

Map Revised: 5/05/03  
P:\00180126\01\Report\_Figures\Appendix\_FIGS\PDF\figure\_A\_8.pdf  
EMG



SR 12  
Location

Lambert Conformal Conic  
Washington State Plane South  
North American Datum 1983

Data Source: Washington Department  
of Transportation, Yakima County  
GIS Department

This map is for information purposes. Data were compiled from multiple sources as listed on this map. The data sources do not guarantee these data are accurate or complete. There may have been updates to the data since the publication of this map. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication. The locations of all features shown are approximate.



FIGURE A-8

1993 Aerial Photograph of Project Area Depicting  
Additional Impacts to the Naches River Since the 1992 Photograph

Project Number: 0180-126-01



Lambert Conformal Conic  
 Washington State Plane South  
 North American Datum 1983

Data Source: Washington Department  
 of Transportation, Yakima County  
 GIS Department

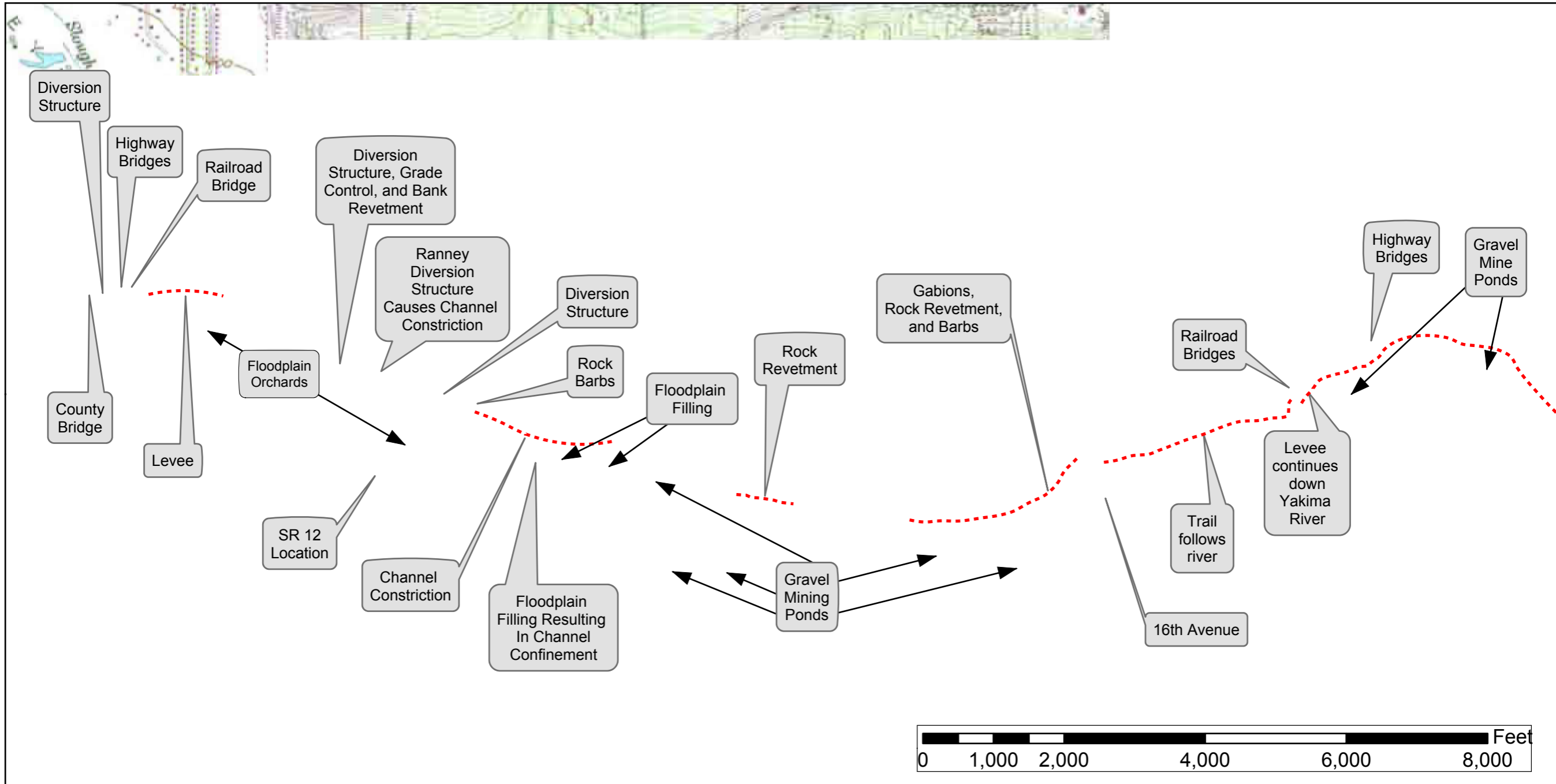
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FIGURE A-9

