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Map Series of Aquatic Resources for San Jacinto and Portions of the Santa Margarita Watersheds

Robert W. Lichvar and Michael Ericsson

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ABSTRACT

The purpose of the map series presented here is to visually present the identified aquatic resources in San Jacinto River and portions of the Santa Margarita River watersheds in western Riverside County, California, as part of the Special Area Management Plan (SAMP). A SAMP is a comprehensive aquatic resource planning effort in the context of Section 404 of the Clean Water Act (CWA). The U.S. Army Corps of Engineers, Los Angeles District is leading the development of the SAMP, and the Riverside County Flood Control District, representing the County of Riverside, is the local stakeholder. These are the spatial results of an overall study undertaken by the SAMP. The size of the study area is 36,1953 ha (894,405 acres). Mapped results of this study were compiled in the field using ArcView 3.2 geographic information system (GIS) and mapped at a scale of 1:4800 using Color Infra-Red Digital Orthoquads (DOQ) imagery. A unique method of combining the occurrence of vegetation communities and fluvial surfaces to determine the probability of being regulated was used to identify aquatic resources that might be considered as regulated under Section 404 of the CWA.

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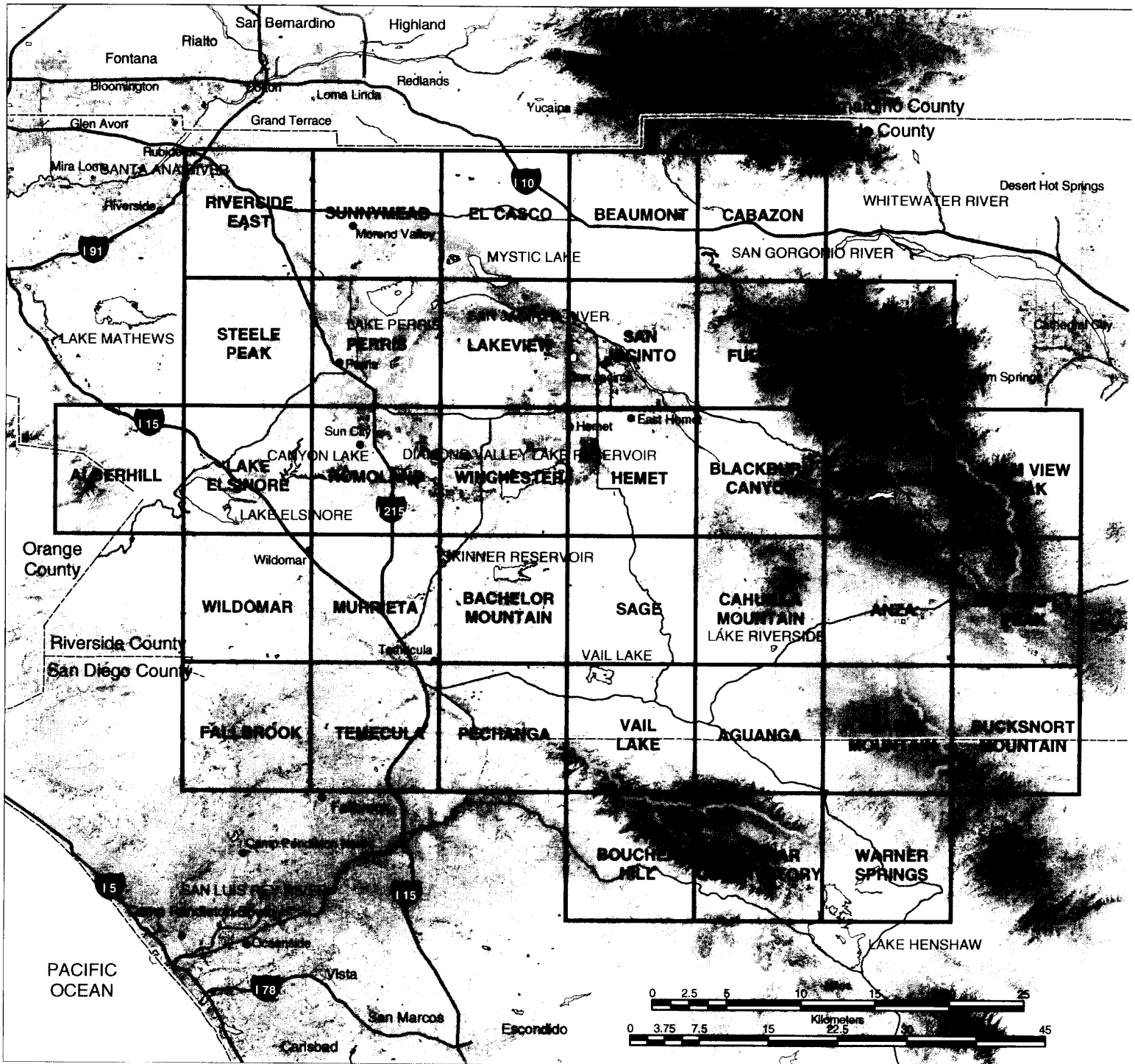
PREFACE

This report was prepared by Robert Lichvar, Research Ecologist, and Michael Ericsson, Geologist, both of the Remote Sensing/GIS and Water Resources Branch, U.S. Army Cold Regions Research and Engineering Laboratory (CRREL), Engineer Research and Development Center (ERDC).

Funding was provided by the U.S. Environmental Protection Agency (EPA) and Riverside County Flood Control and Water Conservation District (RCFCD), California. The authors acknowledge Zully Smith (RCFCD) and Fari Tabatabai, Los Angeles District, Corps of Engineers, for oversight and guidance throughout the study. They also thank Mary Butterwick, EPA, for her comments and suggestions dealing with scientific aspects of the study.

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USGS Quad-Based Map Index



Map Series of Aquatic Resources for San Jacinto and Portions of the Santa Margarita Watersheds

ROBERT W. LICHVAR AND MICHAEL ERICSSON

INTRODUCTION

The overall purpose of the map series presented here is to identify aquatic resources in San Jacinto River and portions of the Santa Margarita River watersheds in western Riverside County as part of the Special Area Management Plan (SAMP). A SAMP is a comprehensive aquatic resource planning effort in the context of Section 404 of the Clean Water Act. The ultimate goal of the SAMP is to provide a management tool that helps reach a balance between protection of aquatic resources and reasonable economic development. The U.S. Army Corps of Engineers (USACE), Los Angeles District is leading the development of the SAMP in western Riverside County, California. The Riverside County Flood Control District, representing the County of Riverside, is the local stakeholder in the development of the SAMP.

The map series represents the results of the SAMP planning level delineation of aquatic resources that was performed by Lichvar et al. (2003) from the Engineering and Research Development Center, Cold Regions Research and Engineering Laboratory (CRREL). A planning-level delineation identifies those areas that meet both the jurisdictional requirements under Section 404 of the Clean Water Act and the California Department of Fish and Game (CDFG) Section 1600 Code at a watershed scale. Although the delineation is highly accurate at the planning level, it is not specific to any one site. Thus, a planning-level wetland delineation does not replace the need for a jurisdictional wetland delineation from the Corps of Engineers (COE) permitting program or the CDFG Section 1600 requirements. As such, these maps display the baseline occurrence of aquatic resources that were observed in these watersheds during the study period (August 2001 to May 2002).

Study Area

The San Jacinto River and portions of the Santa Margarita River watersheds together encompass approximately 36,1953 ha (894,405 acres) and are located 12 km (7.5 miles) southeast of the city of Riverside in Riverside County, California. The cities of Temecula and Murrietta are located within the Santa Margarita watershed. The cities located within the San Jacinto watershed include Moreno Valley, Perris, San Jacinto, and Hemet. The watersheds are bounded by the Cleveland National Forest on the west and south and the San Bernardino National Forest to the northeast. The southern boundary of the study area was limited to the border of Riverside County and did not cross into San Diego County. However, in some instances, subwatersheds draining from San Diego County into Riverside County were inventoried and mapped because they influence the riparian wetlands and flooding within Riverside County.

Methods

Mapping protocols

Potential aquatic resources were initially identified by interpretation of color infra-red digital orthoquads (DOQ) imagery obtained from the USGS (via the Internet). Aquatic resources were delineated in the field using the DOQs within a customized ArcView 3.2 geographic information system (GIS) on a Fujitsu 3500 Stylistic pen tablet computer. All mapping was at a scale of 1:4800, with a minimum mapping unit size of approximately 405 m² (0.1 acres). Using the GIS in the field allowed for viewing of support spatial databases (i.e. roads, contours, parcel information, etc) to better identify all potential aquatic resources.

The first-order, ephemeral, and intermittent streams were initially identified and delineated by interpretation of the DOQs remotely. In several instances, second- and third-order streams (Strahler 1952) were also identified as a single blue line because of their narrow width resulting from human influences that cause downcutting within the channel. These categories of streams, identified in this booklet as “Ephemeral Streams,” are typically up to 10 feet wide and lack floodplain surfaces. Ephemeral streams were verified for accuracy and precision using the field GIS as potential aquatic resources were delineated. Vegetation associated with washes that lacked floodplain terraces were assigned a hydrogeomorphic floodplain code of “Non-Floodplain Riparian.”

Vegetation classification

Vegetation map units were developed through a series of modifications to the California natural community classification by Holland (1986). In previous SAMP efforts in other watersheds in southern California, CRREL found that existing vegetation classifications lacked sensitivity for use in watershed-scale wetland delineations. To meet the needs of identifying wetlands, we developed a classification that followed the hierarchical schemes of both Holland and Sawyer and Keeler-Wolf (1995) but added another level of specificity at the species level (see legend). Our classification shares the use of growth forms and dominant species, with expanded use of additional species identifiers for both native and non-native units. Figure 1 shows a comparison of the level of detail associated with the Holland and the USACE growth and species level classifications. In this map book, only the

species-association-level map units are shown. The complete report and growth-form- and species-association-level maps and all other pertinent spatial layers are provided at the web site: https://m2.crrel.usace.army.mil/pls/watershed/WATERSHED_out2.watershedStart_pk

Hydrogeomorphic floodplain classification

Hydrogeomorphic floodplain units were mapped for the purposes of indicating flood frequency for use in delineation purposes. Typically floodplain terraces develop on second-order, third-order and greater Strahler stream types. First-order streams typically lacked floodplain terraces since they are located on steeper slopes, have smaller drainage areas, and are confined to bedrock channels that limit their ability to create floodplain terraces.

In this study the two floodplains map units identified in the field were the active and abandoned floodplain terraces (Fig. 2). The active floodplain, in this study, contains the bankfull and the adjacent active floodplain terrace that contains features associated with frequent flooding. These features include high-flow channels, unvegetated surfaces, bed and bank, and a break in slope. The abandoned floodplain terrace is above the active floodplain and contains features associated with infrequent flooding and seasonally wet areas. Potentially regulated hydrologic features in this terrace are driven by infrequent overbank flooding, local precipitation, and occasional groundwater discharge within paleo channels and other depressional features. Often there is a distinct change of vegetation community from the active to the abandoned

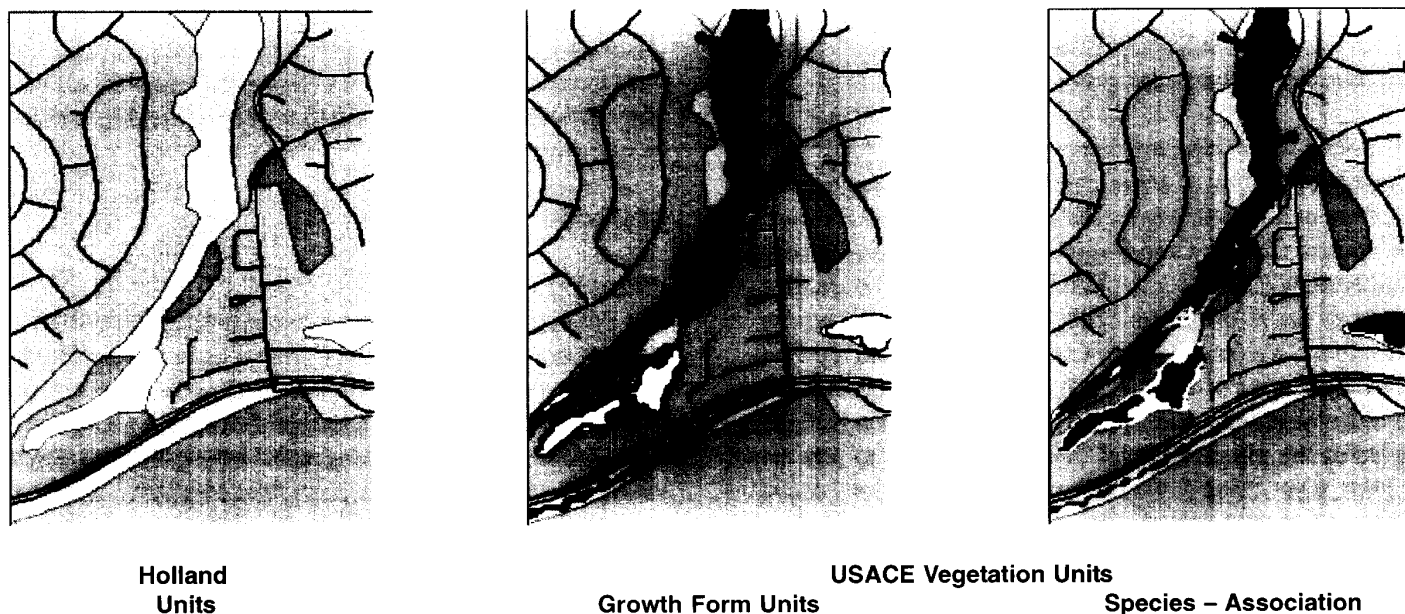


Figure 1. Comparison of vegetation classifications.

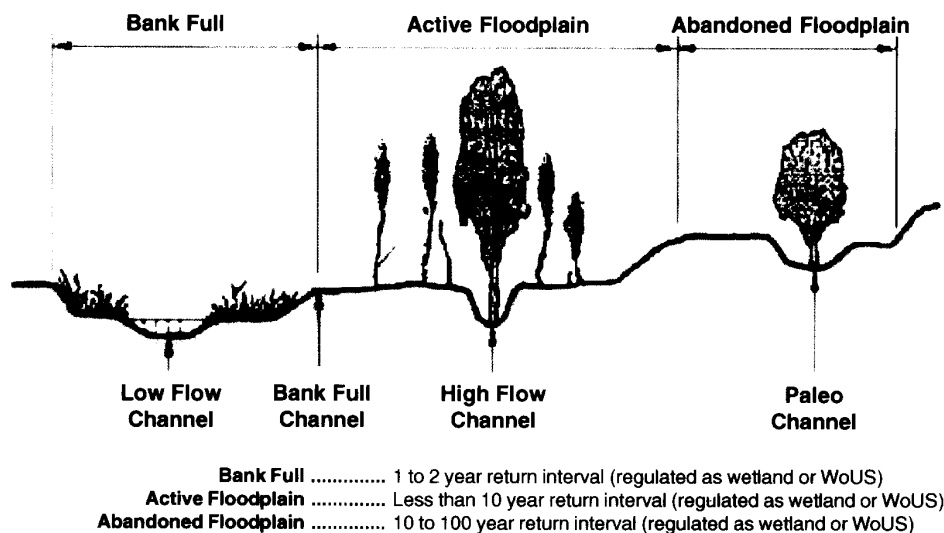


Figure 2. Hydrogeomorphic floodplain units.

floodplain. The cross section in Figure 2 represents the ideal floodplain development, but in some instances one or more terraces may be lacking because of human influence, local soil conditions and geomorphology, or local precipitation patterns.

Delineation technique

The modification of standard delineation sampling protocols and the development of wetland probability ratings for Section 404 regulatory purposes for the riparian vegetation map units allowed for a watershed-scale delineation. The sampling protocols outlined in the Corps of Engineers Wetlands Delineation Manual (Environmental Laboratory 1987) and "Waters of the United States" (WoUS) at 33 CFR 328 were modified for use at the watershed scale. To delineate at this scale, riparian corridors were mapped for hydrogeomorphic surfaces representing a combined bankfull and active floodplain and a separate abandoned floodplain terrace (Fig. 2), which were later interpreted for return-interval requirements under Section 404. Individual vegetation units at the species-association level were sampled at 169 sites to develop a char-

acterization of the indicators for both wetlands and other WoUS. By combining field sampling results for wetland occurrences within various mapped vegetation types with the flood frequency information obtained from the geomorphic surface map, probability ratings intended for regulatory purposes were developed to accommodate all variations. Six categories of wetland or WoUS ratings were assigned to each of the riparian vegetation units, with ratings ranging from always regulated to upland or not regulated (Table 1).

RESULTS

We delineated 16,043 ha (39,643 acres) of aquatic resources in the riparian areas and 12,701 km (7,892 miles) of intermittent streams as WoUS within both watersheds.

Book format

The format of this field map book is based on the U.S. Geological Survey (USGS) 1:24,000 quadrangle boundaries. To locate an area of interest, use the USGS Quadrangle Index

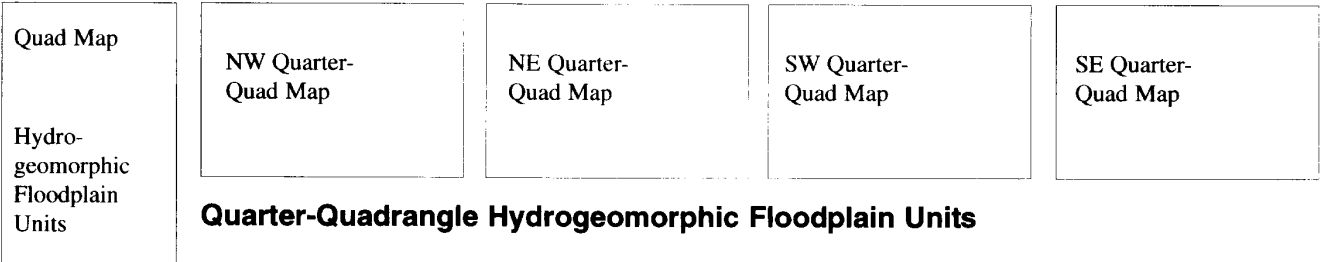
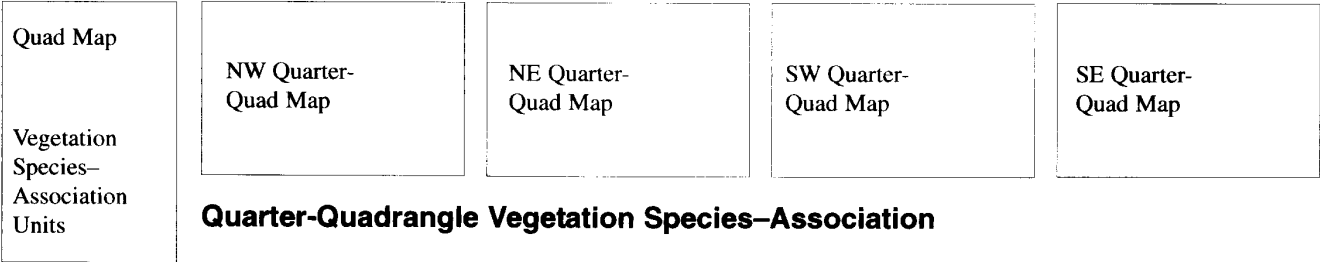
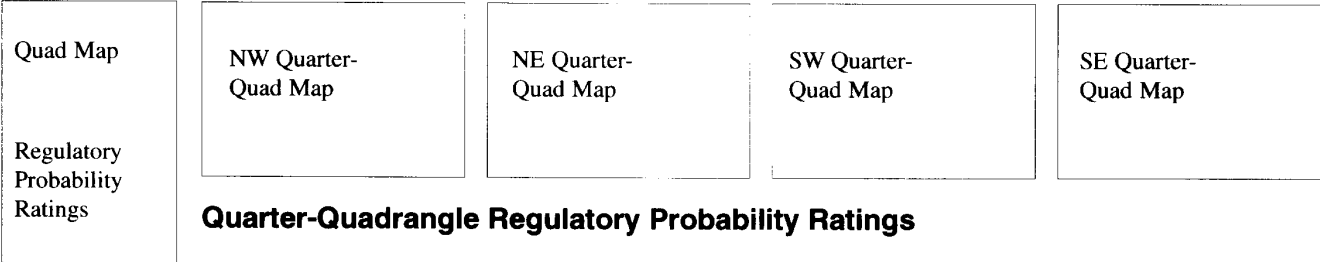
Table 1. Wetland / WoUS ratings assigned to riparian vegetation types

Rating	Description
1	Types meet the criteria for a wetland or WoUS 100% of the time
2	Types meet the criteria for a wetland or WoUS 67–98% of the time
3	Types meet the criteria for a wetland or WoUS 33–66% of the time
4	Types meet the criteria for a wetland or WoUS 2–32% of the time (primarily uplands)
5	Types meet the criteria for a wetland or WoUS <2% of the time (primarily uplands)
6	Unregulated upland

page and identify the quadrangle name for a specific location within the study area. Then find the tab with the quadrangle name, which will bring you to the map series for the identified quadrangle. Each quadrangle map* within the study area is divided into quarters to create quarter-quadrangle maps. This provides two map scales to view. The quarter-quadrangle

maps show more detail than the quadrangle maps. There are three map layers for each quadrangle and quarter-quadrangle map. The “Regulatory Probability Ratings” is the first map in the series, followed by the “Vegetation Species – Association Units” and “Hydrogeomorphic Floodplain Units.” The order of these maps in this book is listed below:

*An explanation of map units and other support information is provided on the legend in the back of this book.



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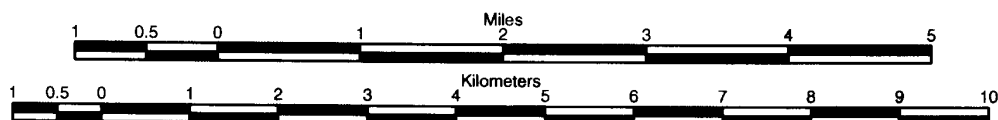
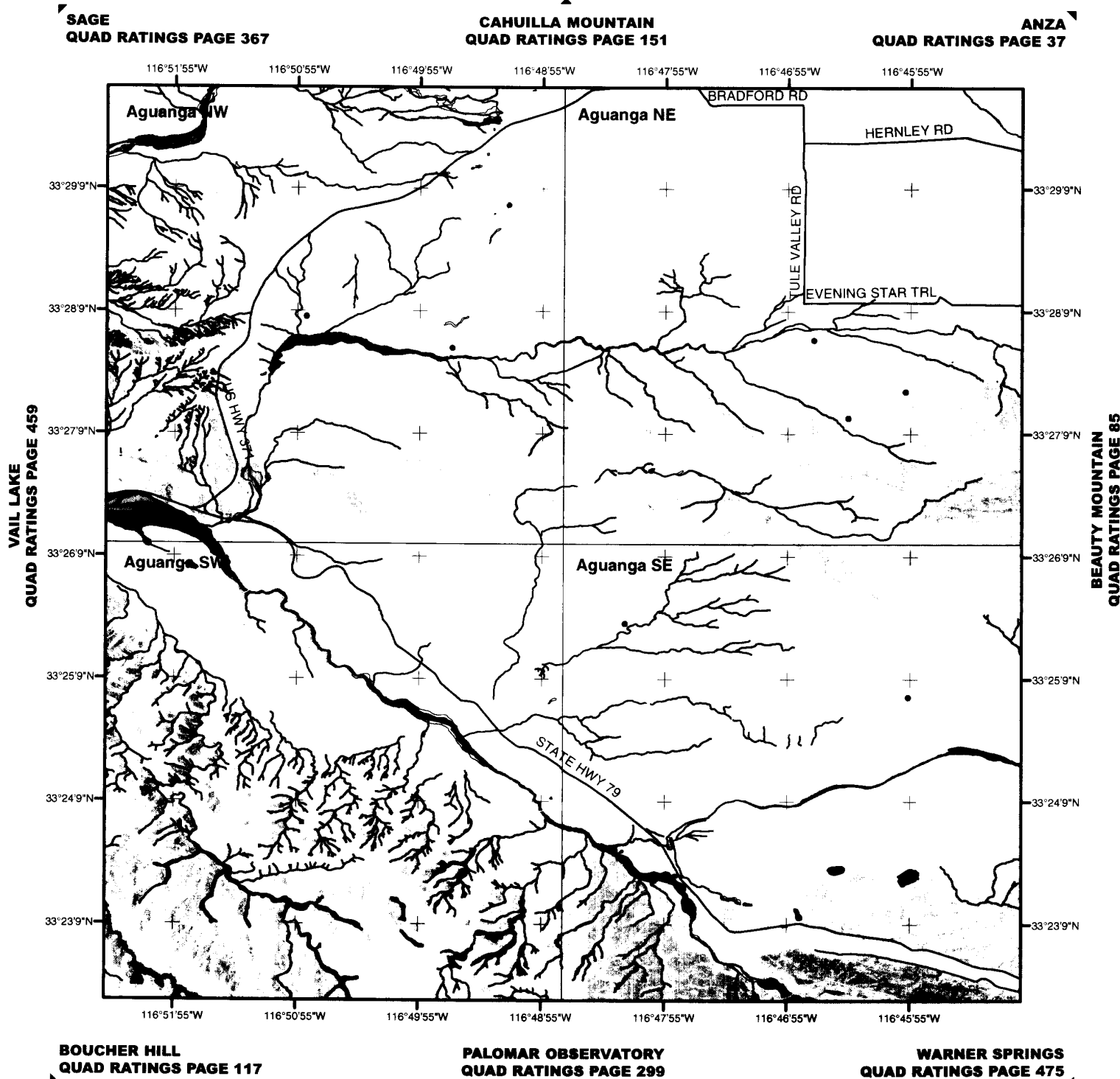
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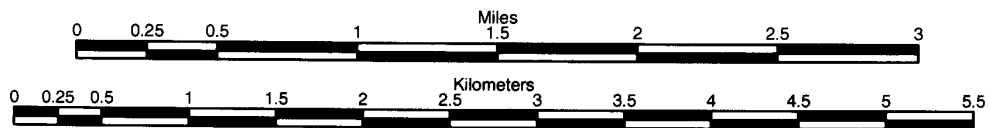
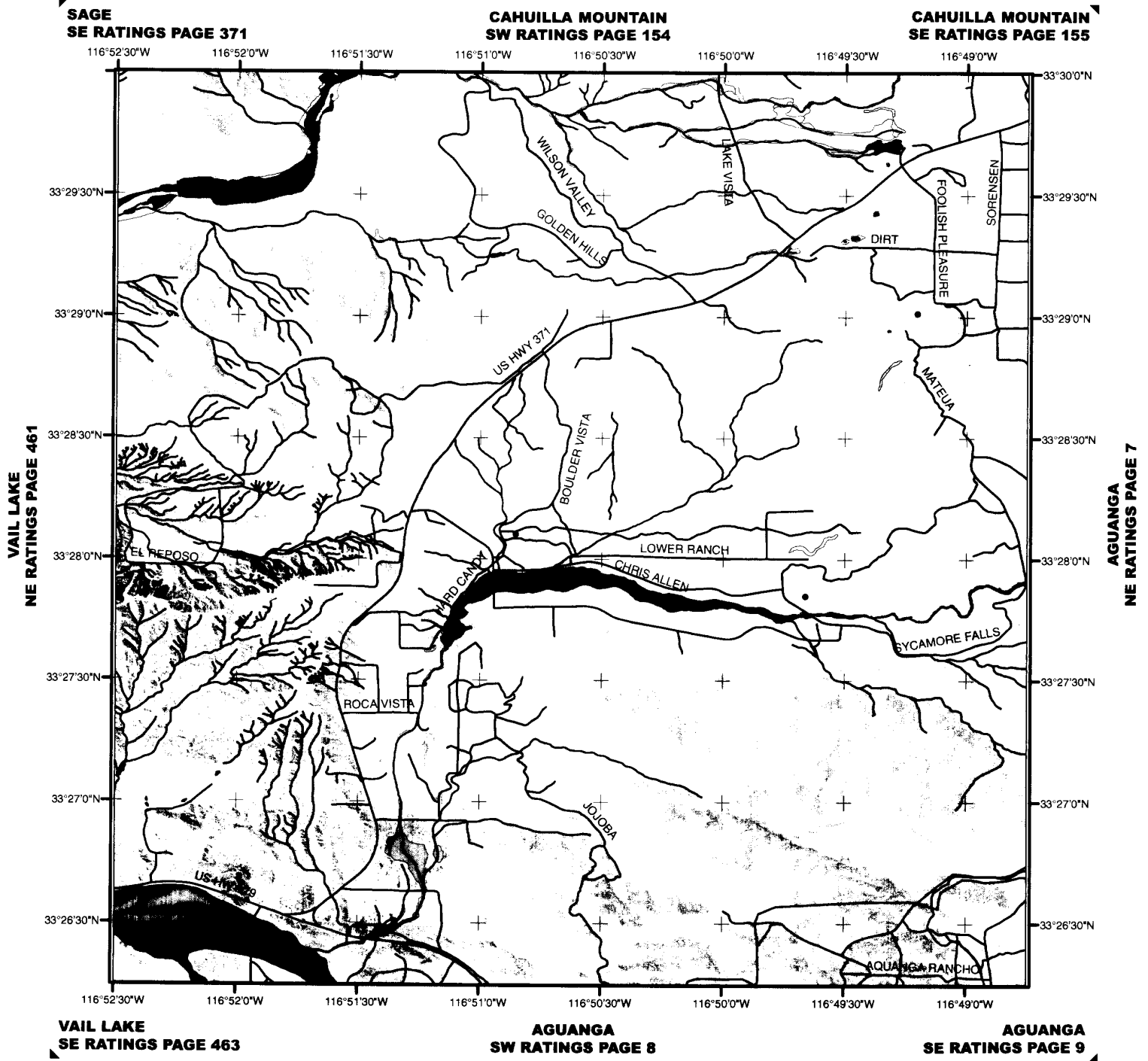
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Aguanga Quadrangle

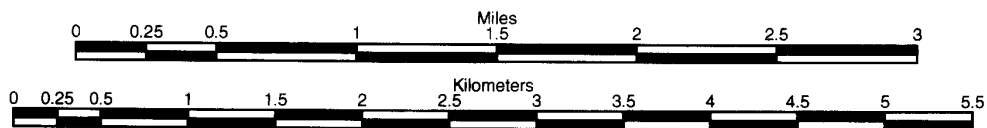
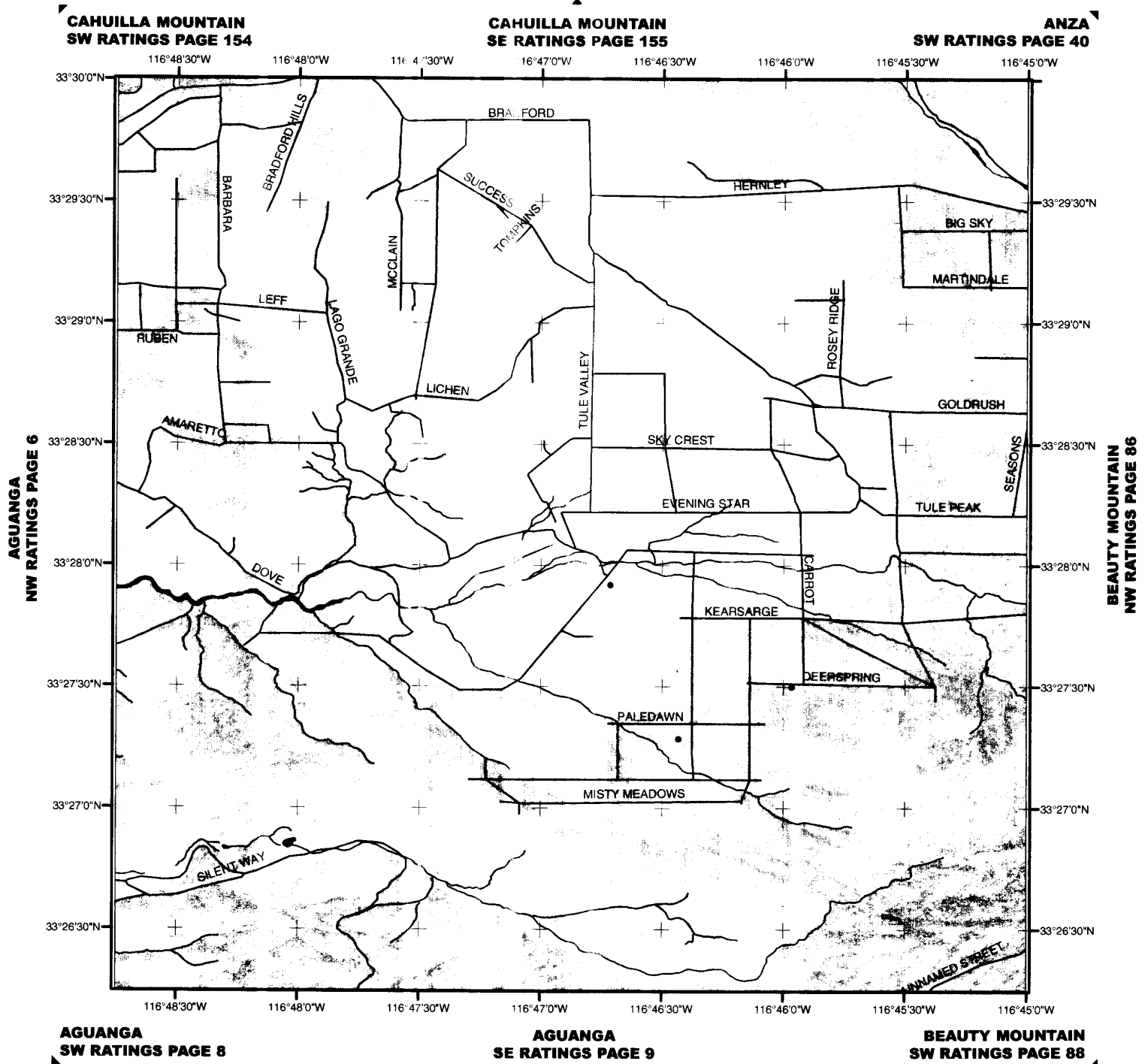
Regulatory Probability Ratings for Aquatic Resources



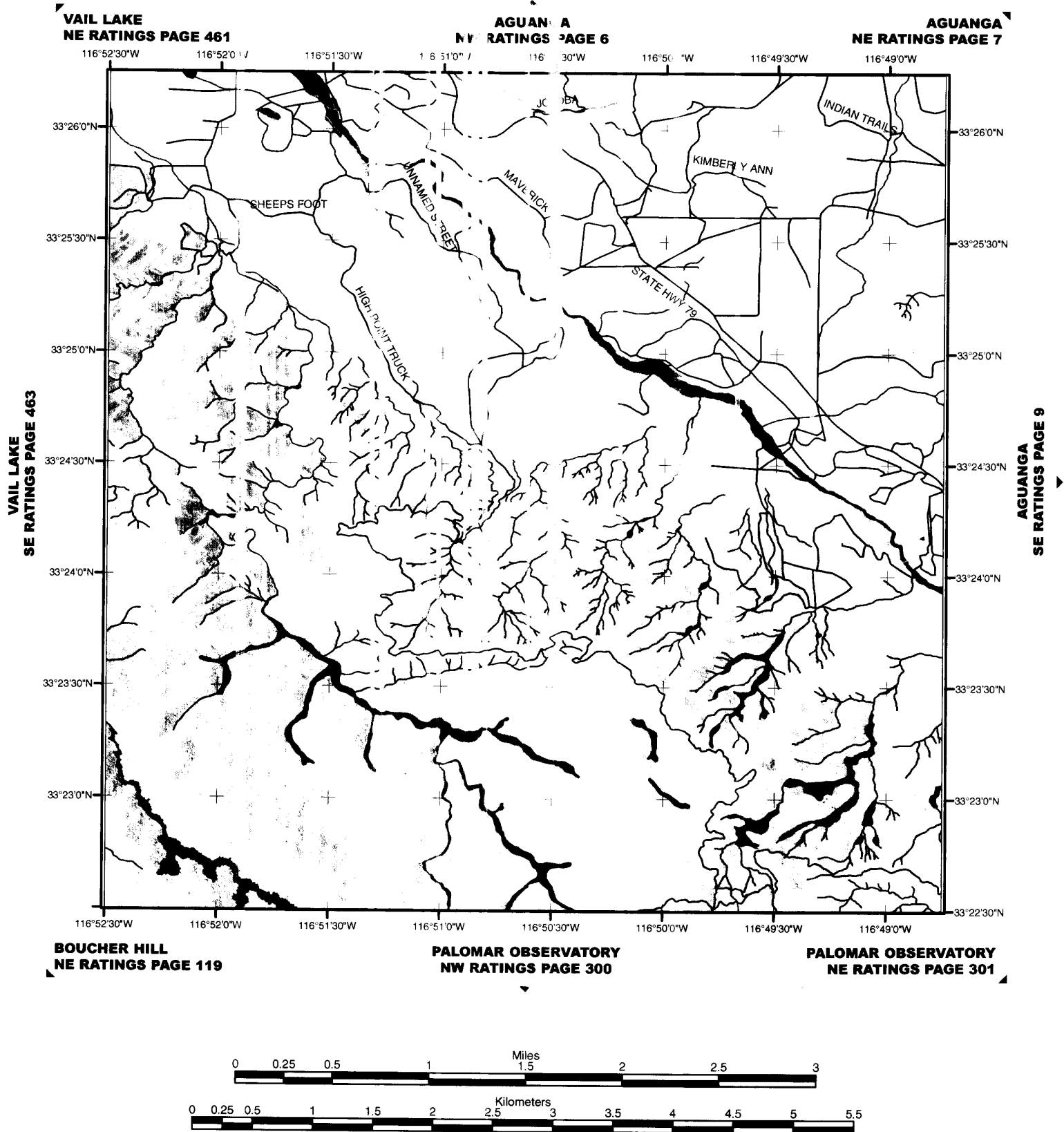
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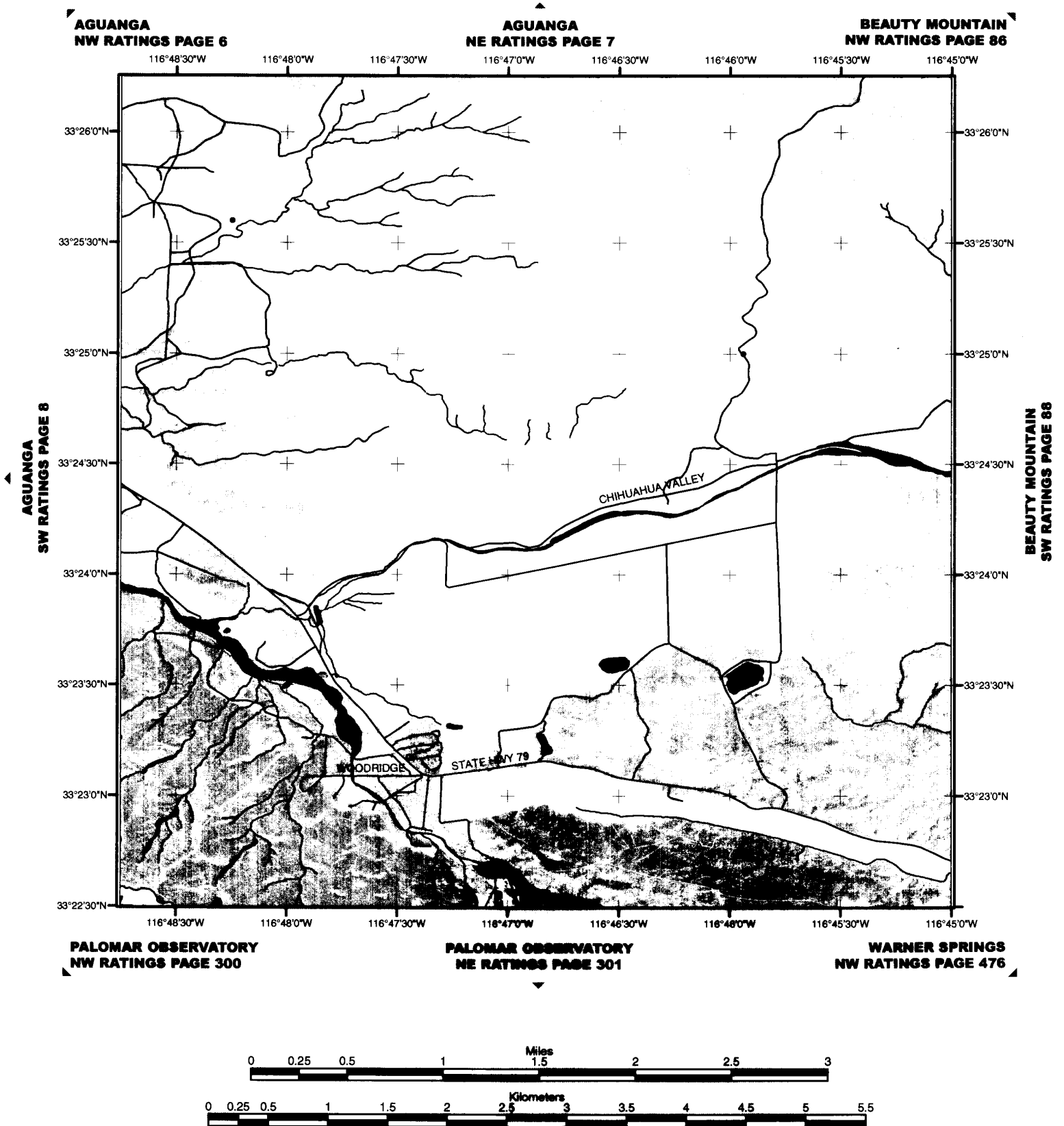
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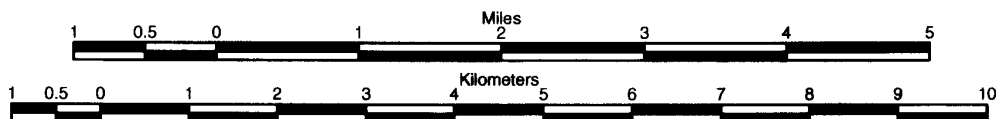
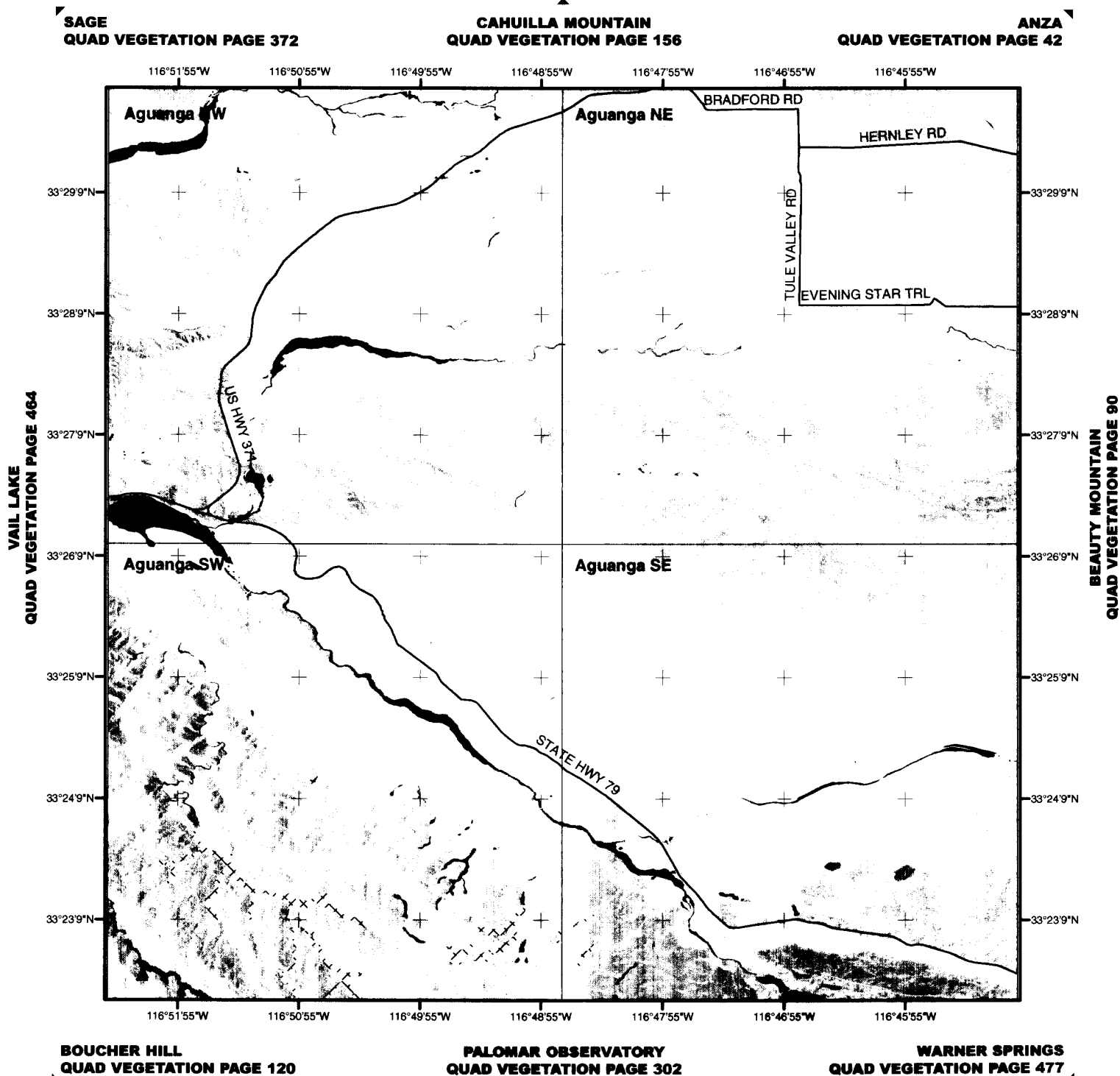


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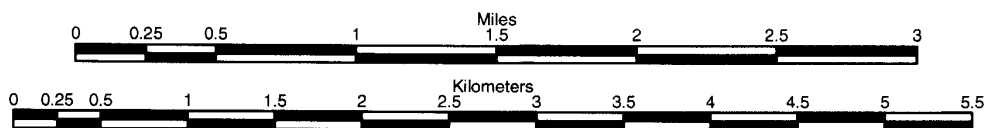
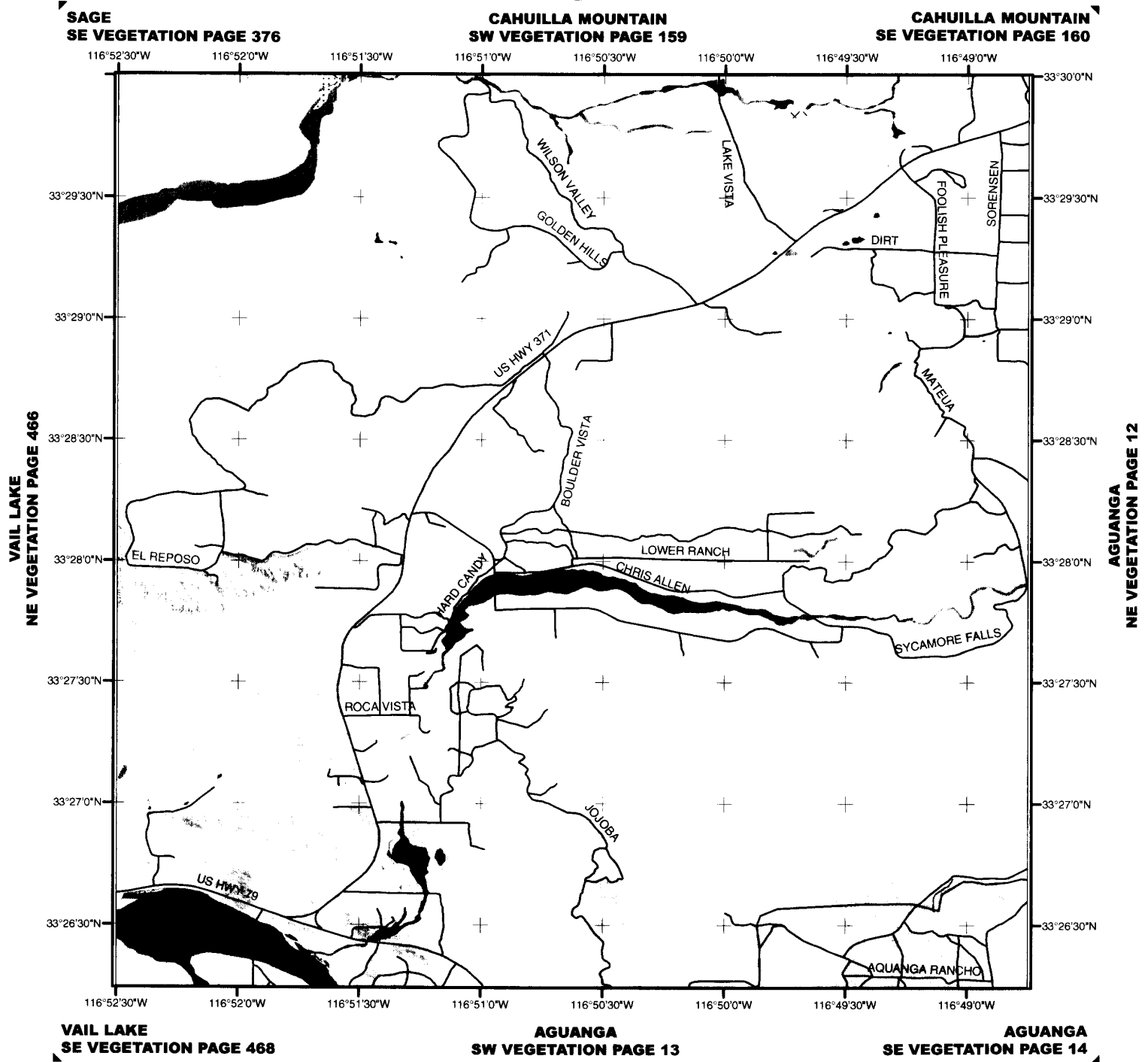
Aguanga Quadrangle

