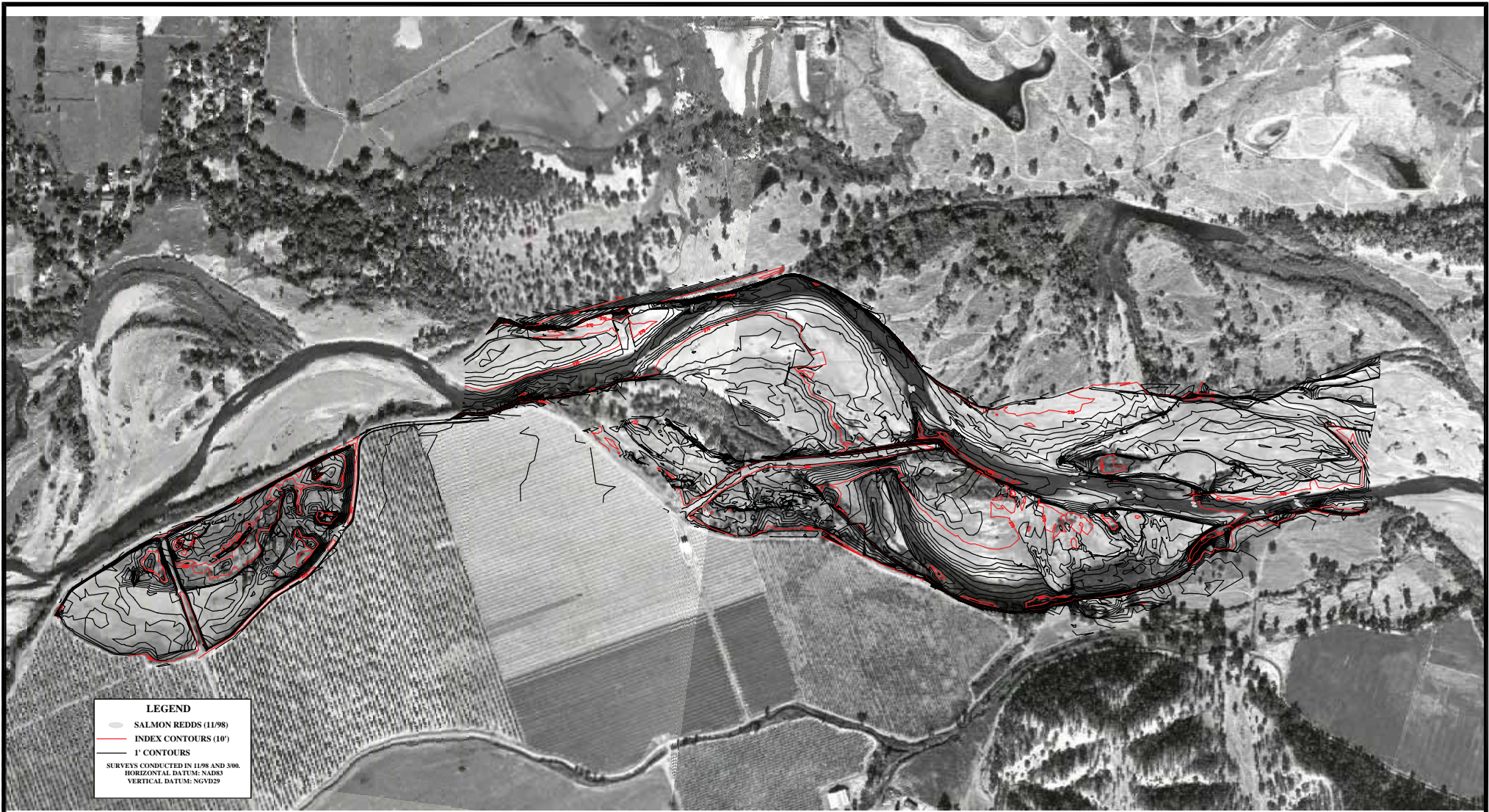


SCALE



FIGURE

26



LEGEND

- SALMON REDDS (11/98)
- INDEX CONTOURS (10')
- 1' CONTOURS

SURVEYS CONDUCTED IN 1198 AND 2000.
 HORIZONTAL DATUM: NAD83
 VERTICAL DATUM: NGVD29

**COTTONWOOD CREEK BENGARD RANCH 1999 AERIAL PHOTO
 AND TOPOGRAPHIC MAPPING**

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SCALE
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FIGURE
27