1998 Aerial Photograph of Project Area Depicting  
 Additional Impacts to the Naches River Since the 1993 Photograph

Map Revised: 5/05/03  
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EMG  
Project Number: 0180-126-01



Lambert Conformal Conic  
Washington State Plane South  
North American Datum 1983

Data Source: Washington Department  
of Transportation, Yakima County  
GIS Department, Sure!Maps Raster  
USGS 7.5' Selah and Yakima  
West Quads at 1:24k,

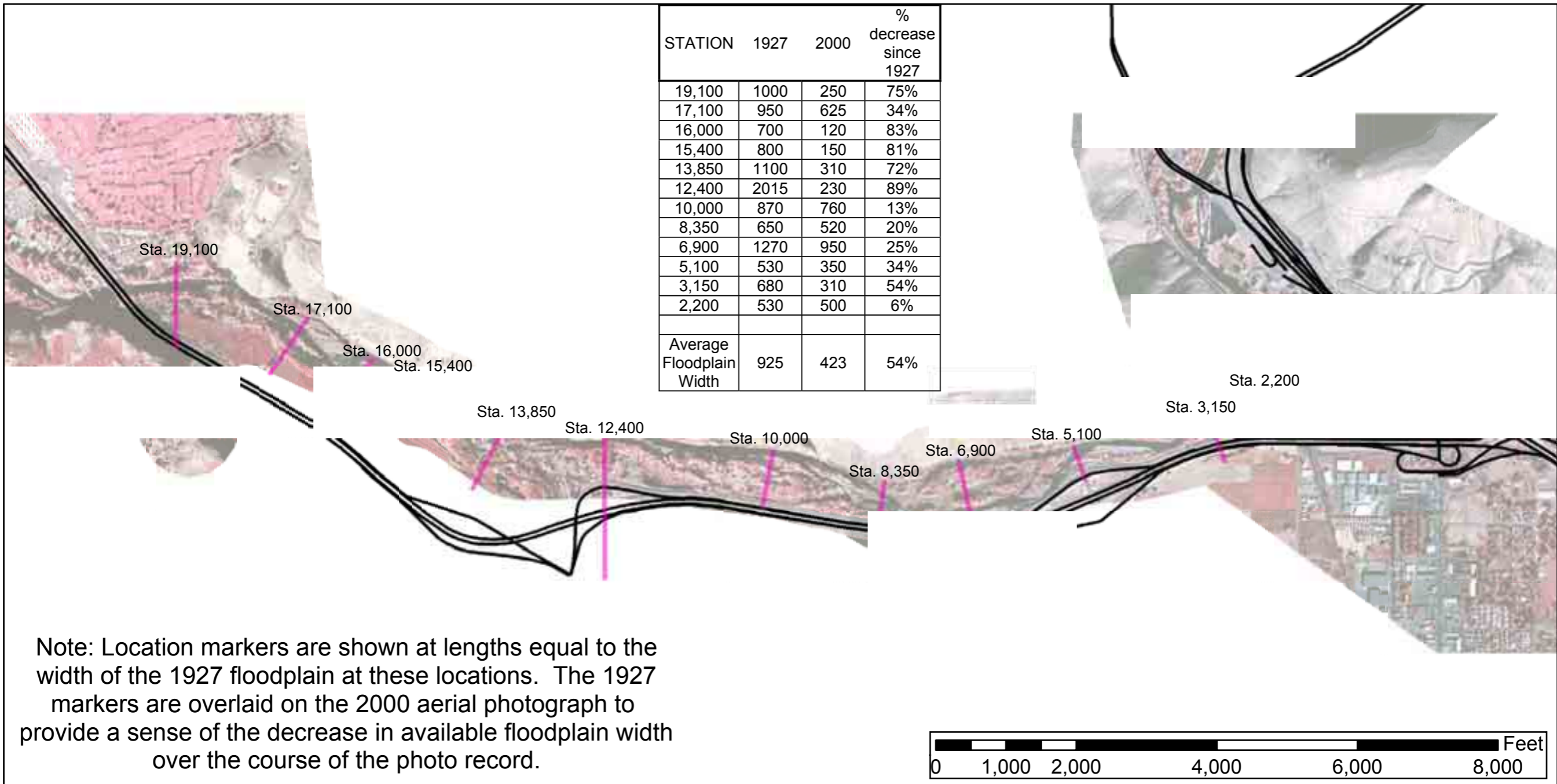
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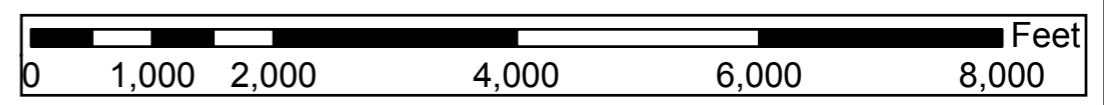
FIGURE A-10

2000 Aerial Photograph of Project Area Depicting All Discernable Impacts to the Naches River at the Time of this Report

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 EMG  
 Project Number: 0180-126-01



Note: Location markers are shown at lengths equal to the width of the 1927 floodplain at these locations. The 1927 markers are overlaid on the 2000 aerial photograph to provide a sense of the decrease in available floodplain width over the course of the photo record.