Vegetation Species Association Units for Aquatic Resources



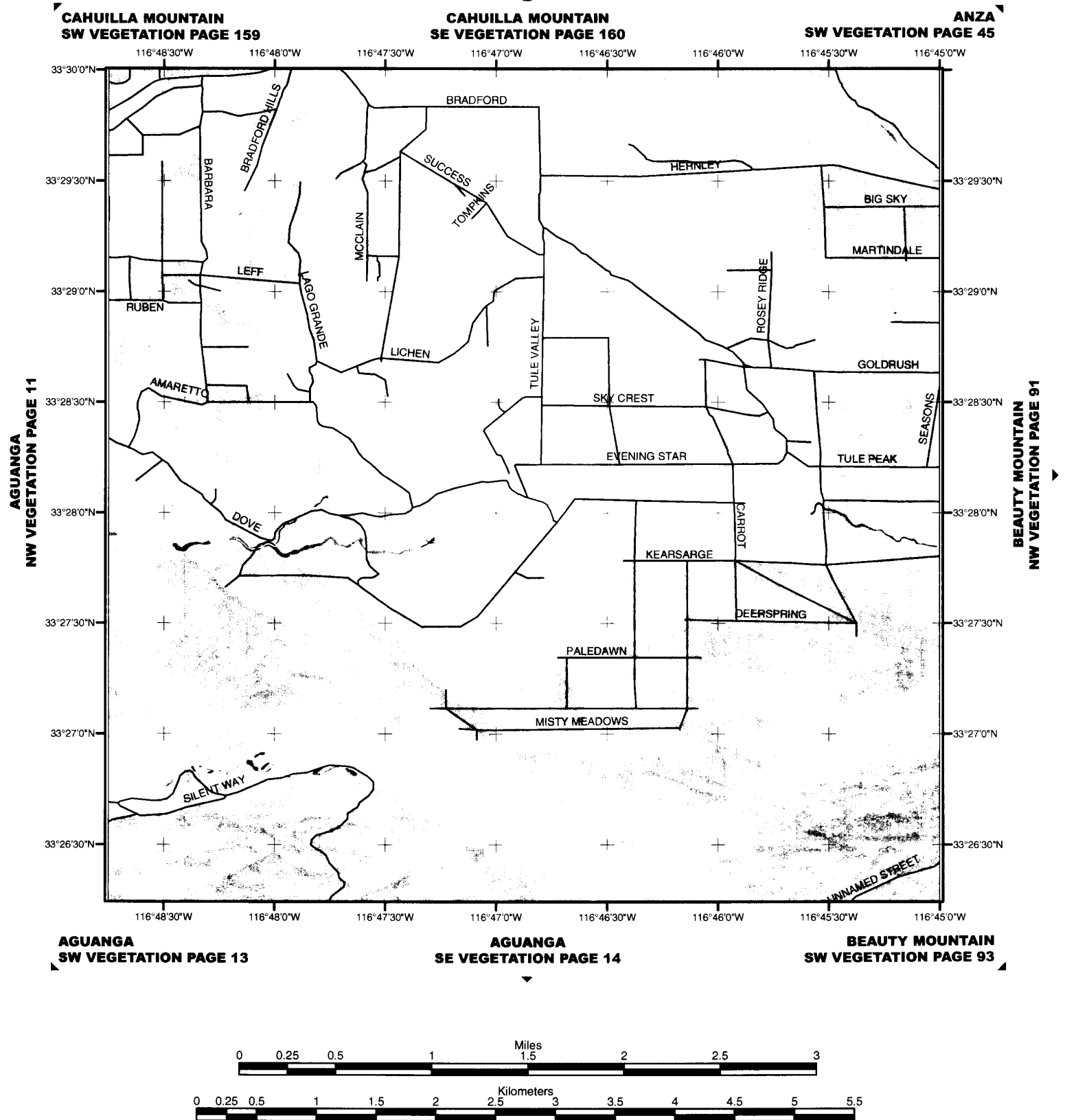
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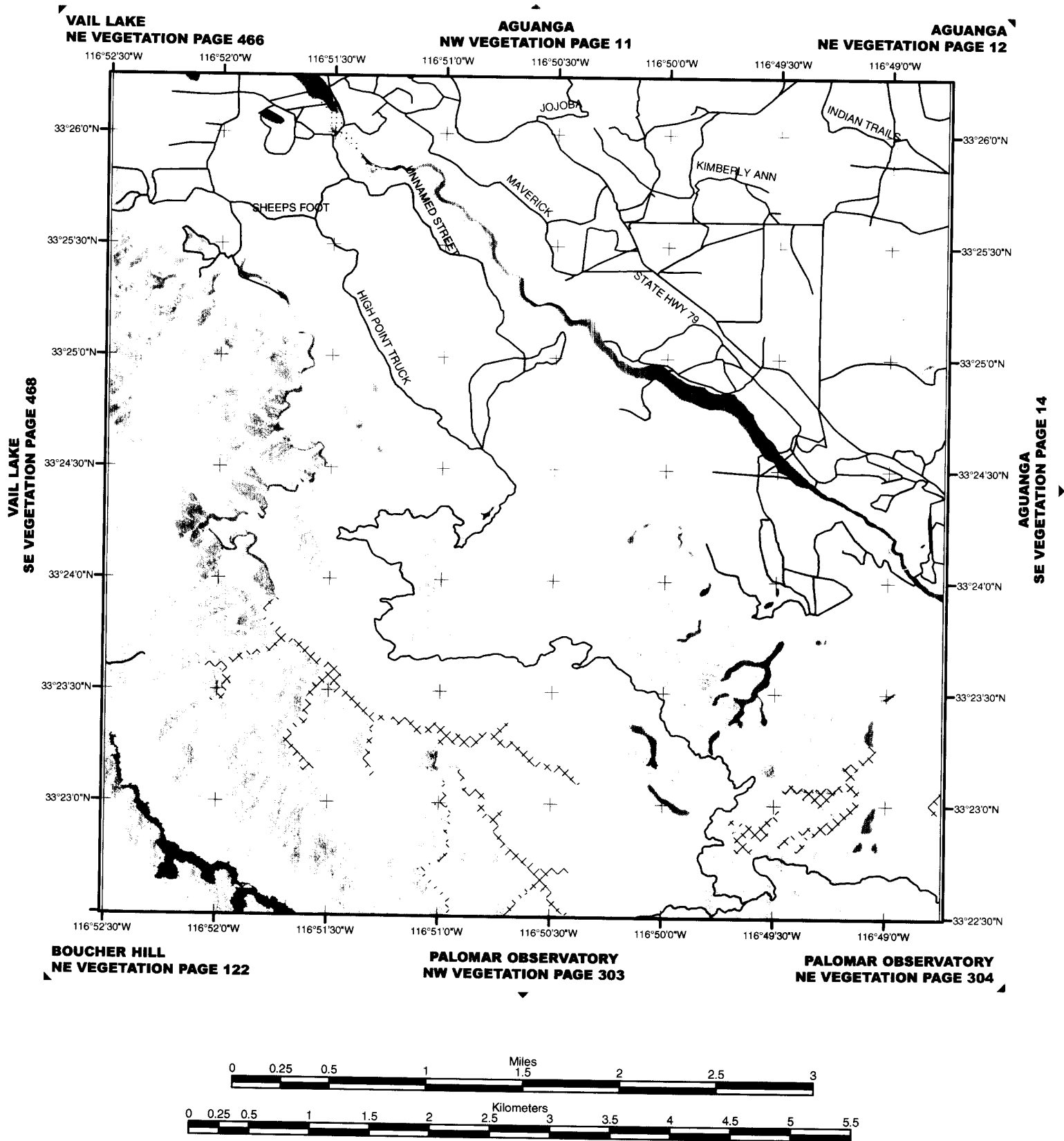


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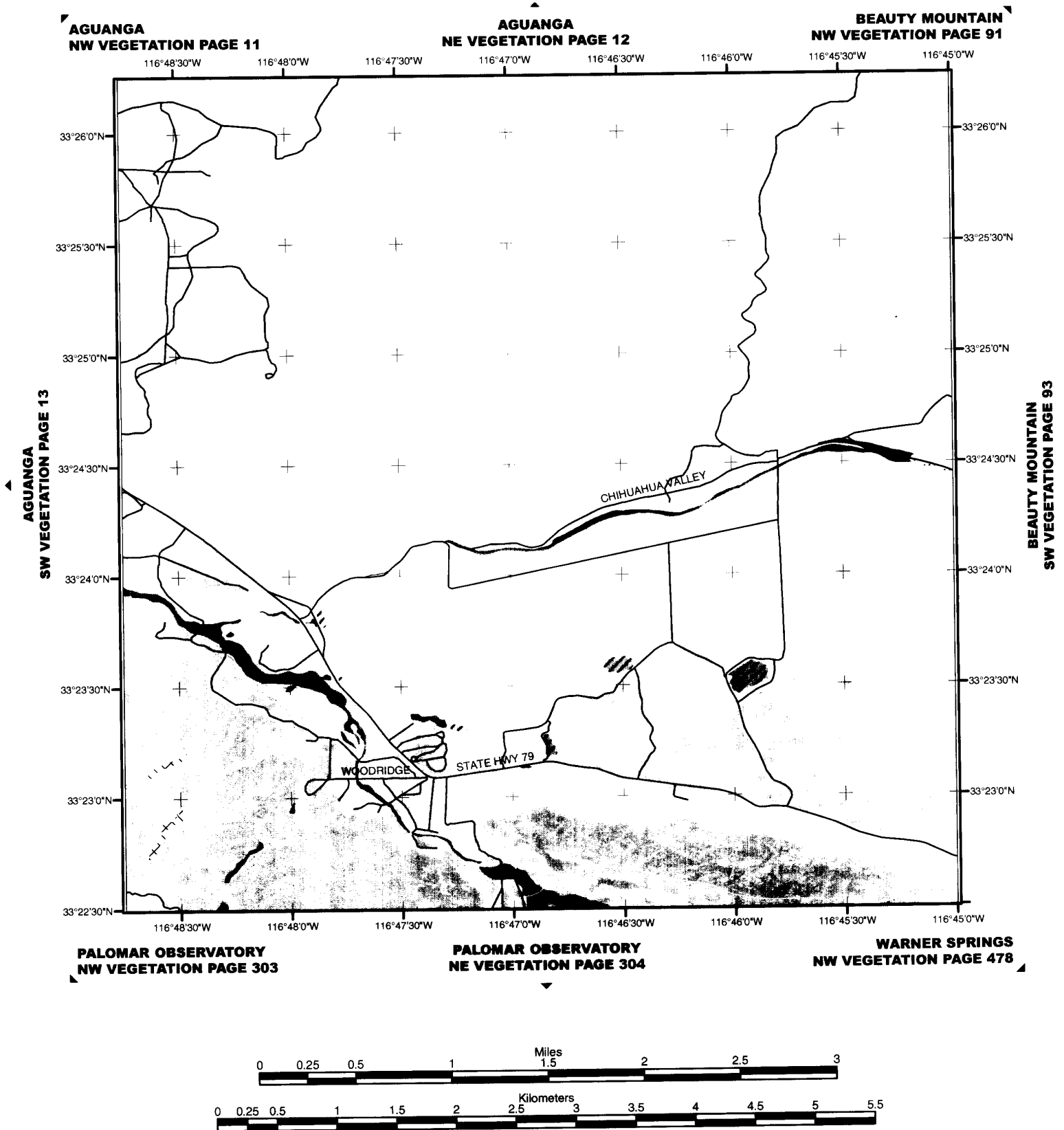
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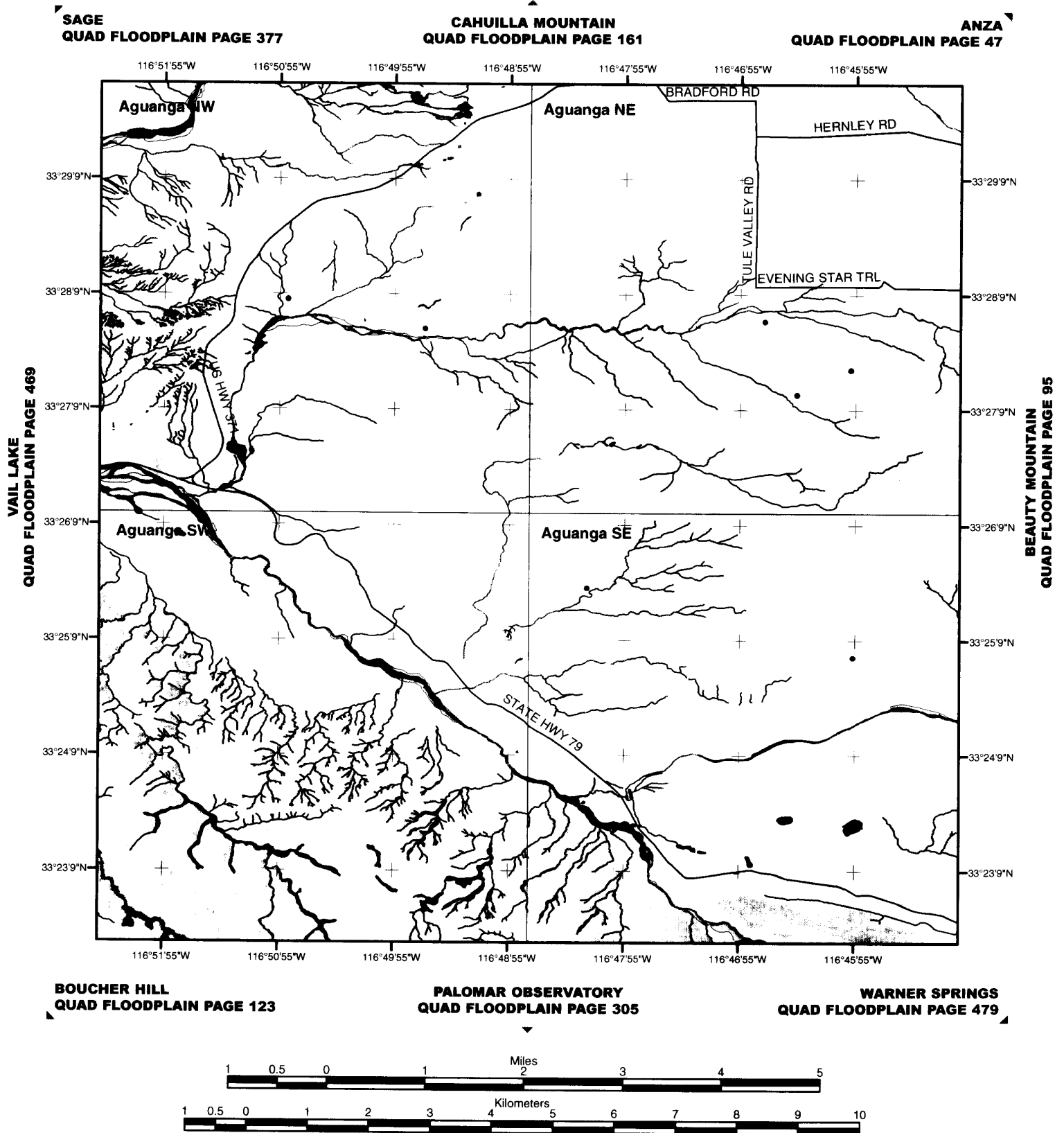


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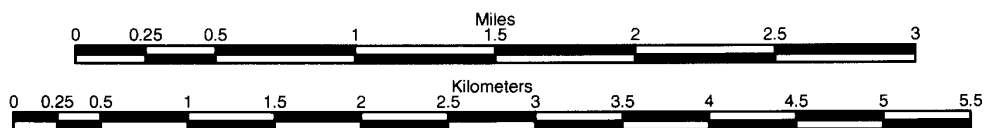
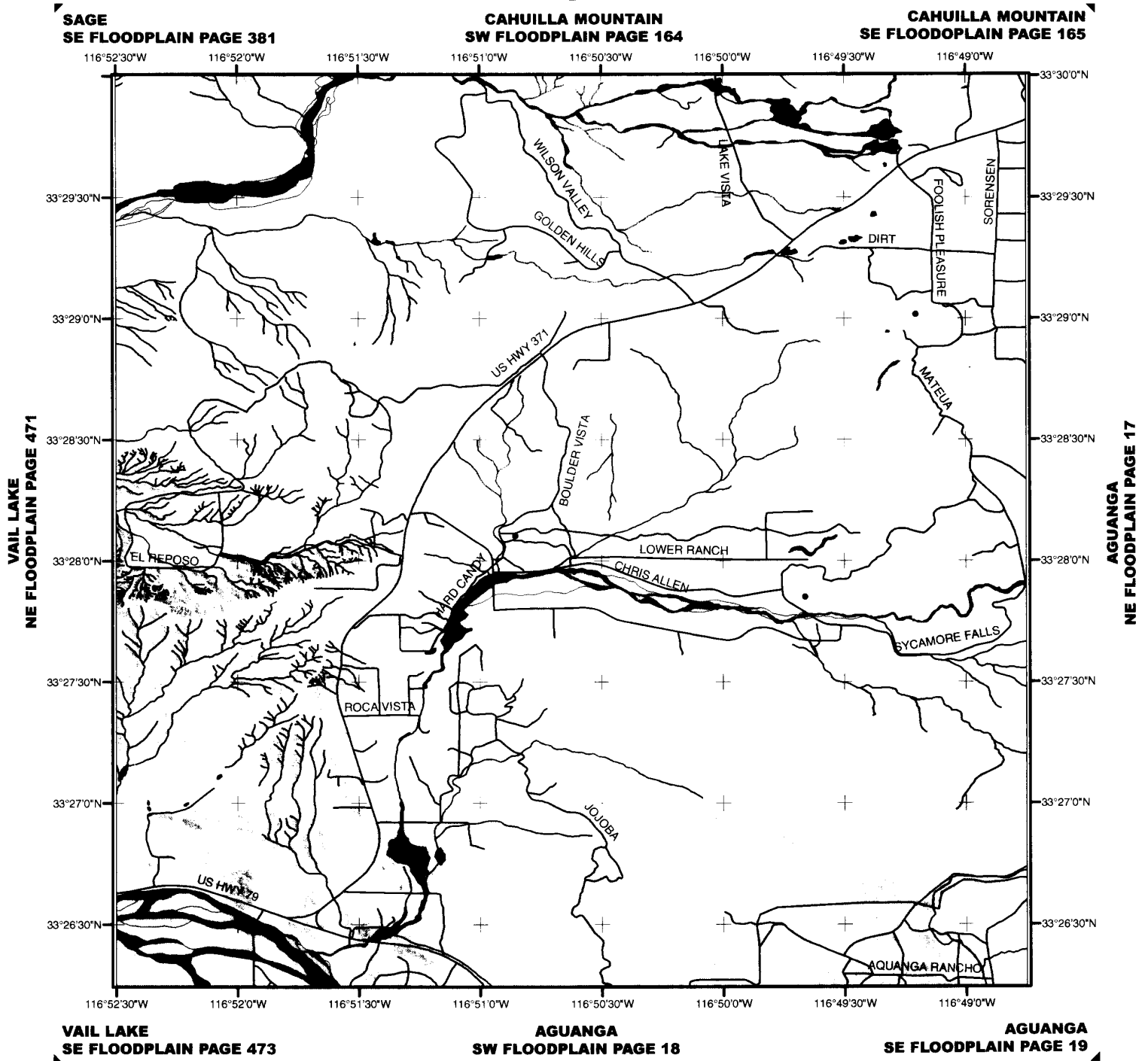


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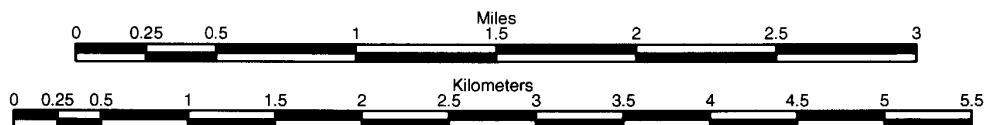
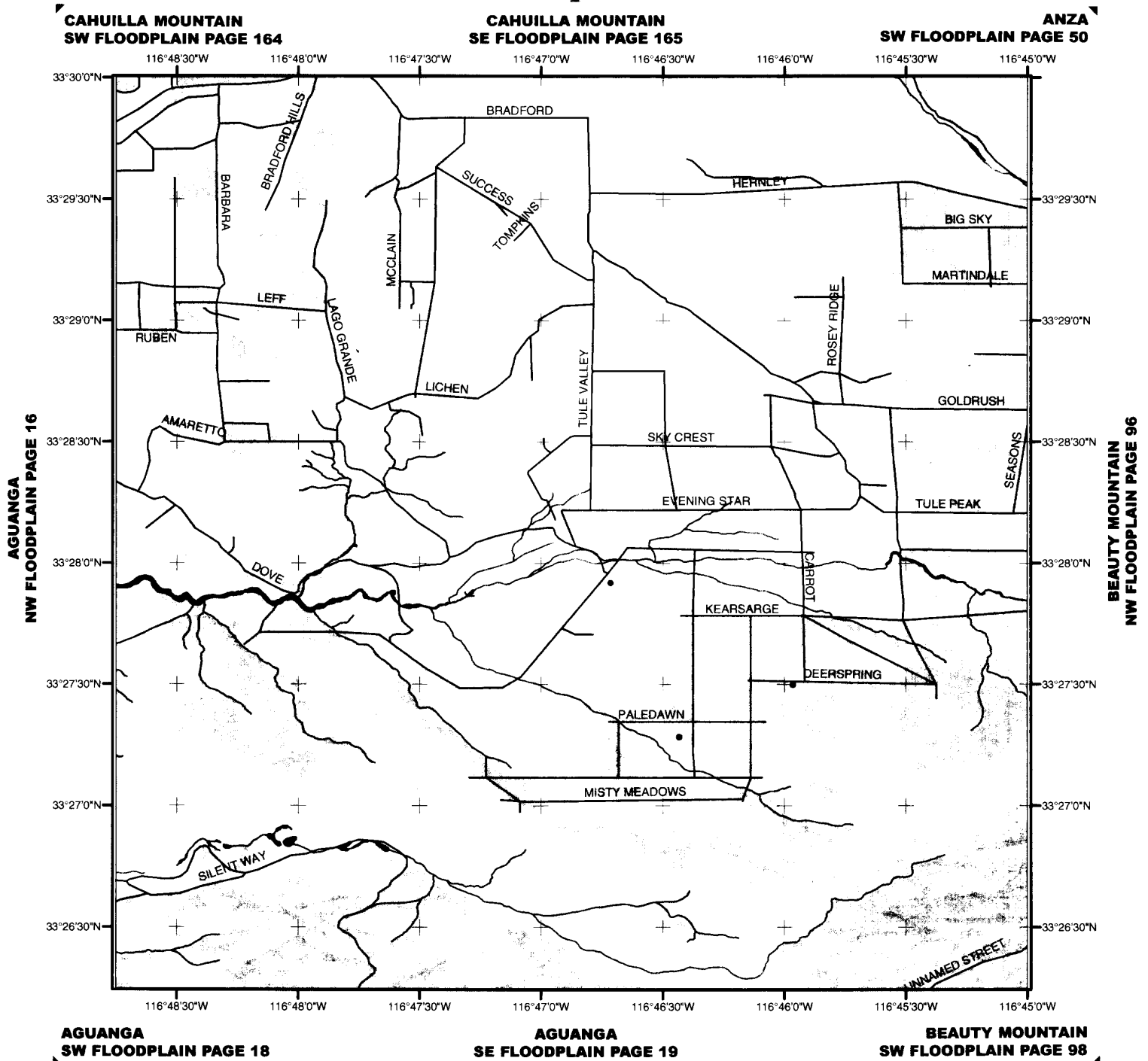
Hydrogeomorphic Floodplain Units for Aquatic Resources



Aguanga North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

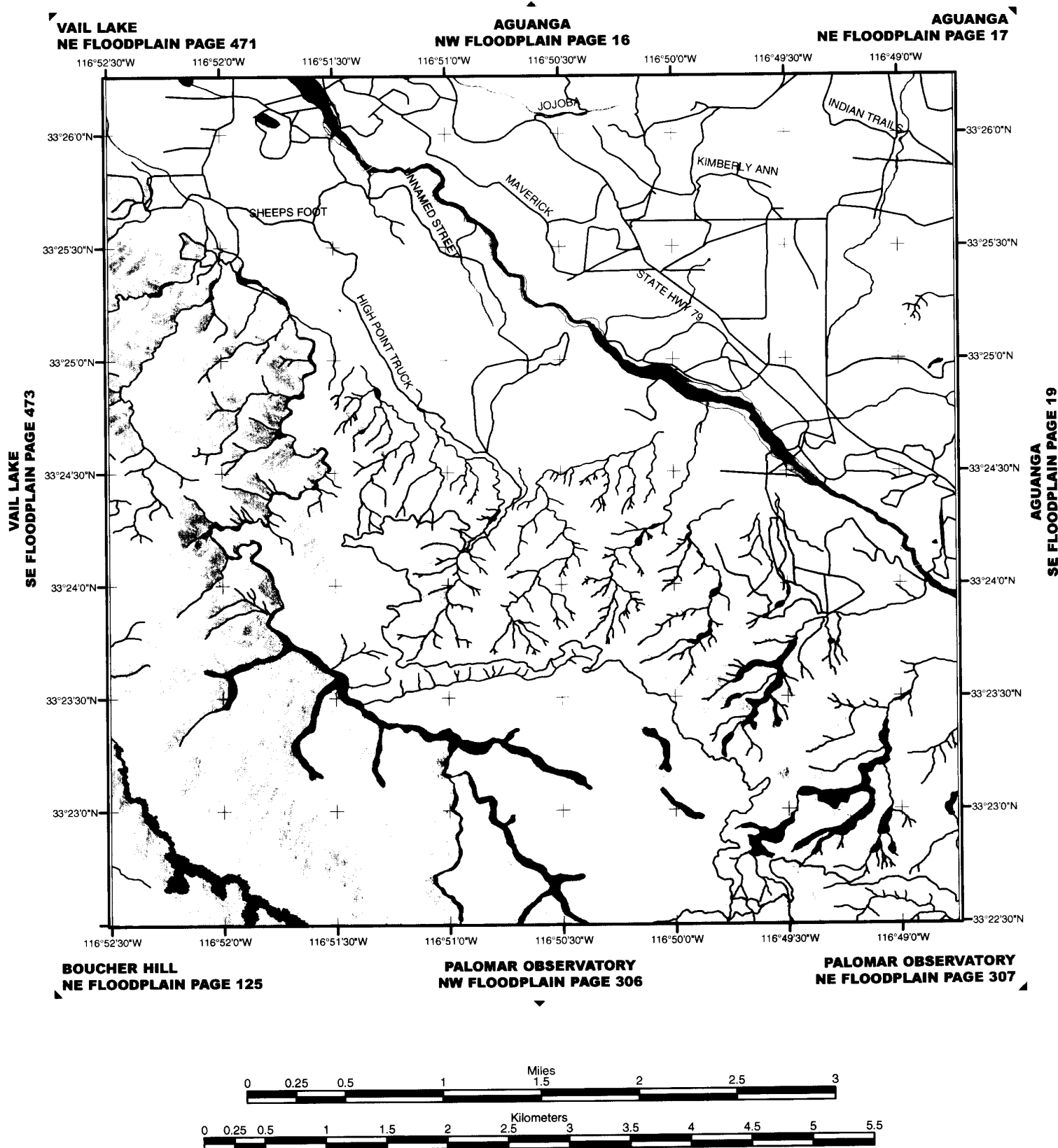


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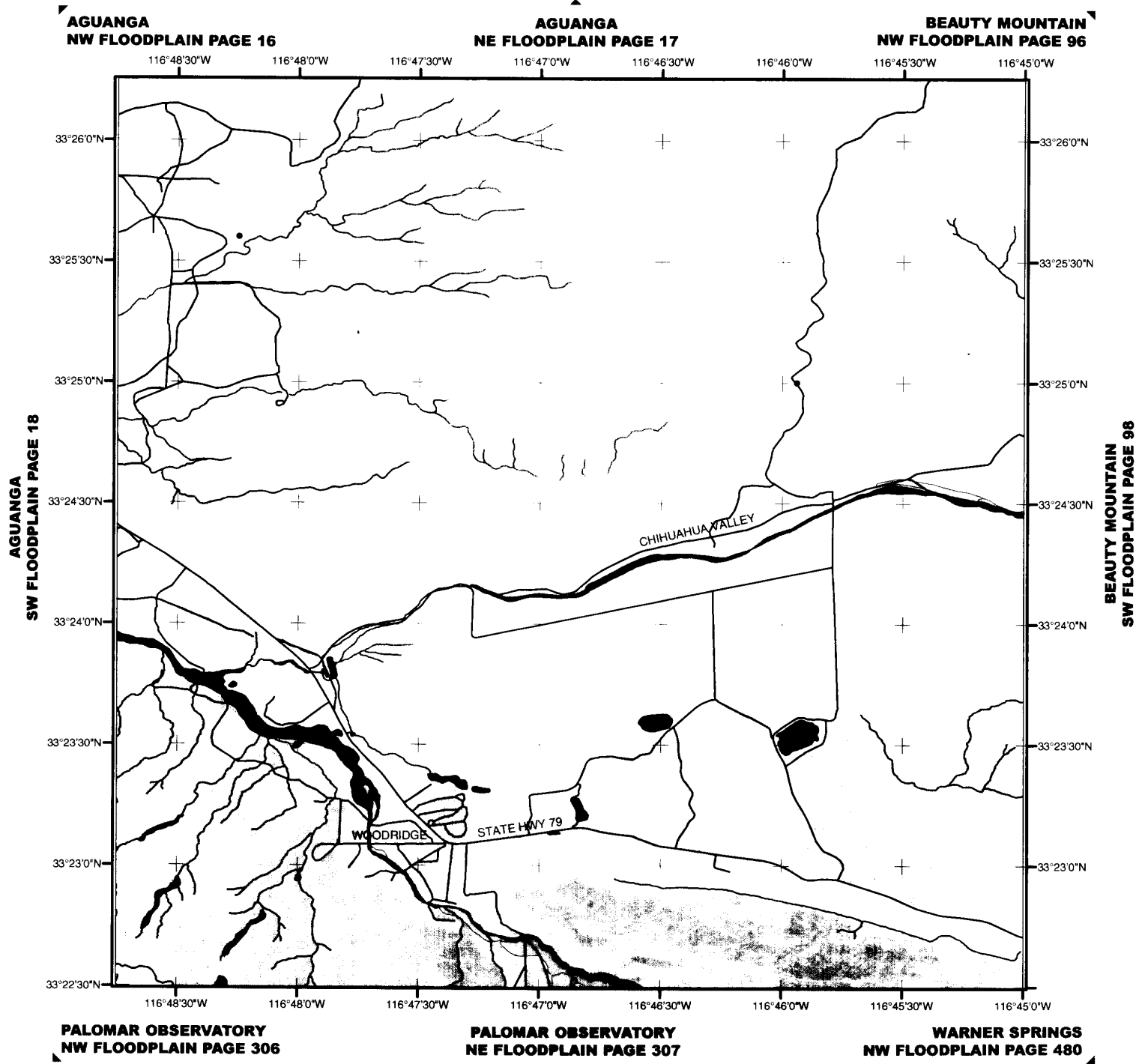


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Hydrogeomorphic Floodplain Units for Aquatic Resources



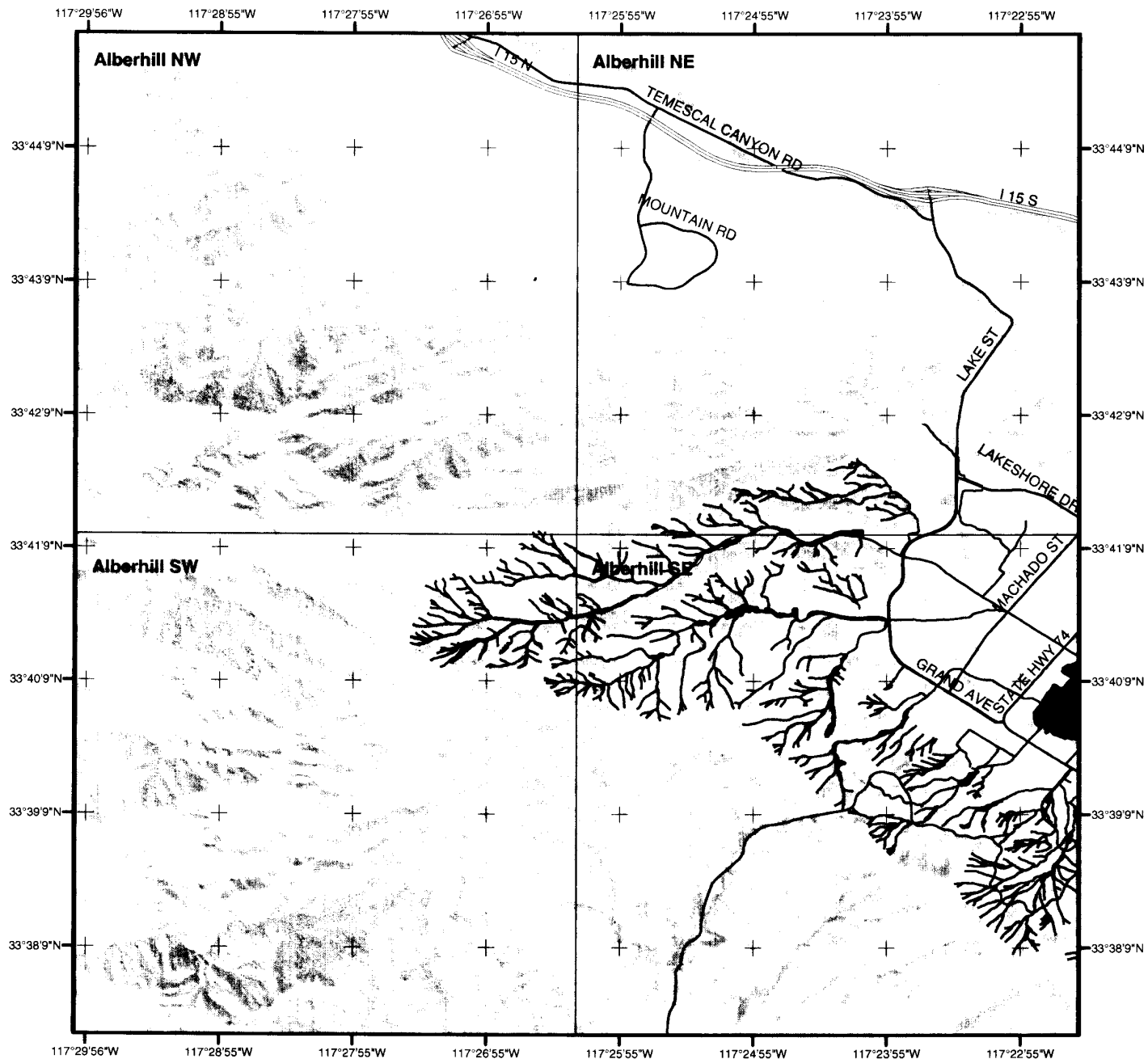
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Alberhill Quadrangle

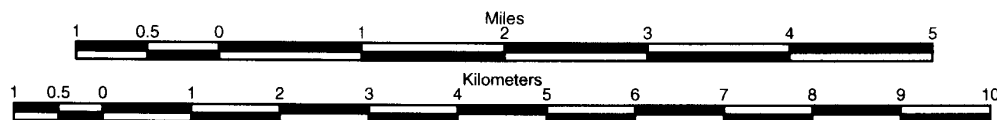
Regulatory Probability Ratings for Aquatic Resources

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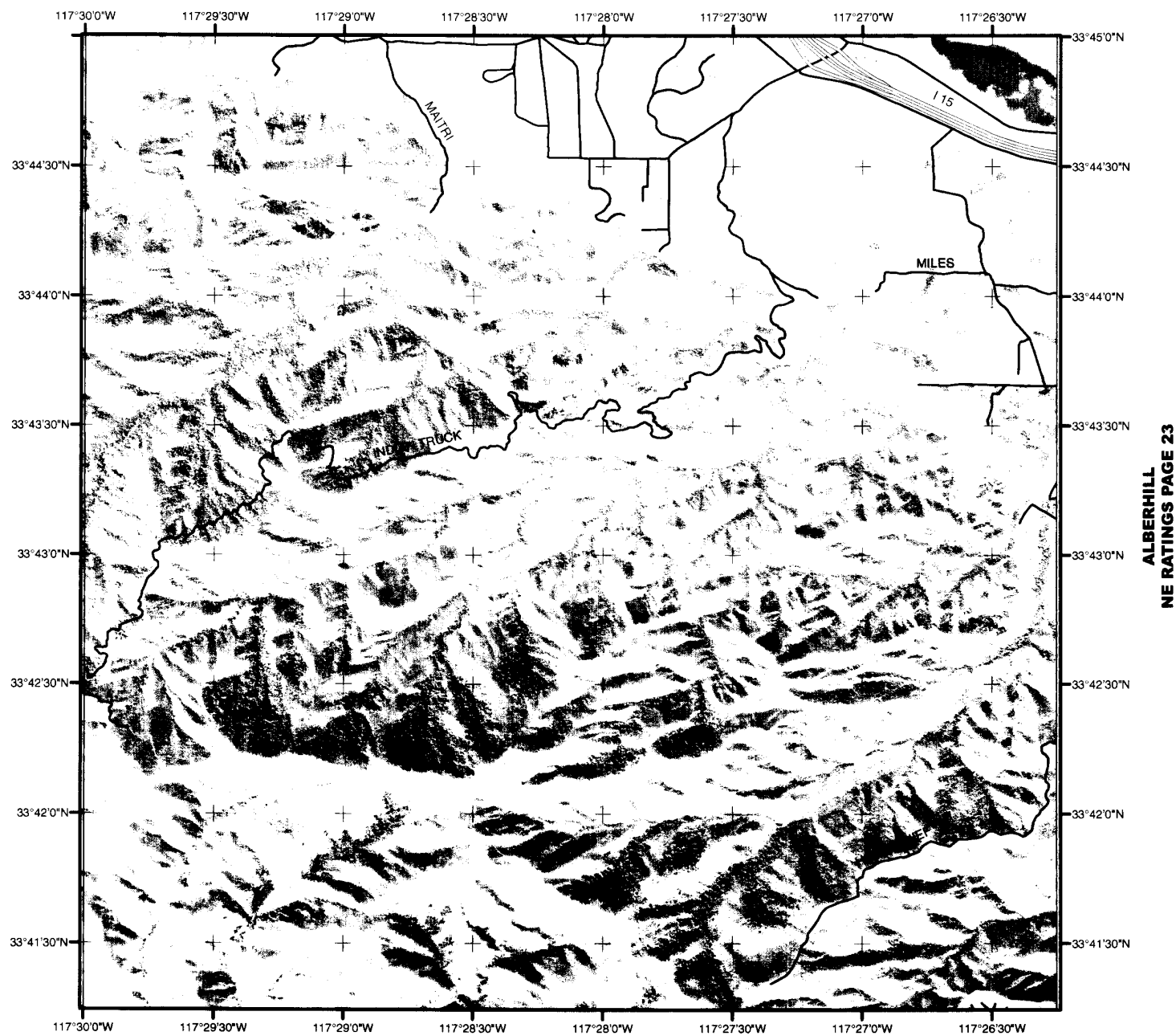


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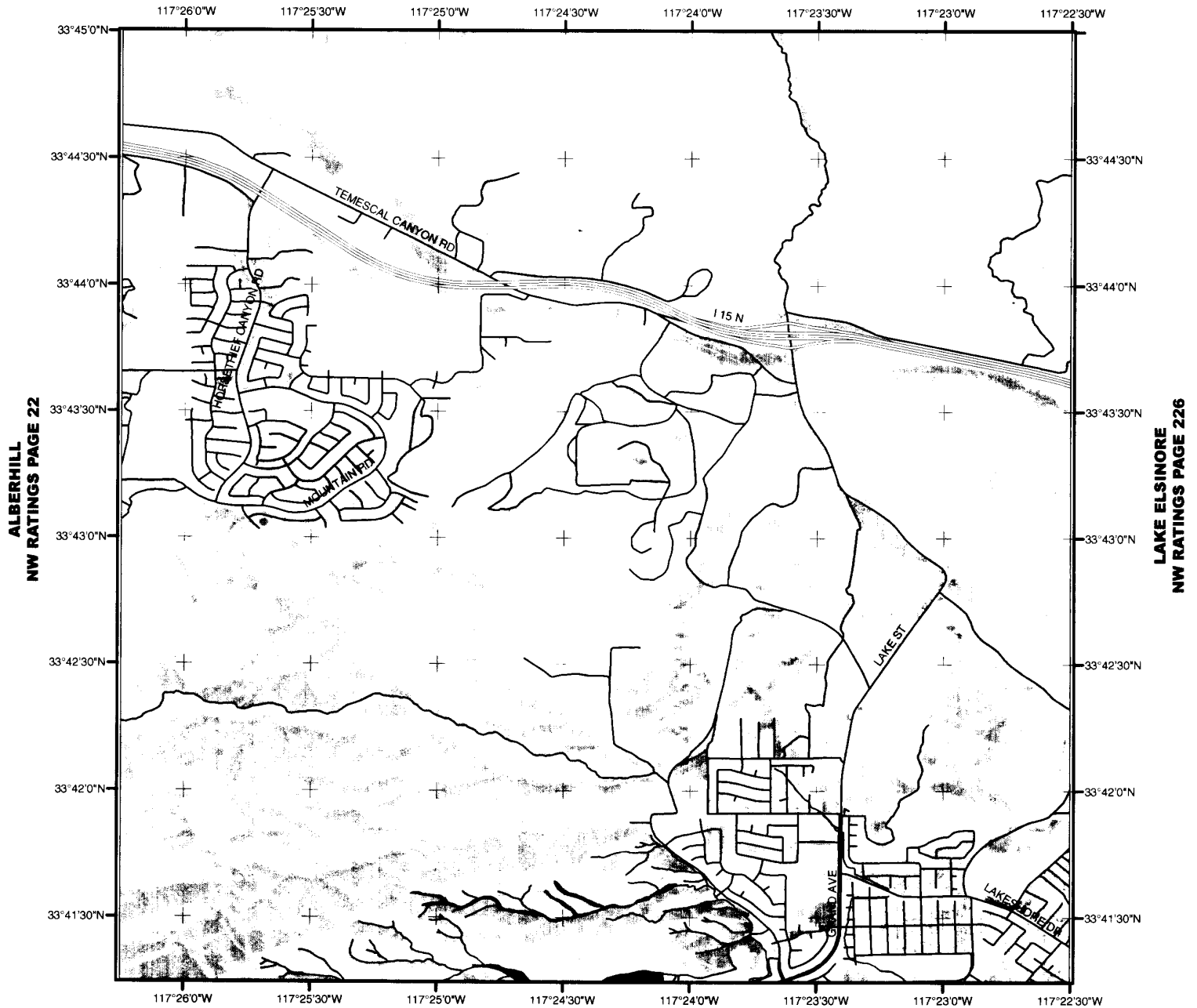
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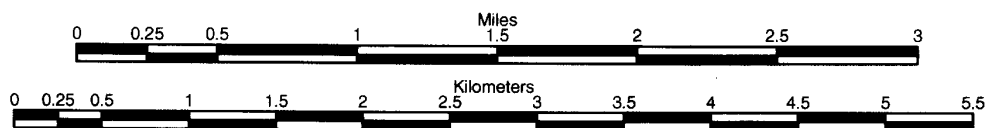
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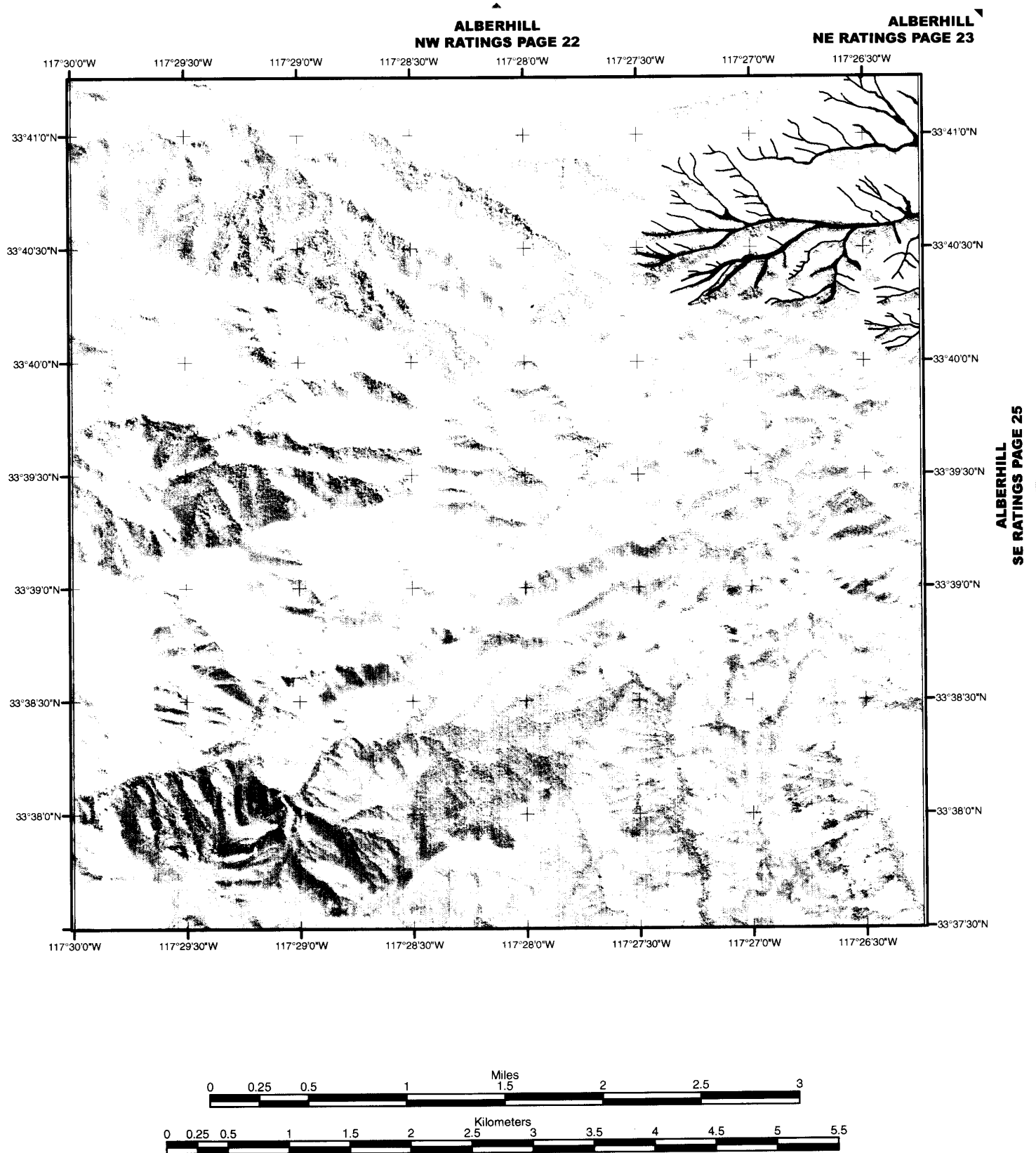
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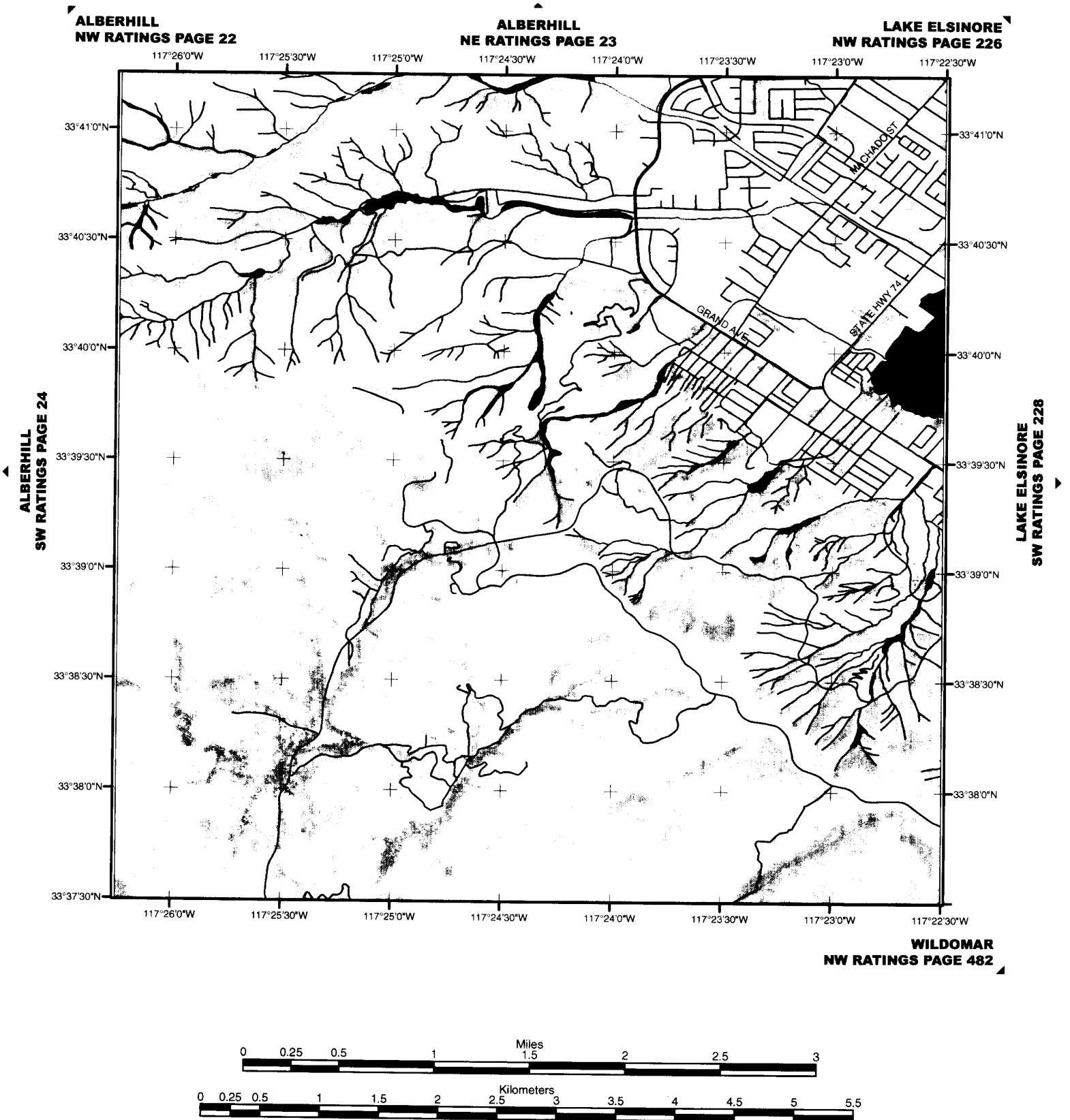
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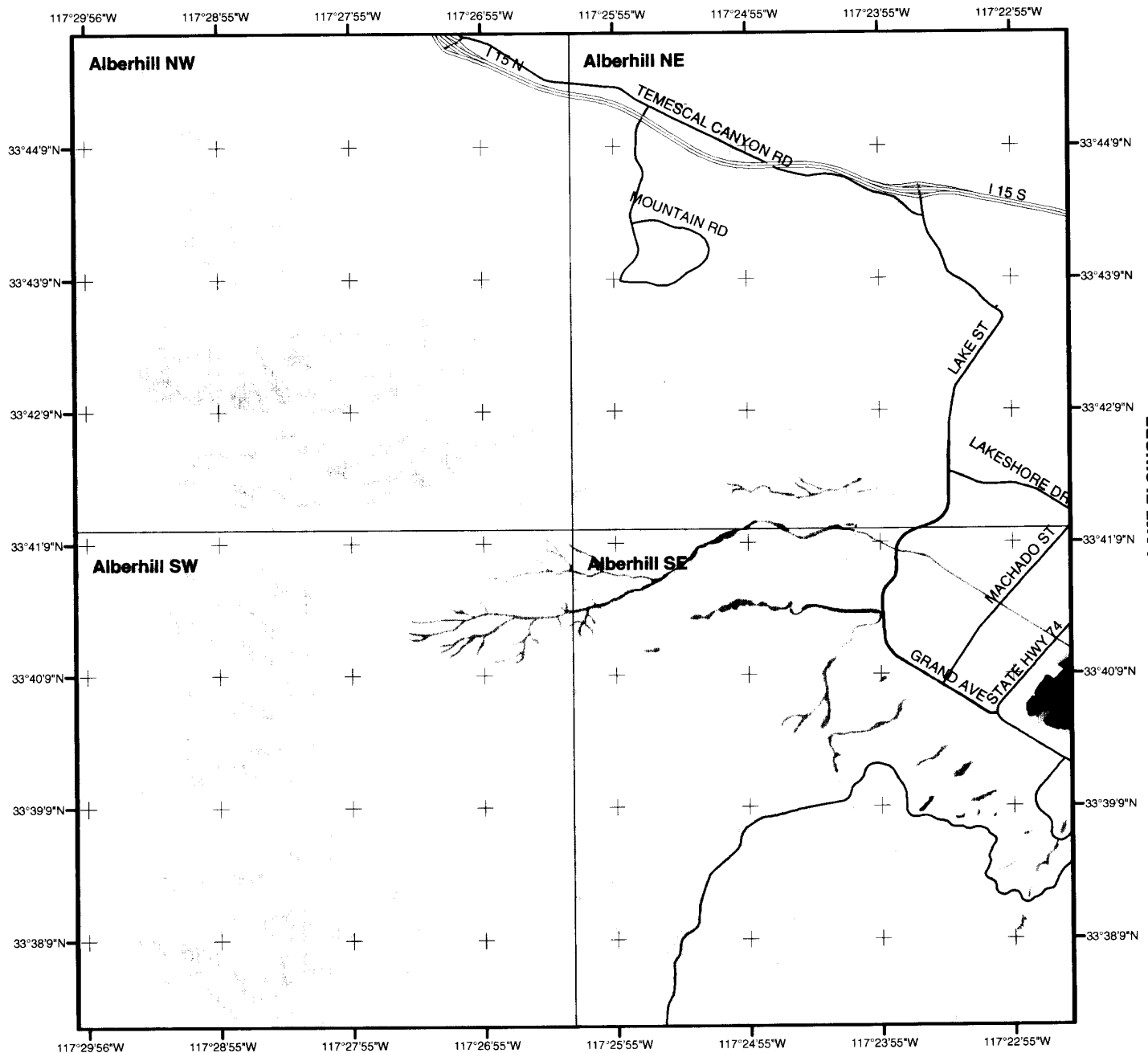
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Alberhill Quadrangle

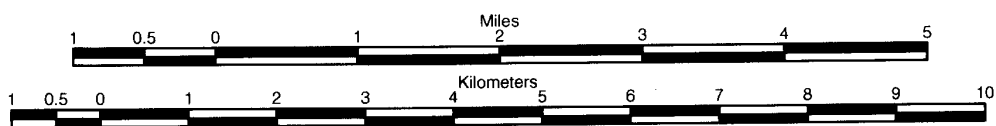
Vegetation Species Association Units for Aquatic Resources

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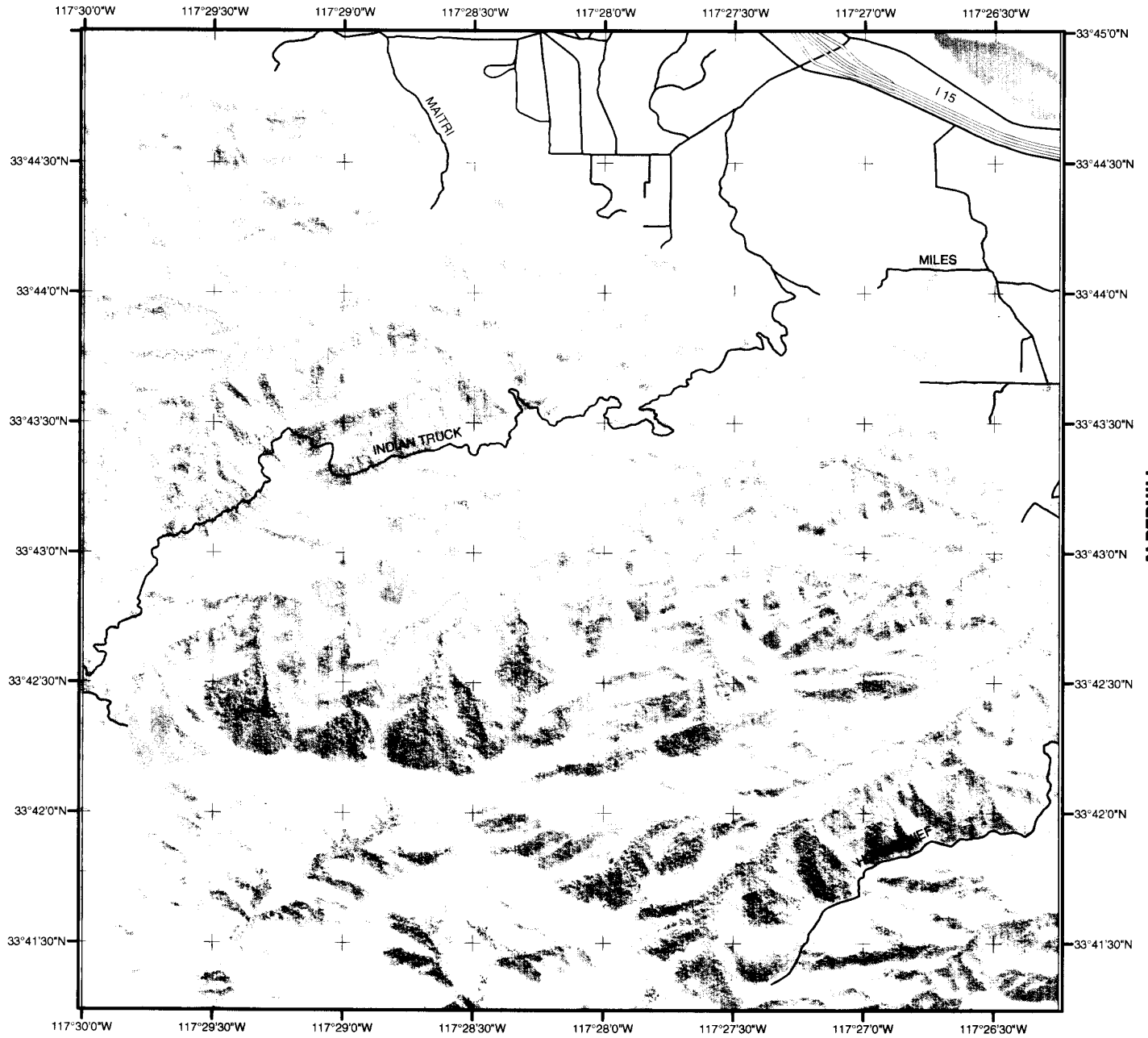


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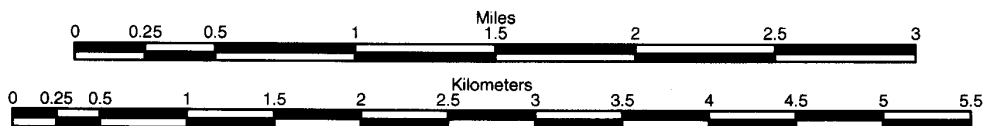
Alberhill North West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



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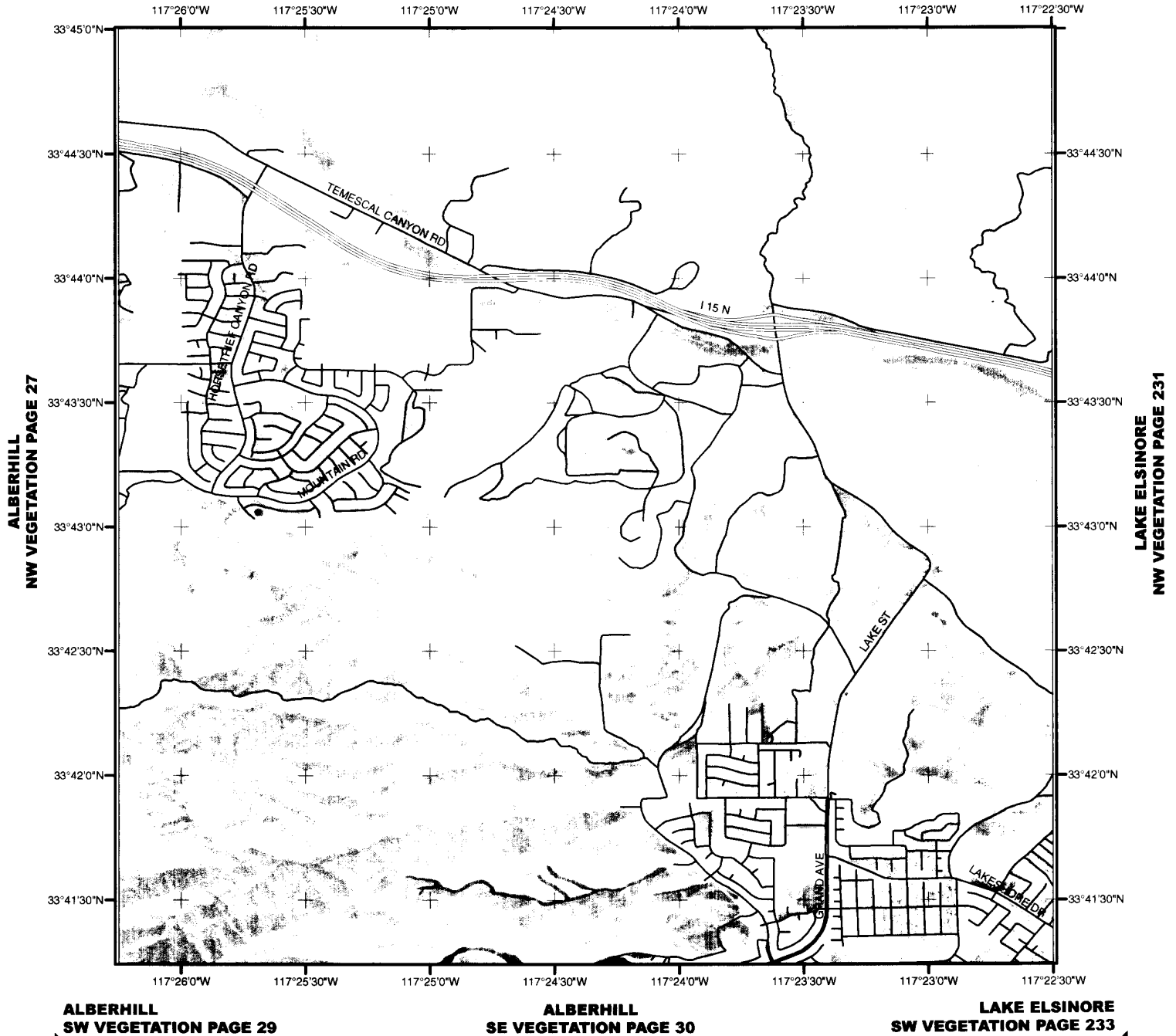
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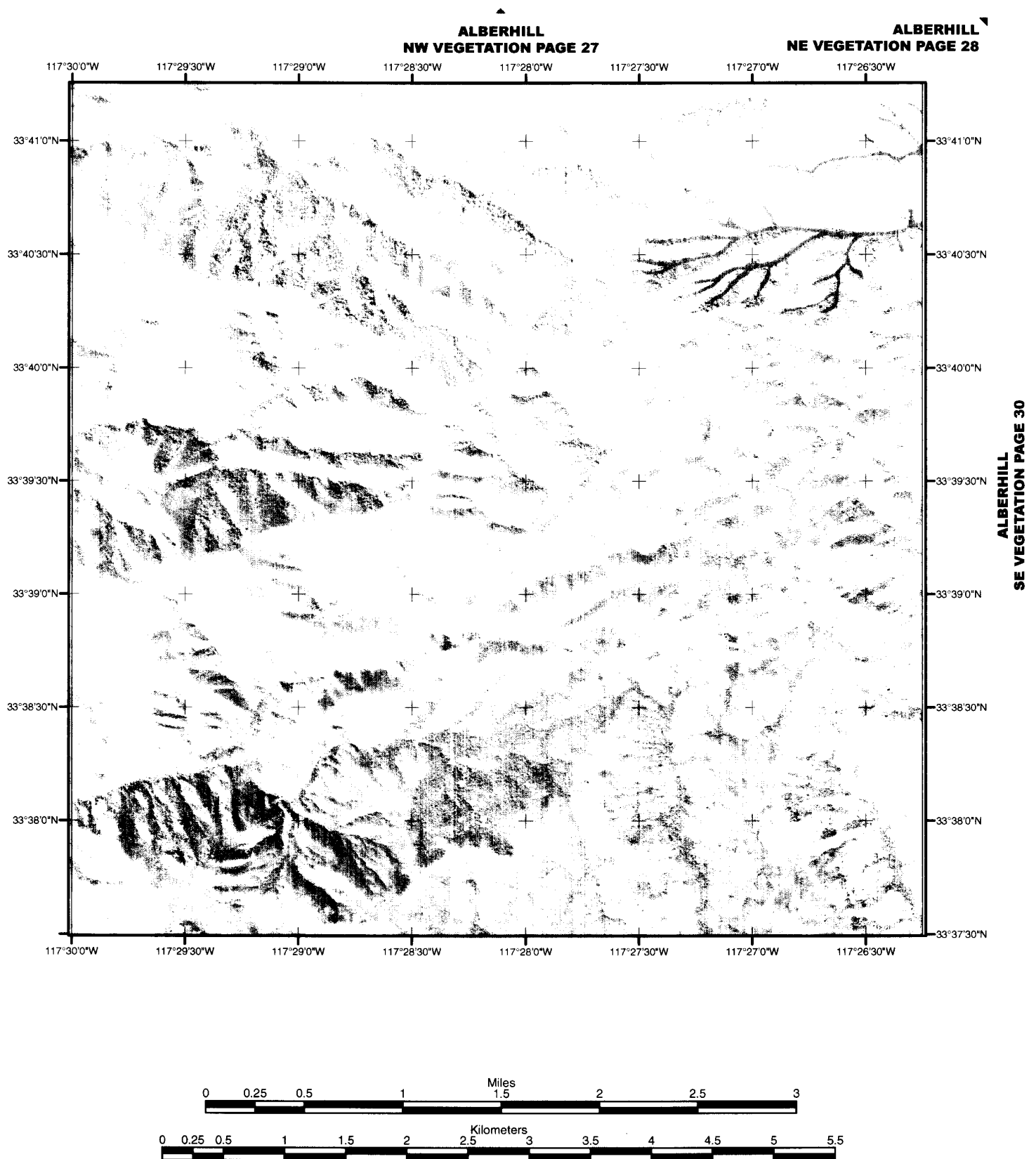


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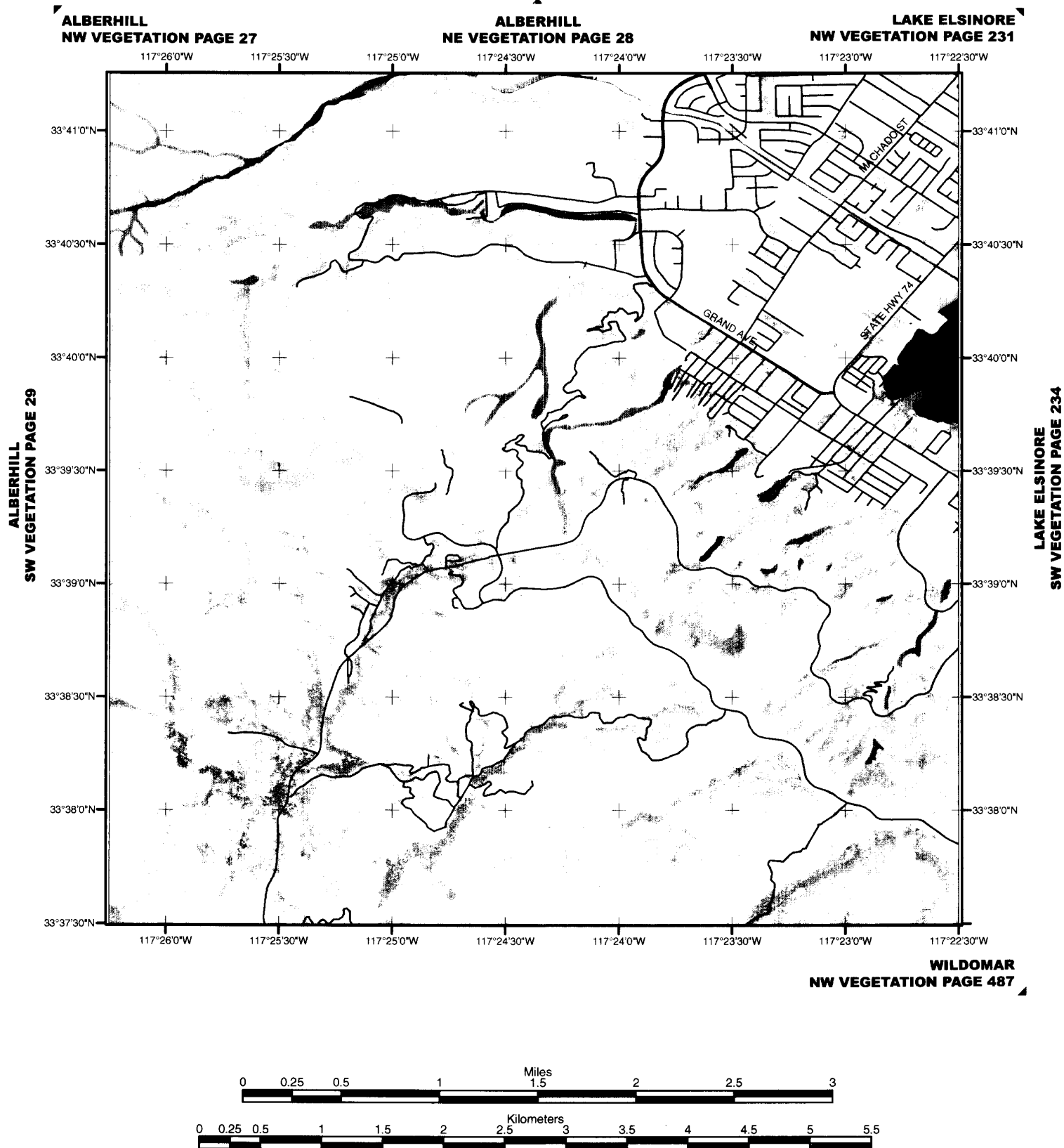
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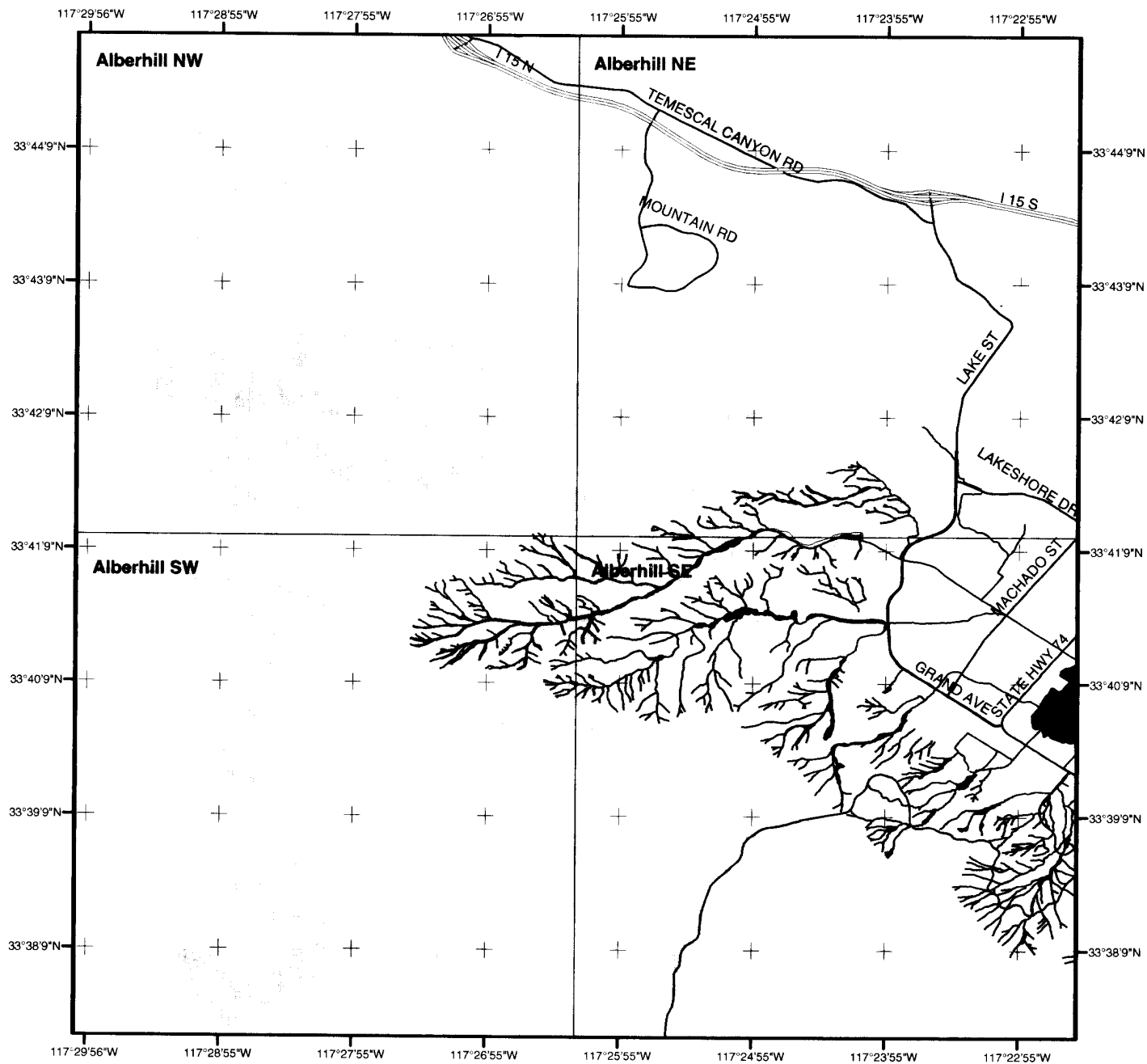
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Alberhill Quadrangle

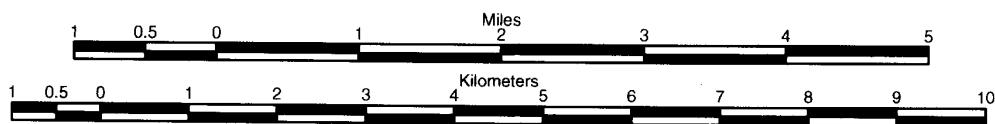
Hydrogeomorphic Floodplain Units for Aquatic Resources

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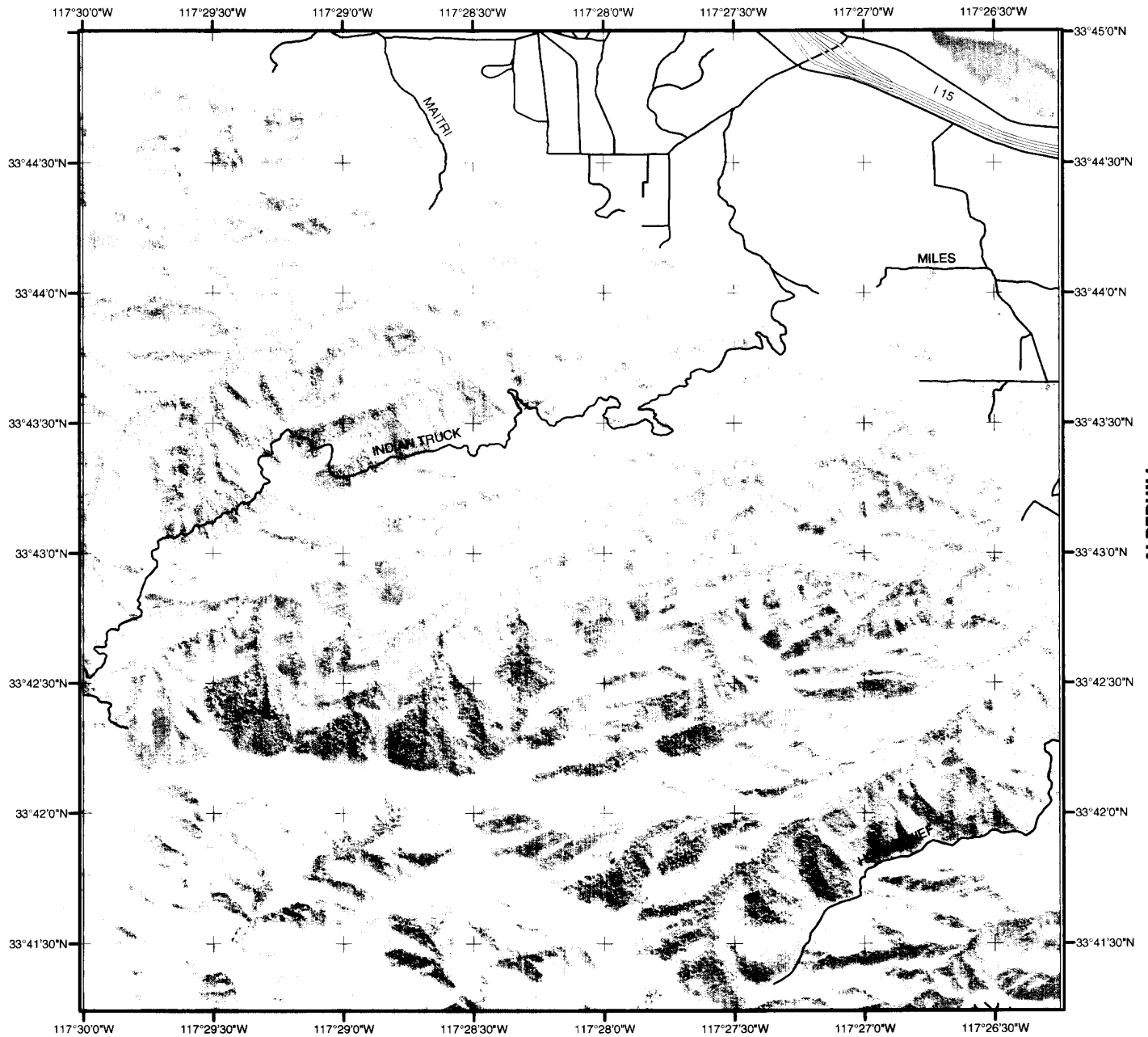


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Alberhill North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

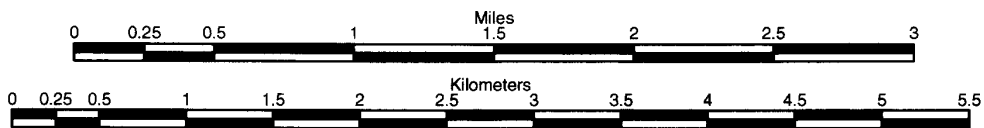
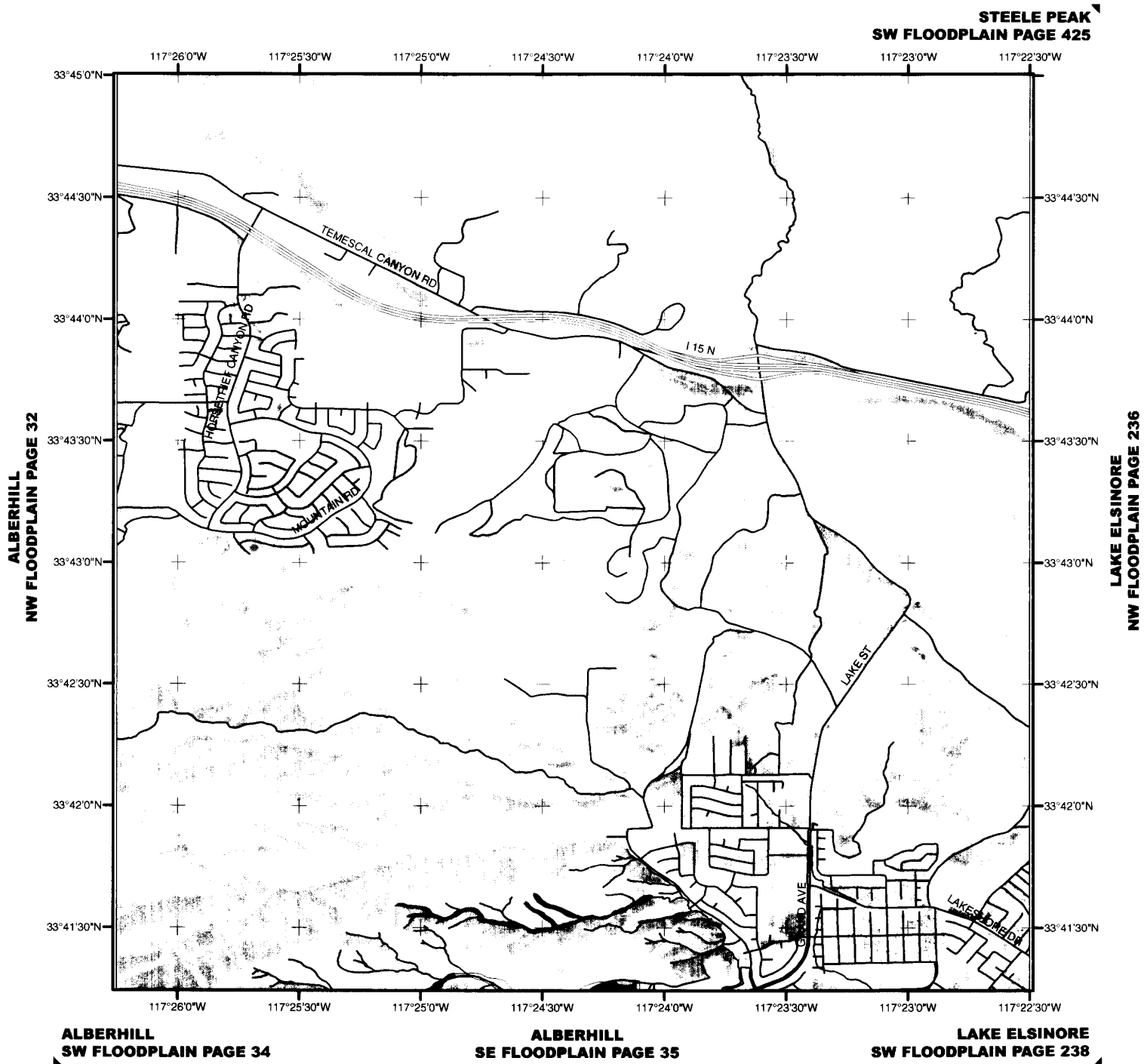


ALBERHILL
SW FLOODPLAIN PAGE 34

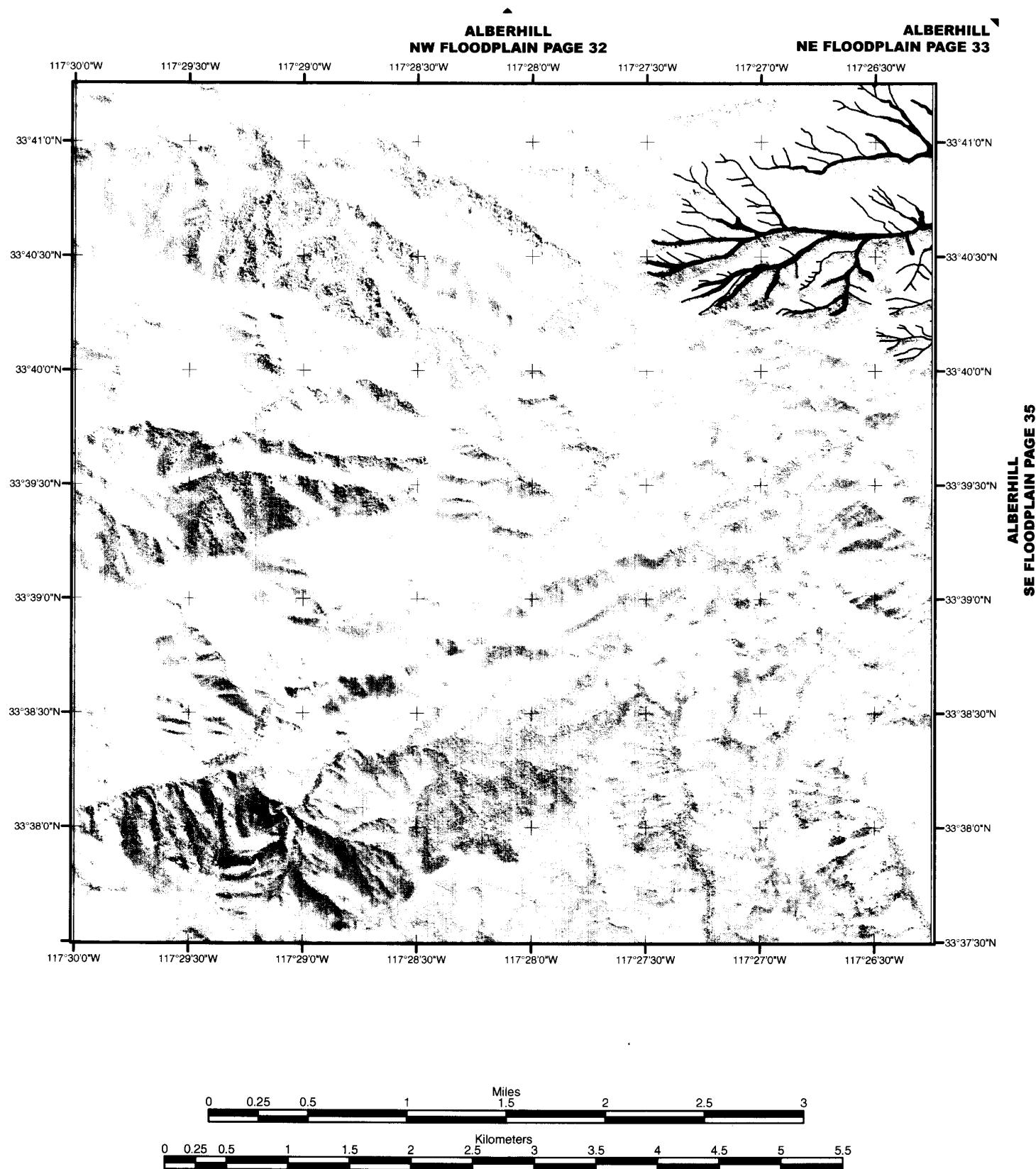
ALBERHILL
SE FLOODPLAIN PAGE 35

ALBERHILL
NE FLOODPLAIN PAGE 33

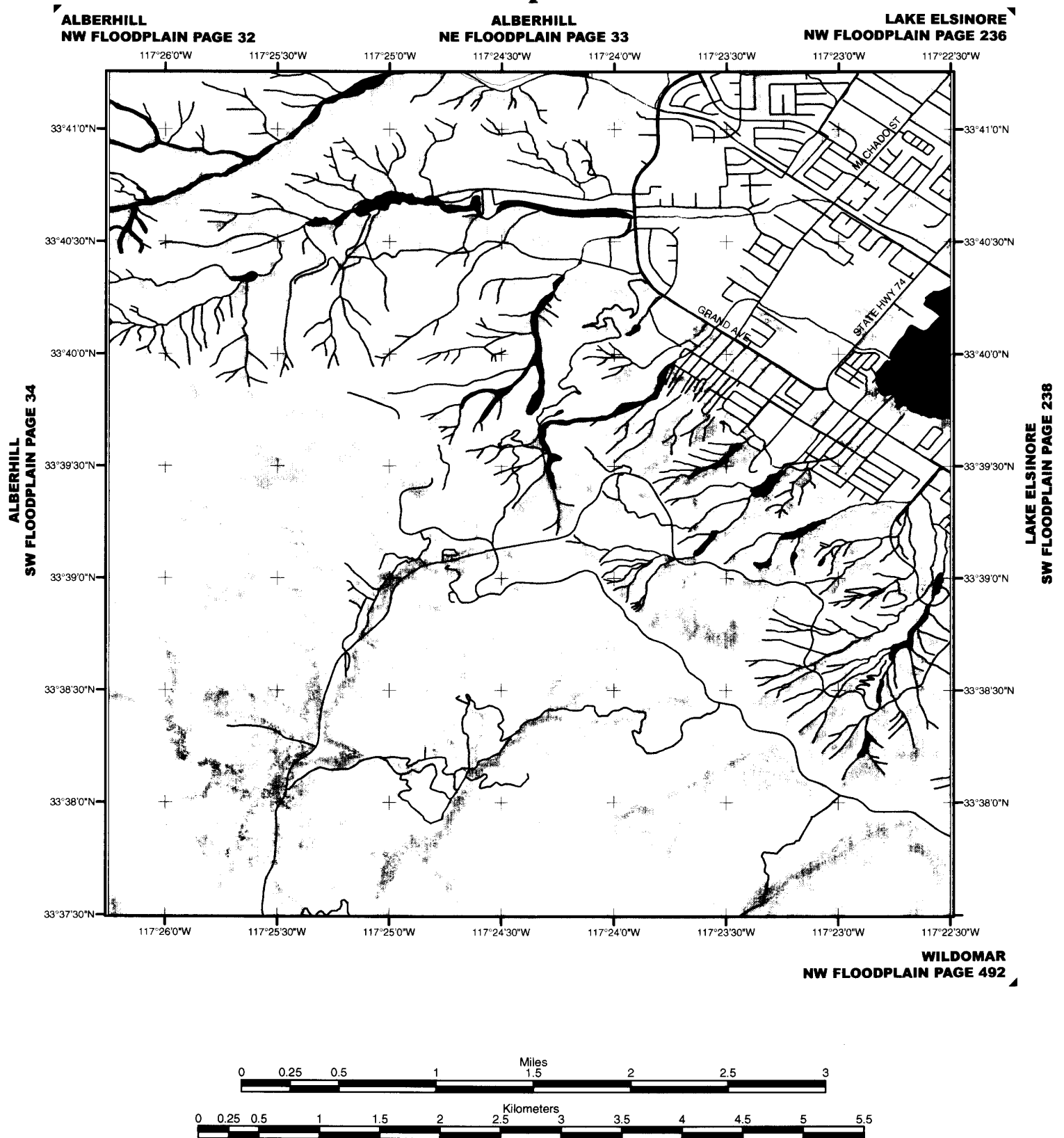
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Alberhill South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

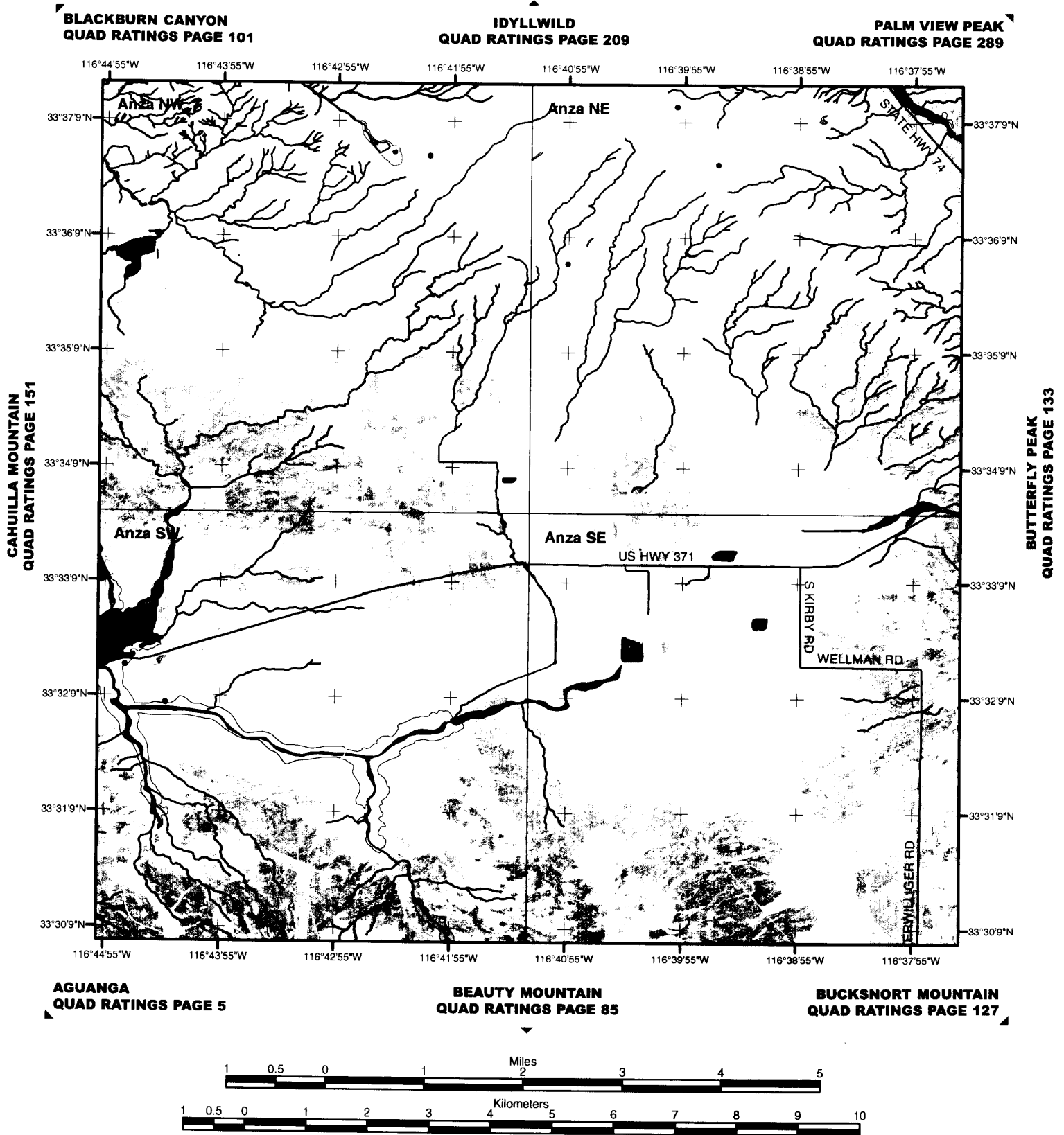


Alberhill South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

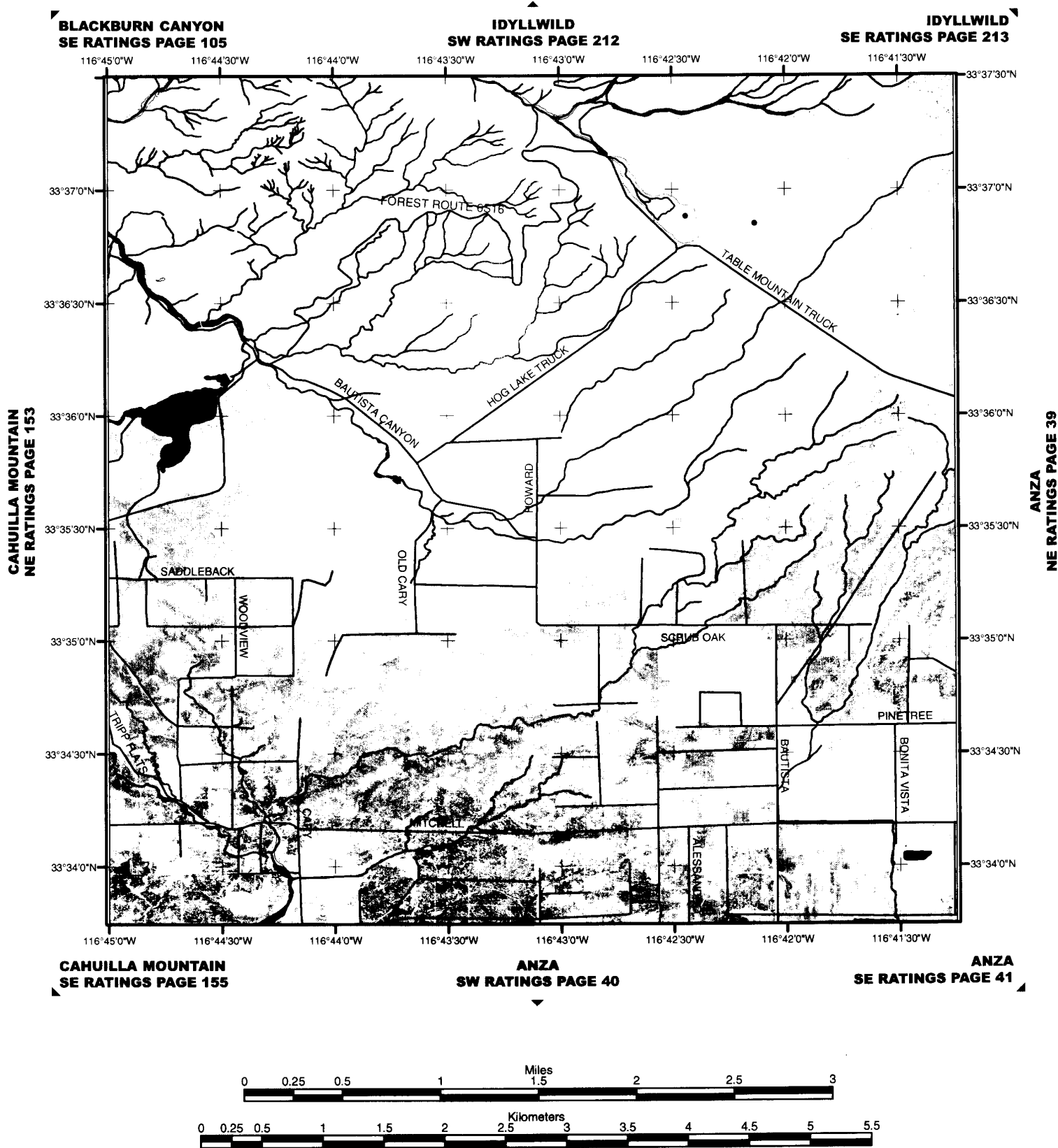


Anza Quadrangle

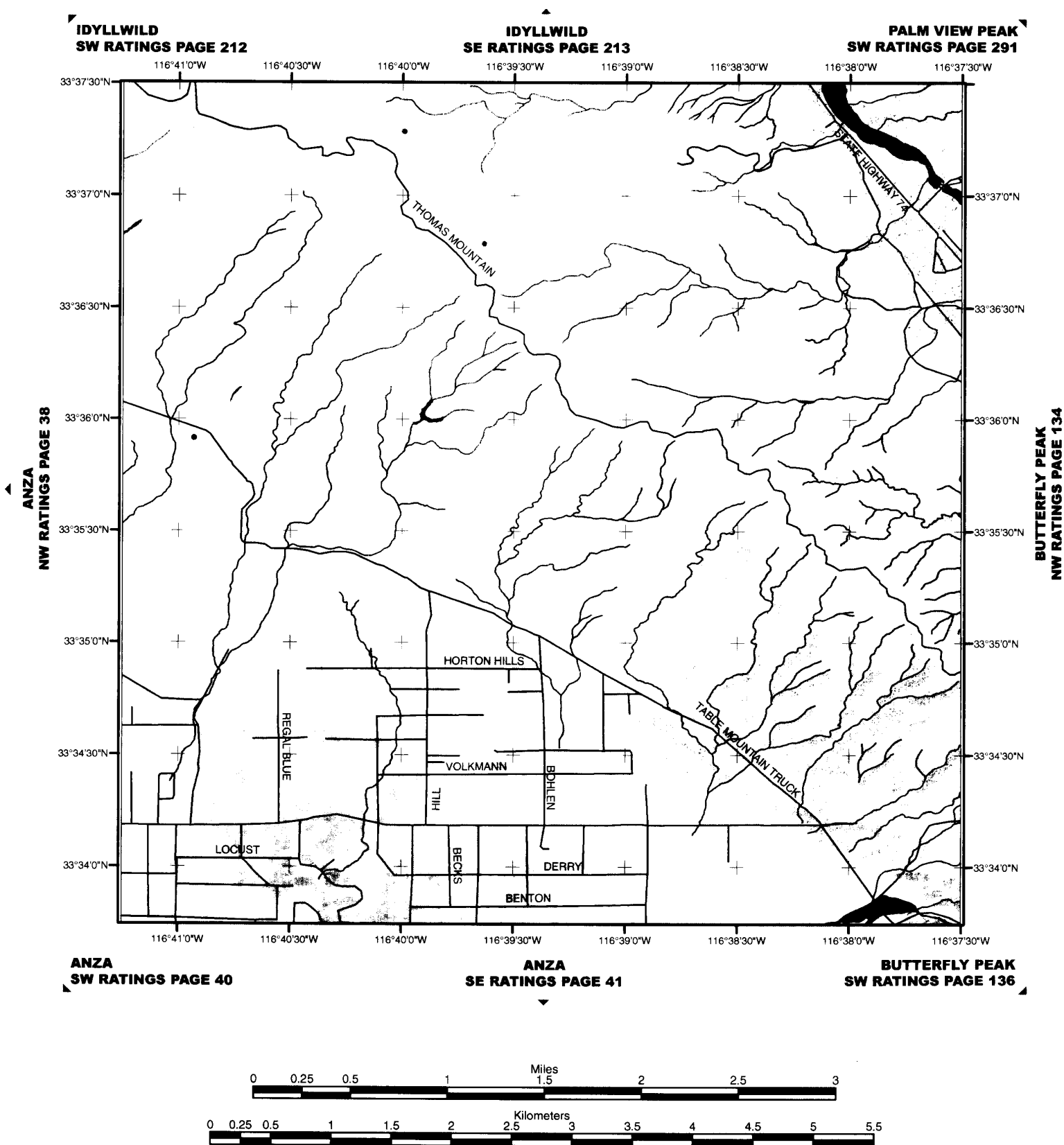
Regulatory Probability Ratings for Aquatic Resources



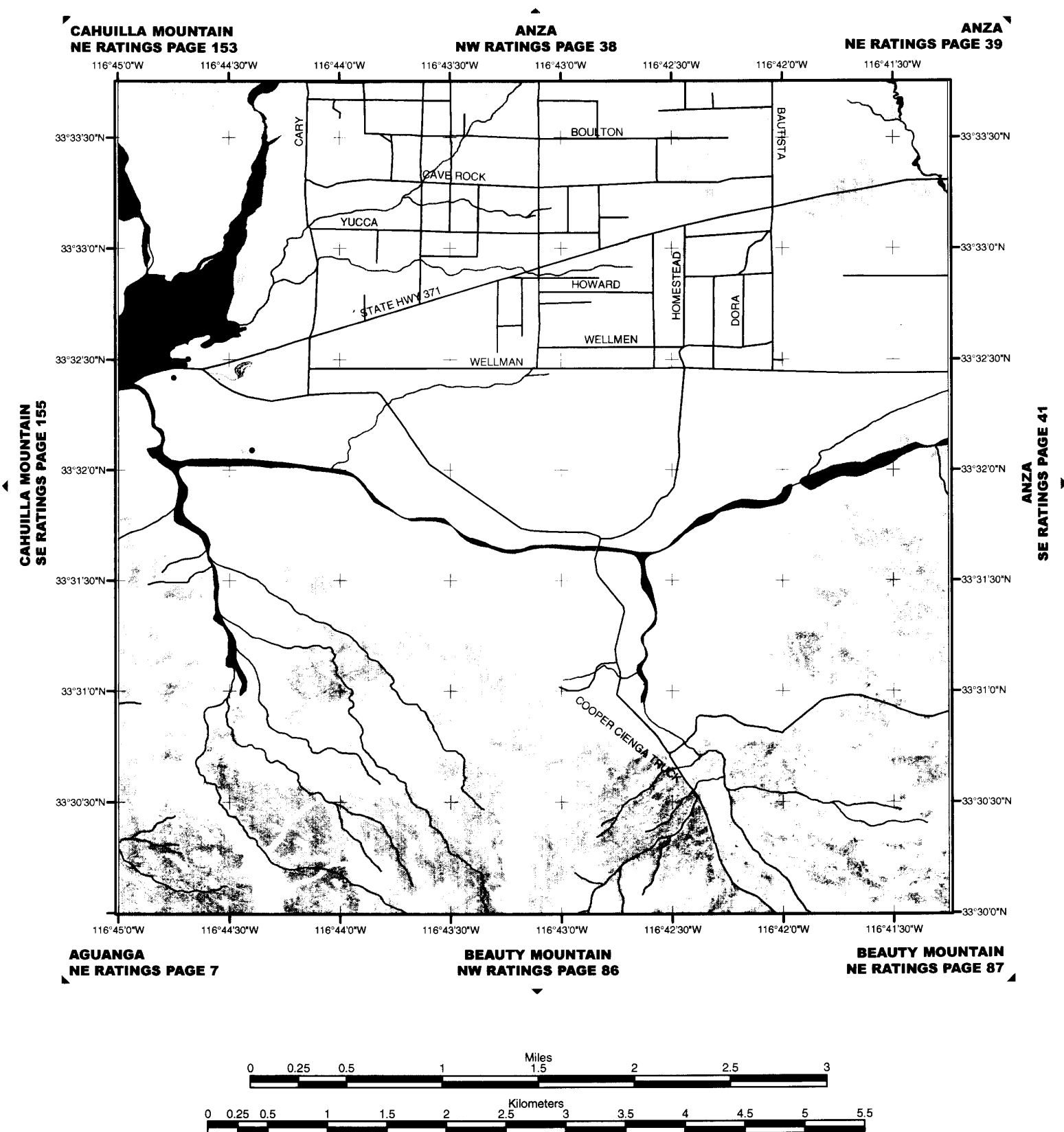
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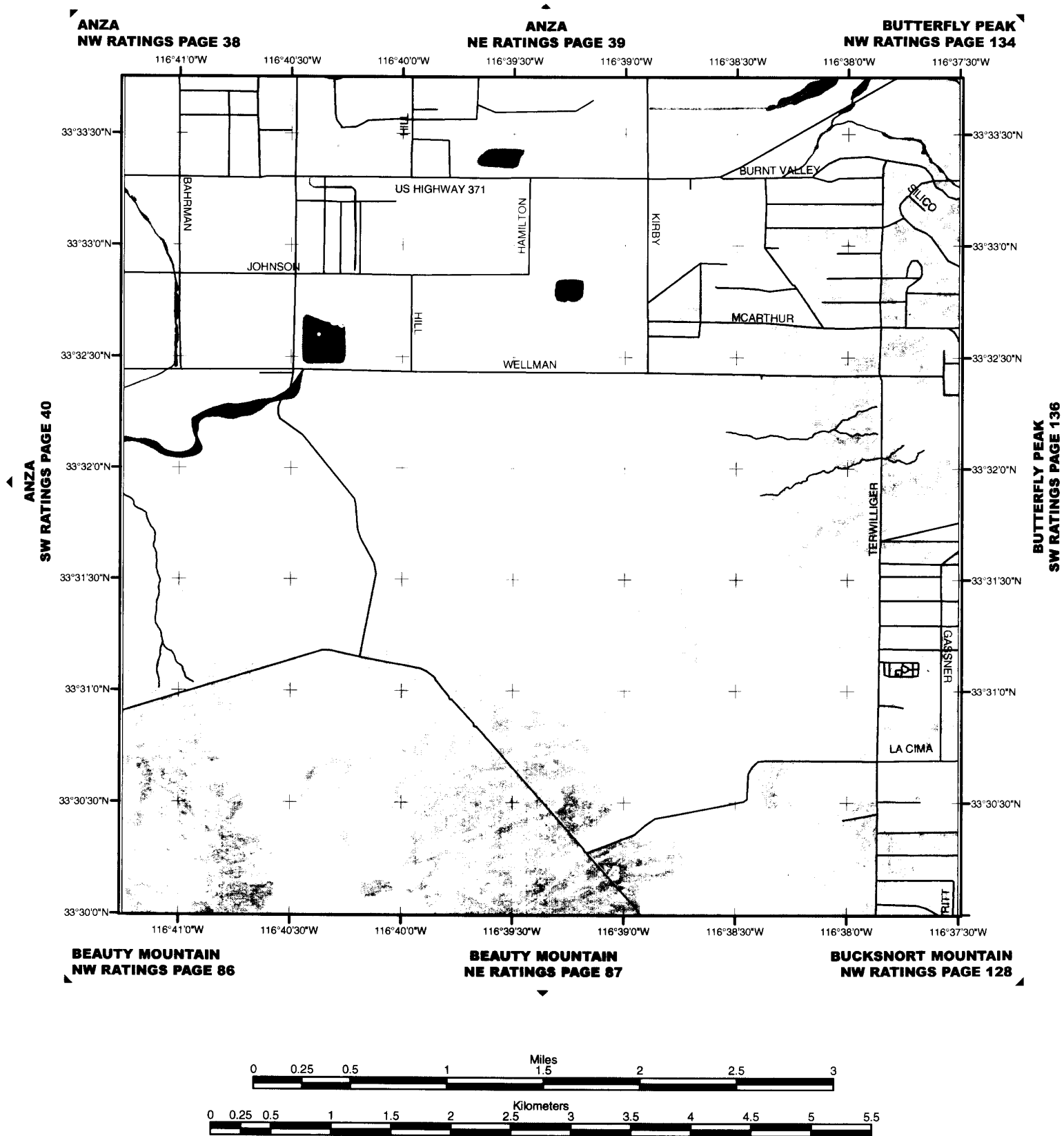
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Anza South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