Lambert Conformal Conic  
 Washington State Plane South  
 North American Datum 1983

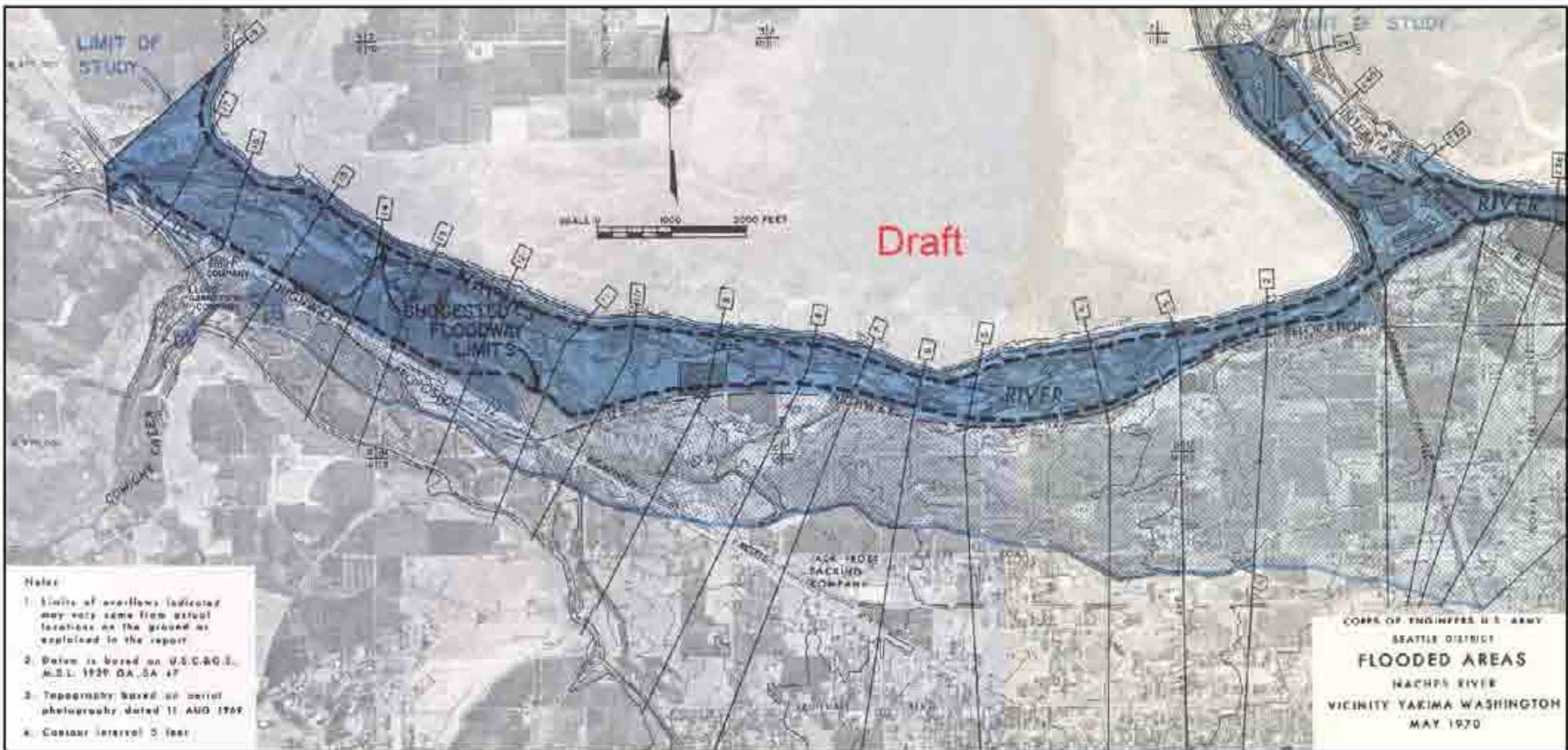
Data Source: Washington Department of Transportation, USDI 2000 TIGER Files, Yakima County GIS Department, Sure!Maps Raster USGS 7.5' Selah and Yakima West Quads at 1:24k; River Miles from USGS maps.

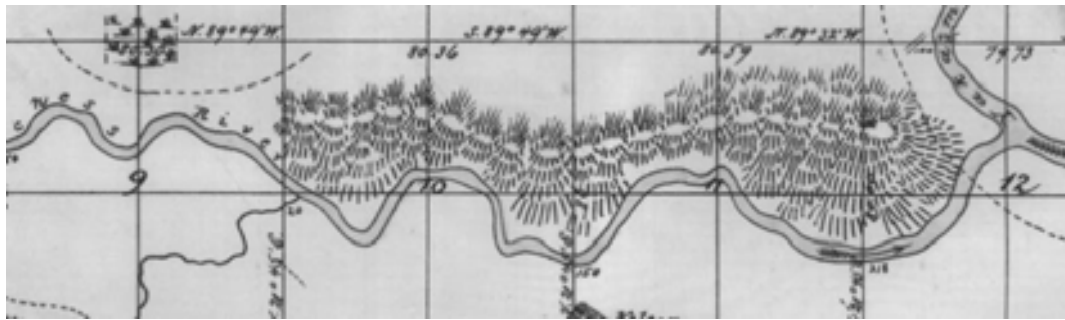
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FIGURE A-11

Floodplain Width Markers











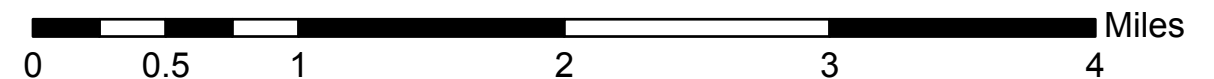
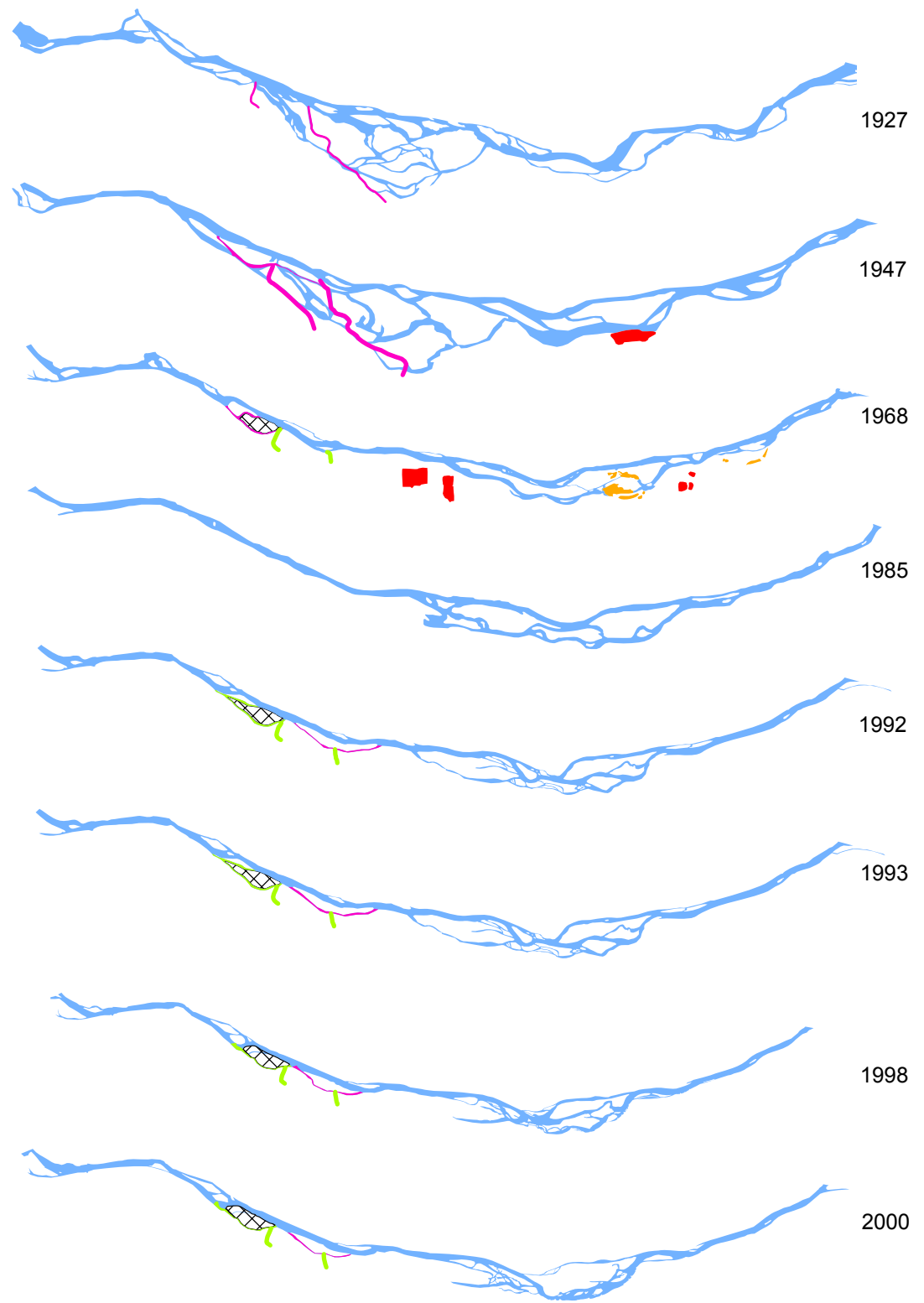
1866

NOTES:  
 1866 General Land Office Map is set to same scale as other channel outlines.