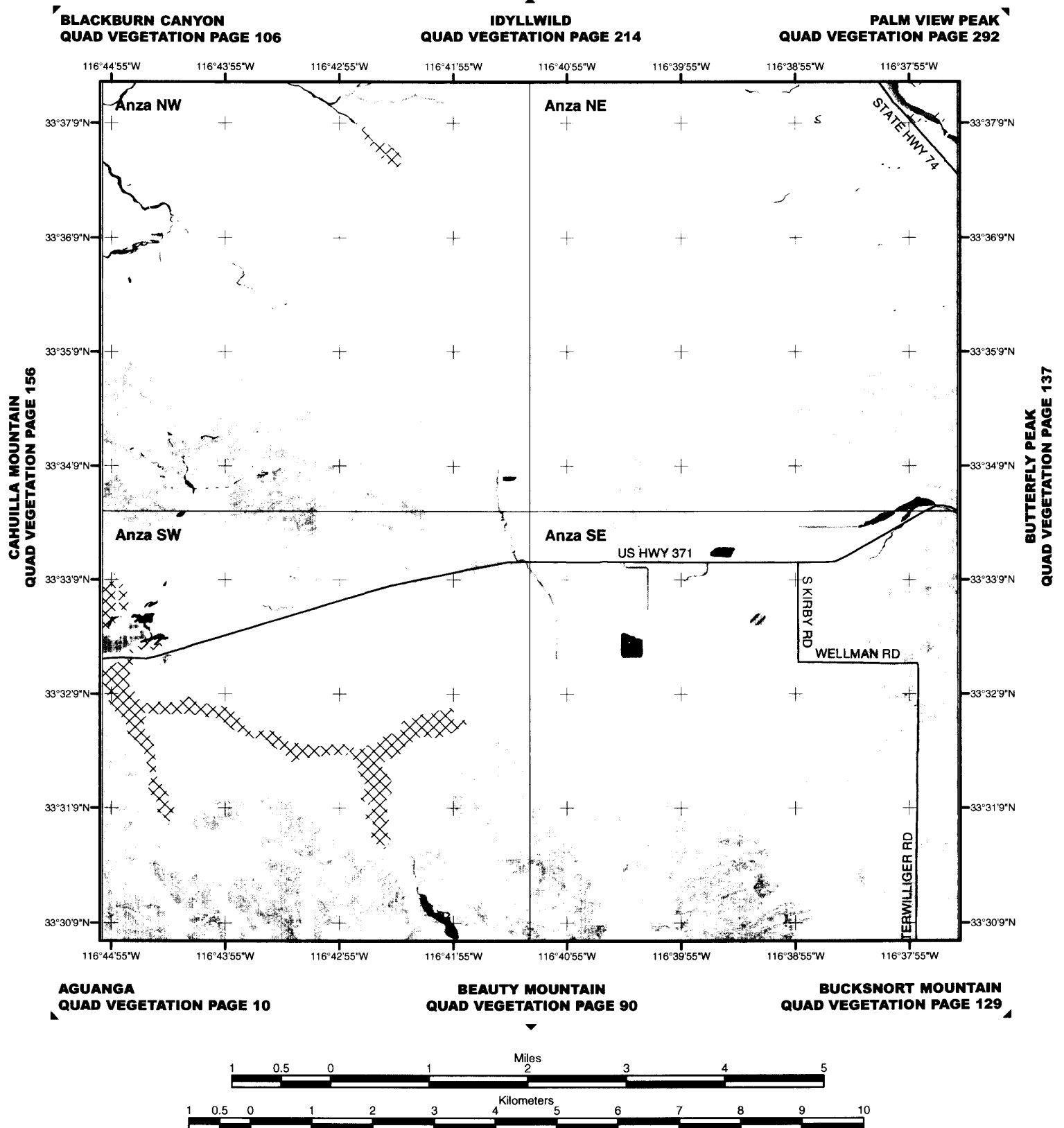


Anza South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



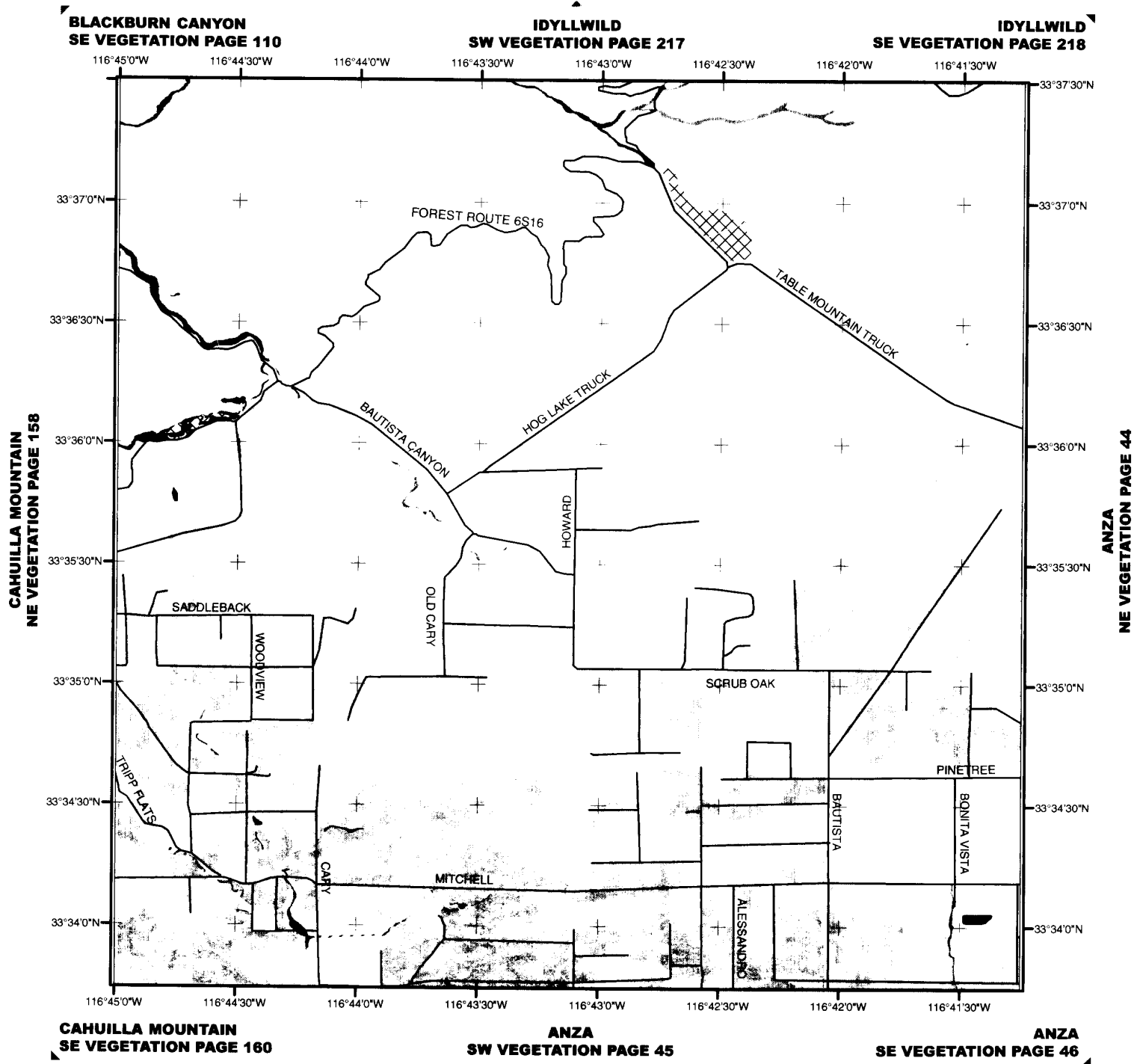
Anza Quadrangle

Vegetation Species Association Units for Aquatic Resources



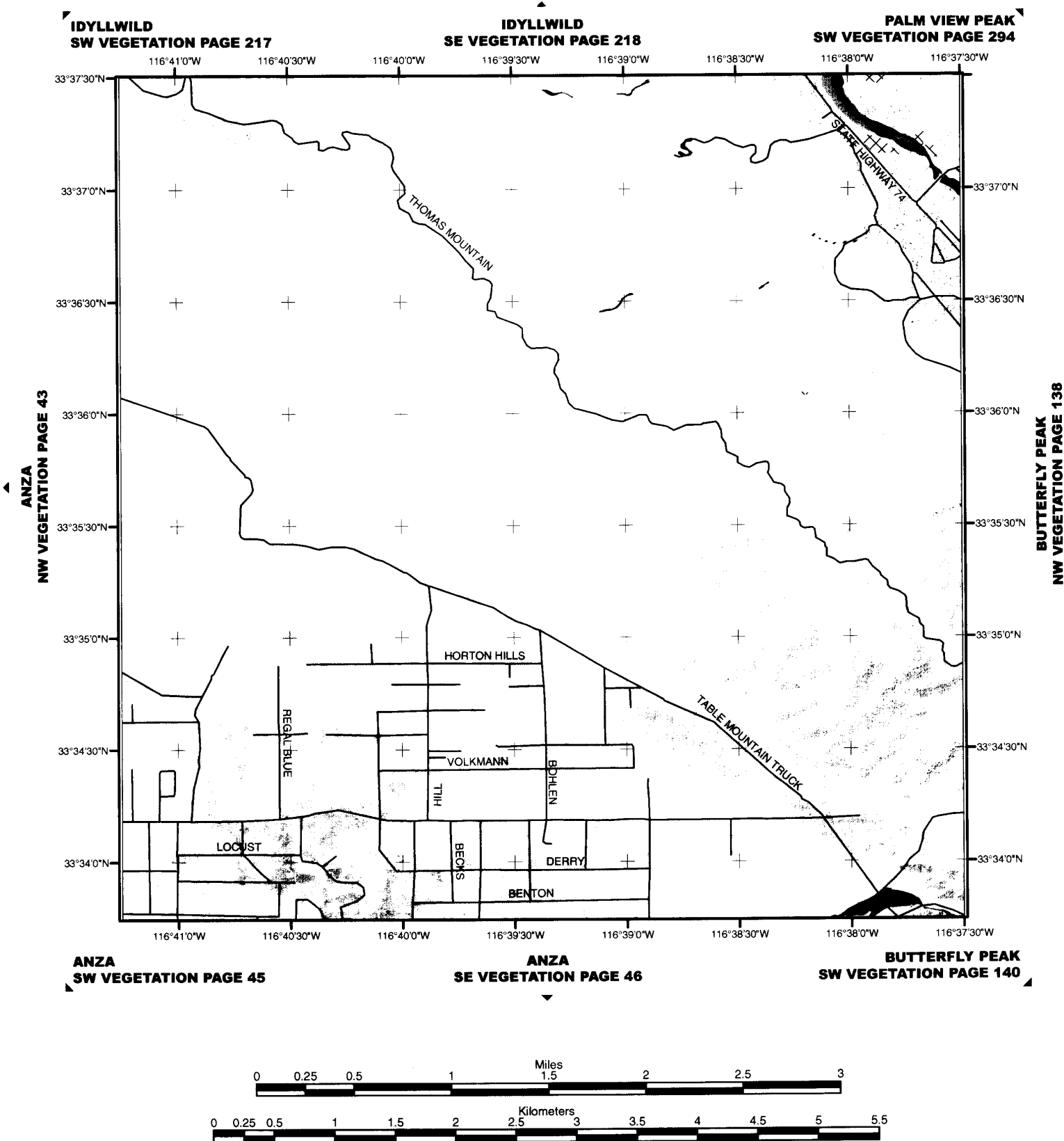
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Vegetation Species Association Units for Aquatic Resources



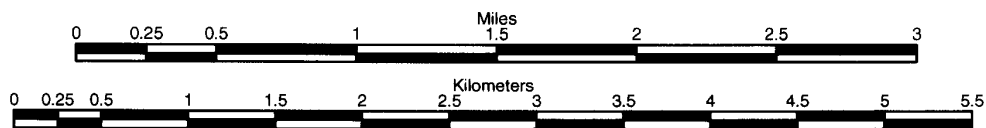
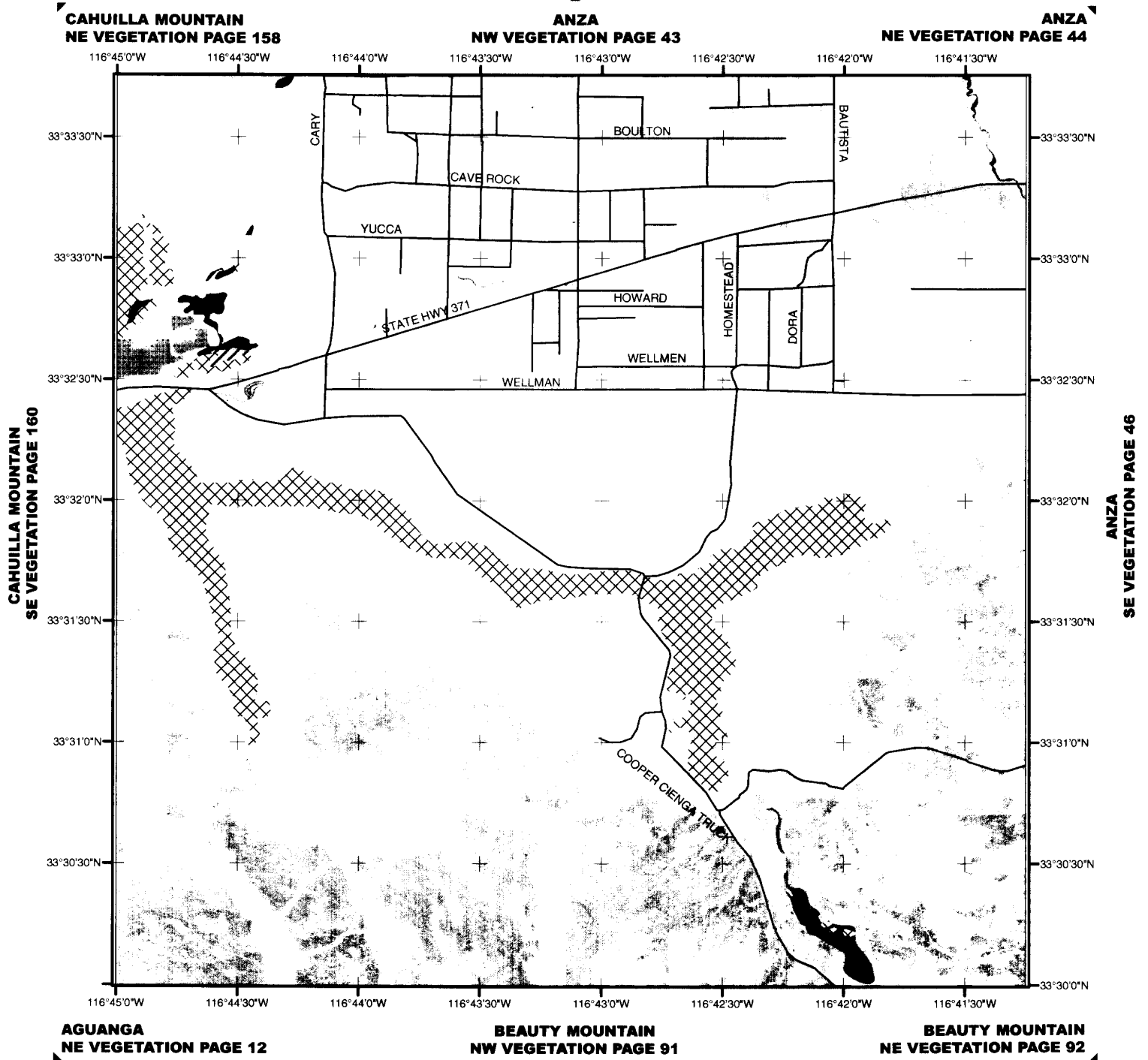
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Vegetation Species Association Units for Aquatic Resources

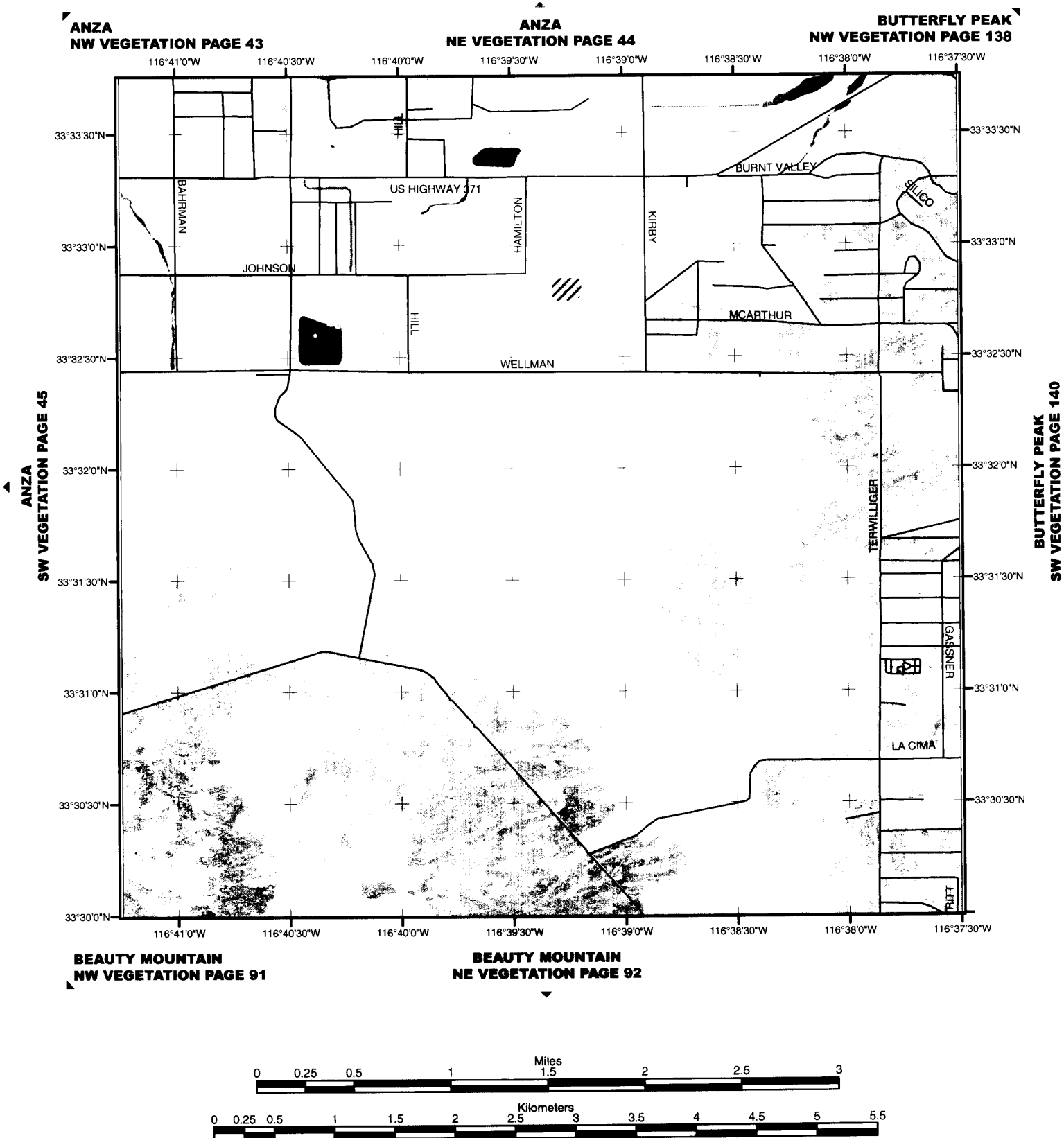


Anza South West Quarter-Quadrangle

Vegetation Species Association Units for Aquatic Resources

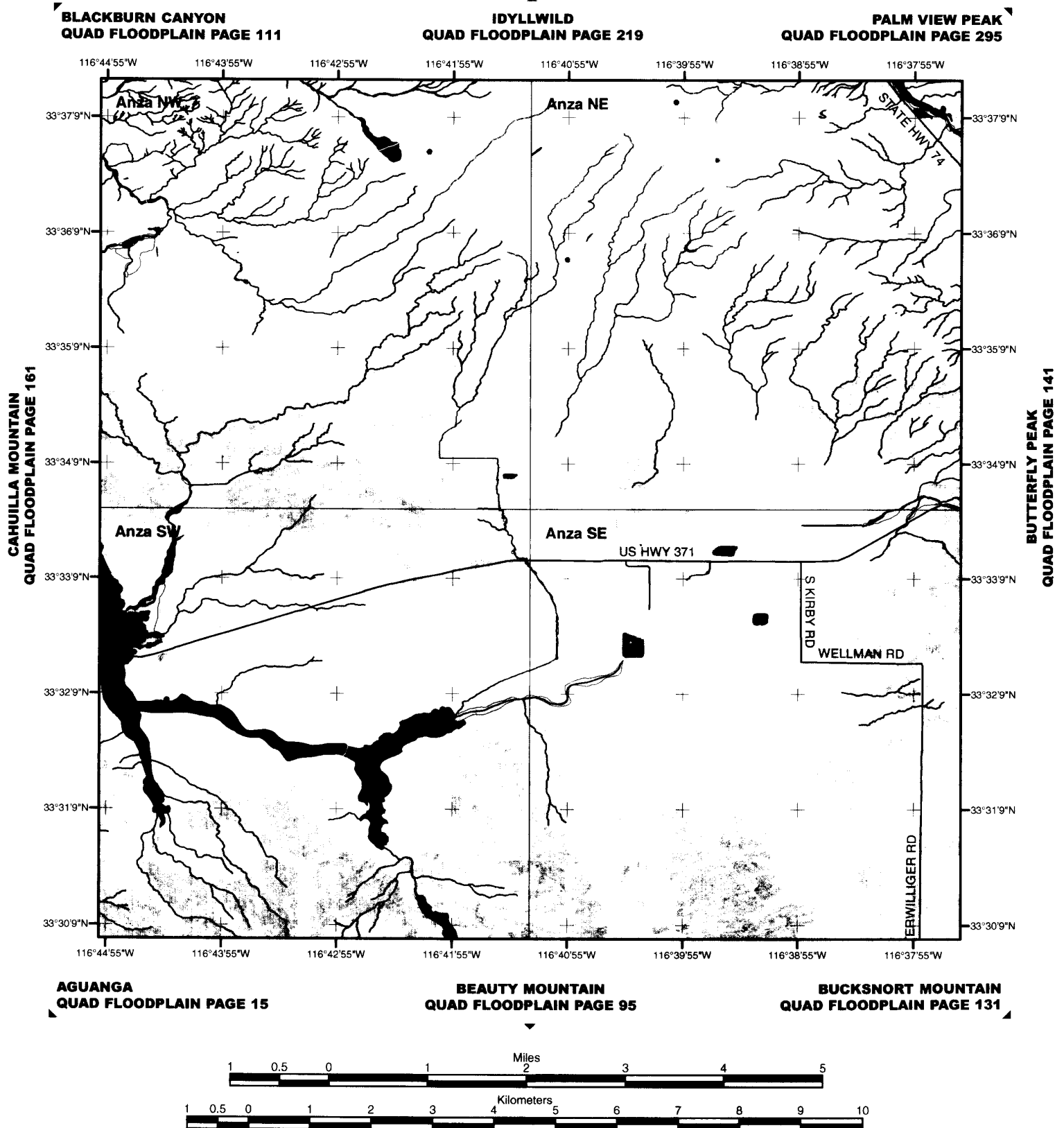


Anza South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

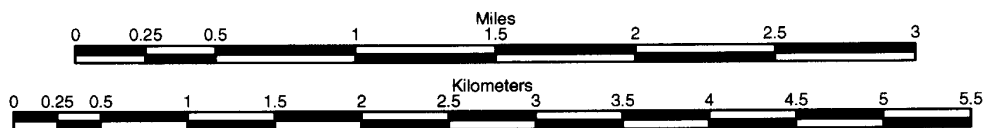
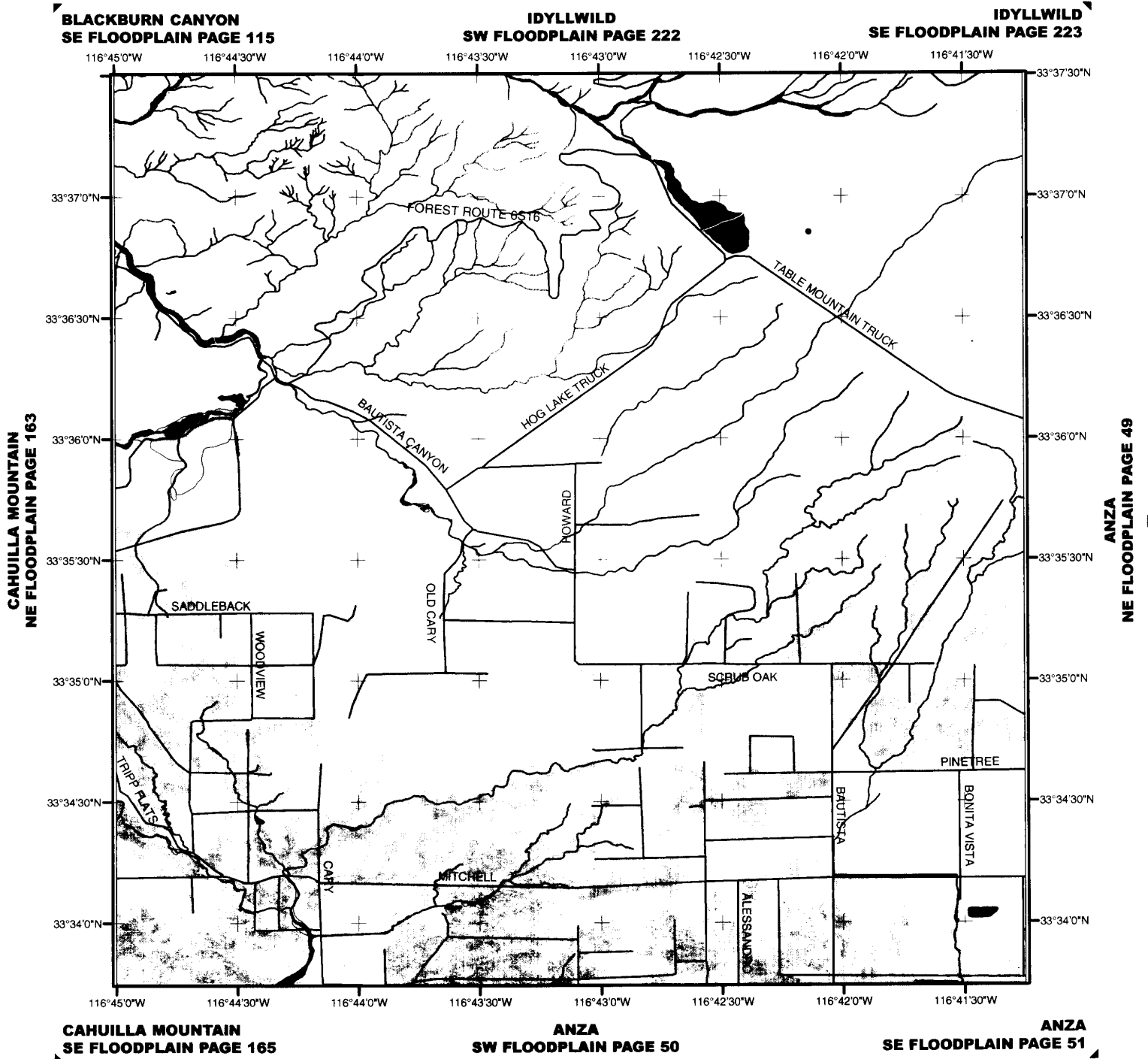


Anza Quadrangle

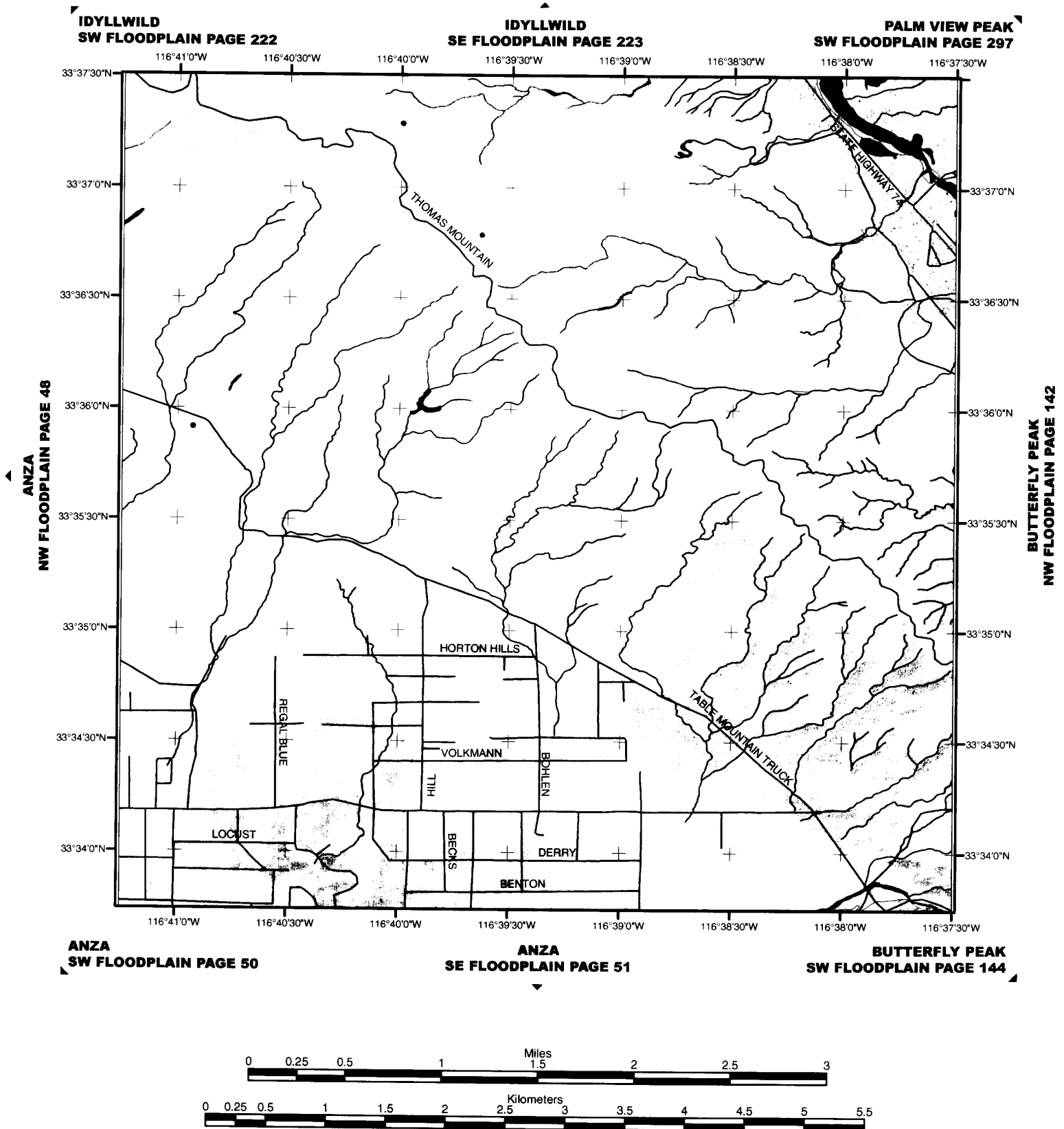
Hydrogeomorphic Floodplain Units for Aquatic Resources



Anza North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

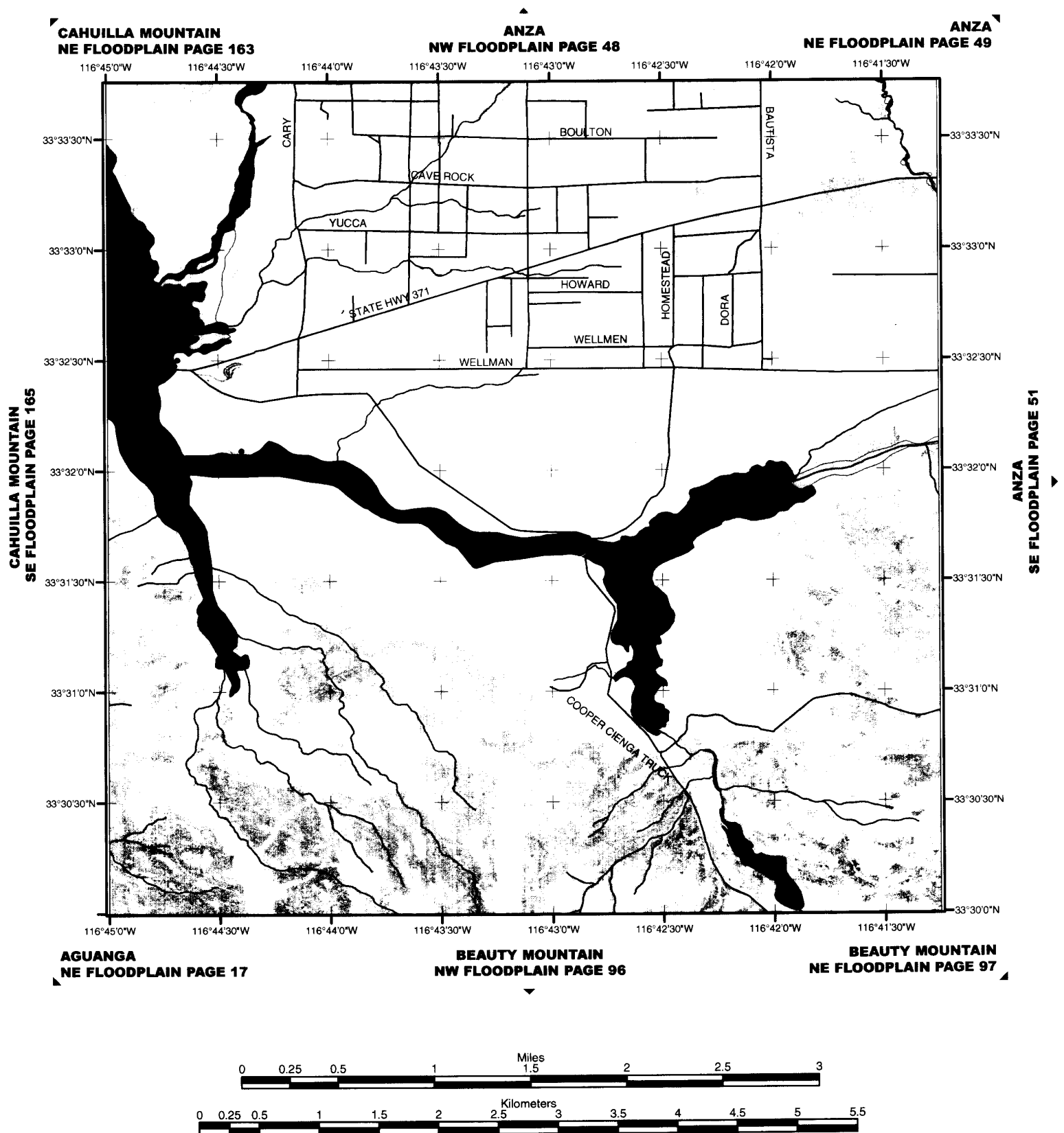


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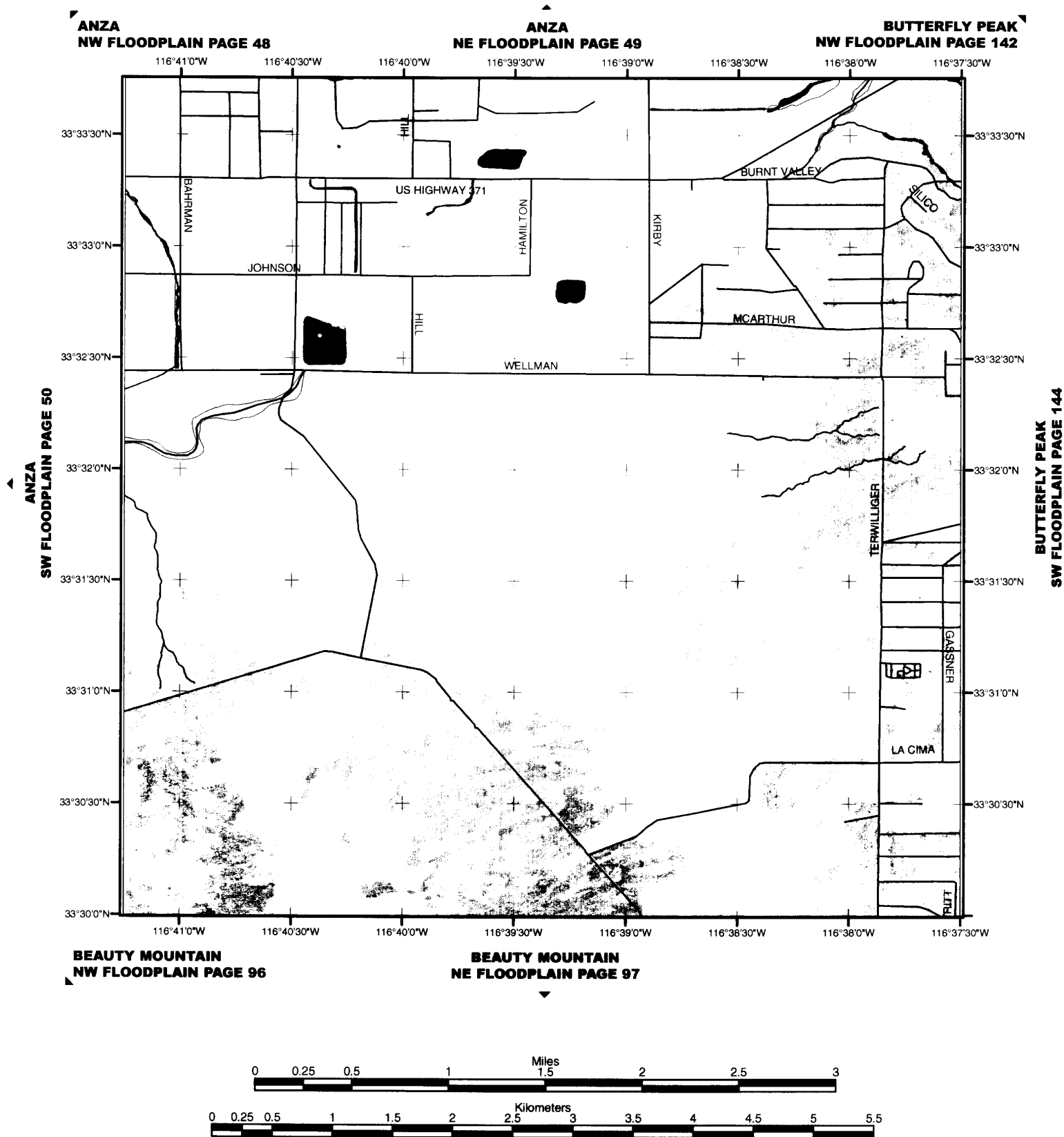


Anza South West Quarter-Quadrangle

Hydrogeomorphic Floodplain Units for Aquatic Resources

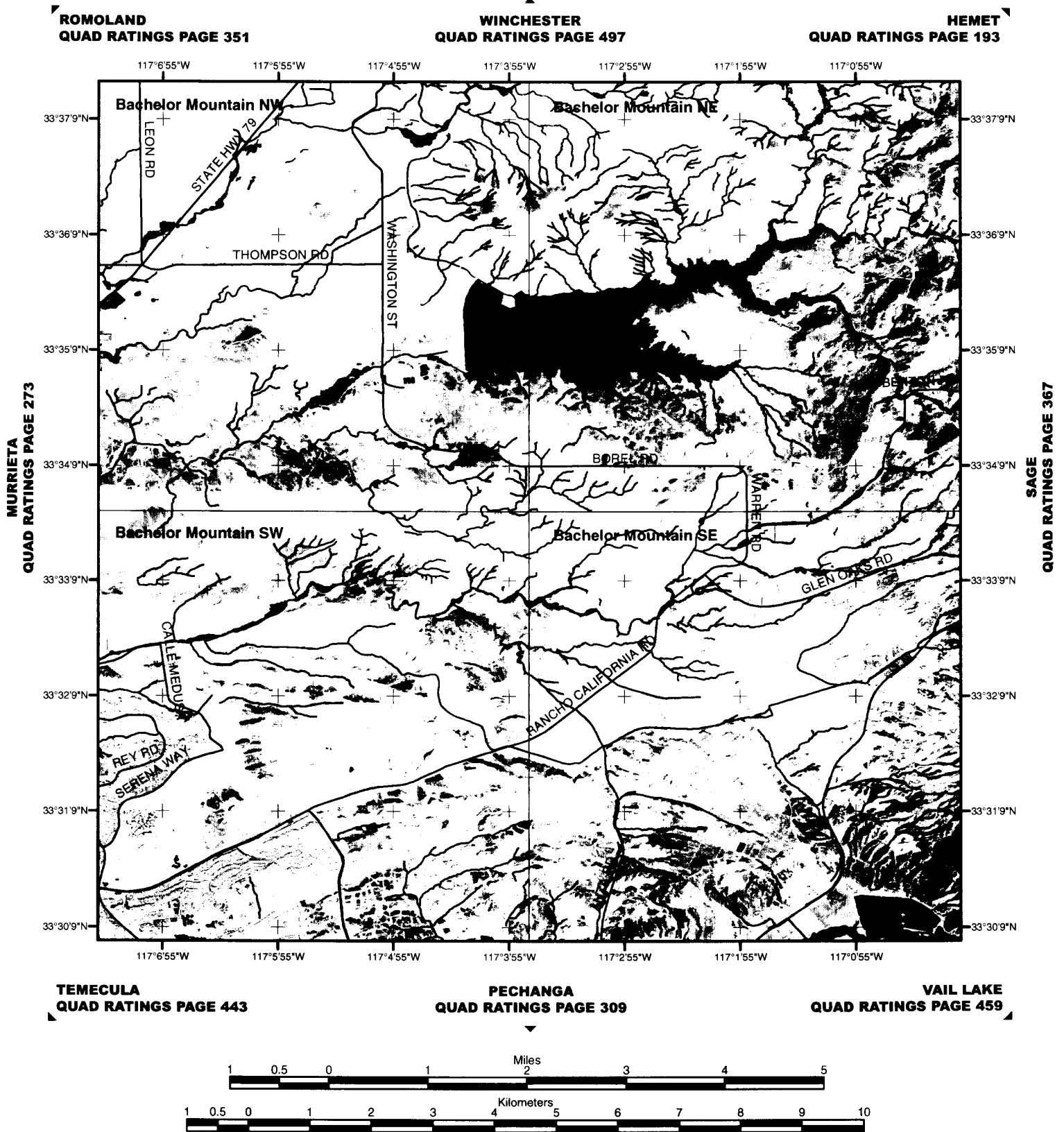


Anza South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

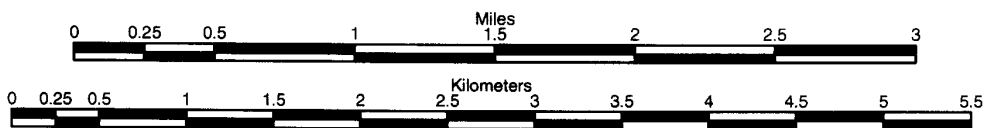
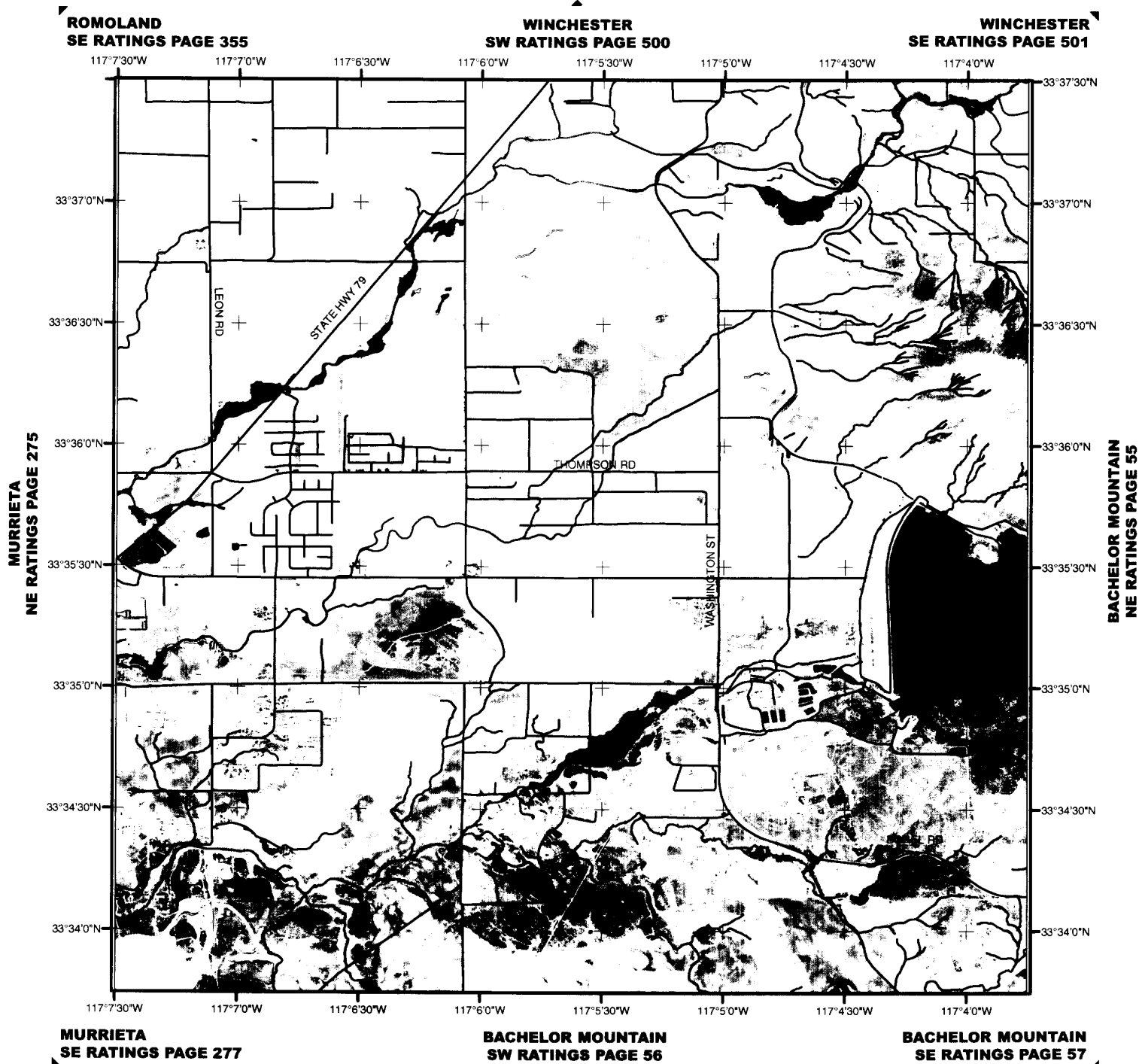


Bachelor Mountain Quadrangle

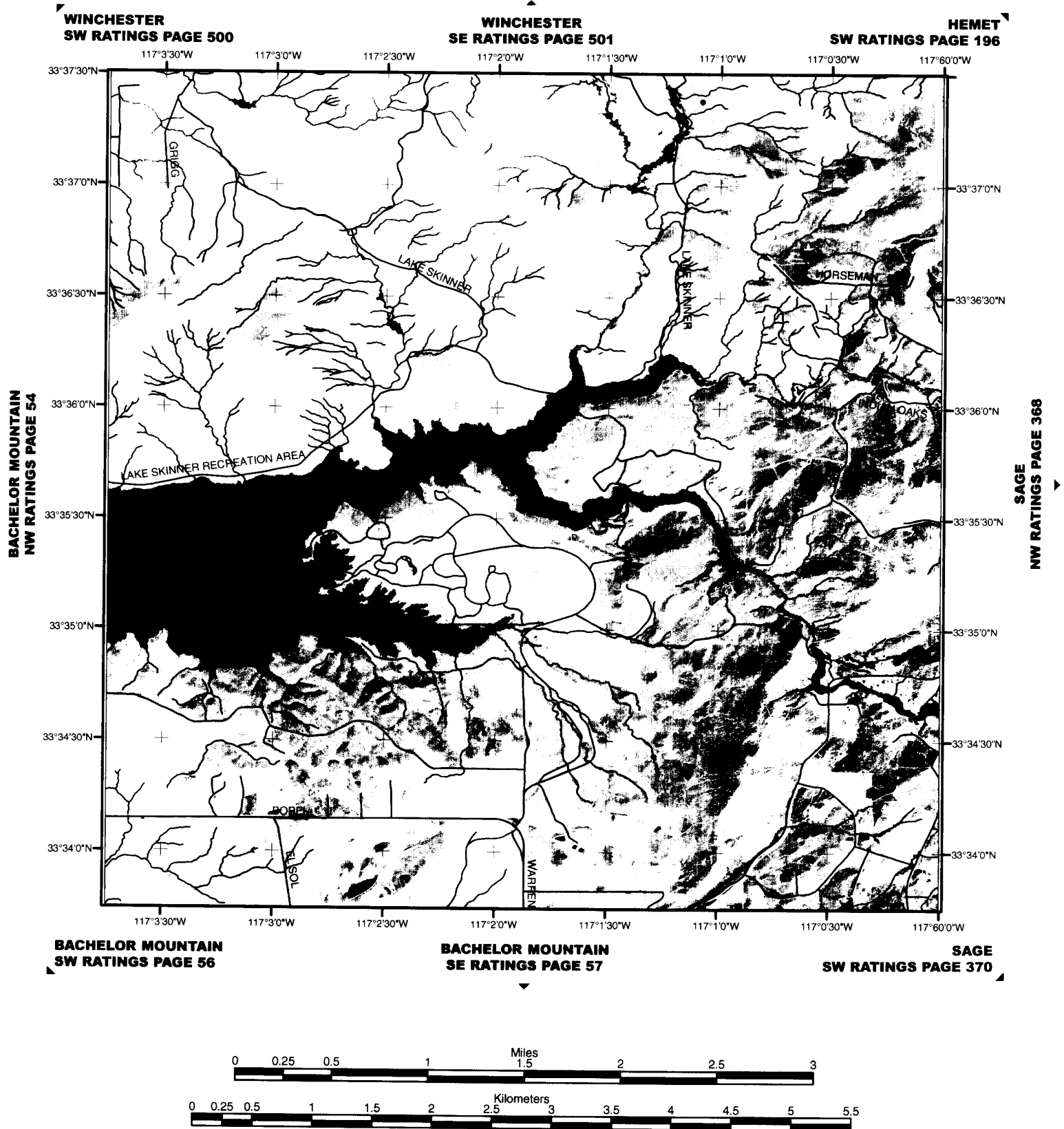
Regulatory Probability Ratings for Aquatic Resources



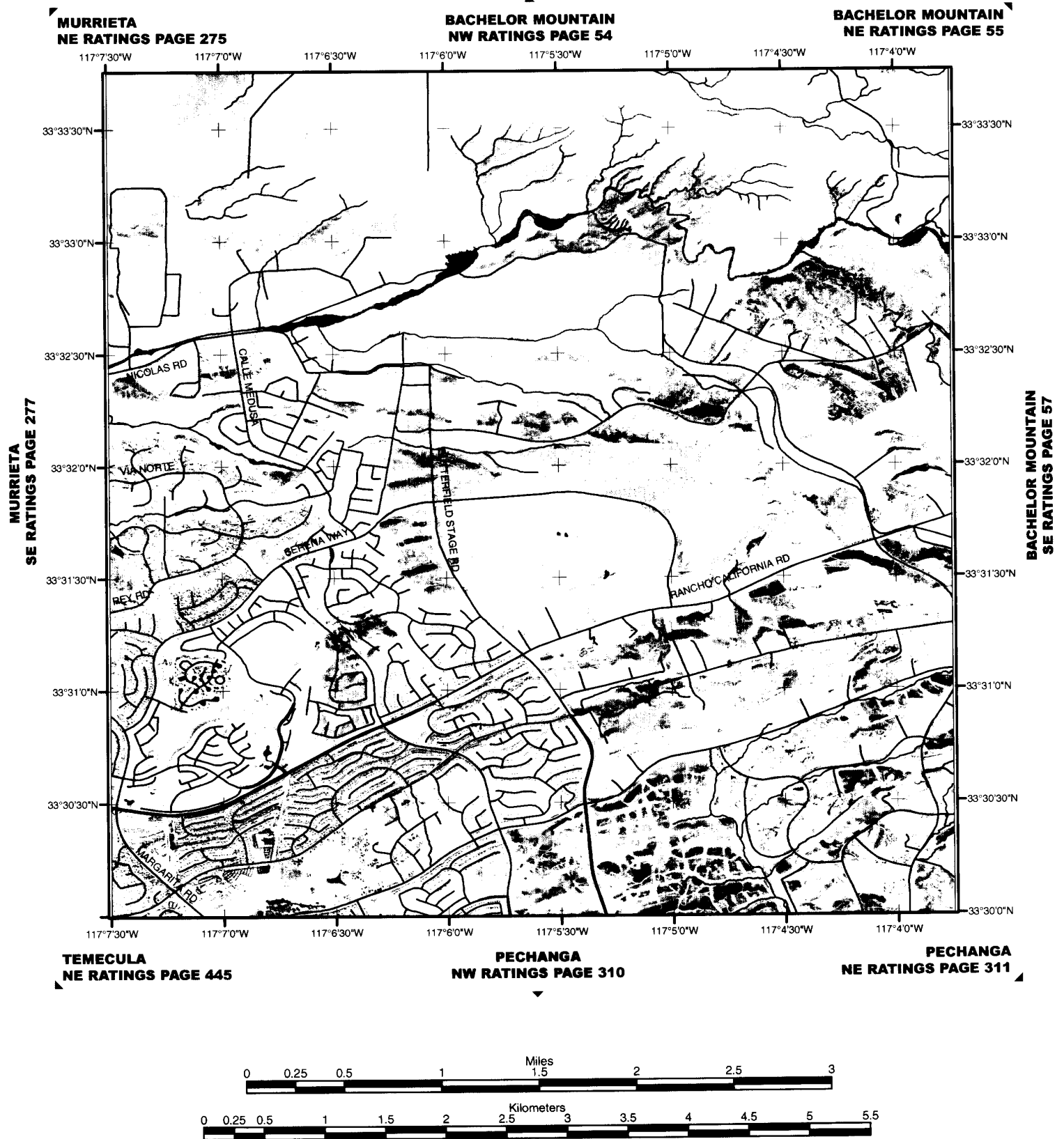
Bachelor Mountain North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