The 1985 channel polygon was created based on the USGS map from the same year. Many side channels and irrigation channels leading from the floodplain were shown on this map, and because of this were not delineated for this year's channel outline.

Side channels depicted as irrigation ditches that are disconnected from the floodplain are still connected to the river and may still convey some floodwater. However, these channels are entrenched, heavily managed for flow conveyance, and do not provide the same function as natural side channels in terms of flood storage or habitat. Additionally, head gates and gravel berms are likely close off these channels during floods.

-  Mainstem Channel. Digitized to an extent approximating the 1 to 2-year flow event for each year's channel configuration.
-  Gravel Ponds. Gravel ponds definitively shown in aerial photographs
-  Potential Gravel Ponds. Features in aerial photographs that potentially are or may have been gravel ponds, but are not definitive.
-  Area impacted and filled in conjunction with City of Yakima diversion structure. Causes floodplain constriction.
-  Former side channels (still connected to the floodplain) being used as irrigation channels.
-  Former side channels (disconnected from the floodplain) being used as irrigation channels.



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Lambert Conformal Conic  
 Washington State Plane South  
 North American Datum 1983  
 Data Source: General Land  
 Office, 1866; Polygons digitized by  
 GeoEngineers from photographs  
 provided by Washington Department  
 of Transportation, Yakima County GIS  
 Department, and from the Sure!Maps  
 Raster USGS 7.5' Selah and Yakima  
 West Quads at 1:24k.

FIGURE A-13

Changes in Channel  
 Sinuosity Network,  
 and Complexity  
 1866 - 2000









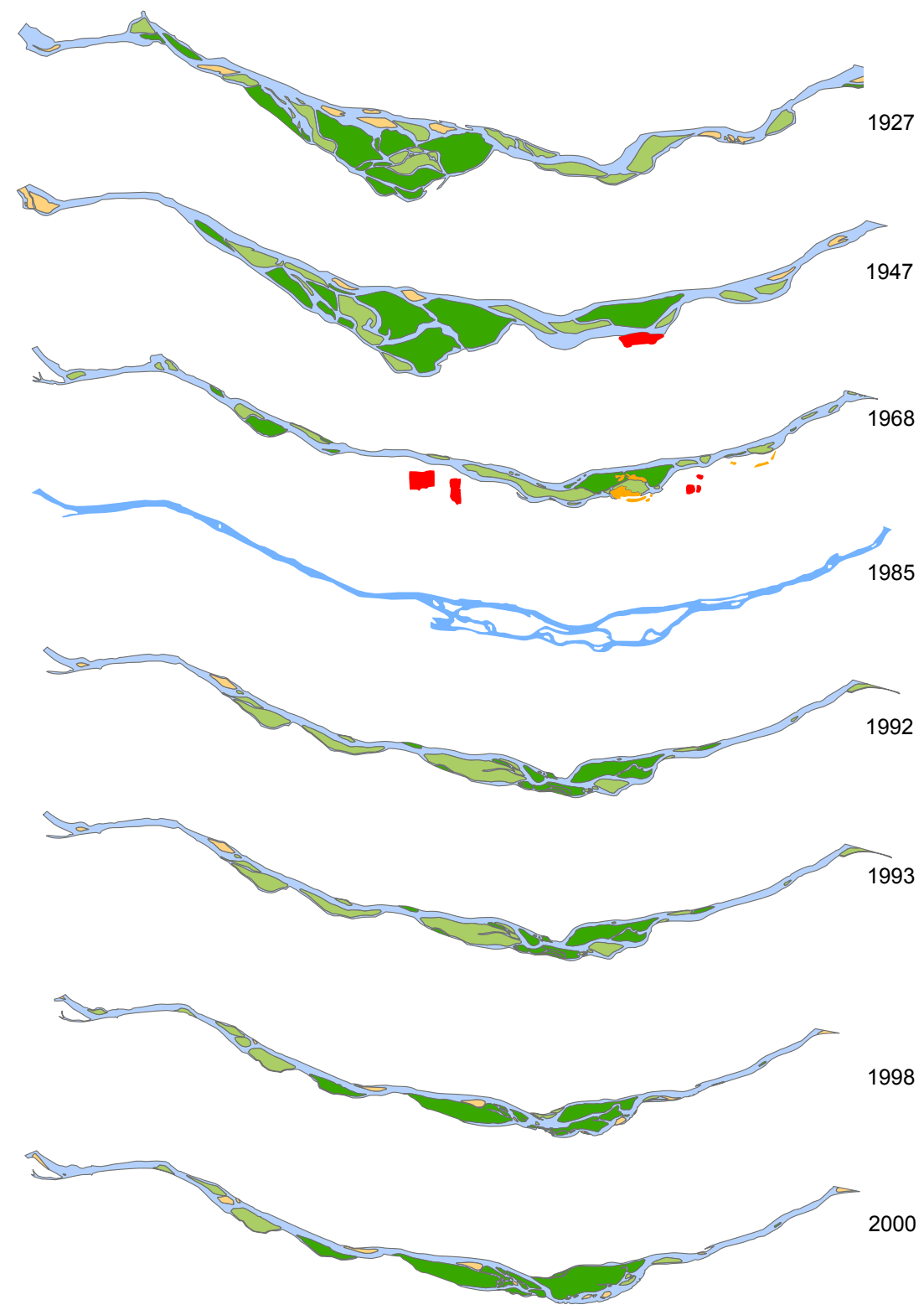


1866

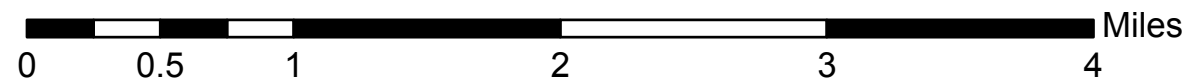
NOTES:

Figure shows active channel networks and readily accessible mid-channel and lateral floodplain bars. Entire floodplain is not shown. Vegetation densities are relative. 1985 channel polygon is from a USGS map of same date, and therefore does not include vegetation.

-  Active Channel Network. Includes mainstem and side channels.
-  Heavily Vegetated Bars.
-  Sparsely Vegetated Bars.
-  Bars Scoured of Vegetation.
-  Gravel Ponds. Gravel ponds definitively shown in aerial photographs.
-  Potential Gravel Ponds. Features in aerial photographs that potentially are or may have been gravel ponds, but are not definitive.



1927  
1947  
1968  
1985  
1992  
1993  
1998  
2000



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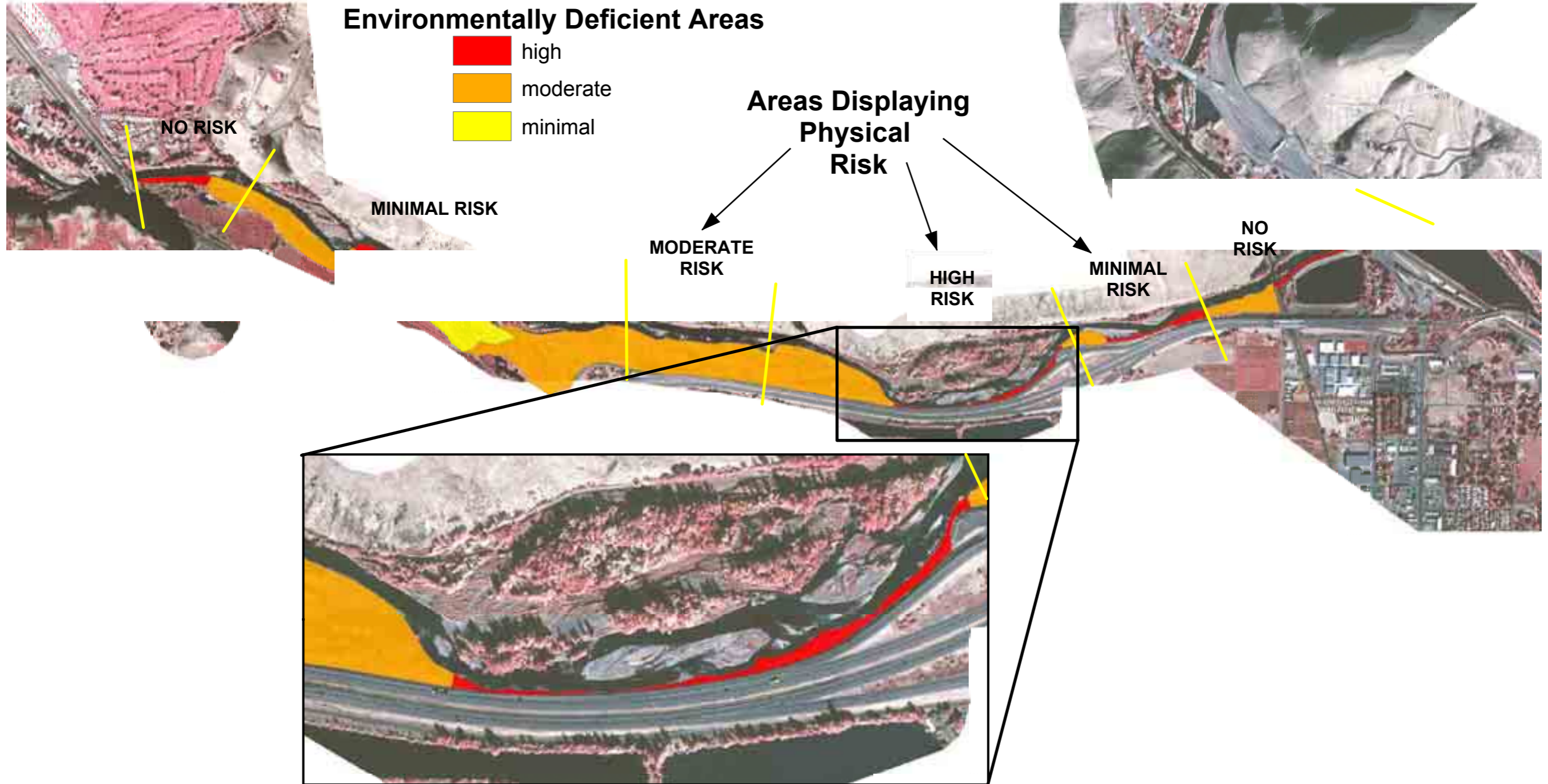
Lambert Conformal Conic  
Washington State Plane South  
North American Datum 1983  
Data Source: General Land  
Office, 1866; Polygons digitized by  
GeoEngineers from photographs  
provided by Washington Department  
of Transportation, Yakima County GIS  
Department, and from the Sure!Maps  
Raster USGS 7.5' Selah and Yakima  
West Quads at 1:24k.