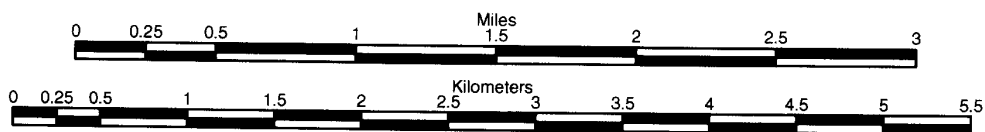
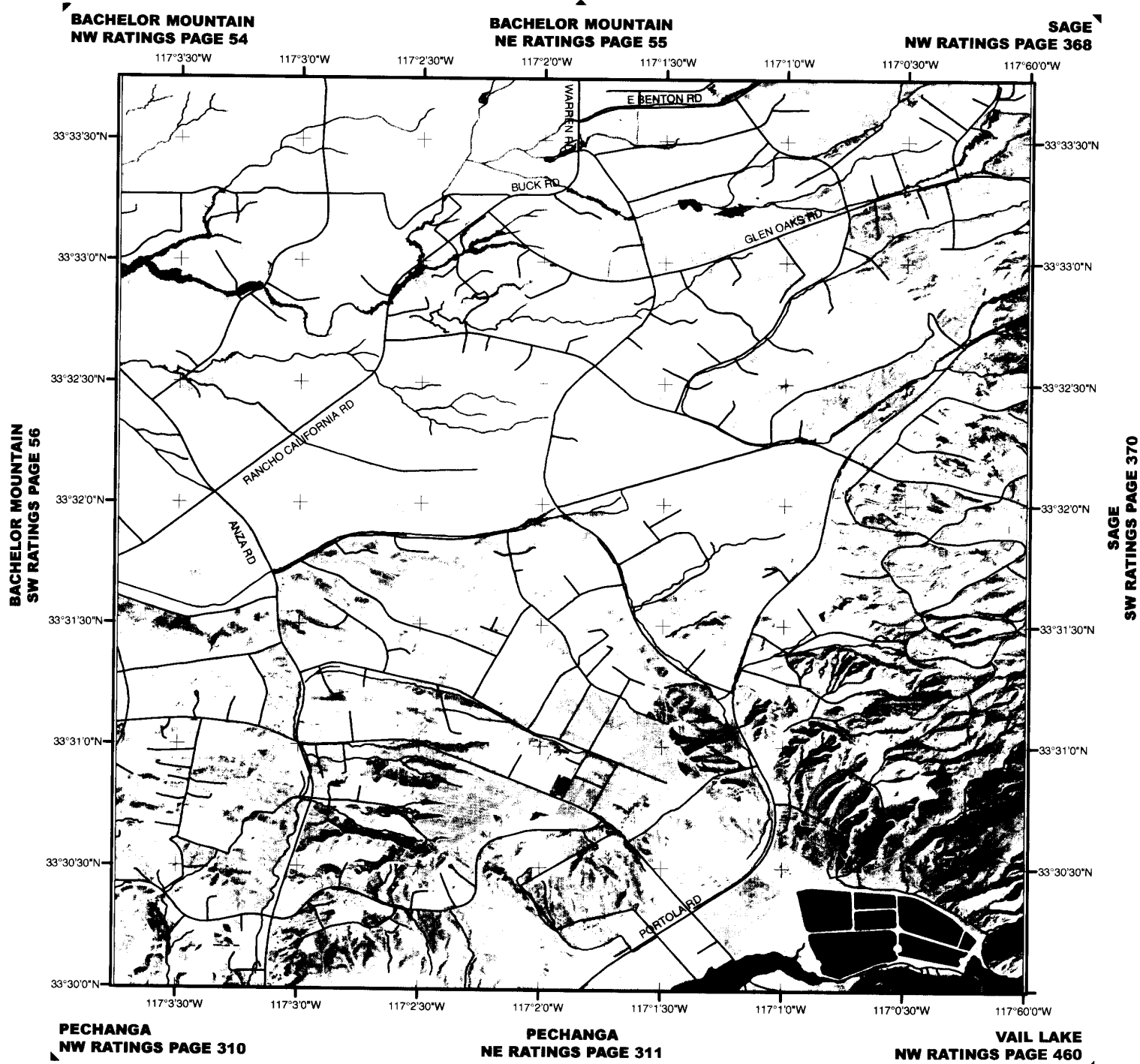
Bachelor Mountain North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



Bachelor Mountain South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

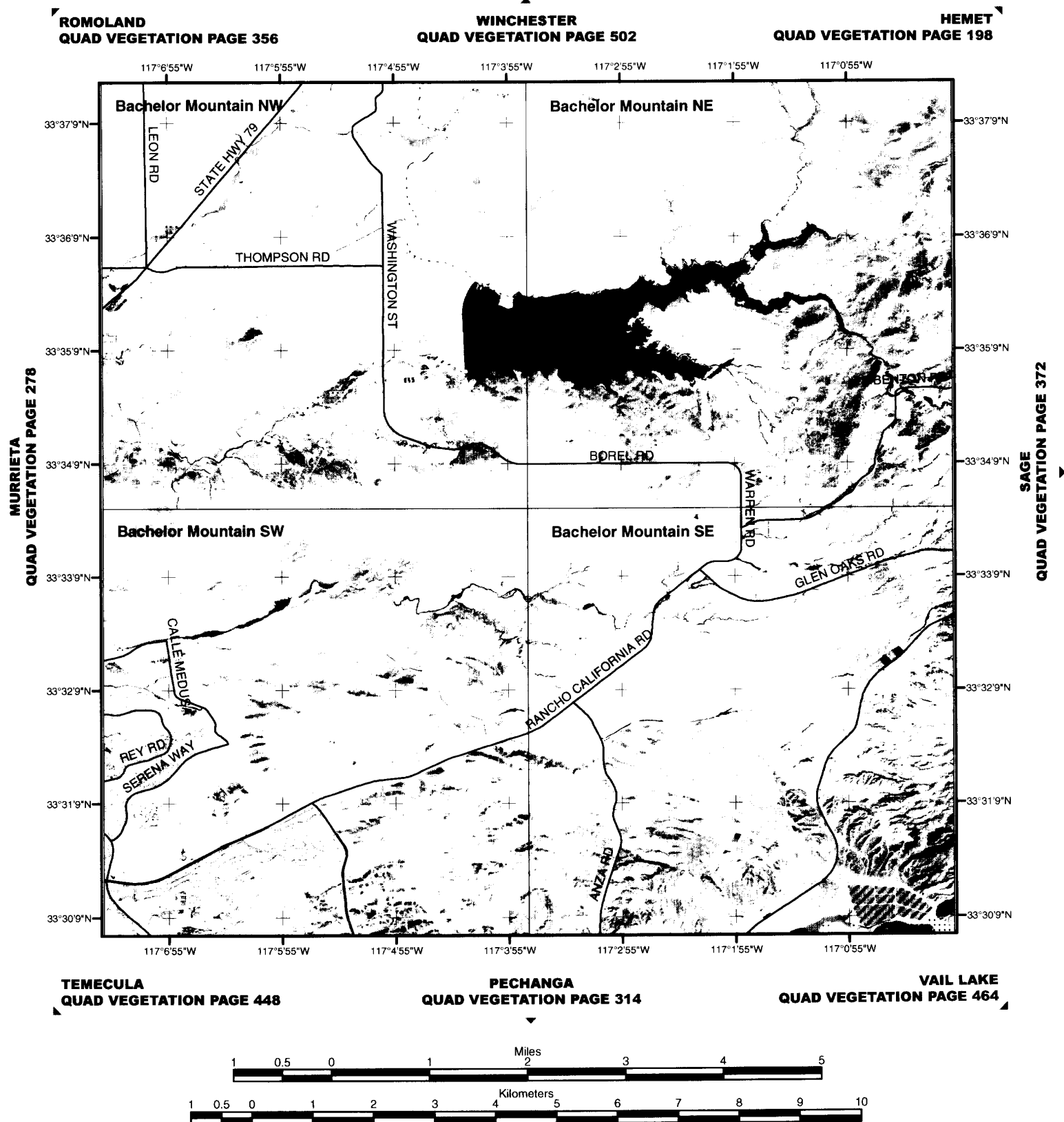


Bachelor Mountain South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

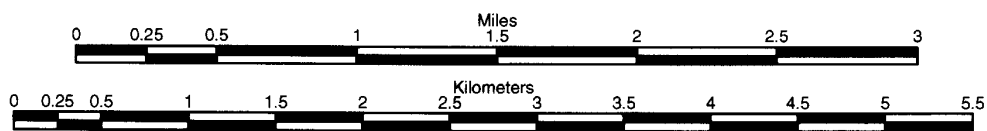
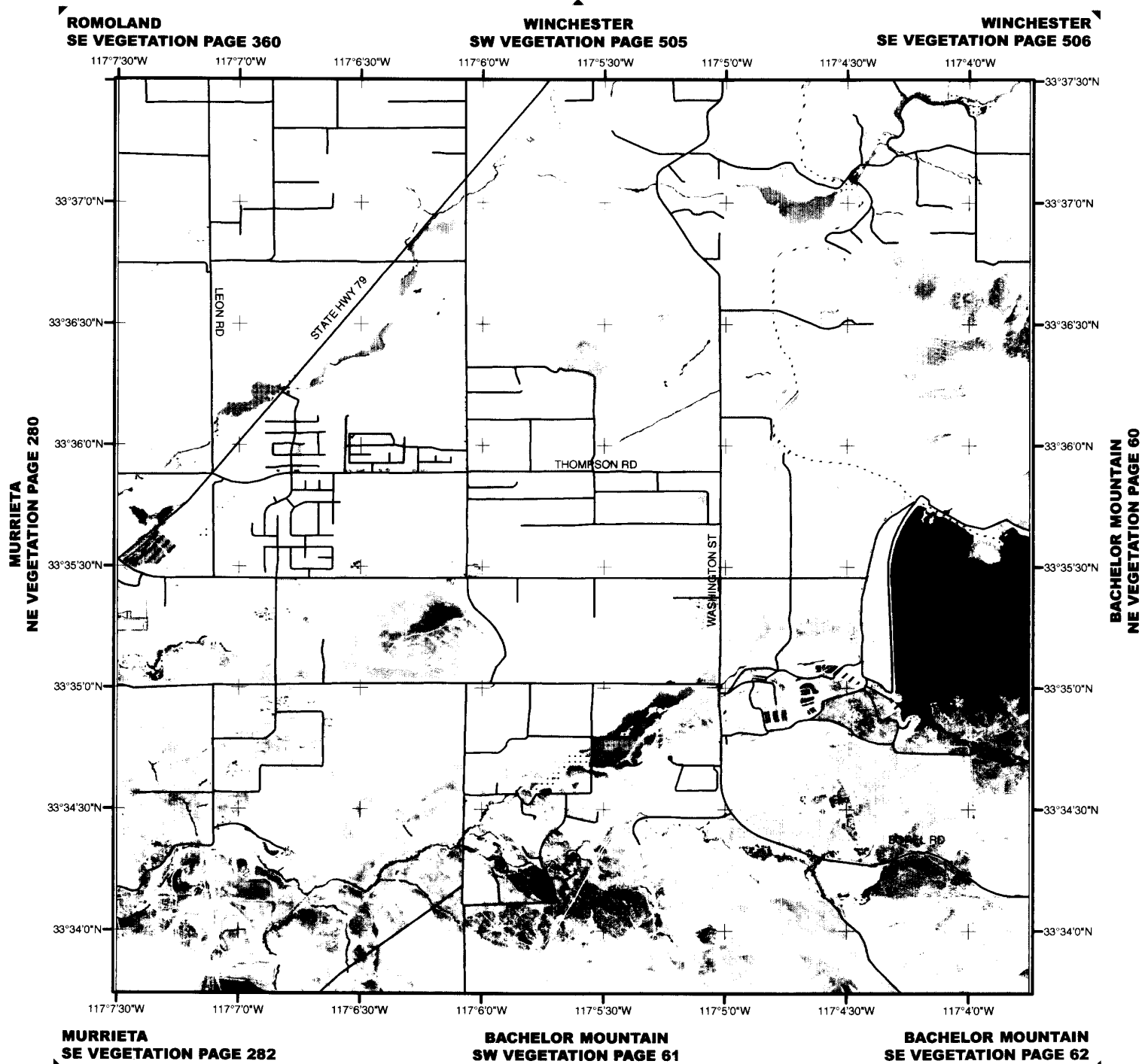


Bachelor Mountain Quadrangle

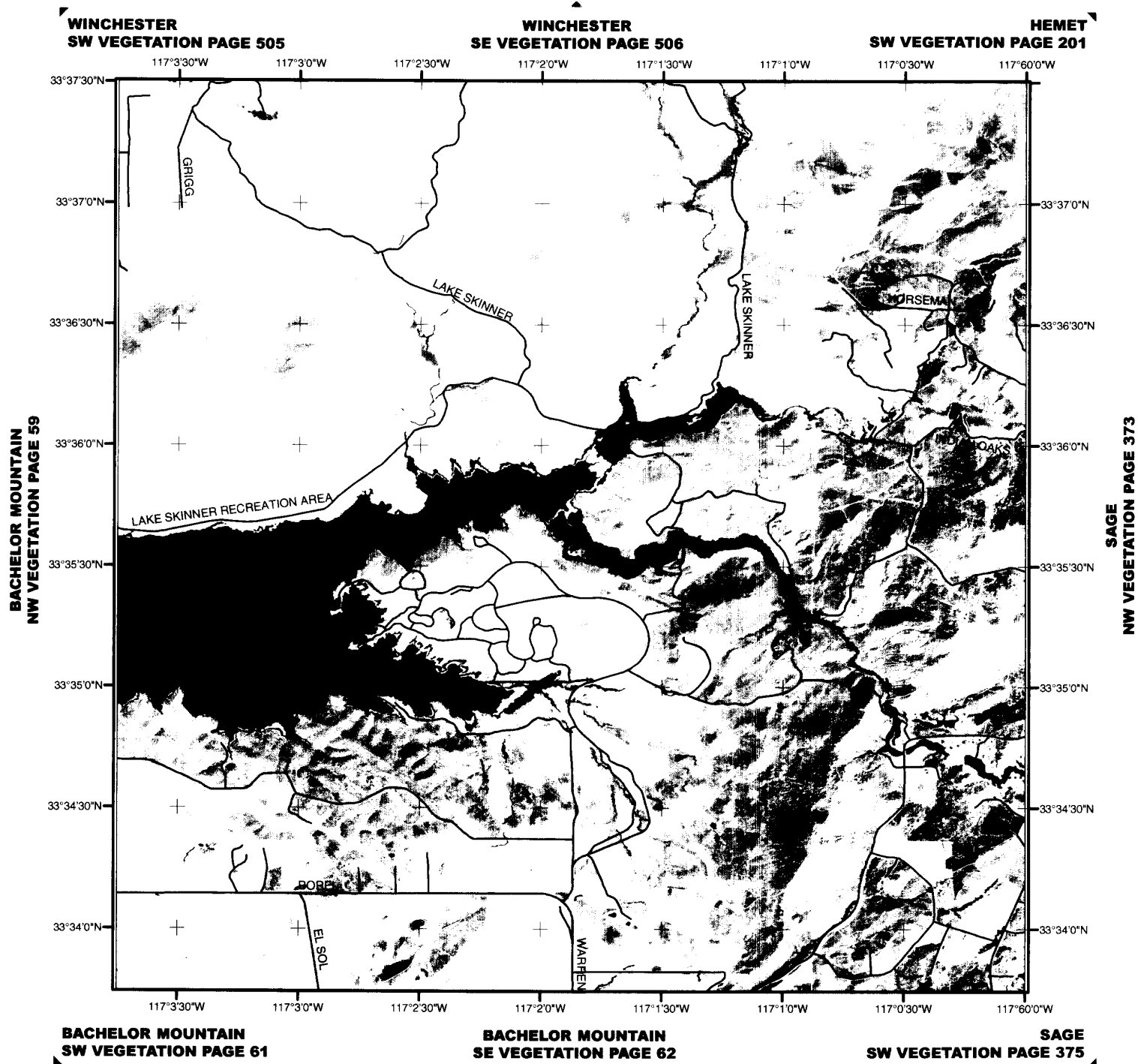
Vegetation Species Association Units for Aquatic Resources



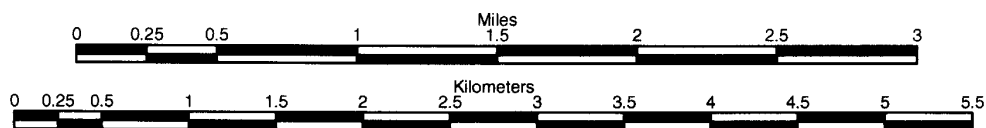
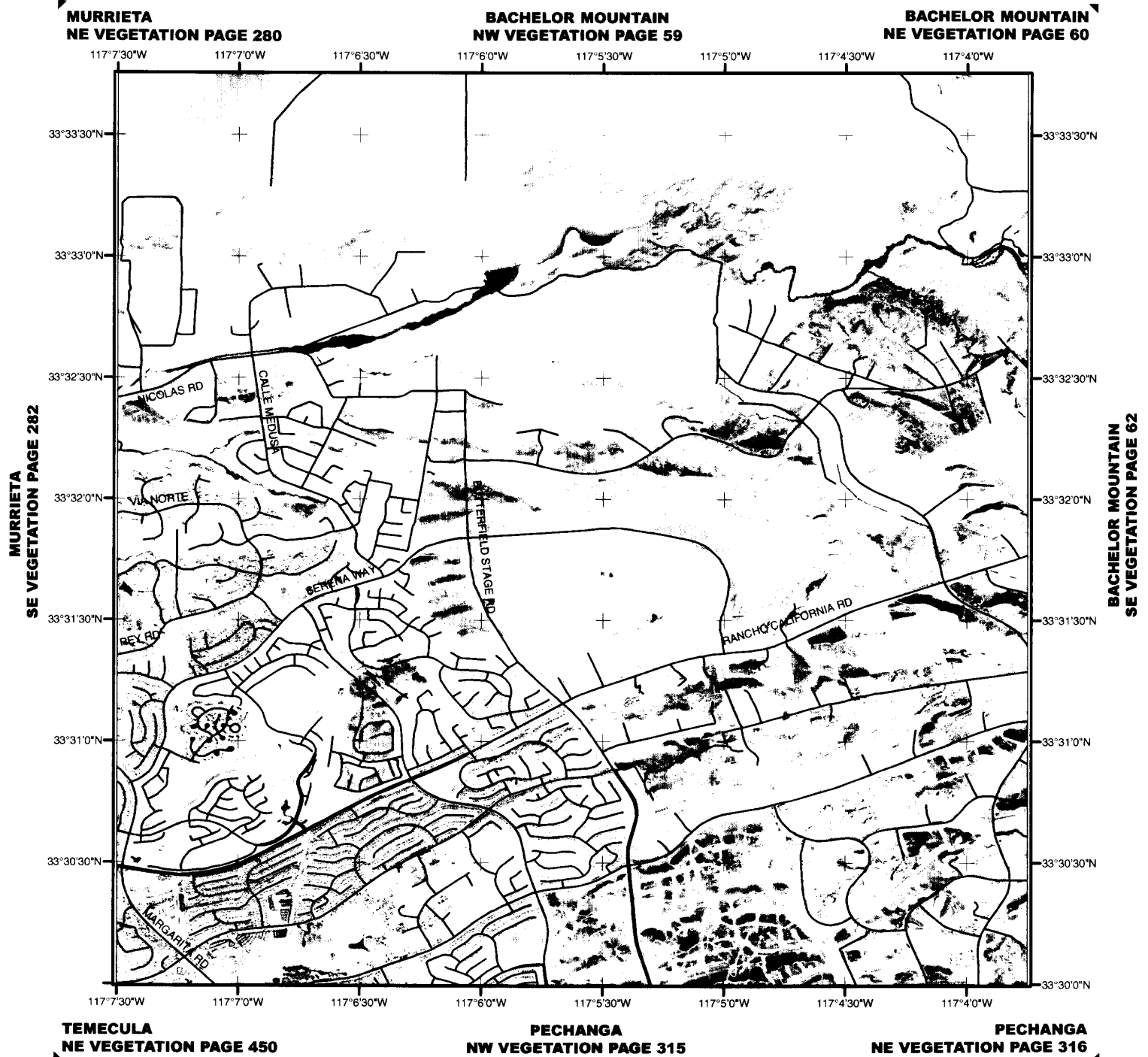
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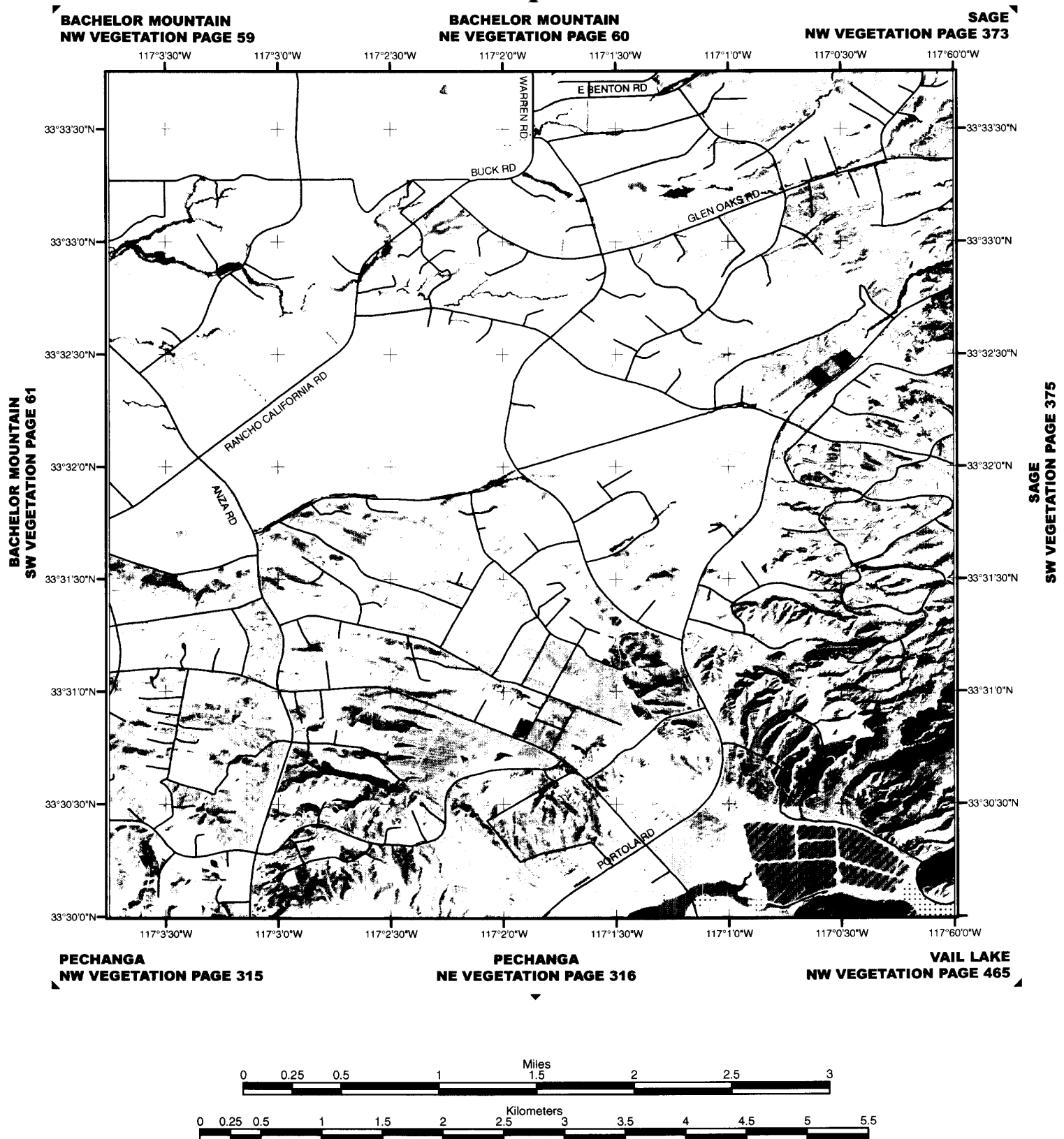
Bachelor Mountain North East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



Bachelor Mountain South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

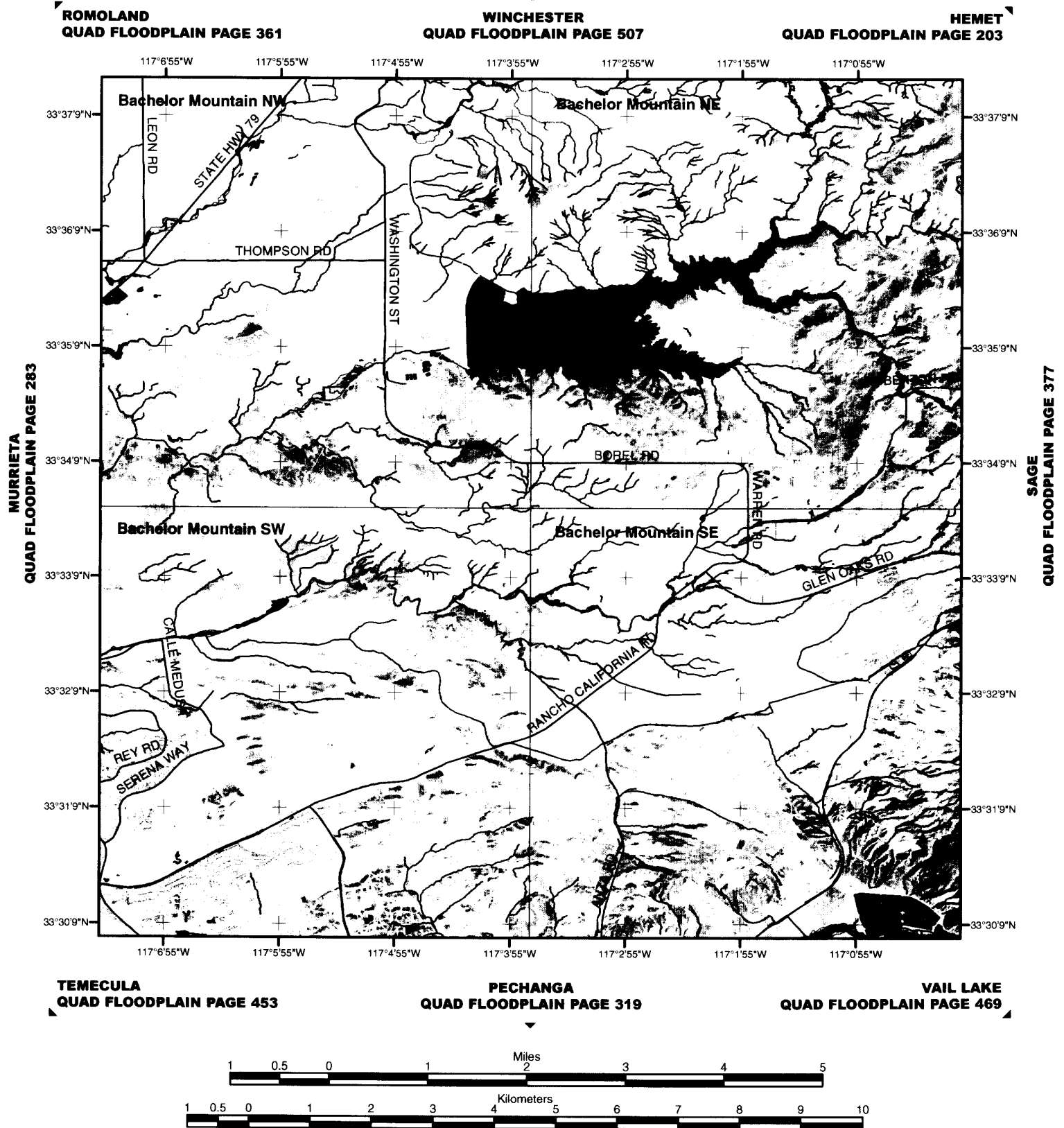


Bachelor Mountain South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

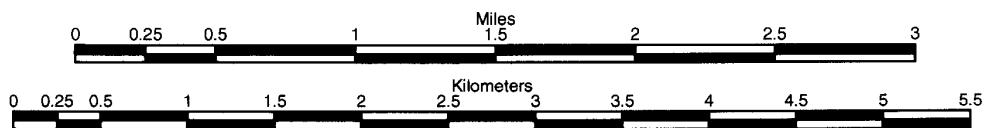
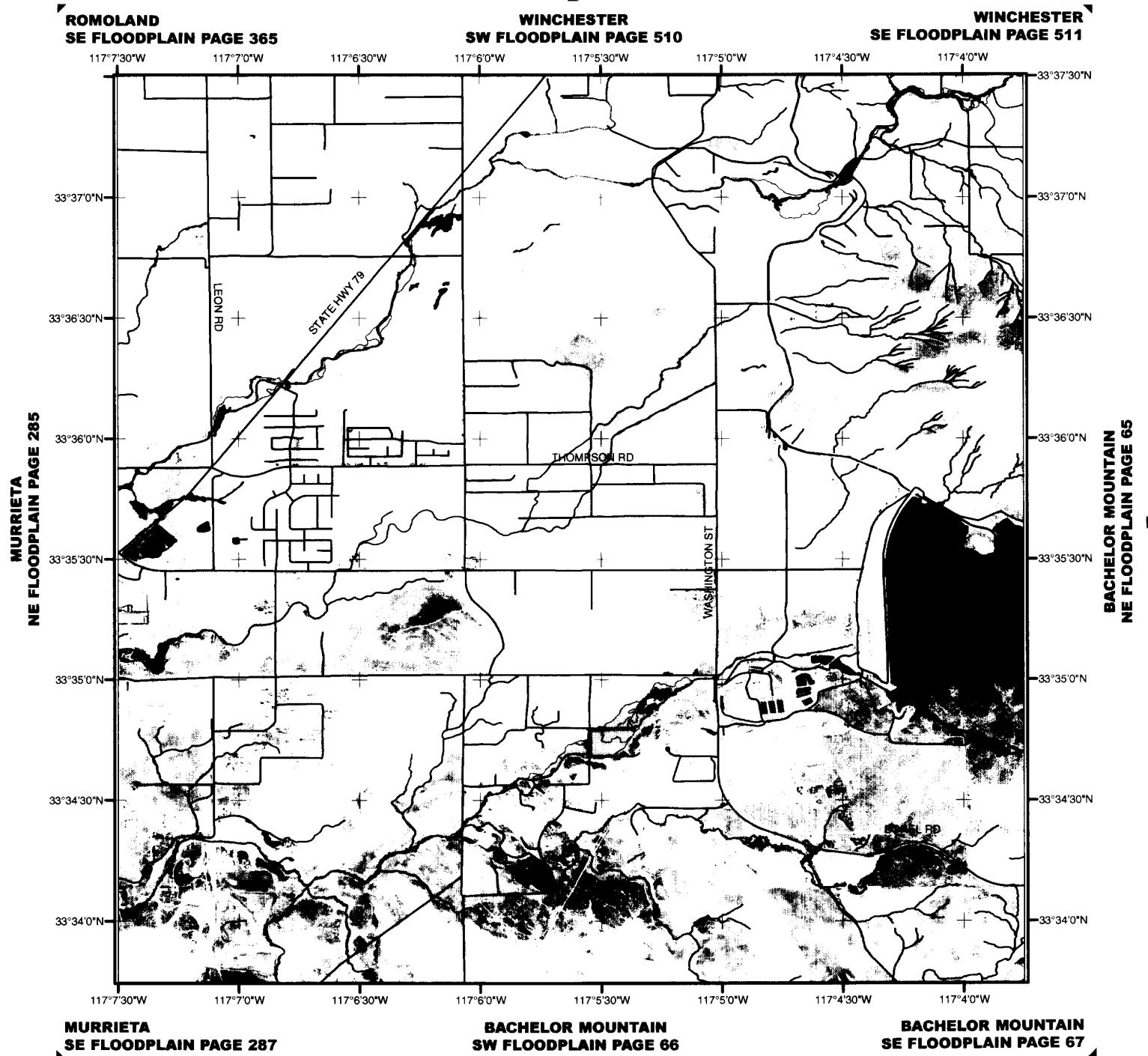


Bachelor Mountain Quadrangle

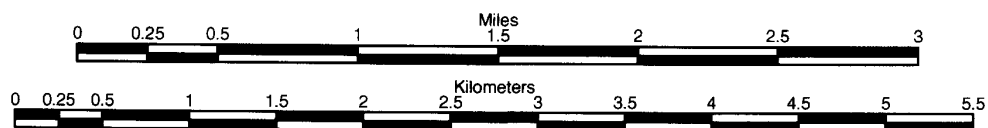
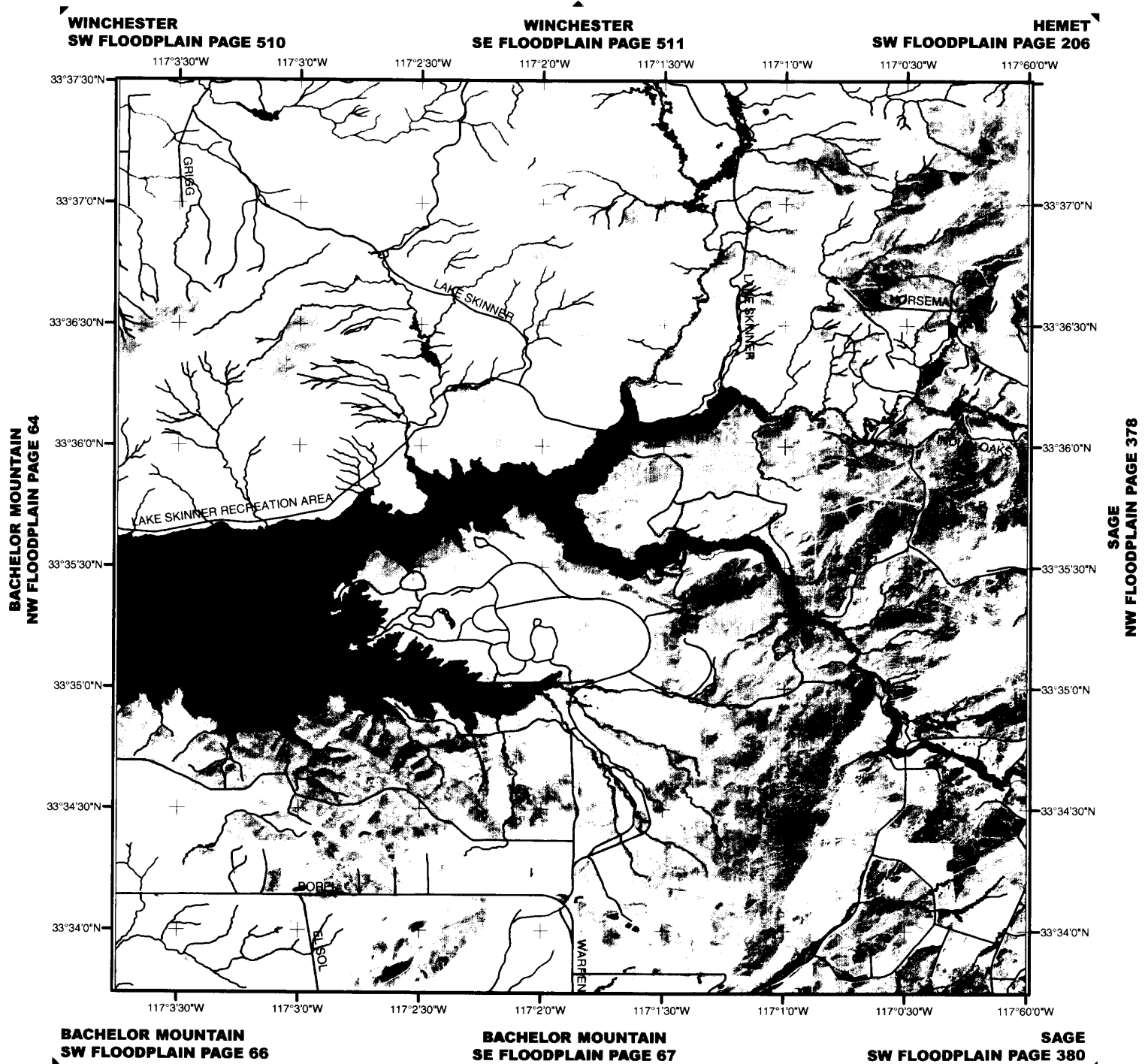
Hydrogeomorphic Floodplain Units for Aquatic Resources



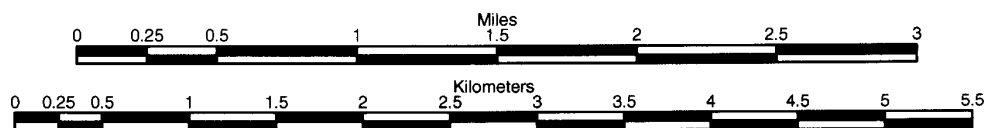
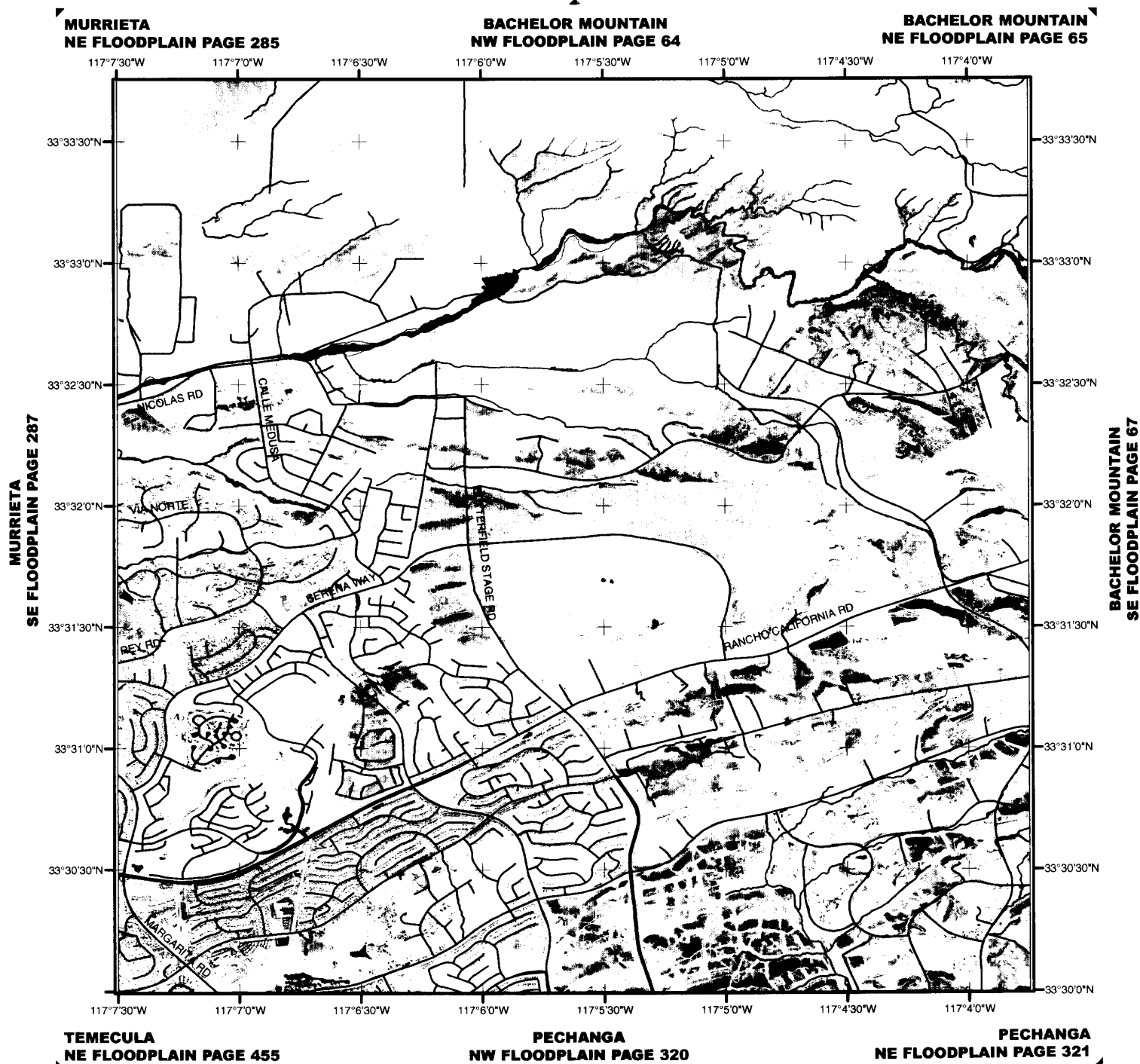
Bachelor Mountain North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



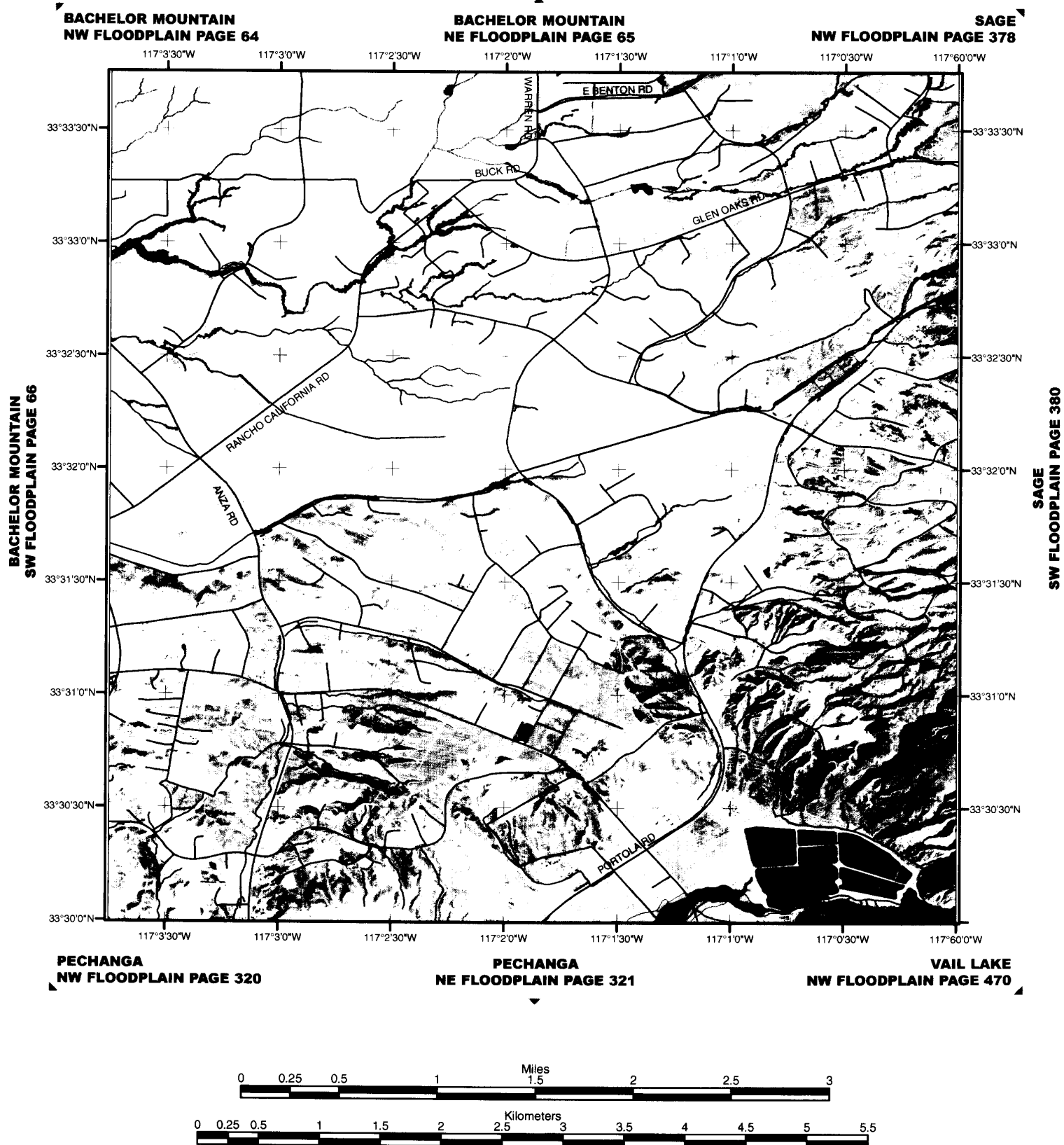
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Bachelor Mountain South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

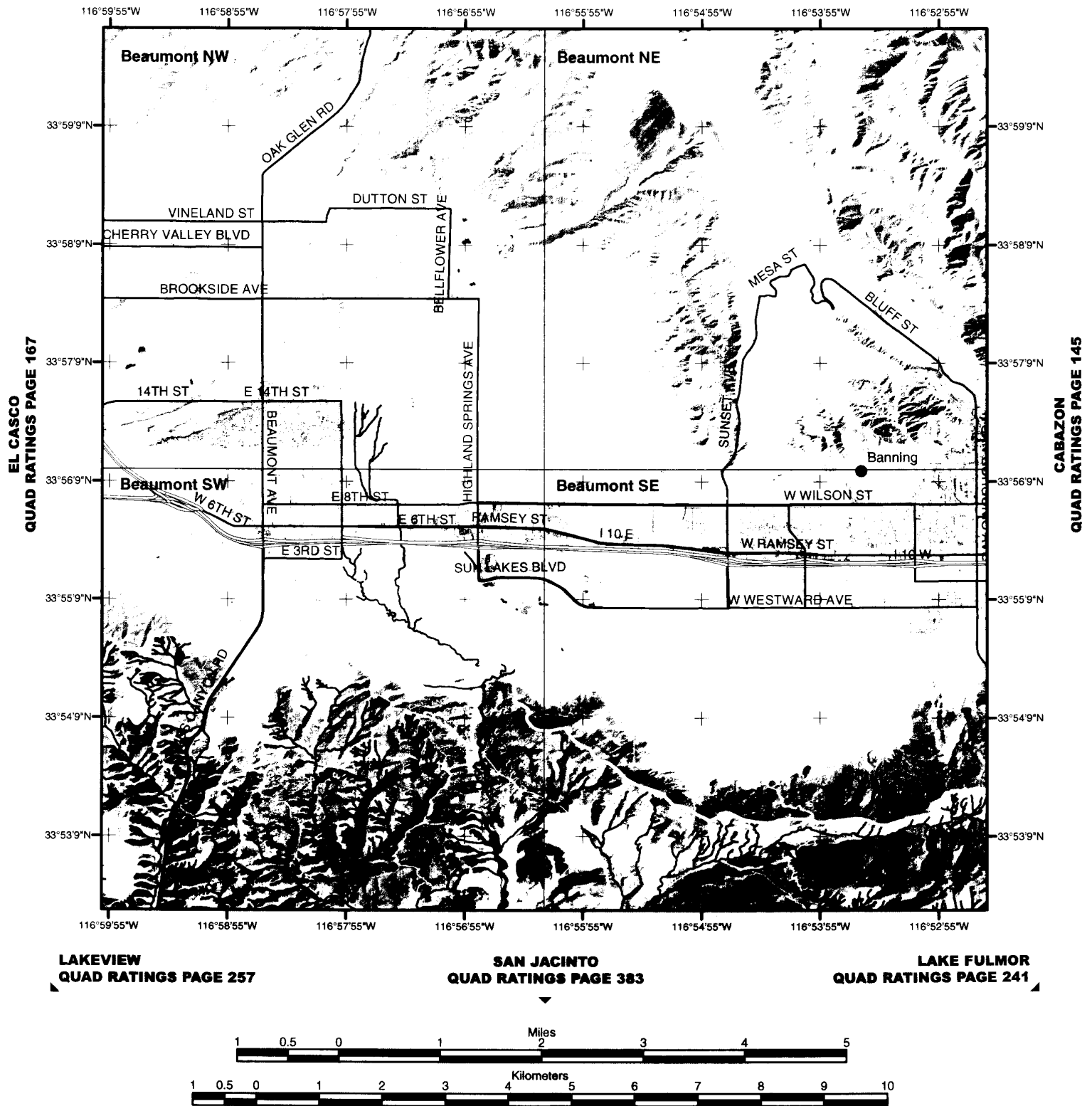


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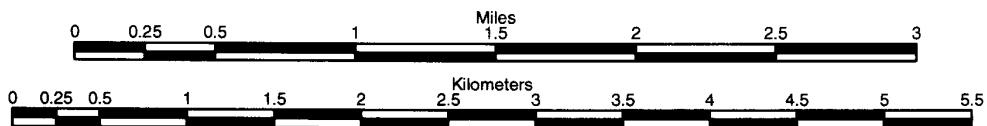
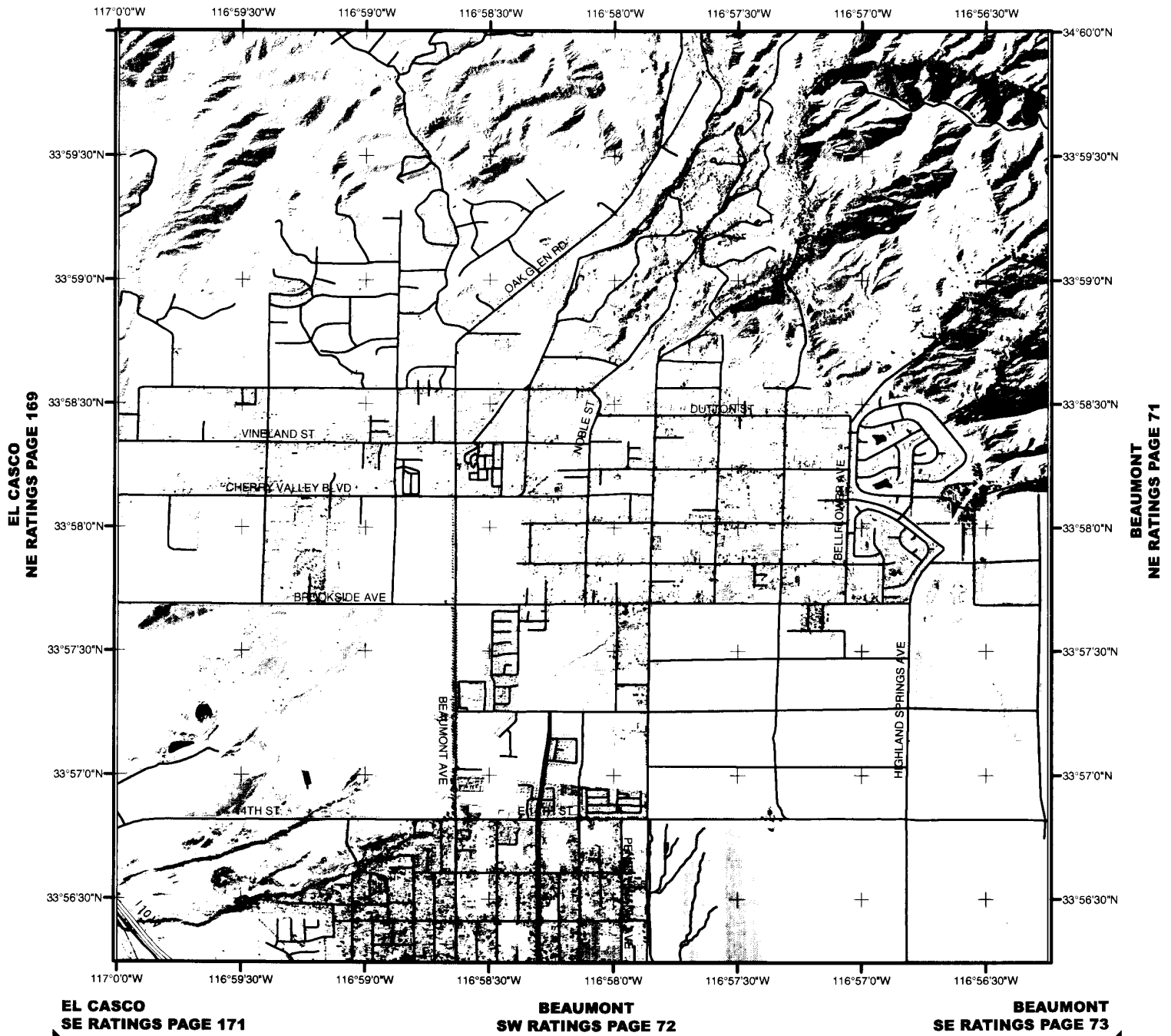


Beaumont Quadrangle

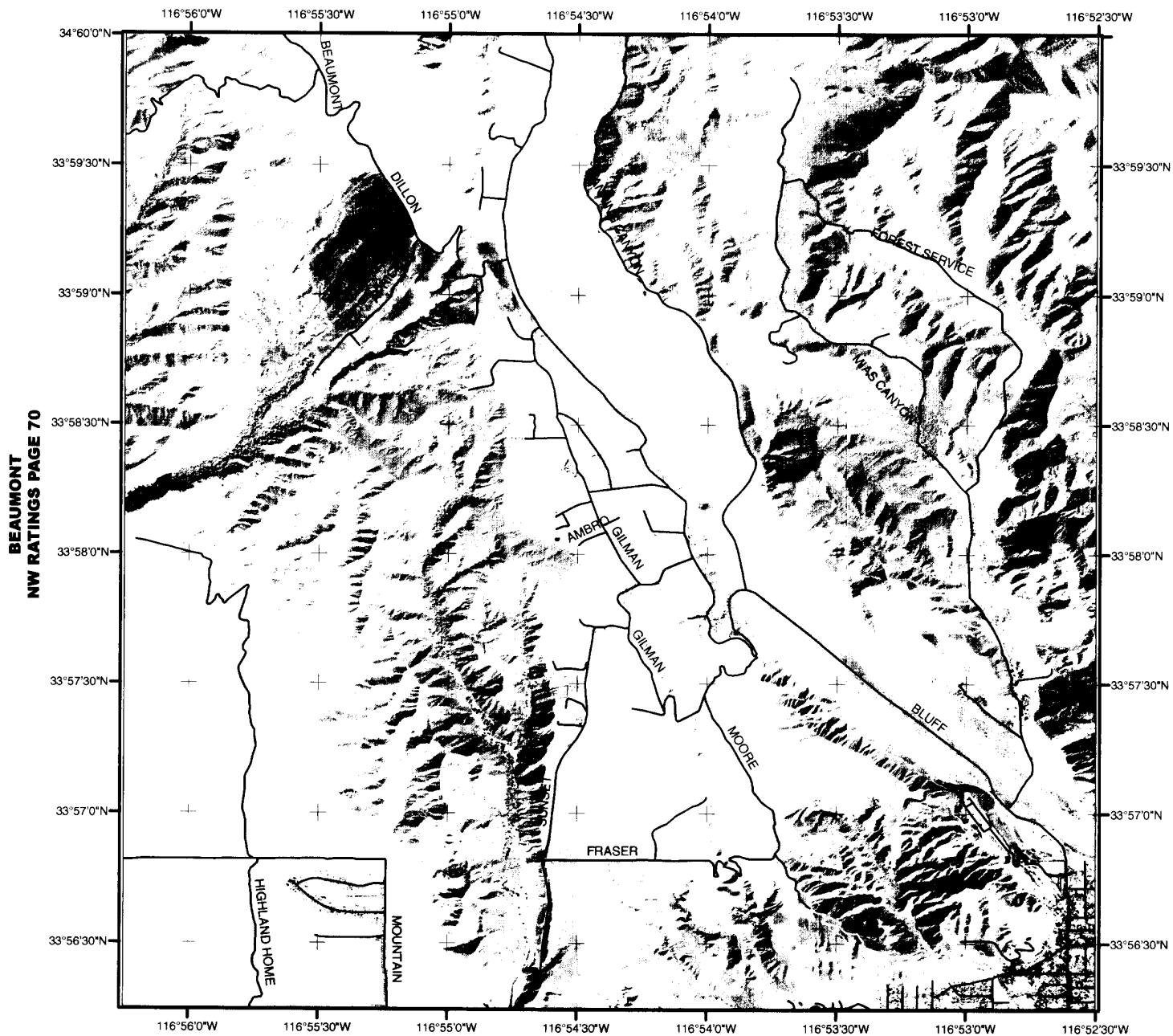
Regulatory Probability Ratings for Aquatic Resources



Beaumont North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



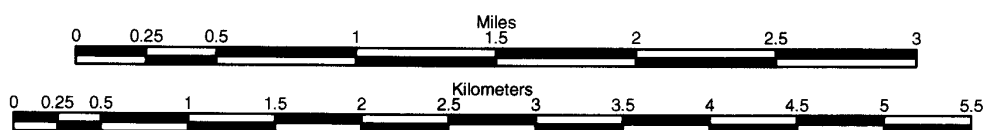
Beaumont North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



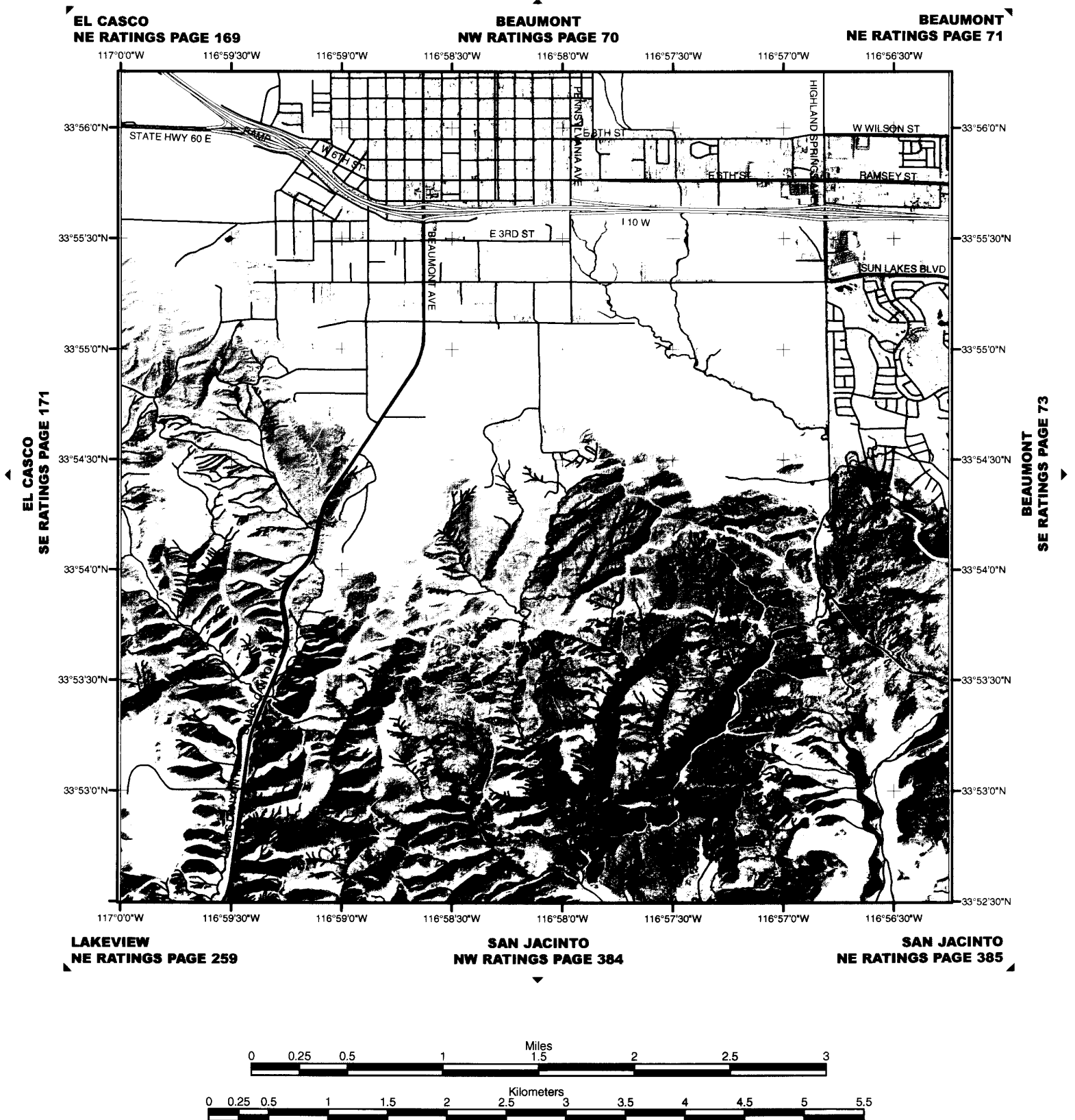
BEAUMONT
SW RATINGS PAGE 72

BEAUMONT
SE RATINGS PAGE 73

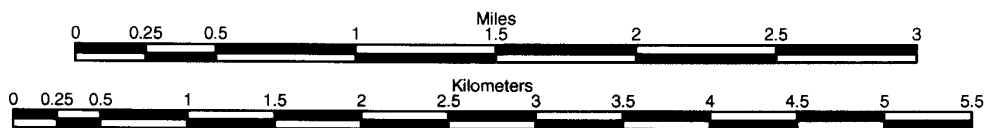
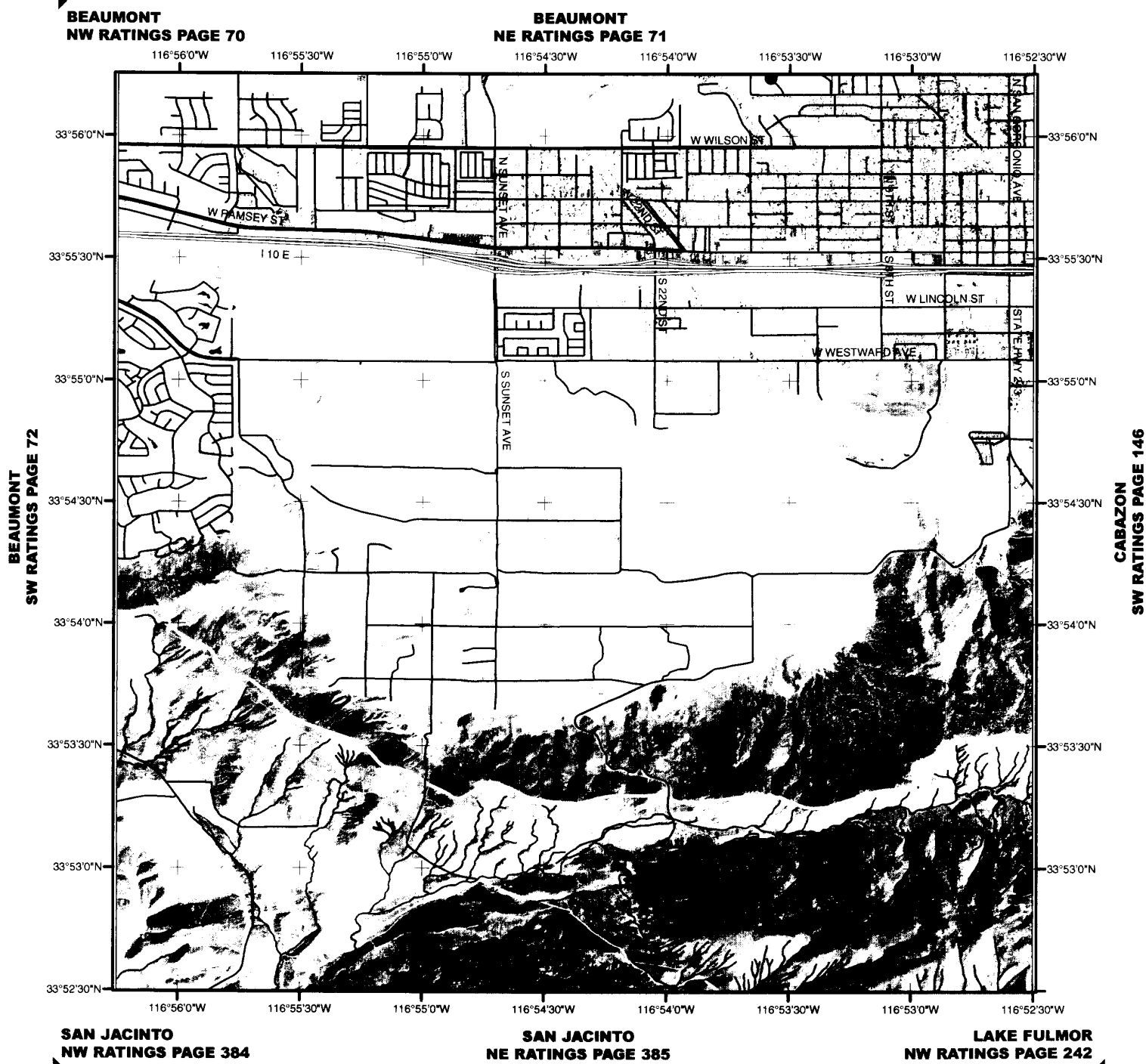
CABAZON
SW RATINGS PAGE 146



Beaumont South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

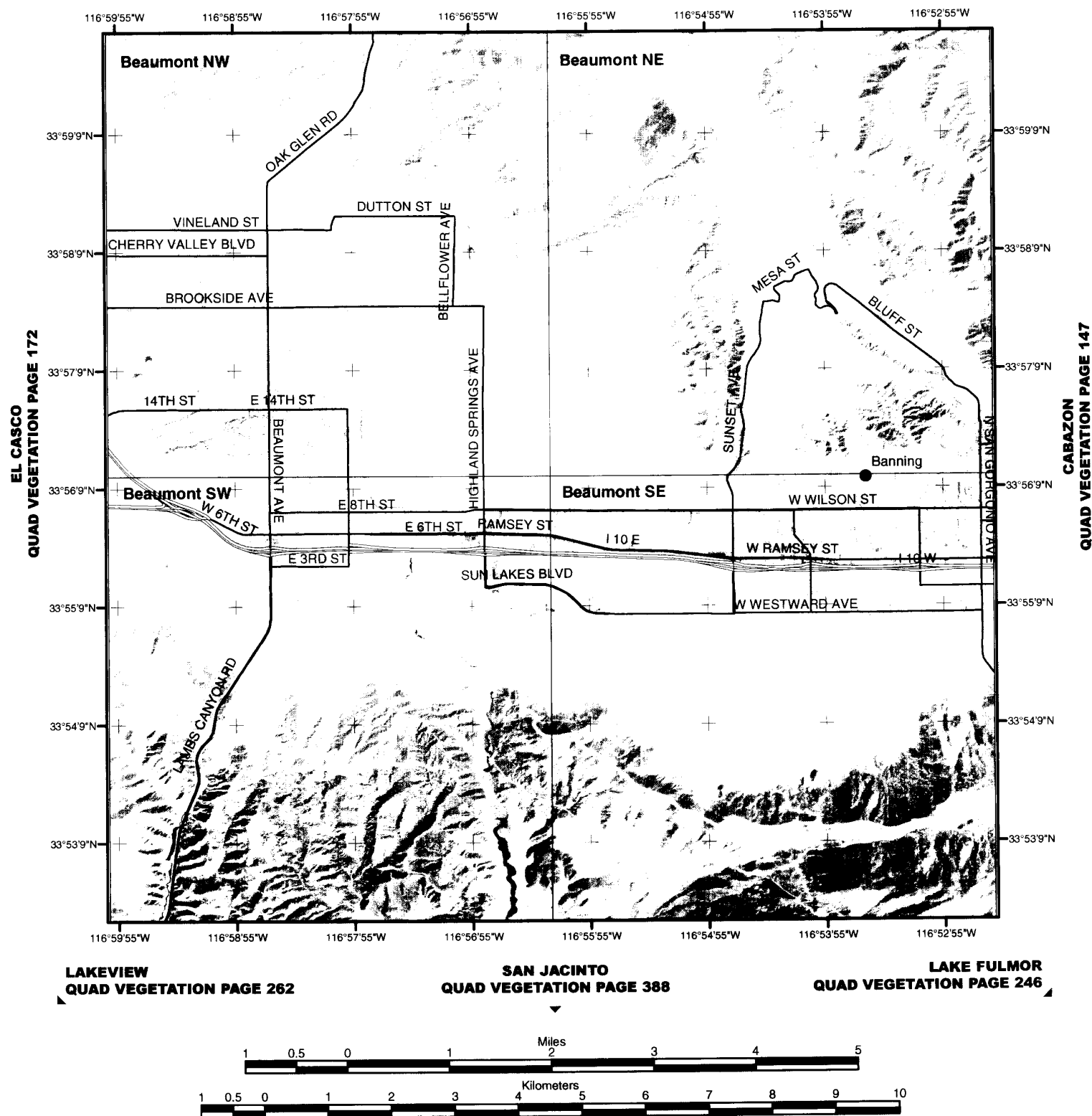


Beaumont South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

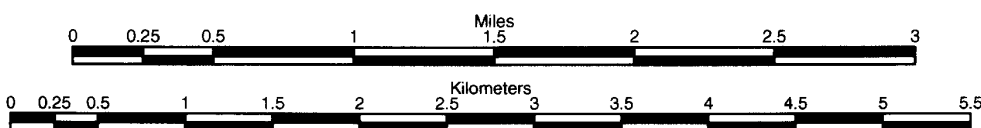
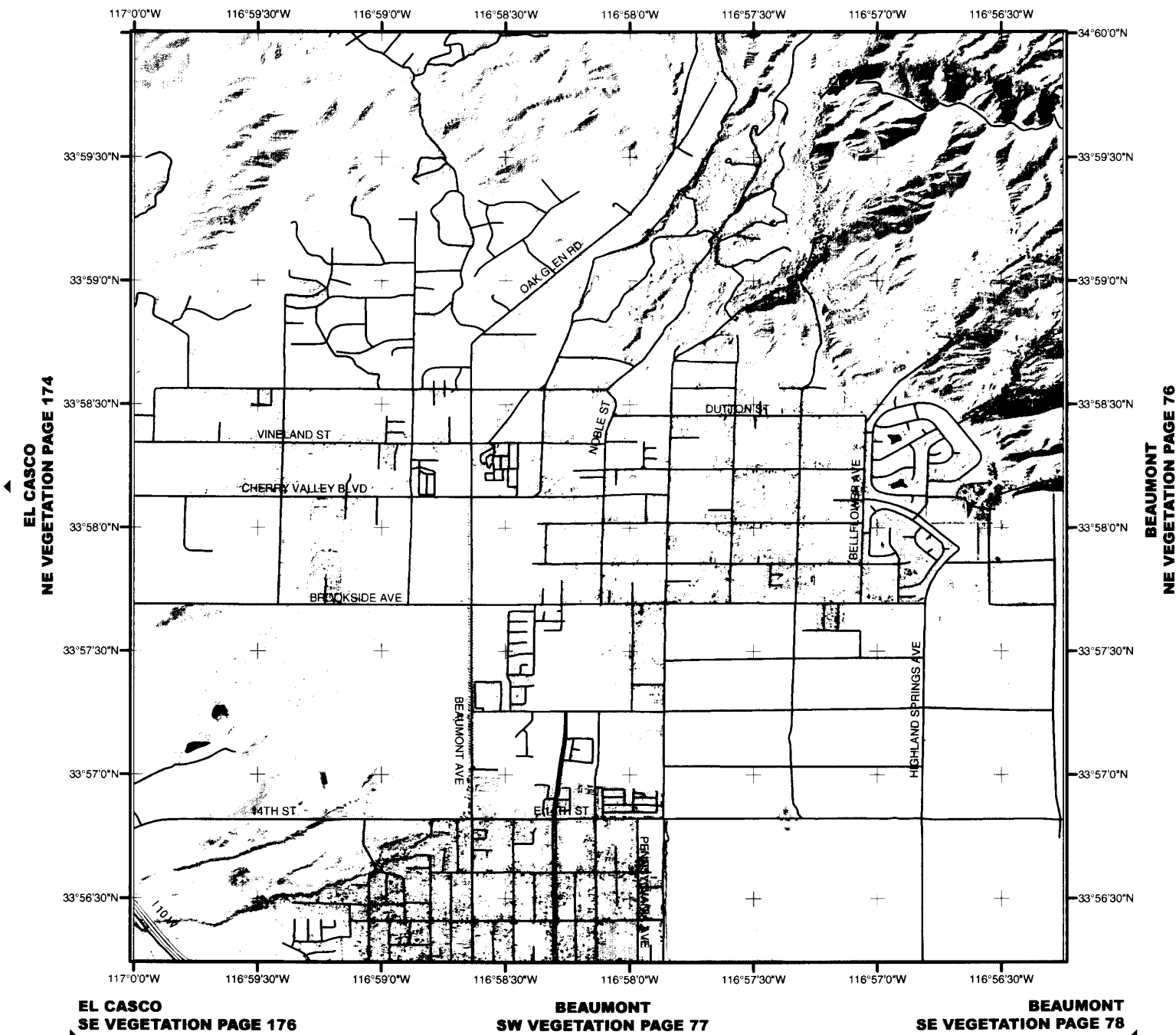


Beaumont Quadrangle

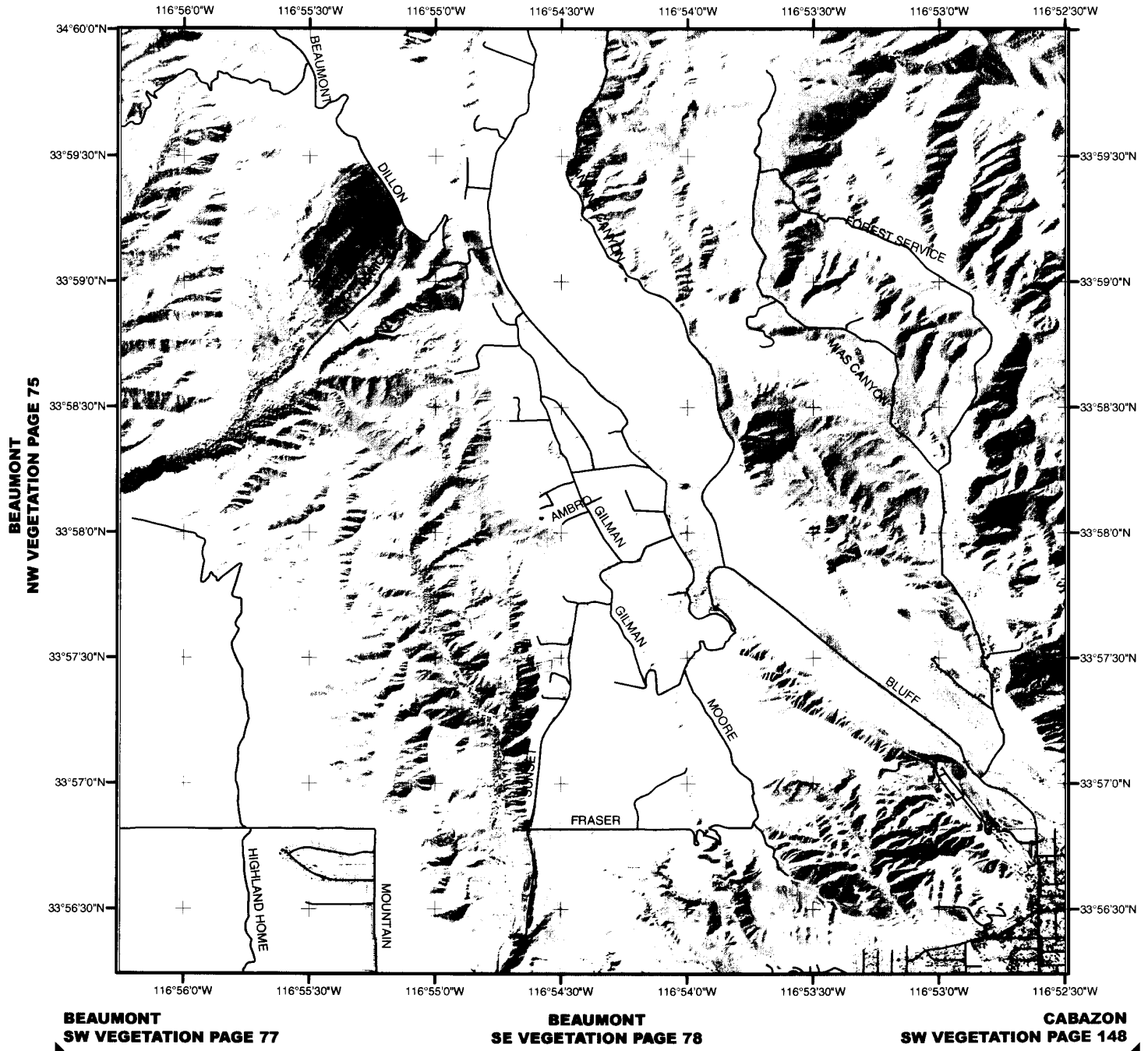
Vegetation Species Association Units for Aquatic Resources



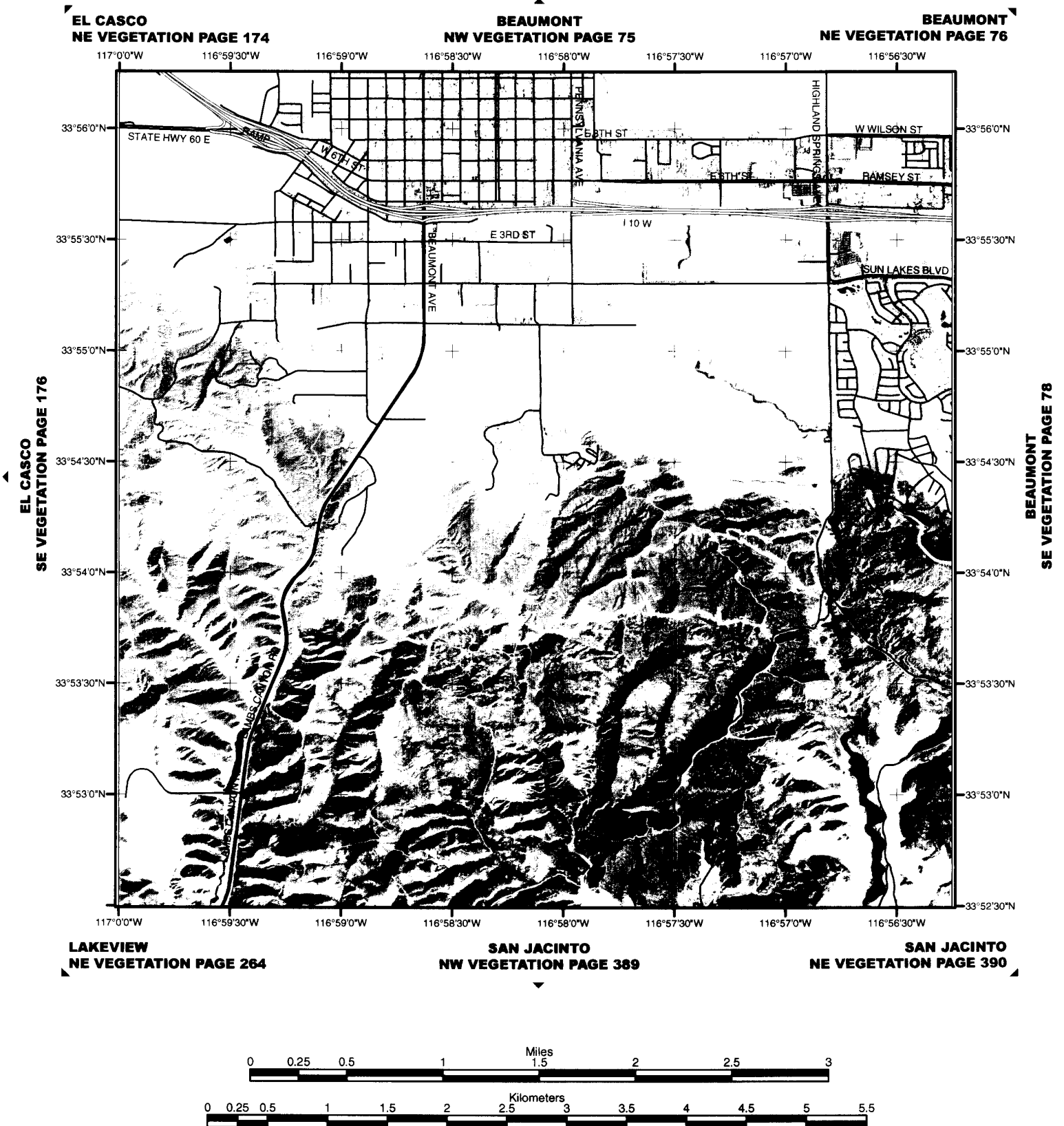
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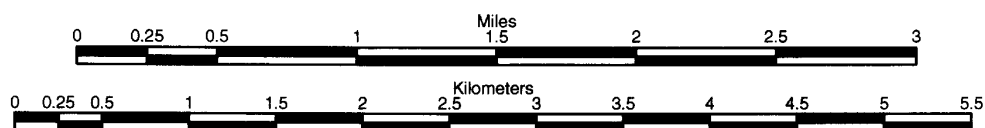
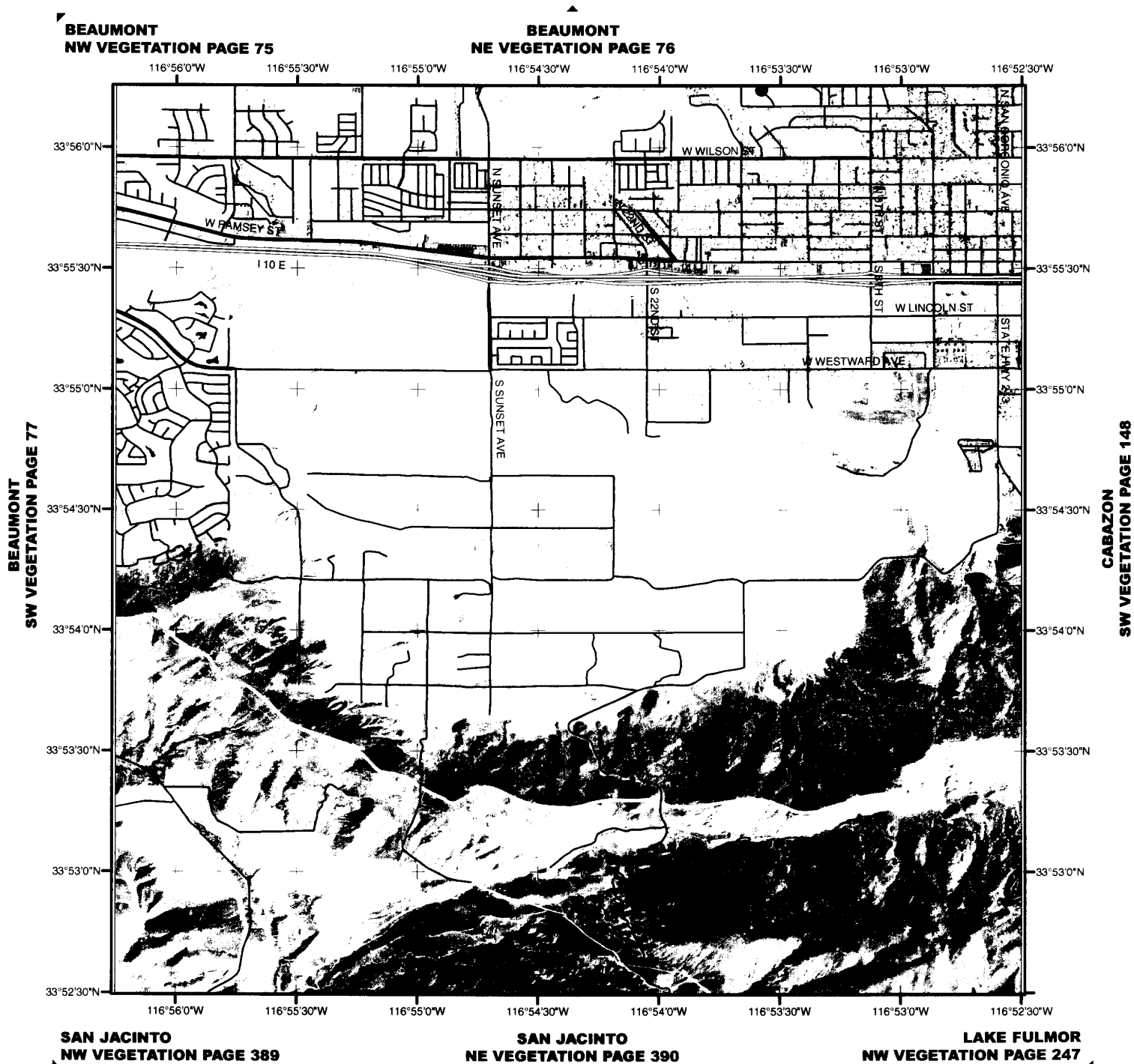
Beaumont North East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



Beaumont South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

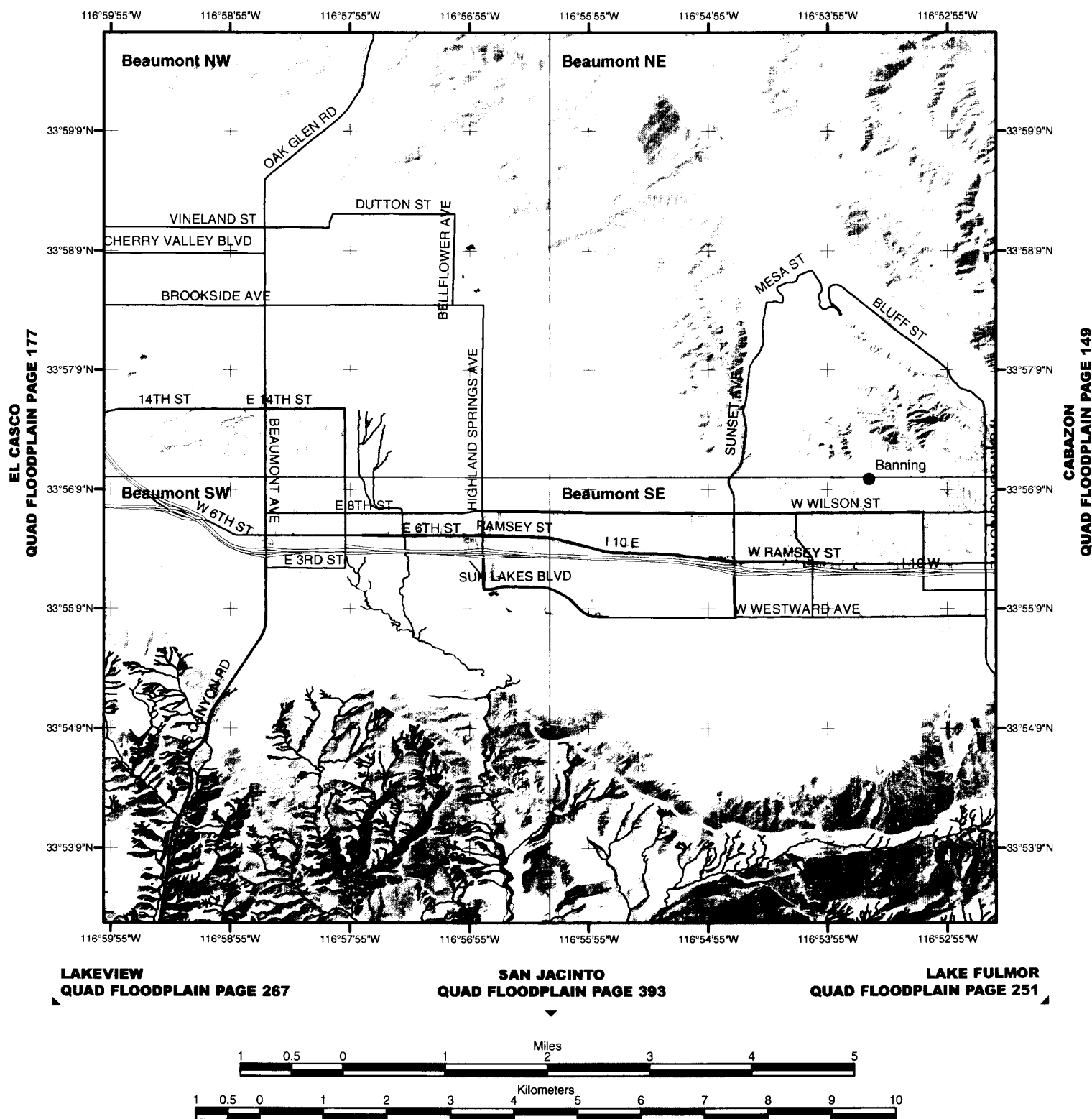


Beaumont South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

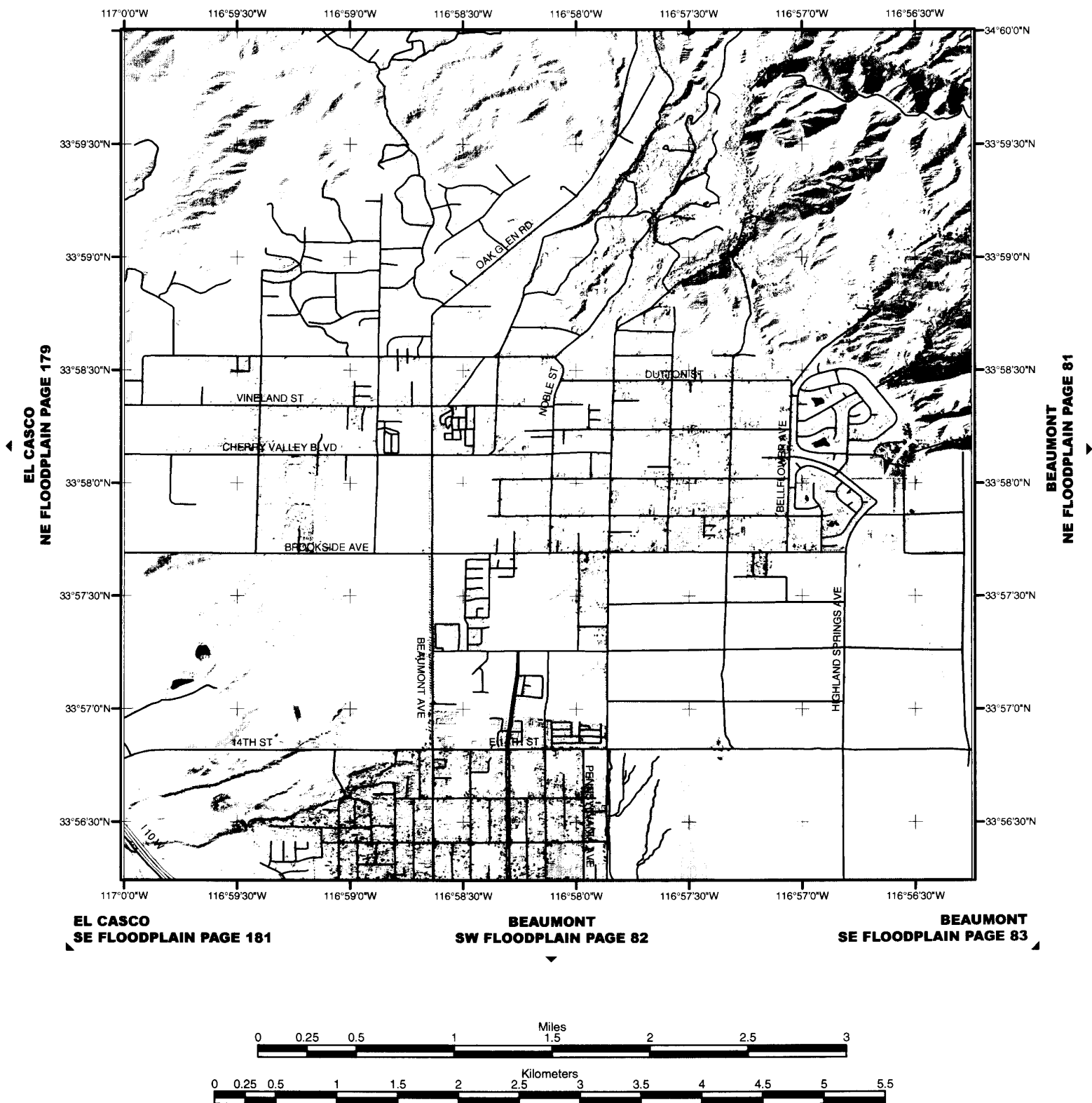


Beaumont Quadrangle

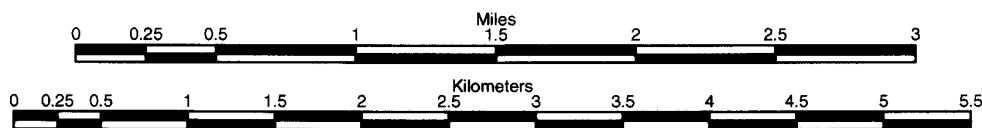
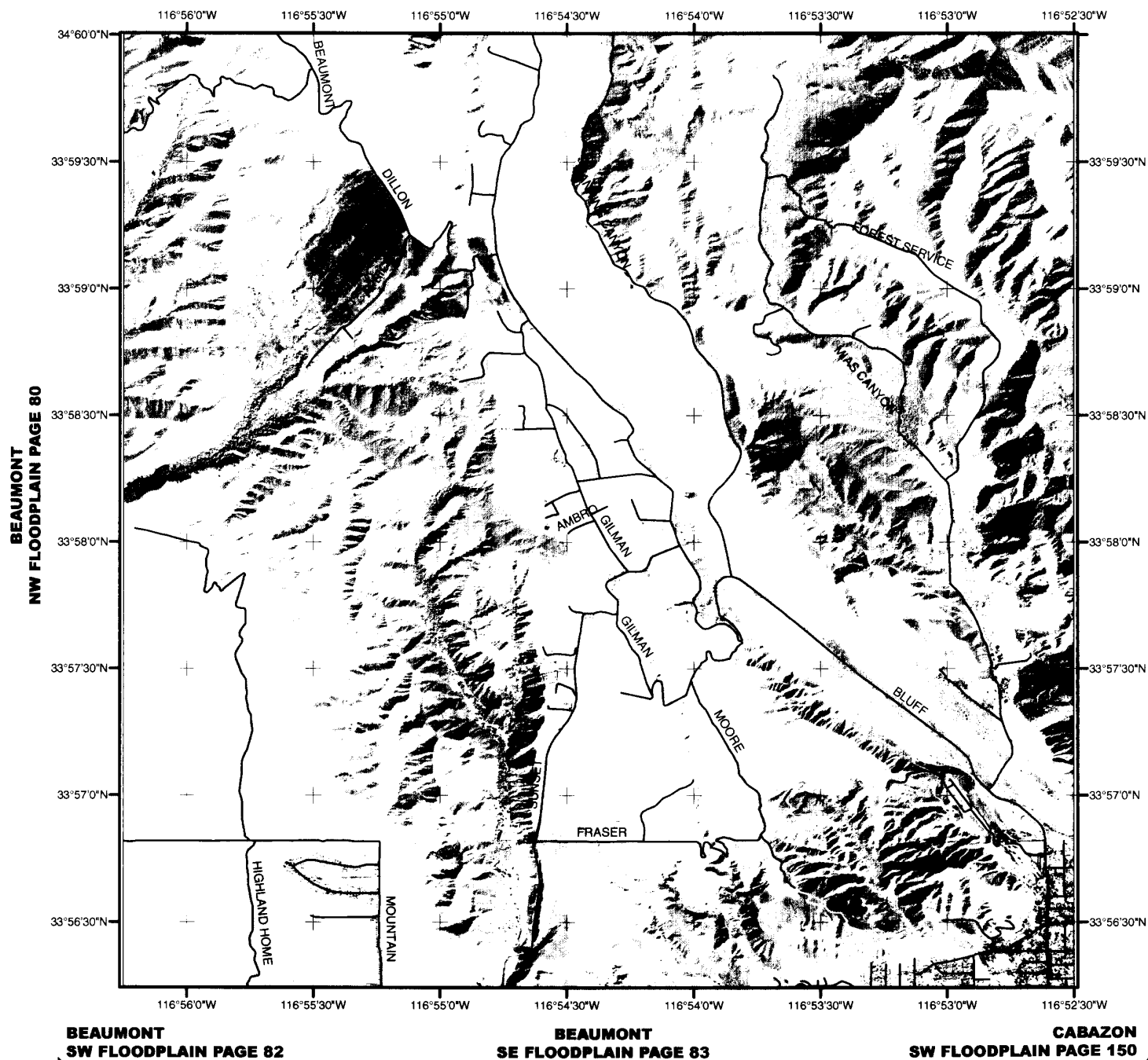
Hydrogeomorphic Floodplain Units for Aquatic Resources



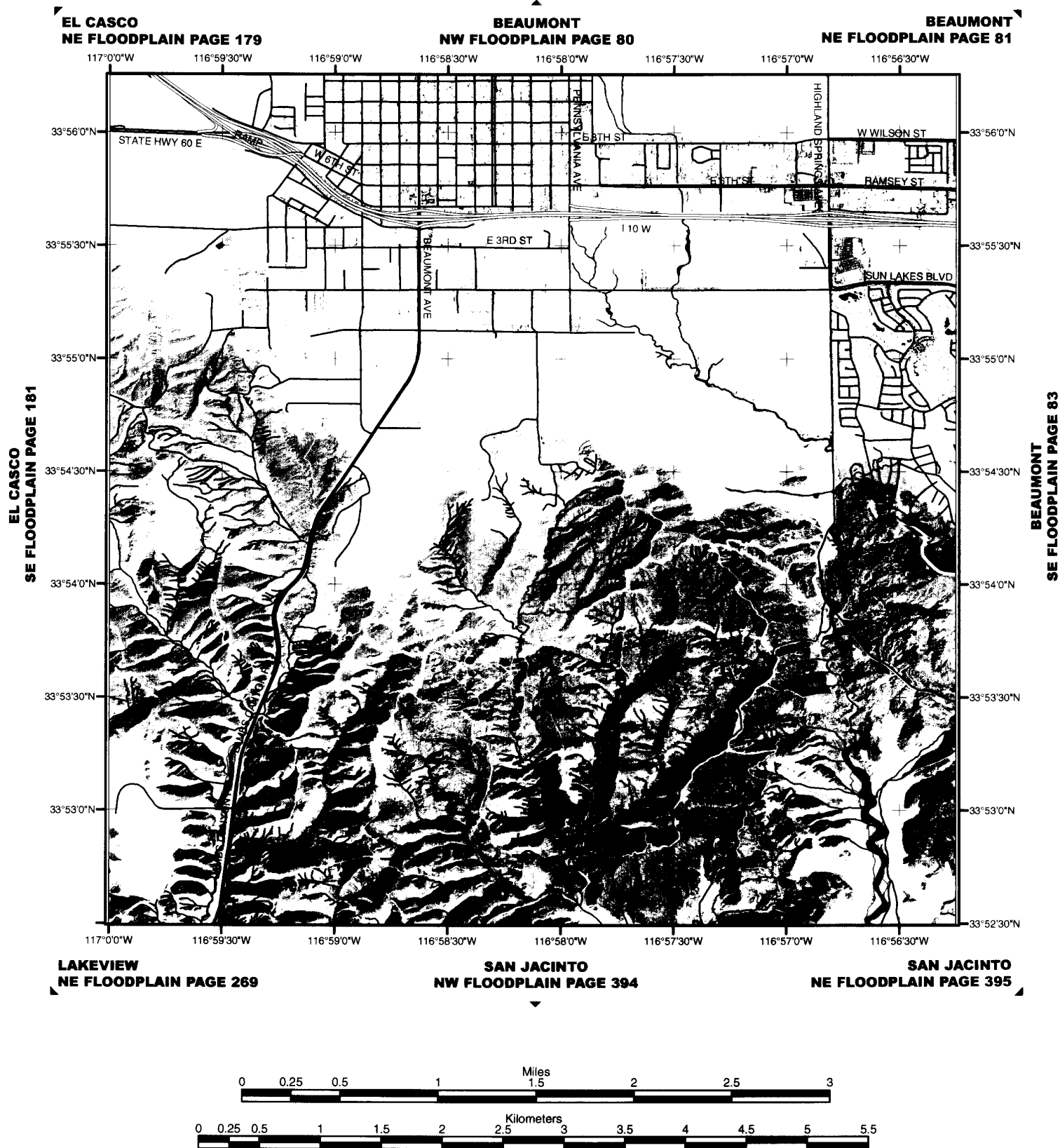
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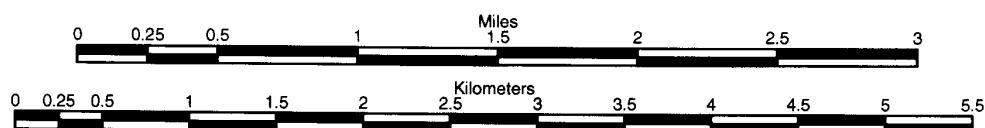
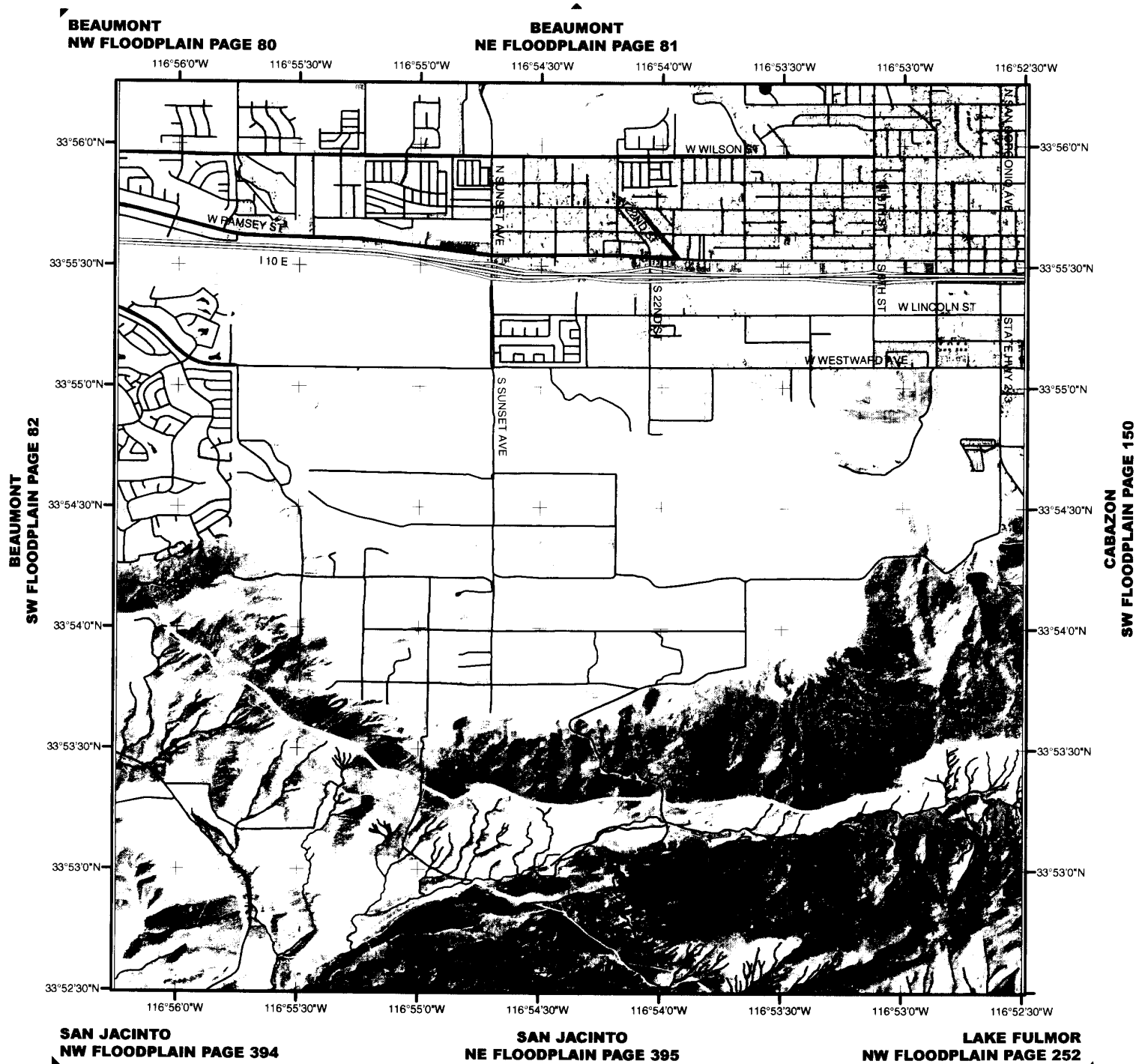
Beaumont North East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