**FIGURE A-14**  
**Reduction in Channel  
Complexity and Aquatic  
and Riparian  
Habitat Diversity**



### Environmentally Deficient Areas

- high
- moderate
- minimal



Lambert Conformal Conic  
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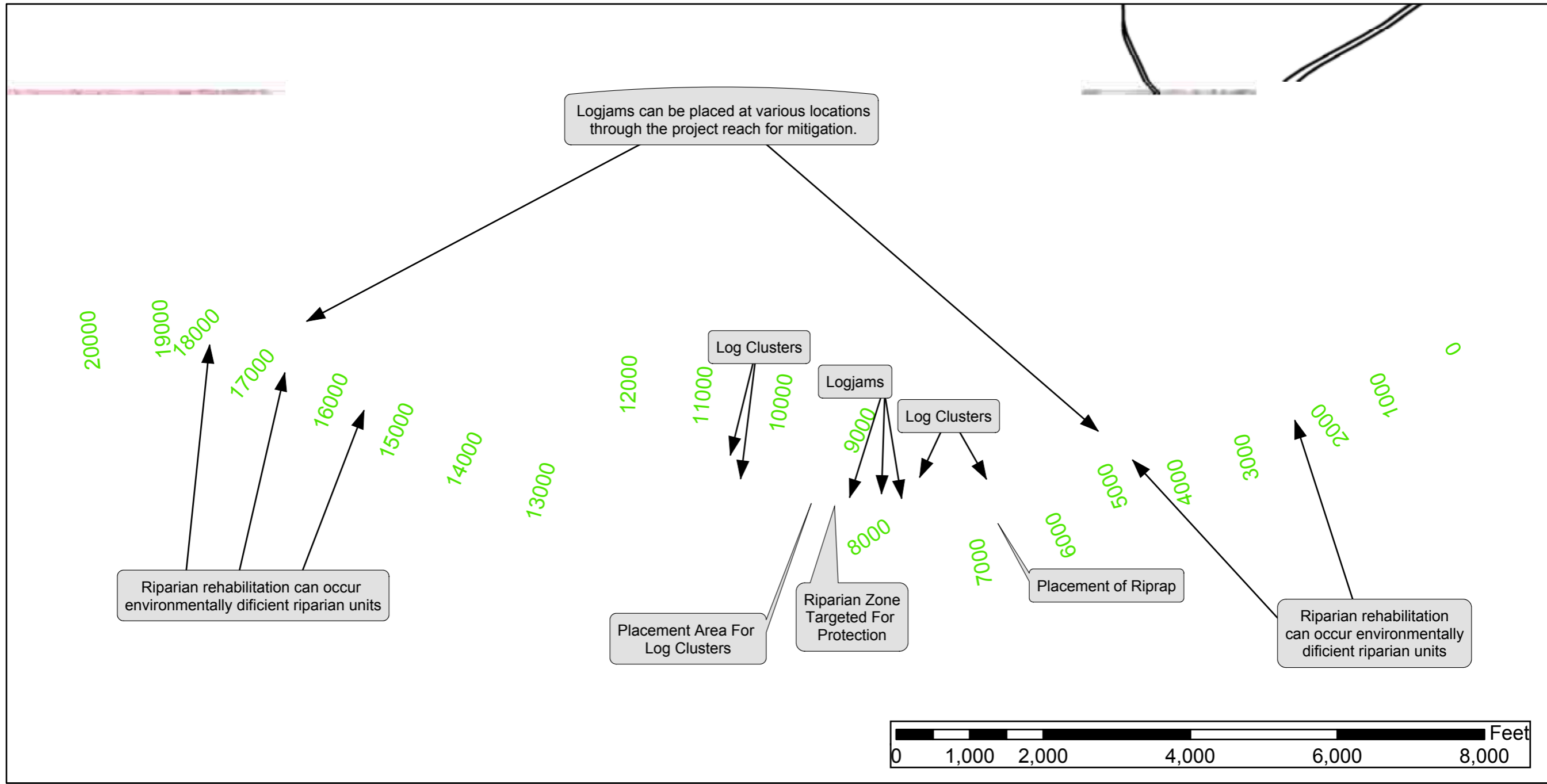
Data Source: Washington Department  
 of Transportation; GeoEngineers.