Beaumont South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

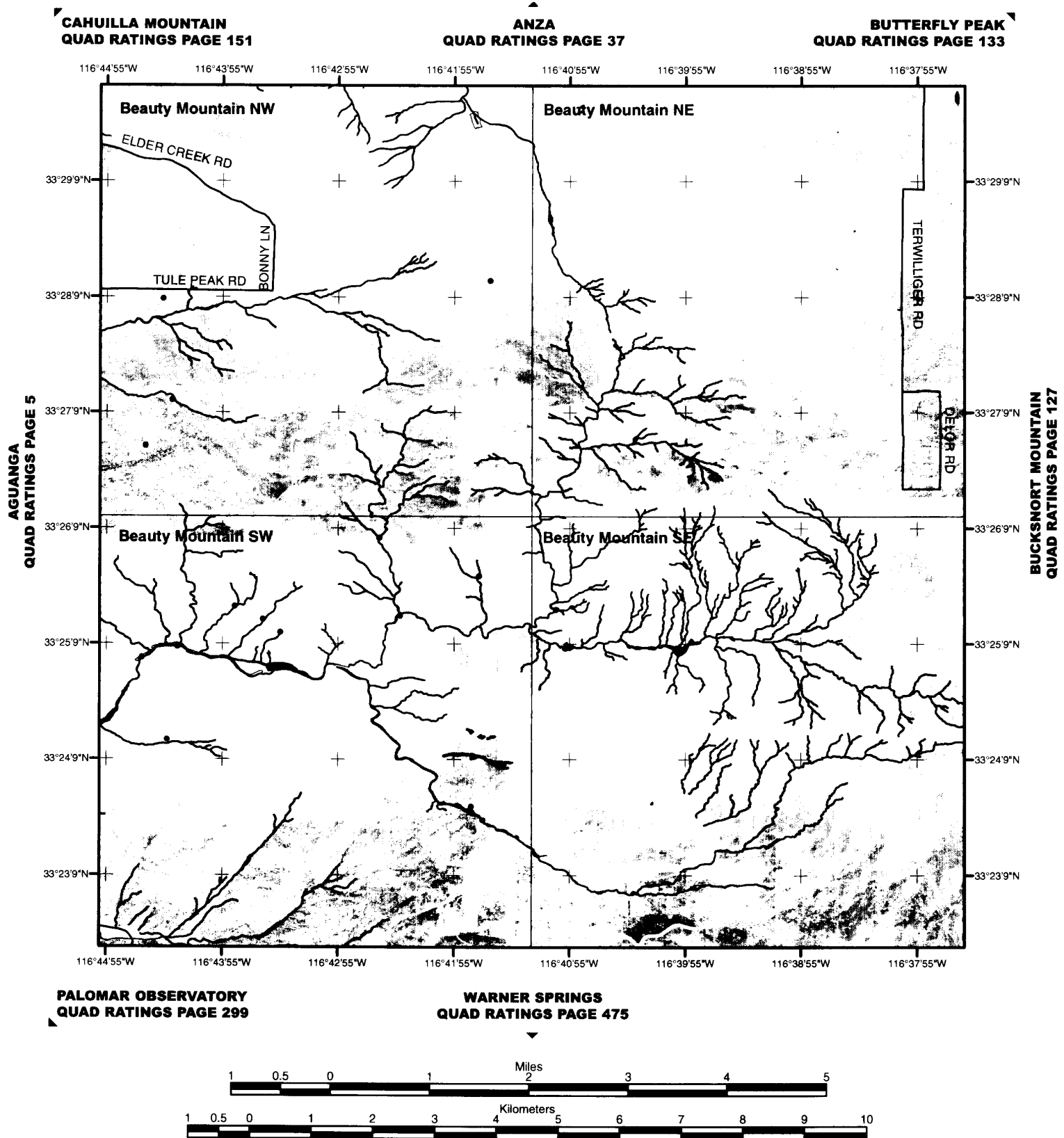


Beaumont South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

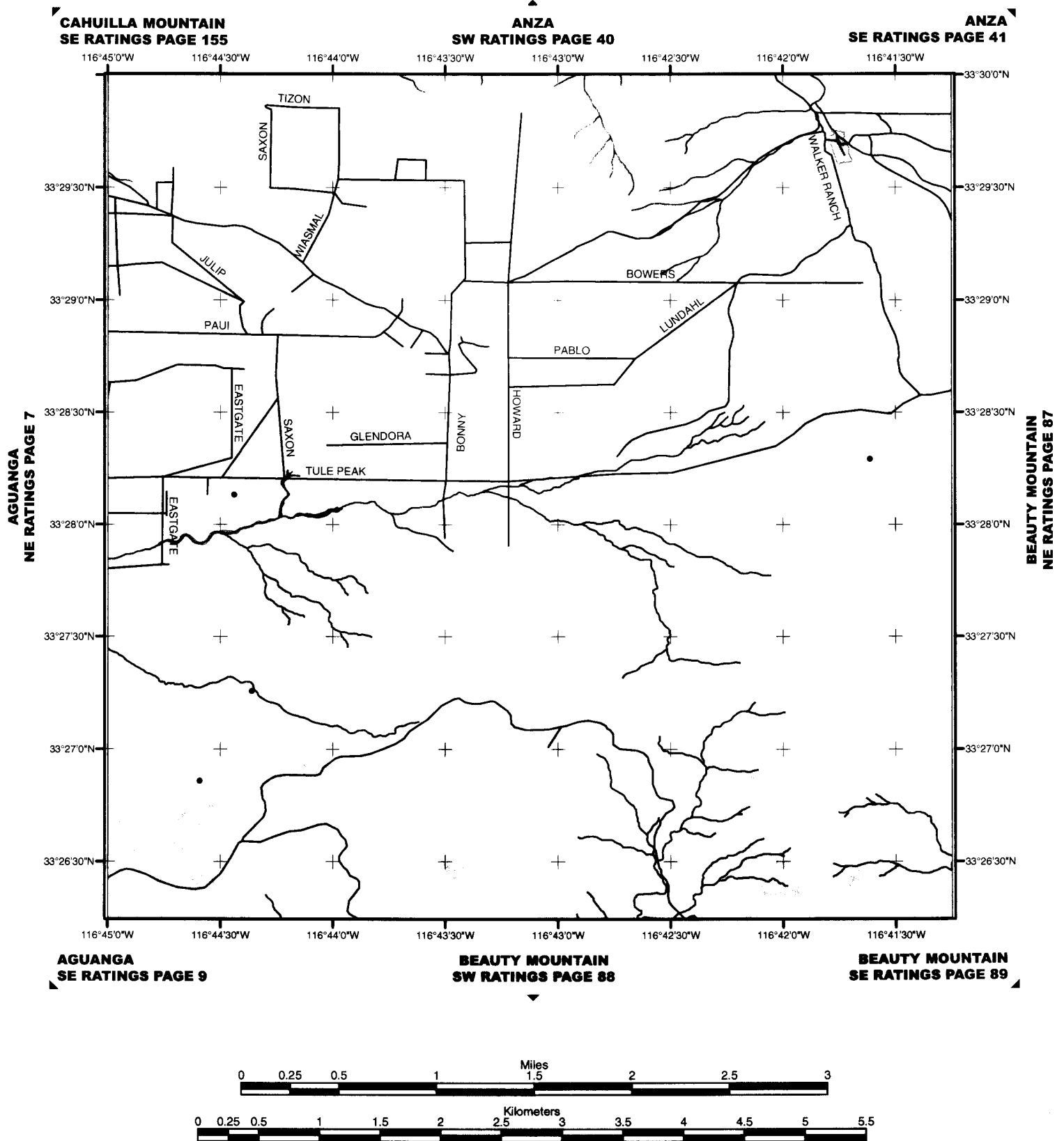


Beauty Mountain Quadrangle

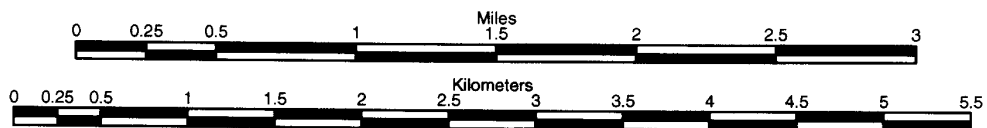
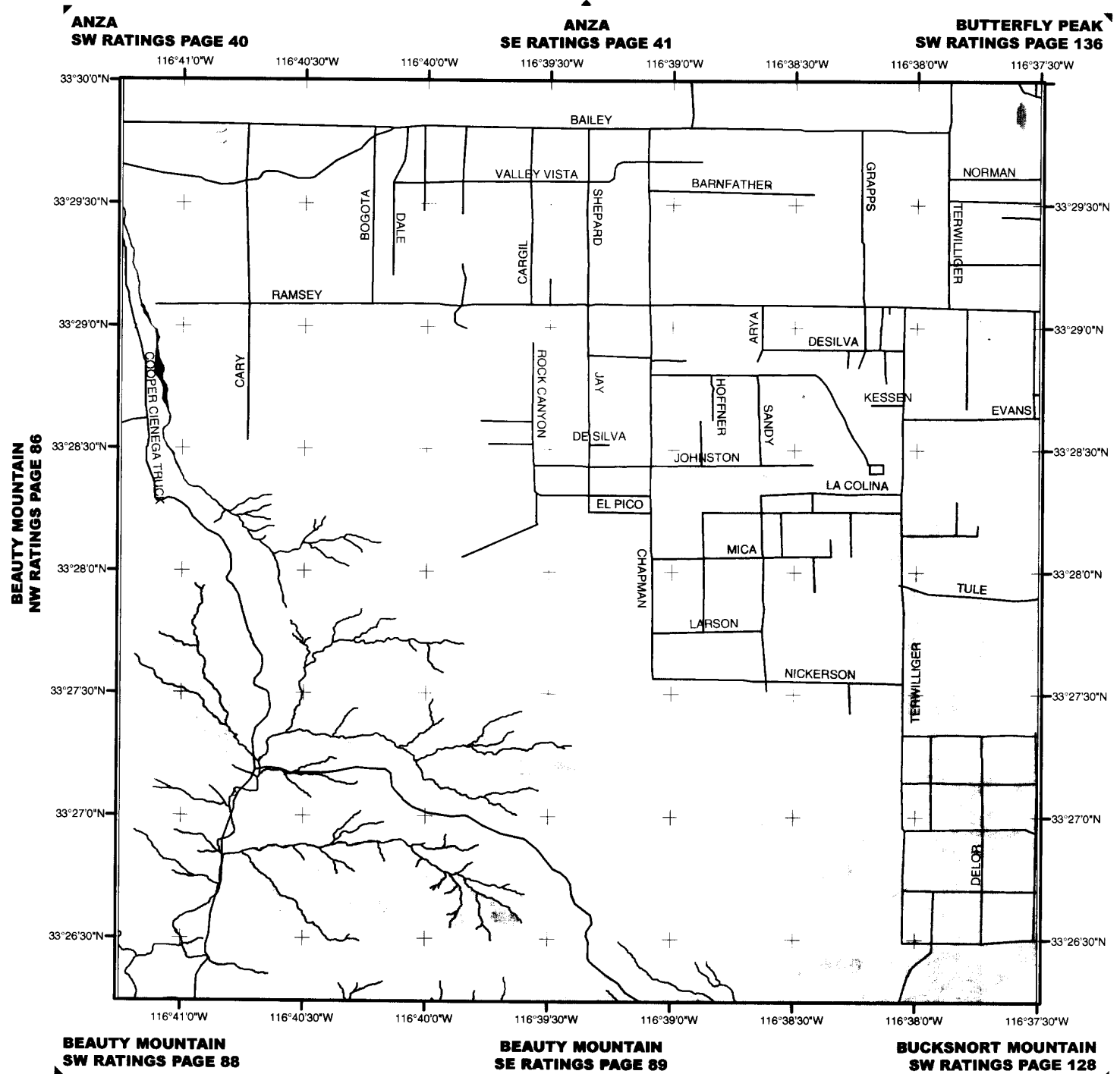
Regulatory Probability Ratings for Aquatic Resources



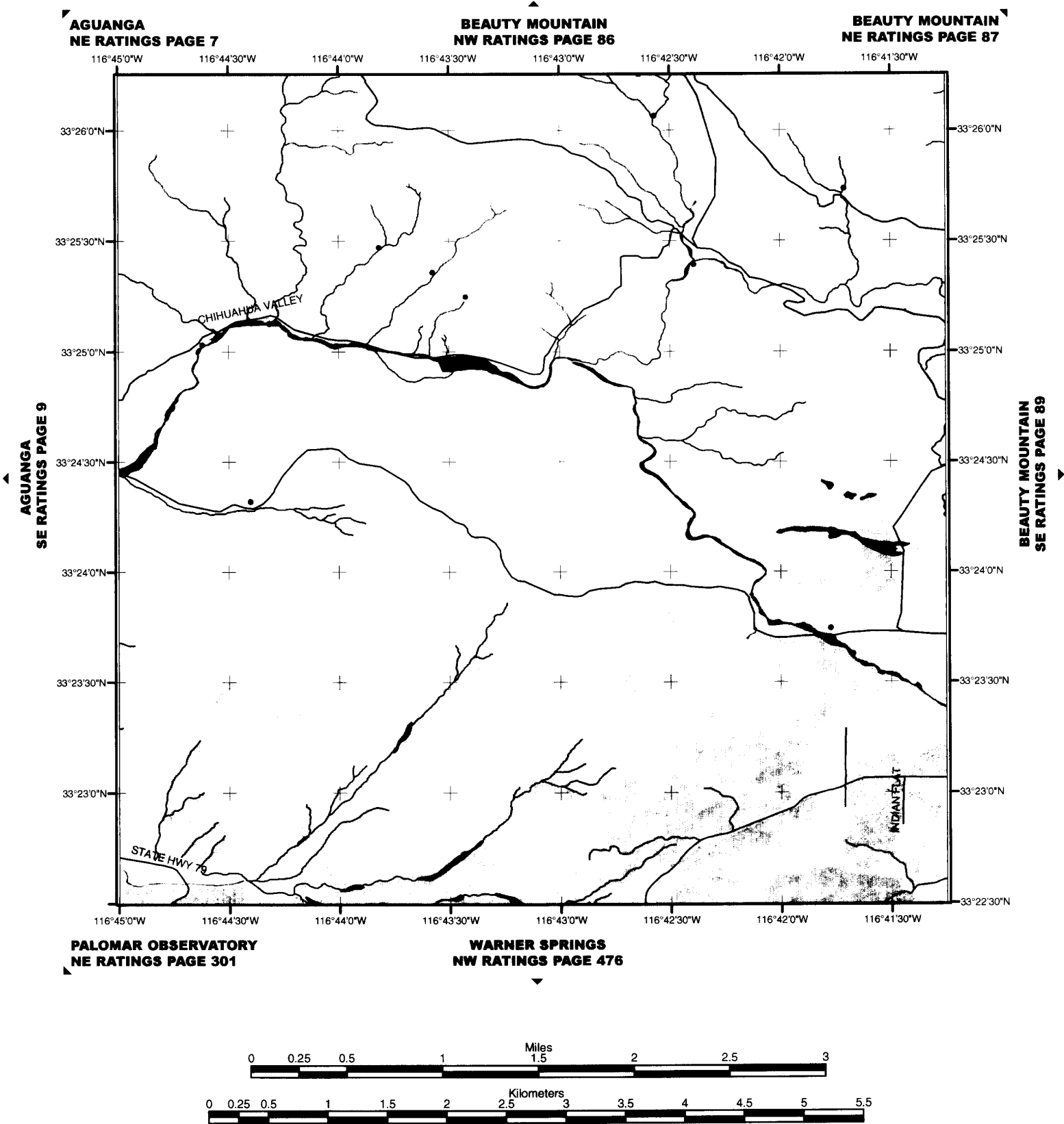
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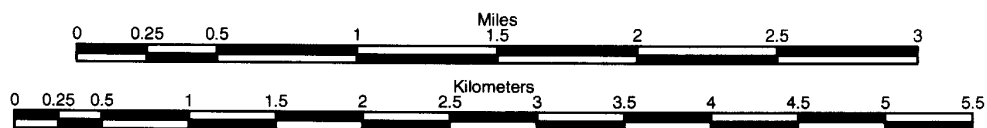
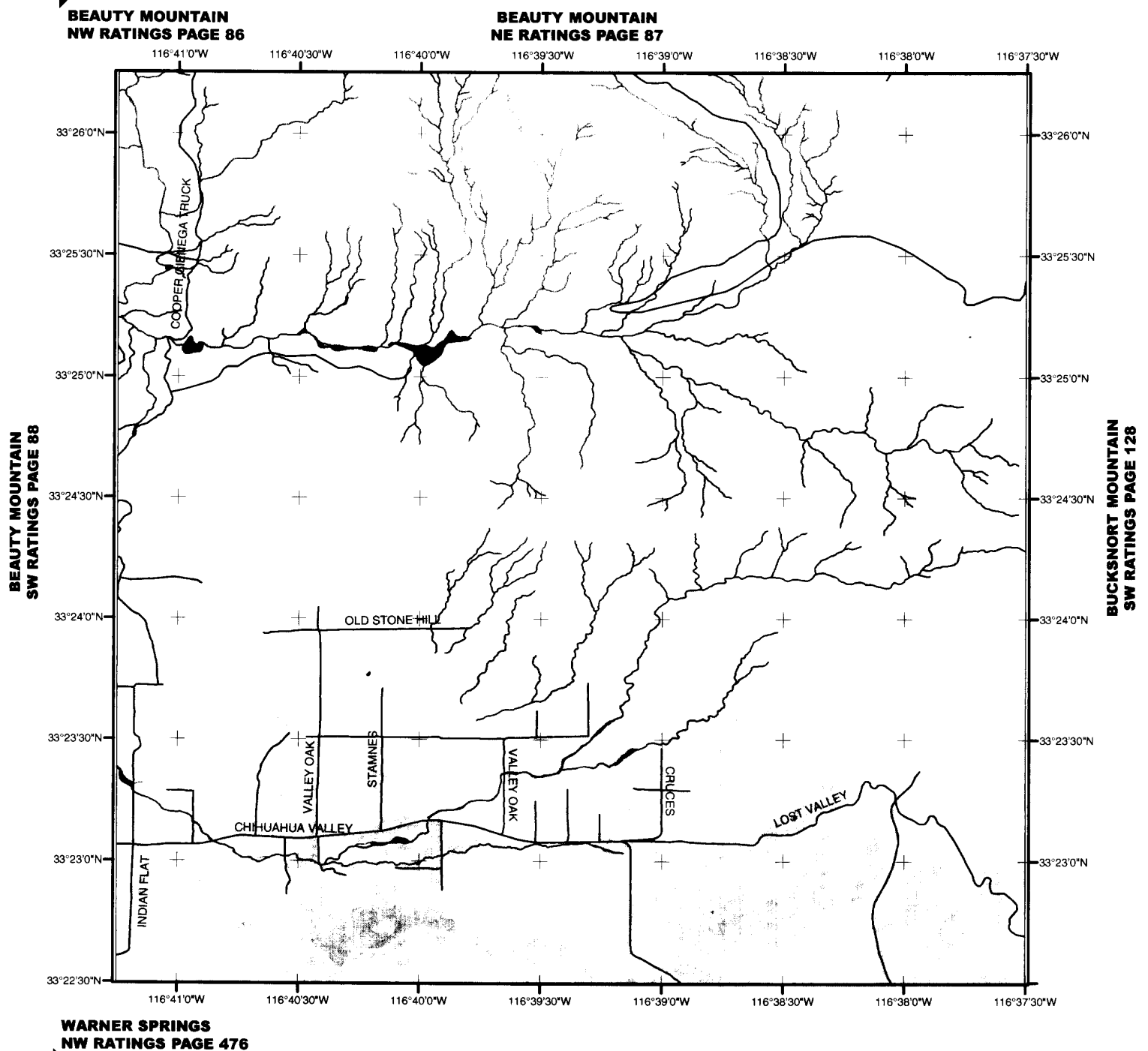
Beauty Mountain North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



Beauty Mountain South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

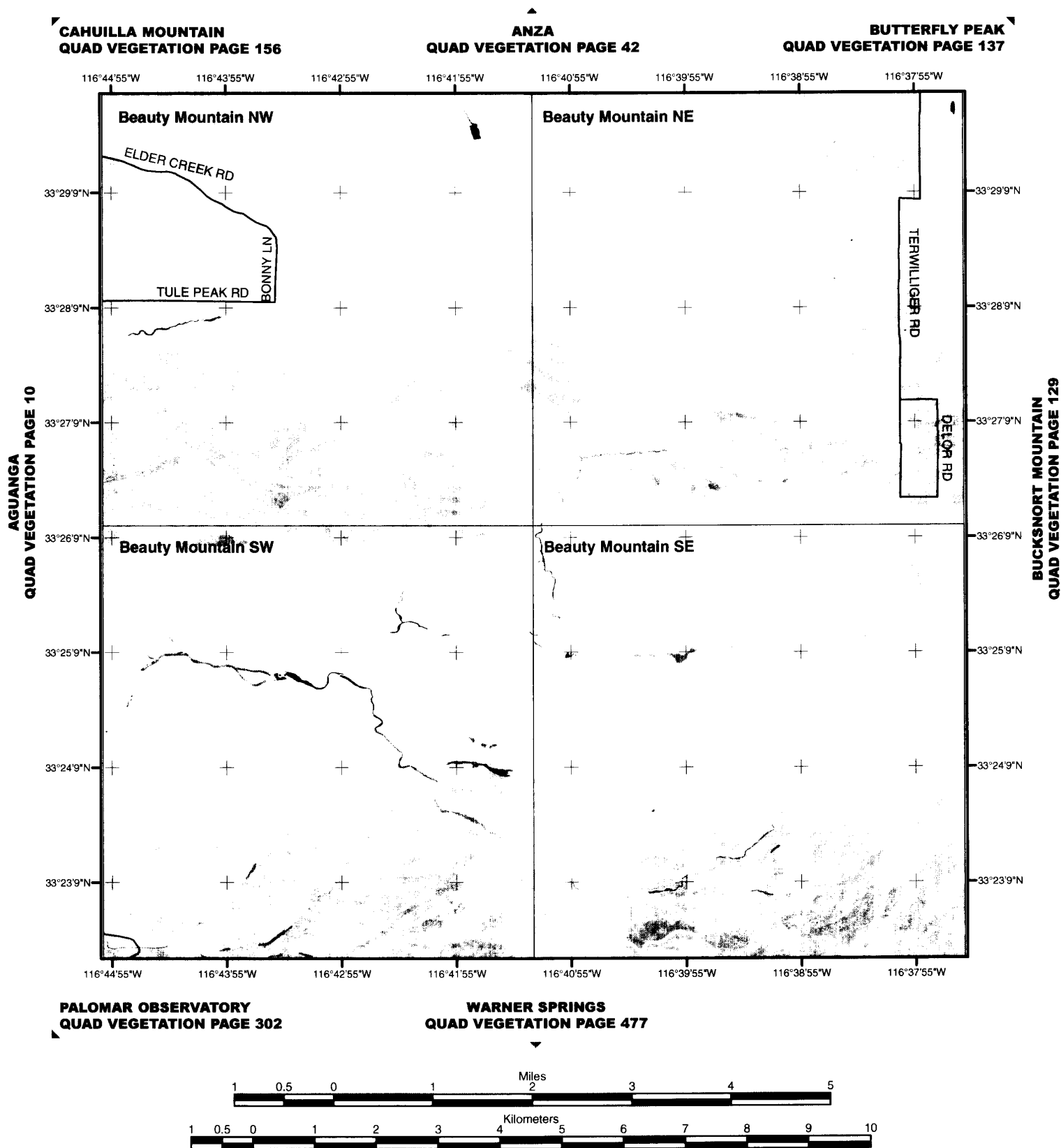


Beauty Mountain South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

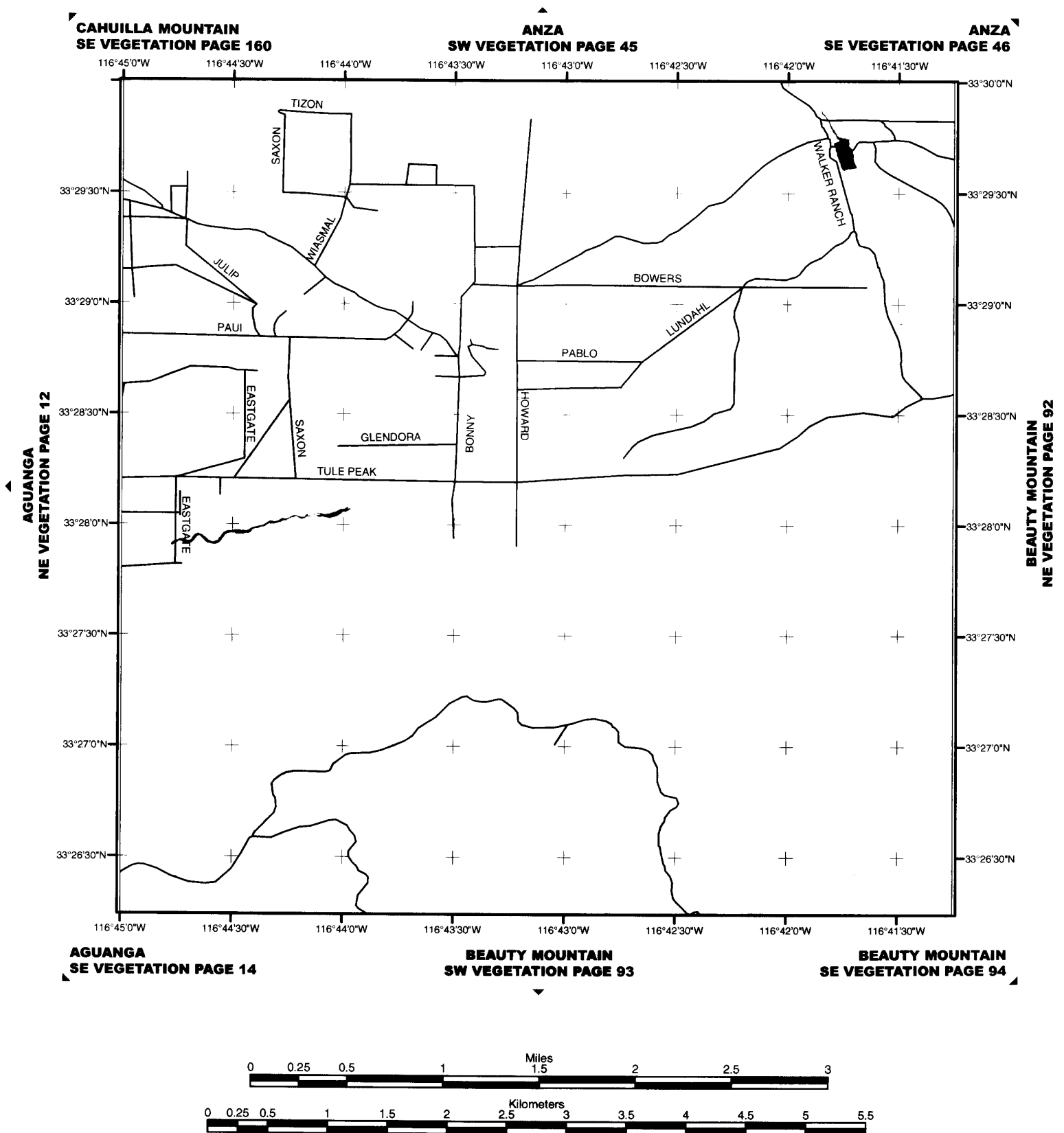


Beauty Mountain Quadrangle

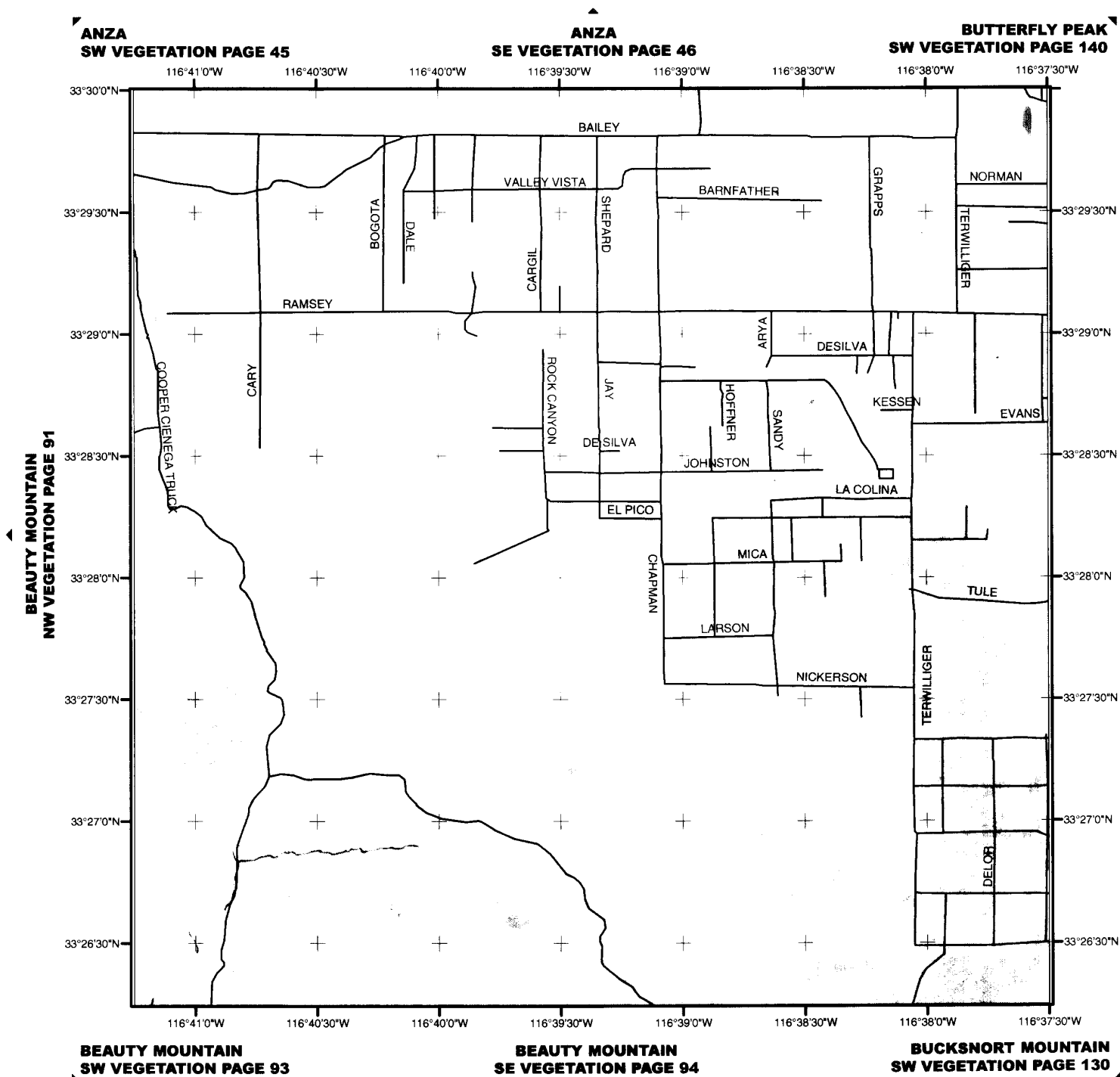
Vegetation Species Association Units for Aquatic Resources



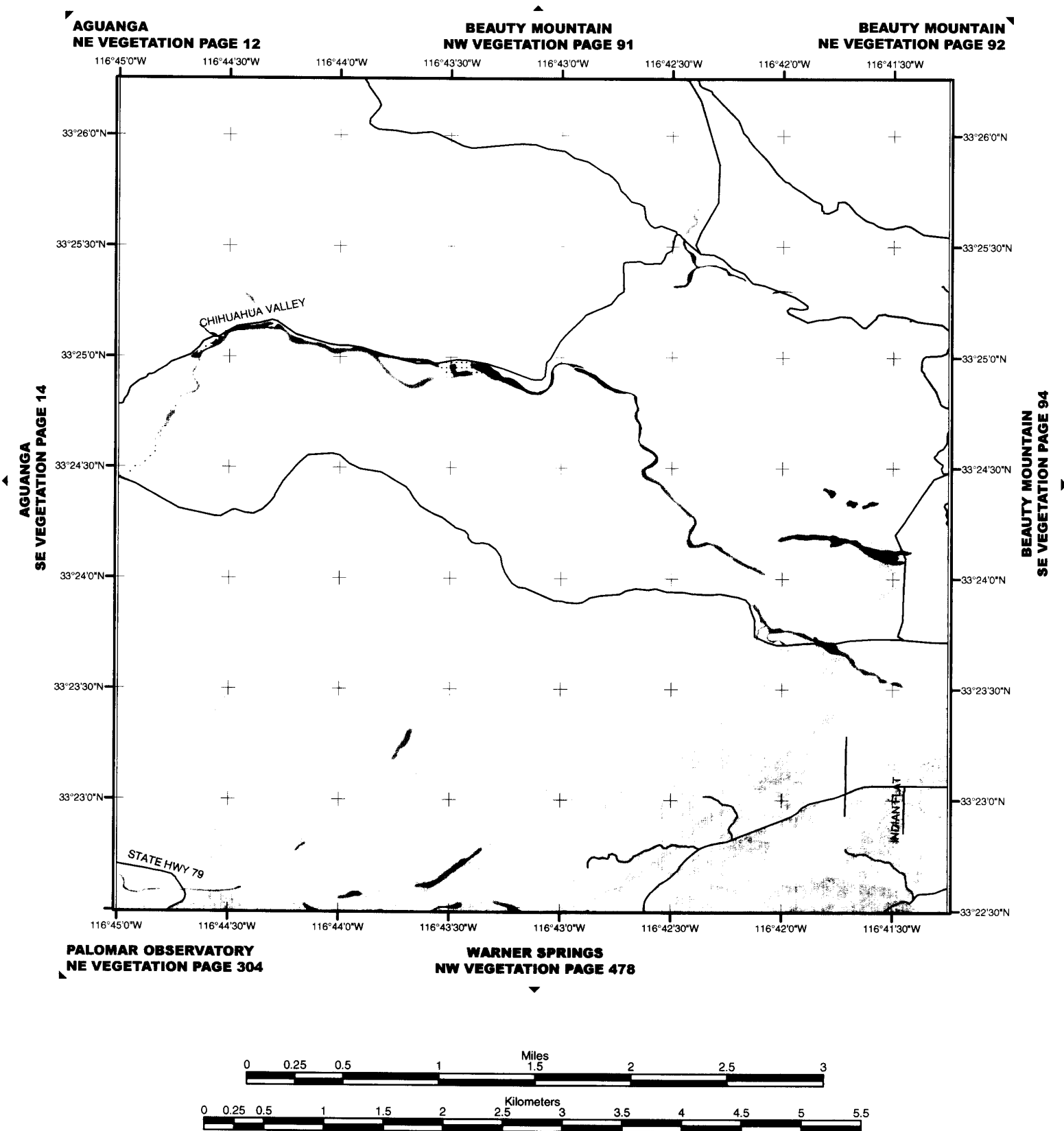
Beauty Mountain North West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



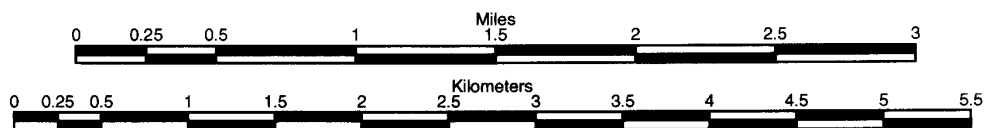
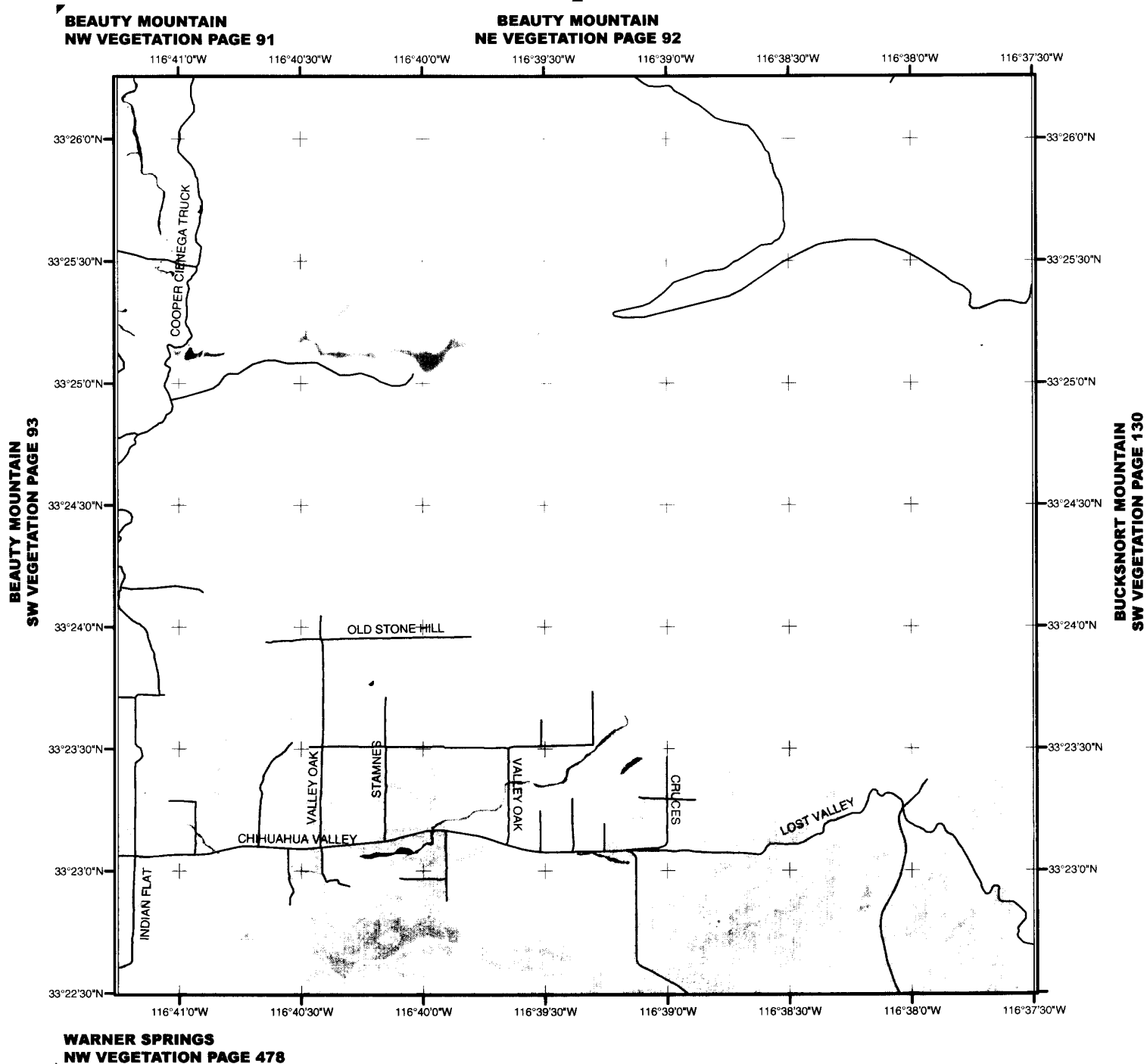
Beauty Mountain North East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



Beauty Mountain South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

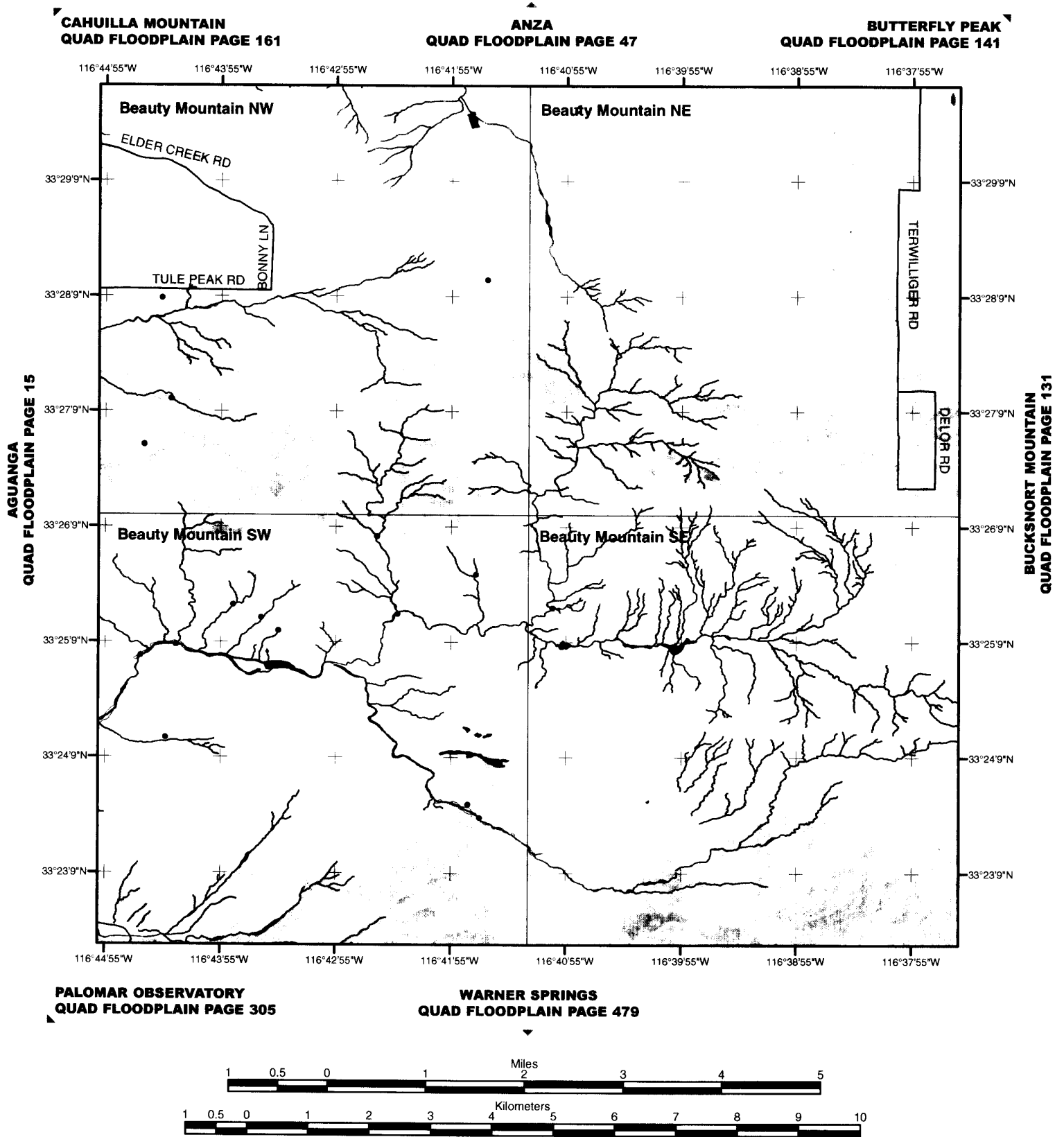


Beauty Mountain South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

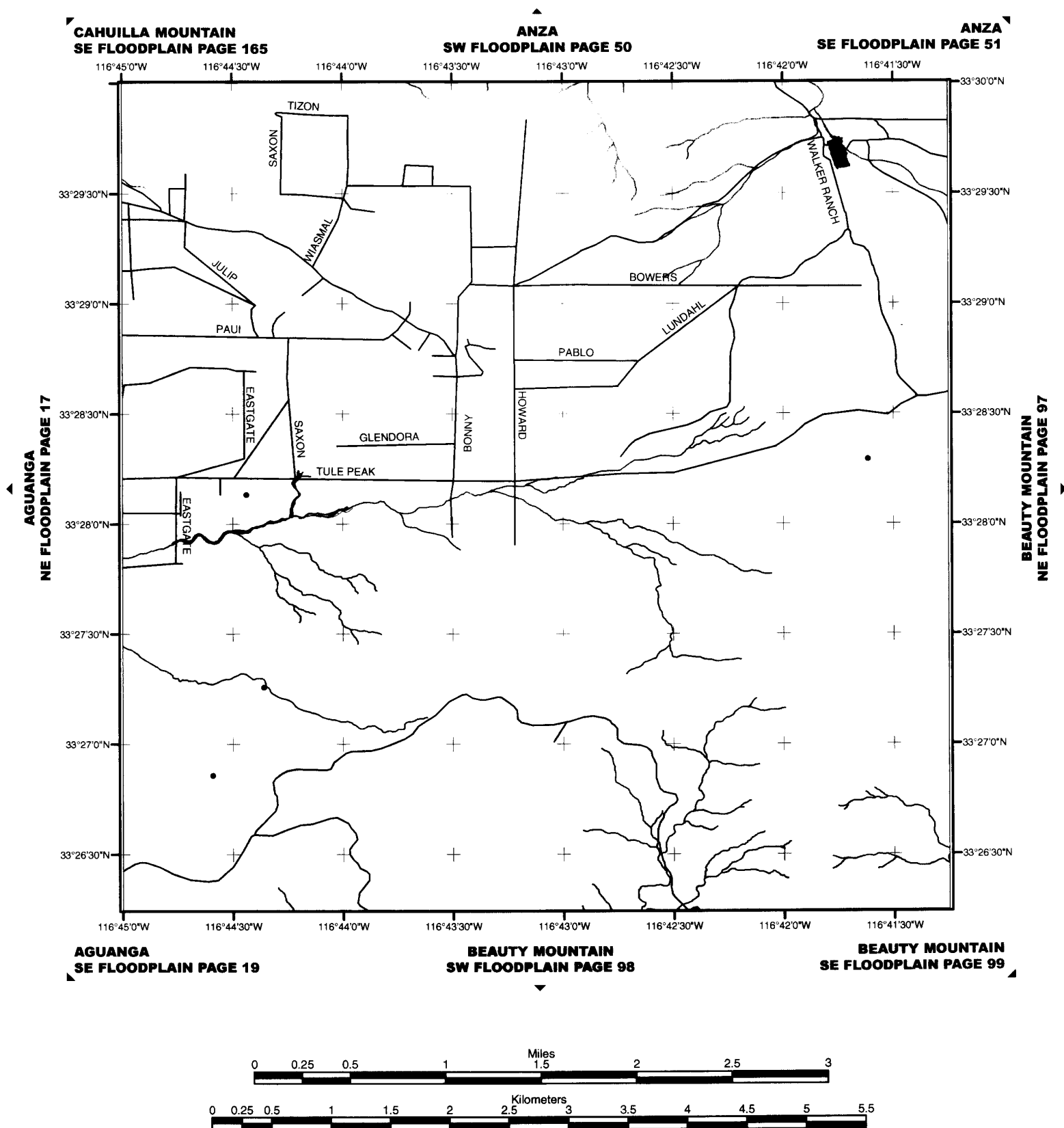


Beauty Mountain Quadrangle

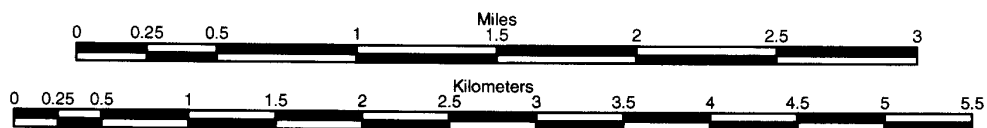
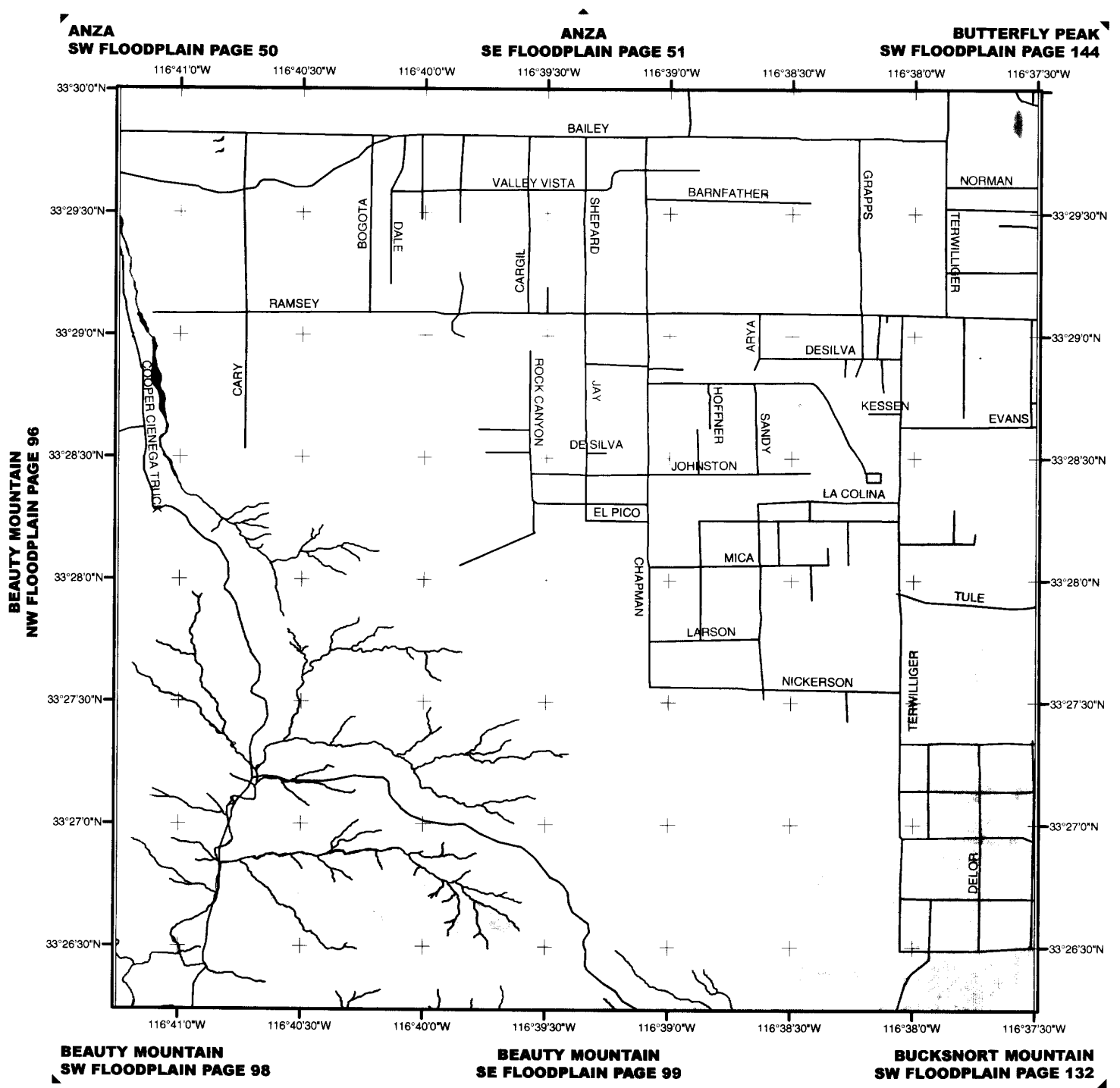
Hydrogeomorphic Floodplain Units for Aquatic Resources



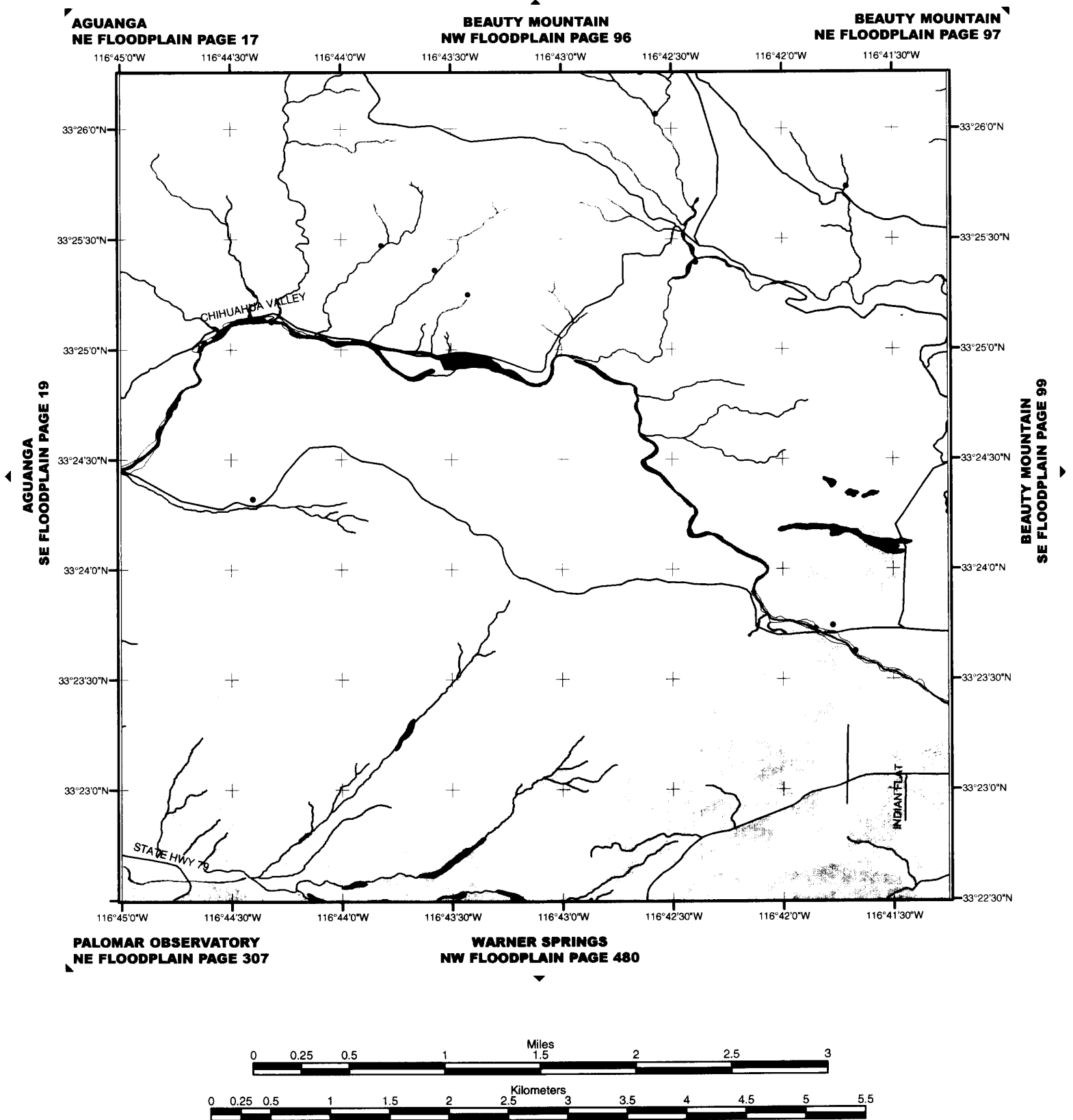
Beauty Mountain North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