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FIGURE A-15

Physical and Environmental Deficiency Delineation



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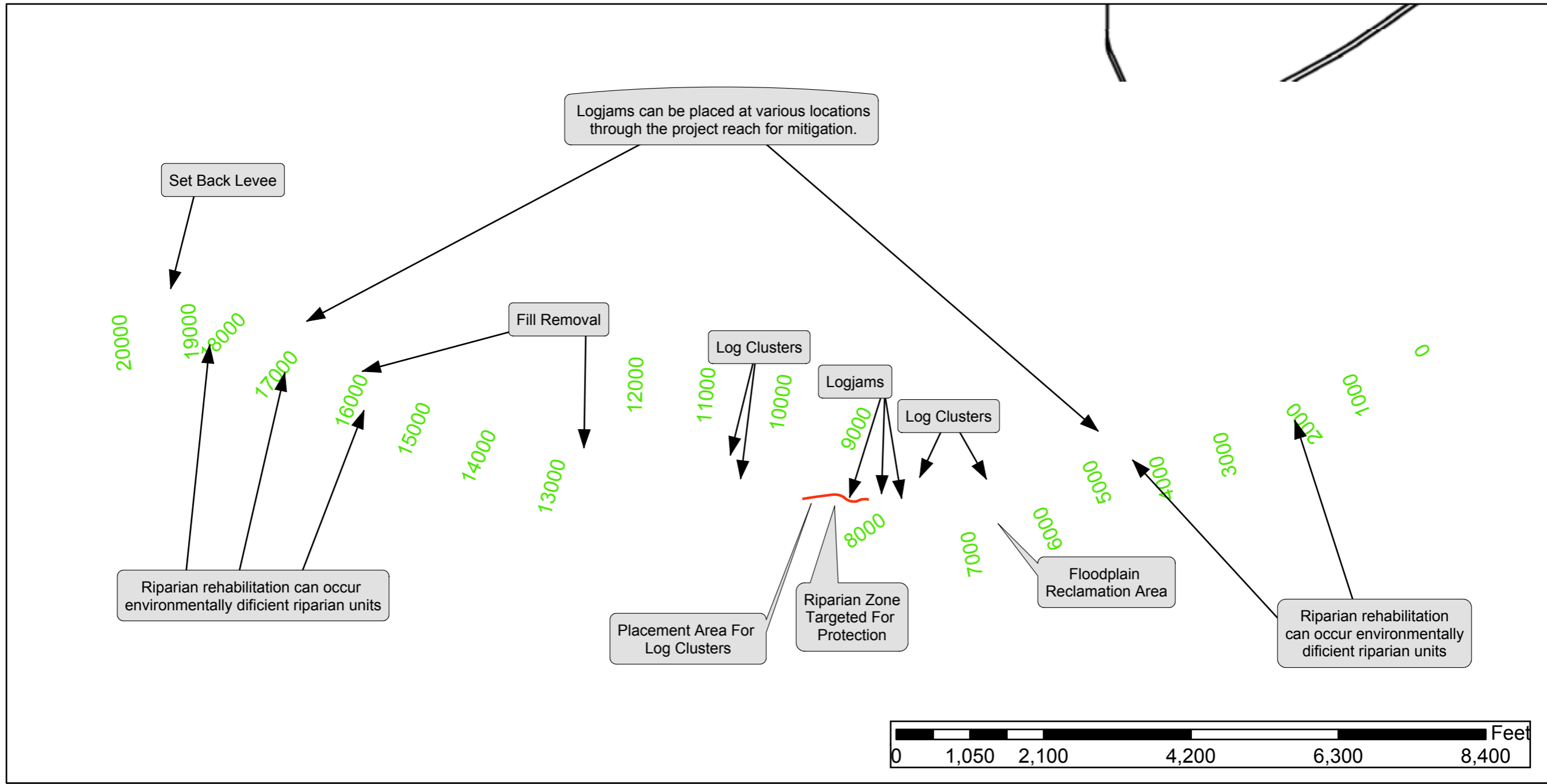
Data Source: Washington Department of Transportation, USDI 2000 TIGER Files, Yakima County GIS Department, Sure!Maps Raster USGS 7.5' Selah and Yakima West Quads at 1:24k; River Miles from USGS maps.

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FIGURE A-16

Manage Strategy: Protect SR 12





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FIGURE A-17

Management Strategy: Consider Reach-Scale Geomorphic Process in Comprehensive Management Plan