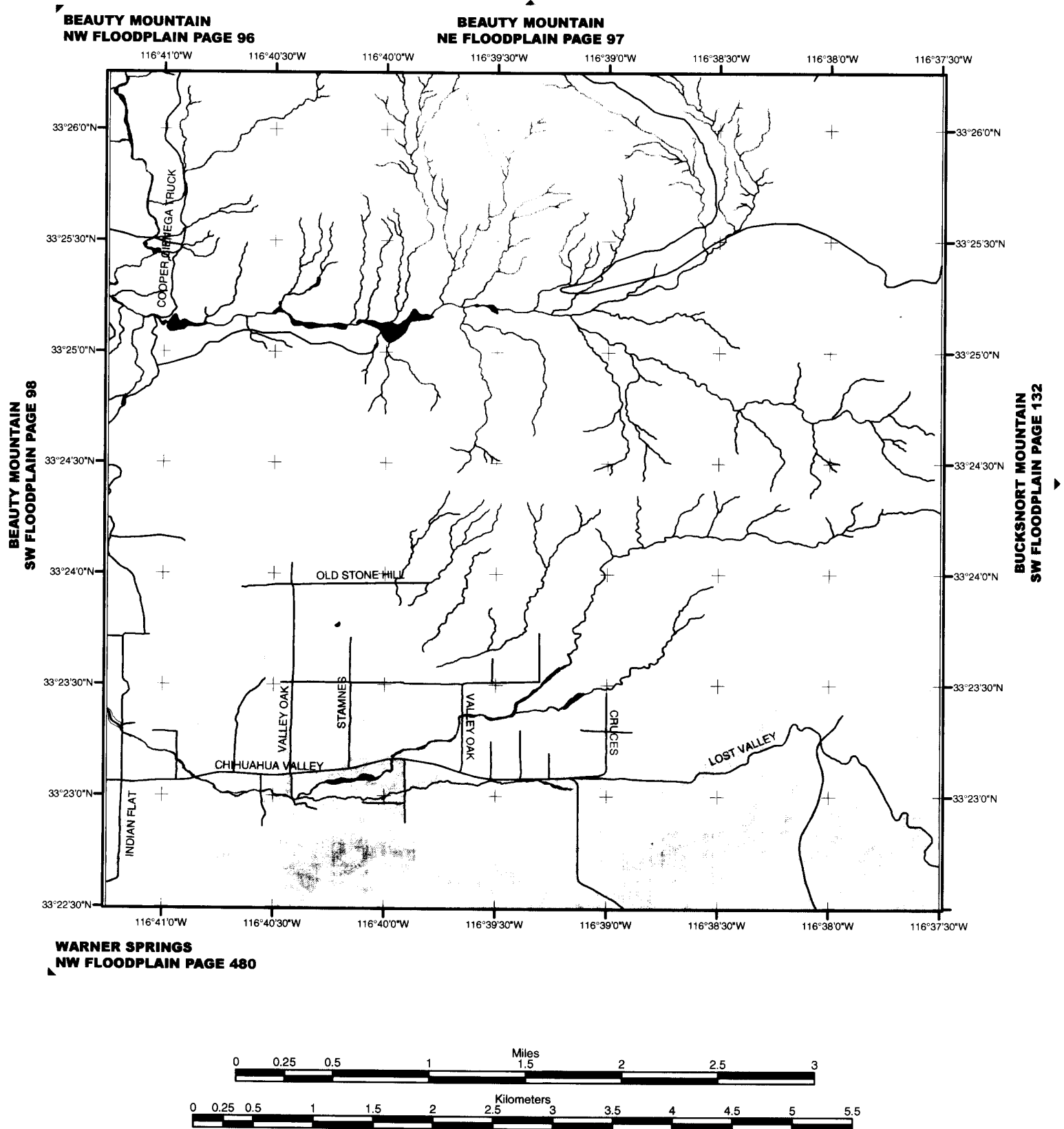
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Beauty Mountain South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



Beauty Mountain South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



Blackburn Canyon Quadrangle

Regulatory Probability Ratings for Aquatic Resources

SAN JACINTO
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LAKE FULMOR
QUAD RATINGS PAGE 241

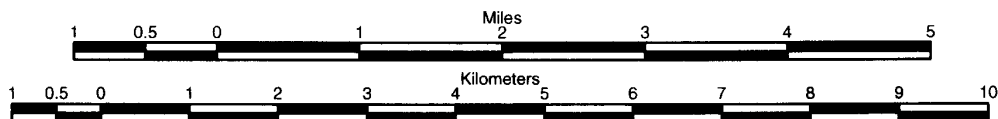
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QUAD RATINGS PAGE 399



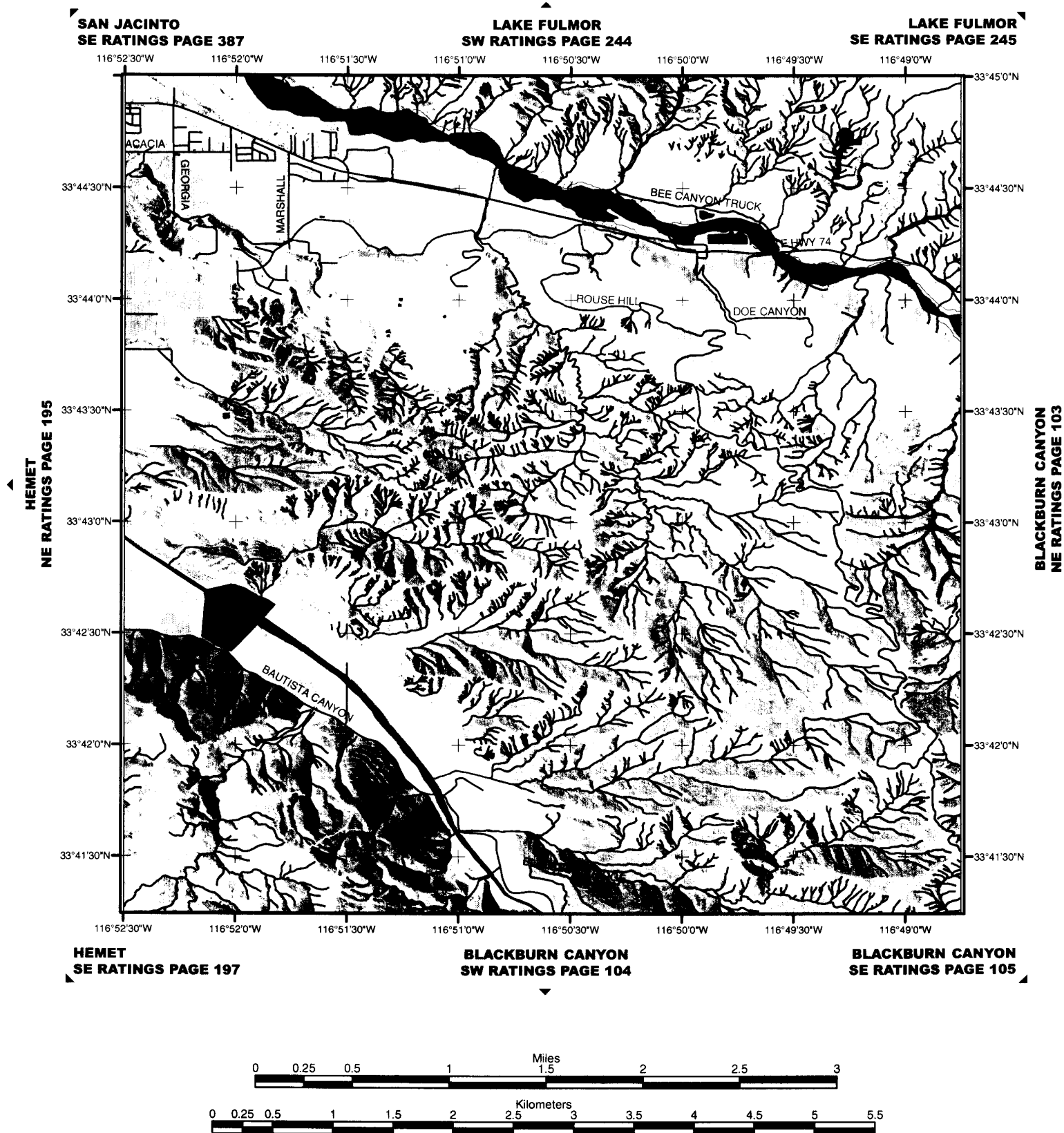
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QUAD RATINGS PAGE 367

CAHUILLA MOUNTAIN
QUAD RATINGS PAGE 151

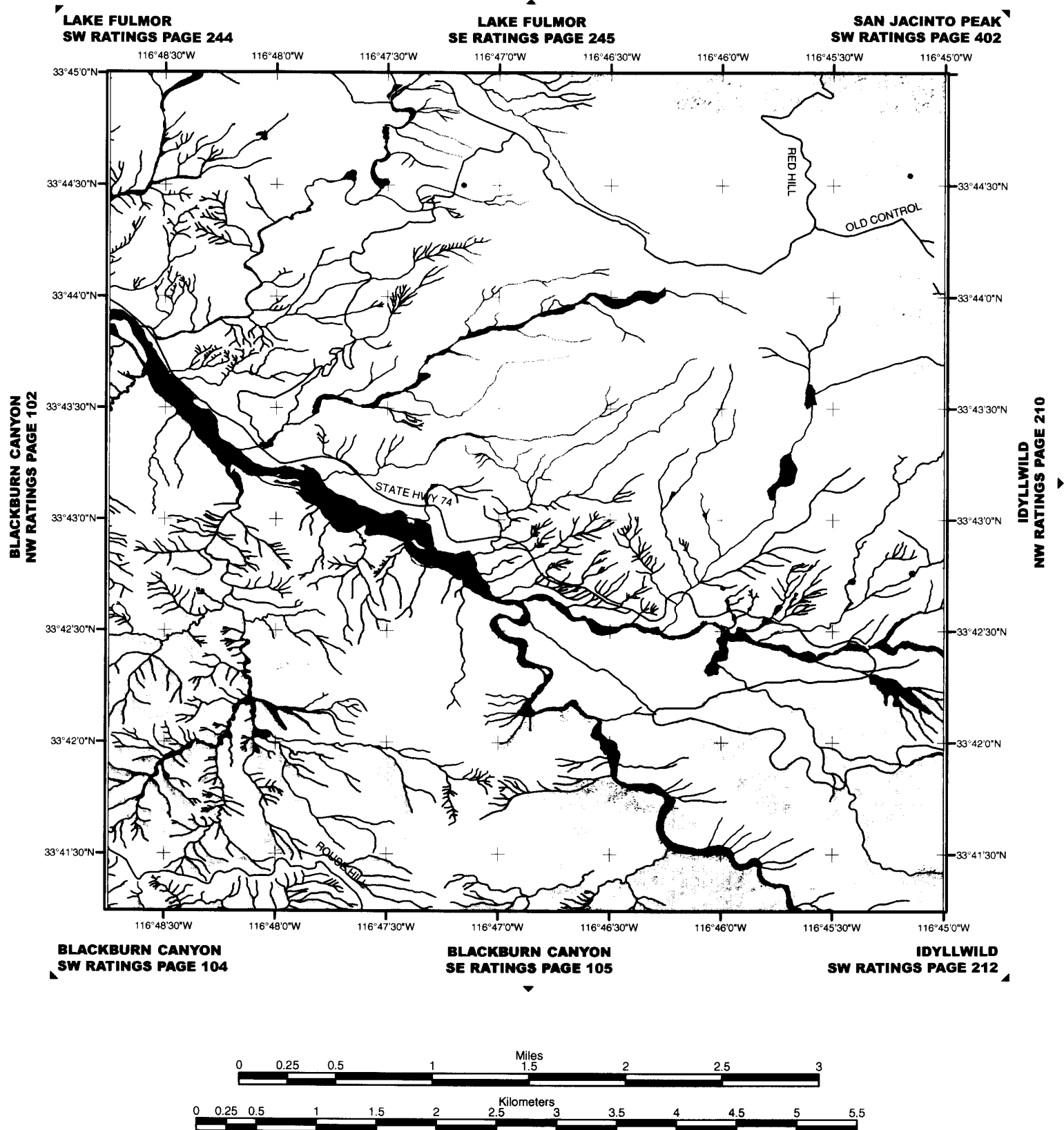
ANZA
QUAD RATINGS PAGE 37



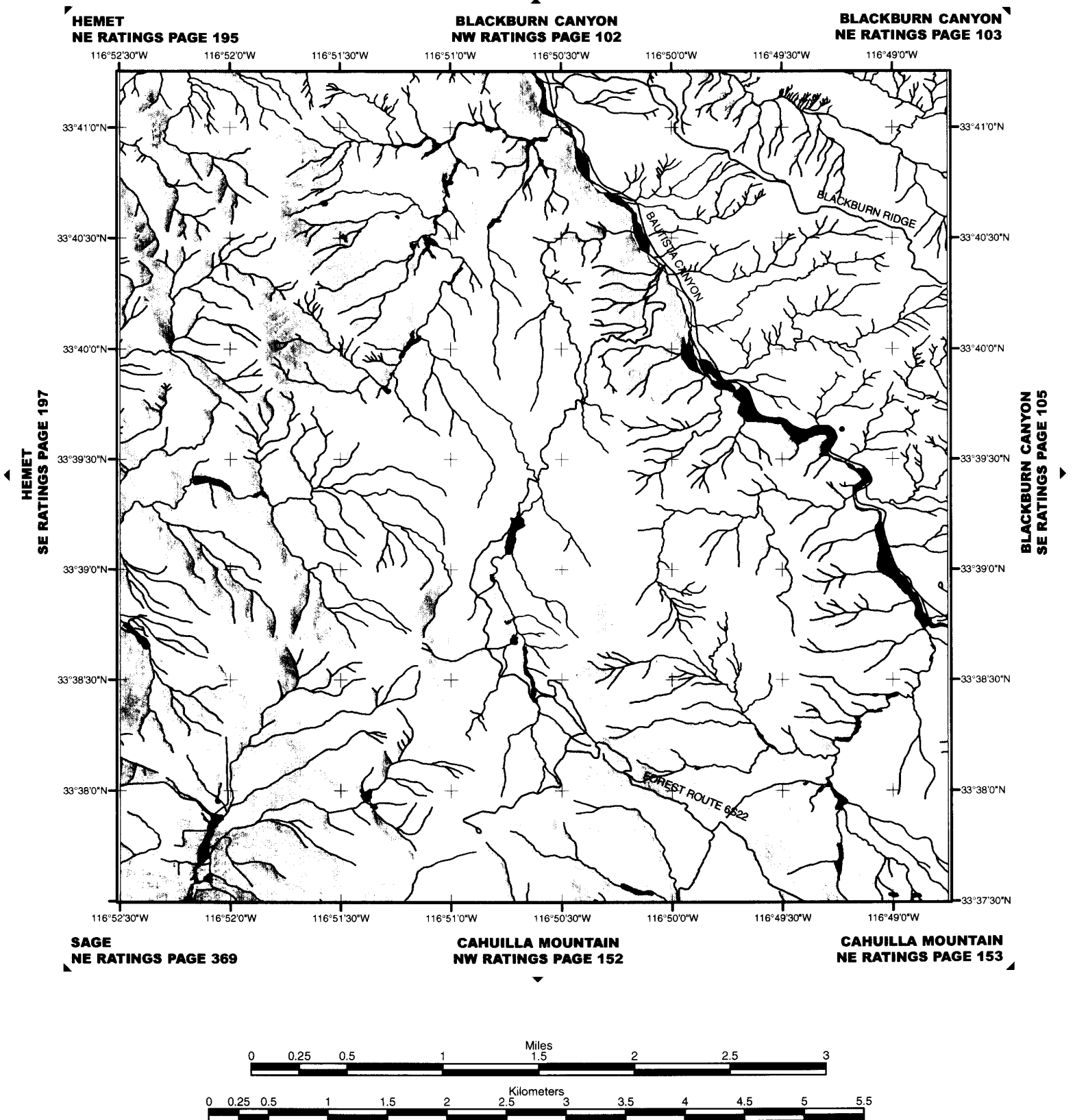
Blackburn Canyon North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



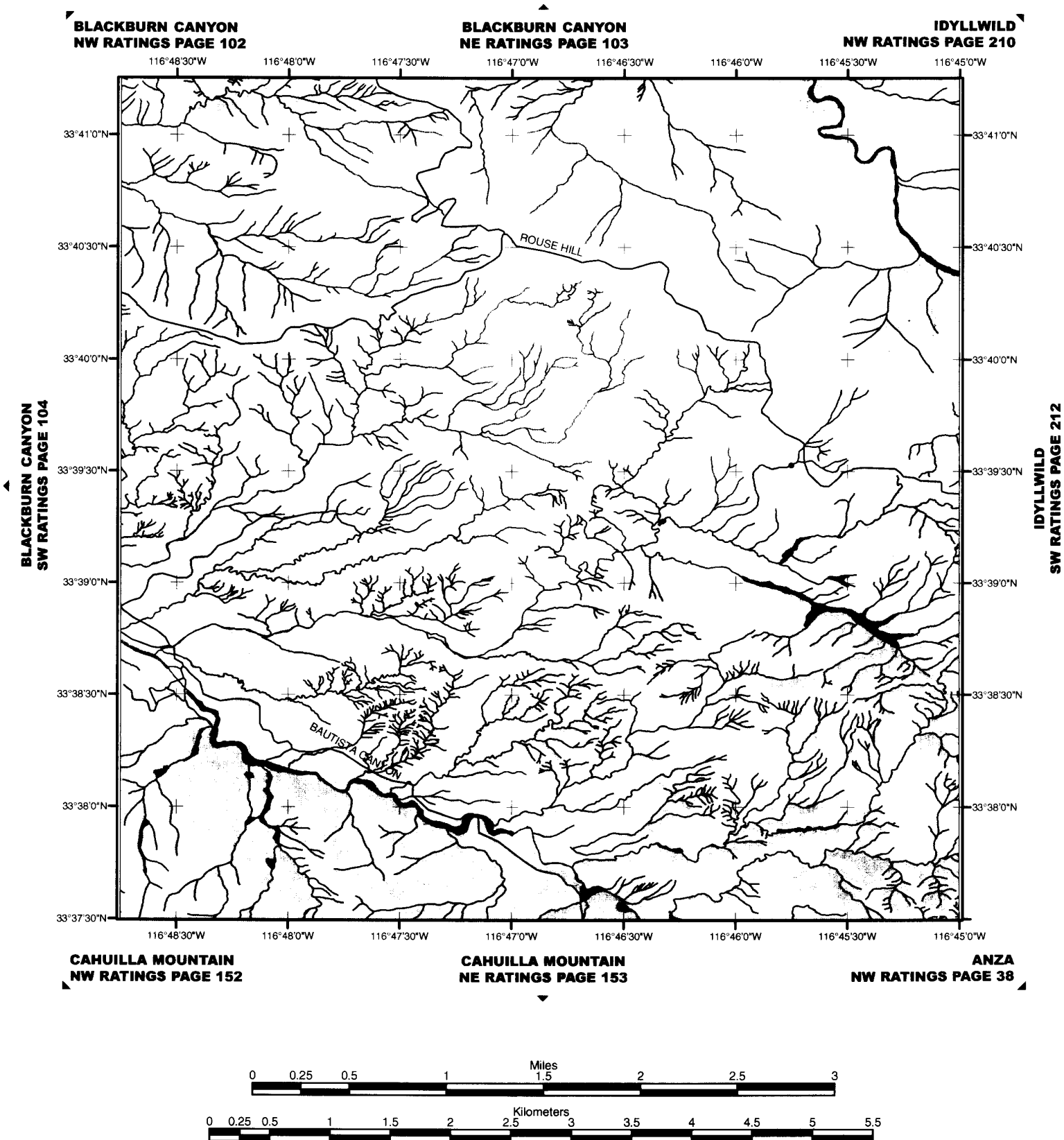
Blackburn Canyon North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



Blackburn Canyon South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

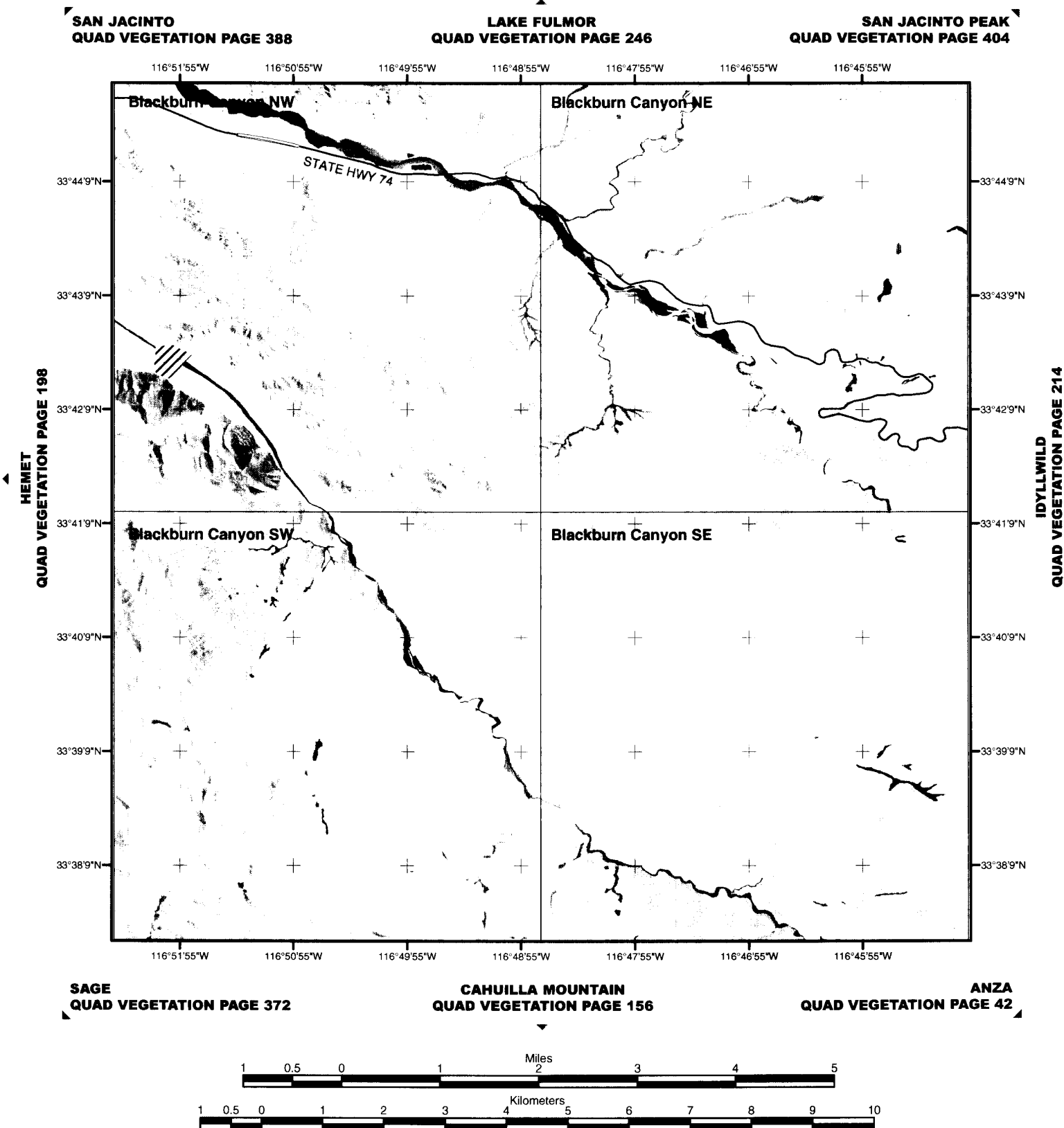


Blackburn Canyon South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

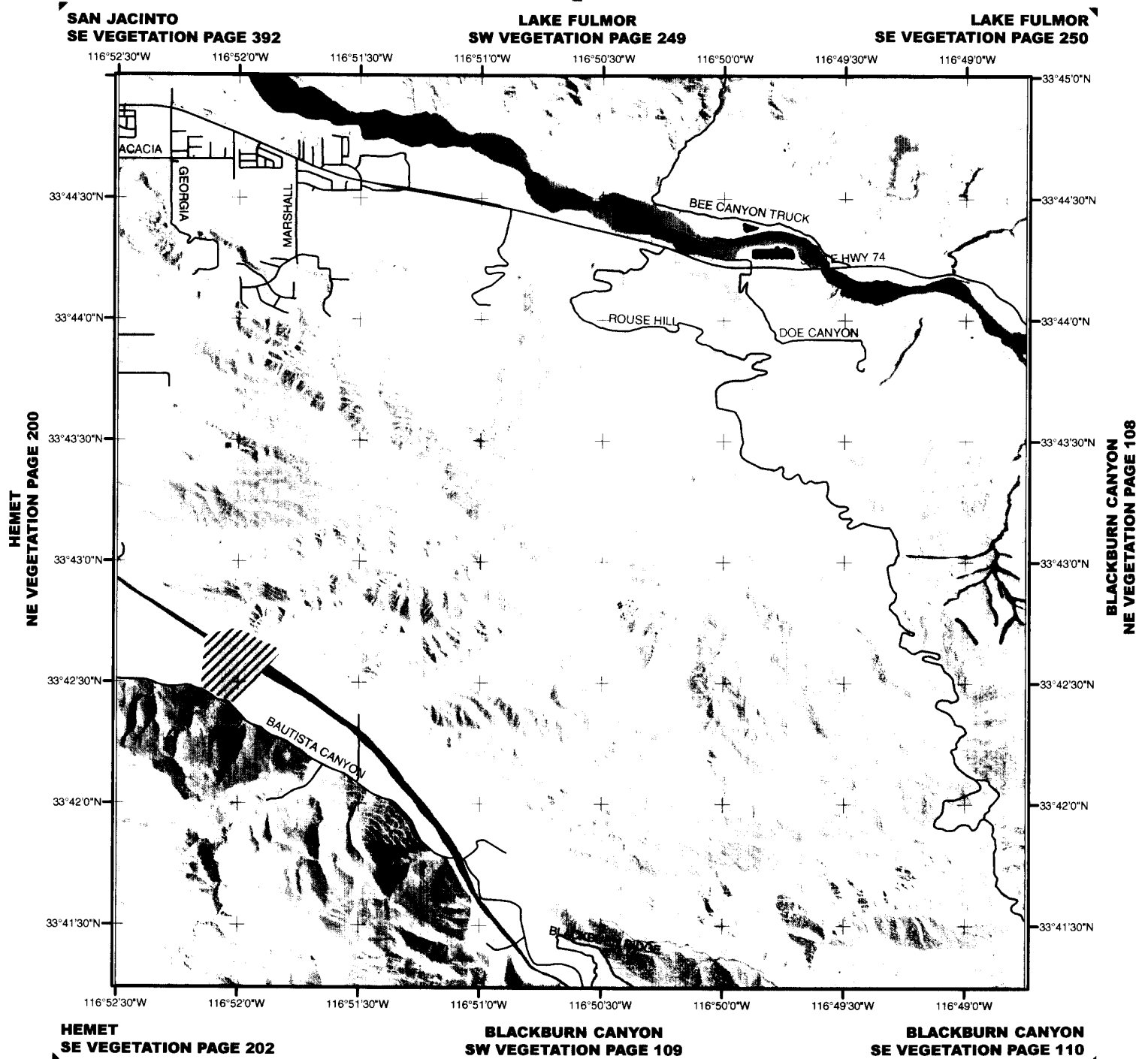


Blackburn Canyon Quadrangle

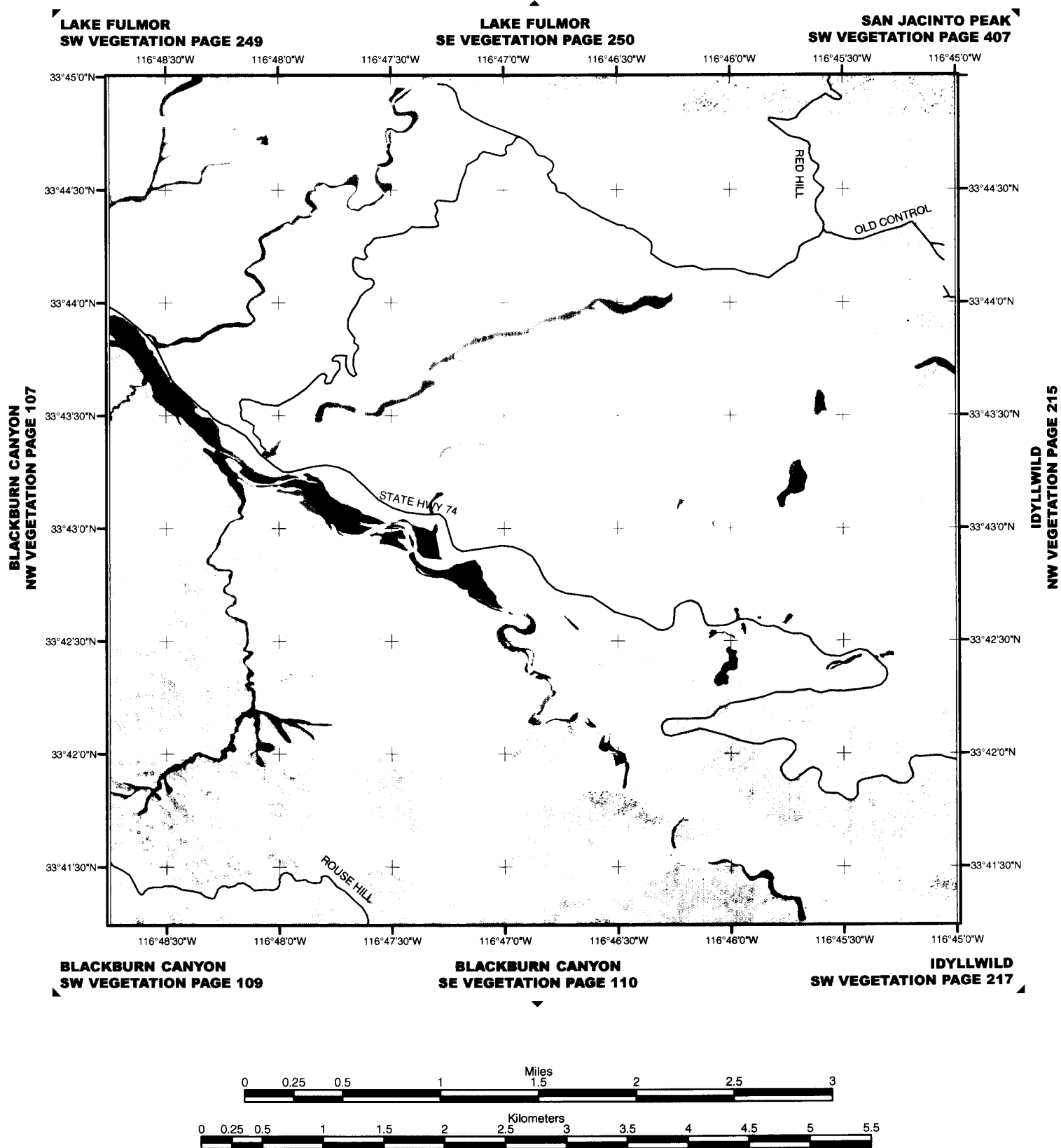
Vegetation Species Association Units for Aquatic Resources



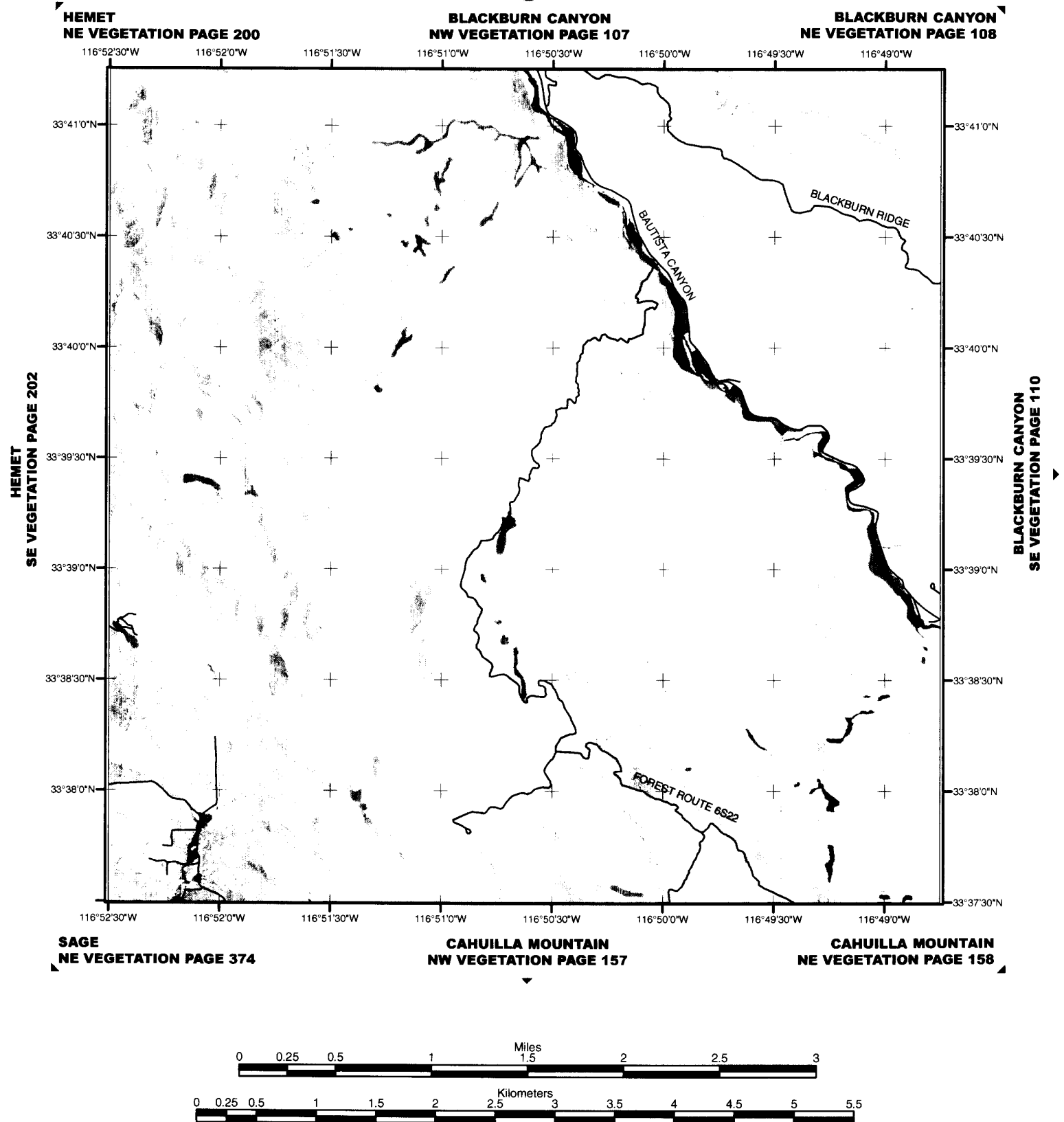
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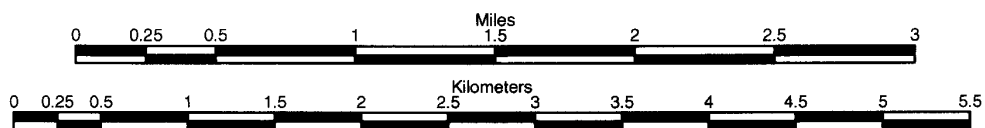
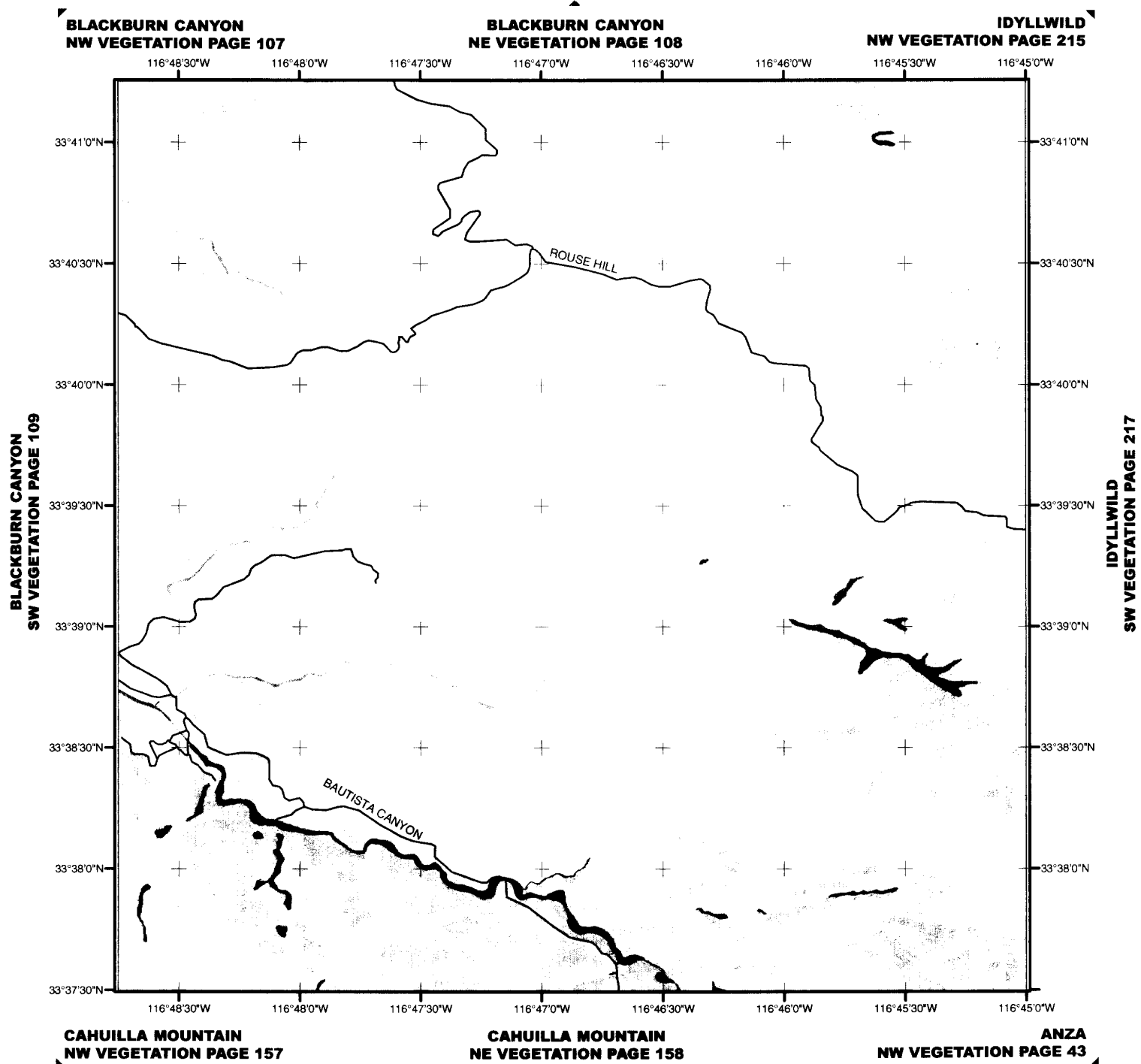
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Blackburn Canyon South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



Blackburn Canyon South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



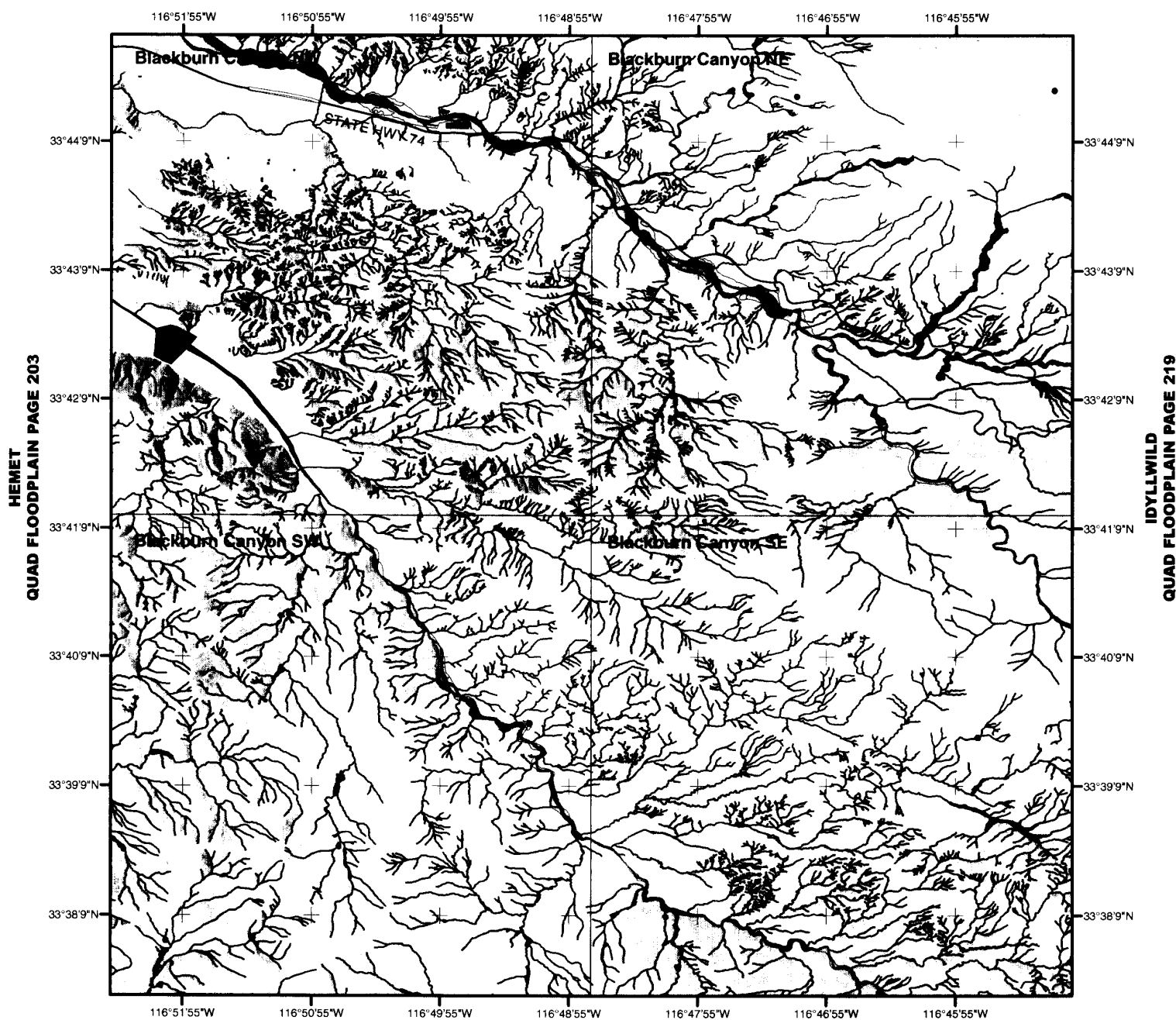
Blackburn Canyon Quadrangle

Hydrogeomorphic Floodplain Units for Aquatic Resources

SAN JACINTO
QUAD FLOODPLAIN PAGE 393

LAKE FULMOR
QUAD FLOODPLAIN PAGE 251

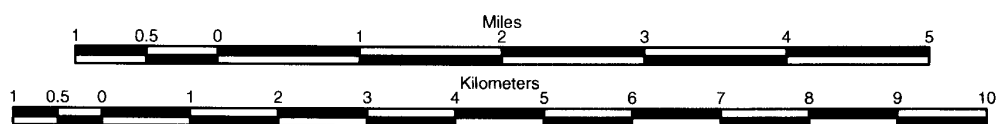
SAN JACINTO PEAK
QUAD FLOODPLAIN PAGE 409



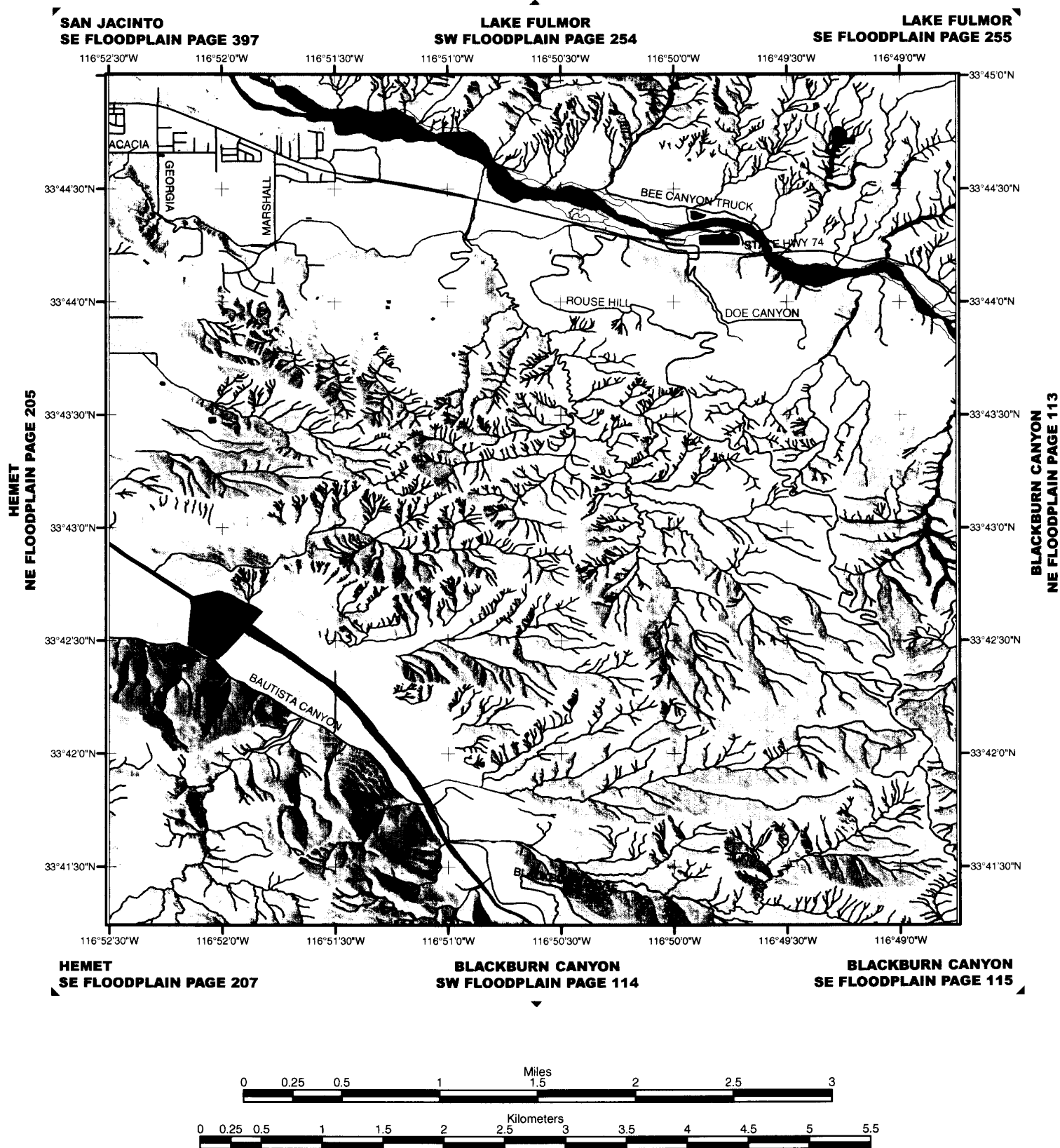
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QUAD FLOODPLAIN PAGE 377

CAHUILLA MOUNTAIN
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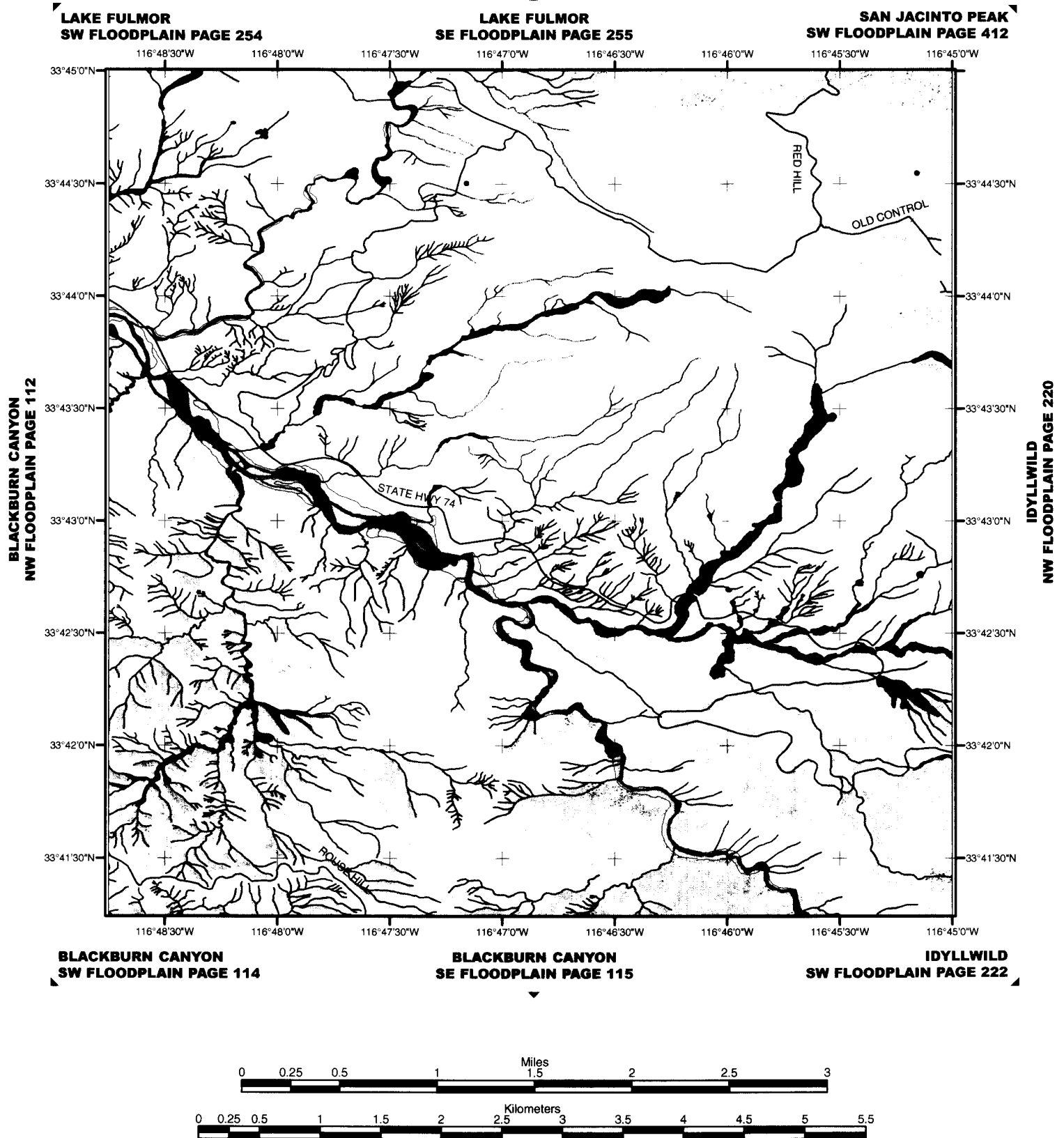
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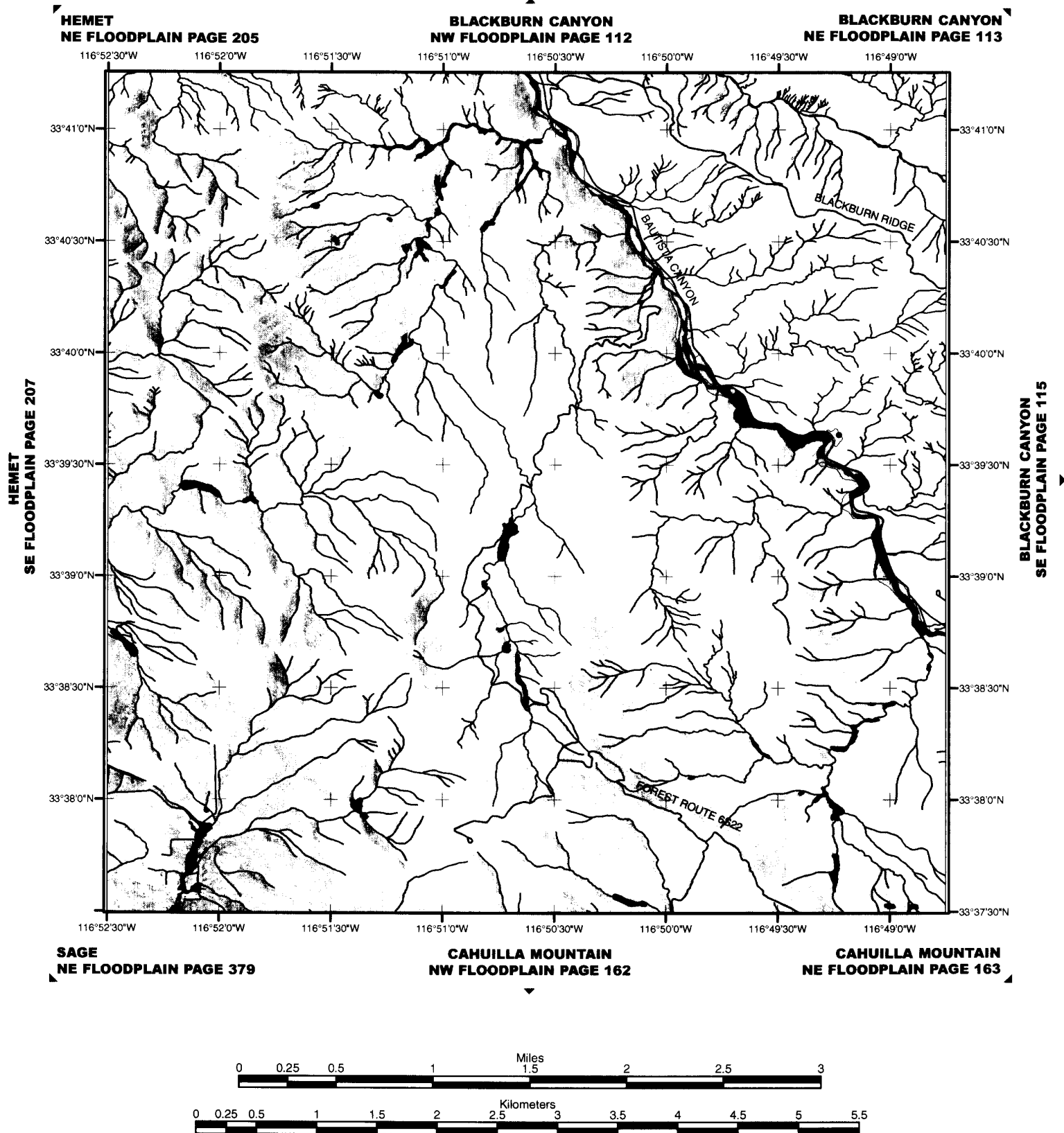
Blackburn Canyon North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



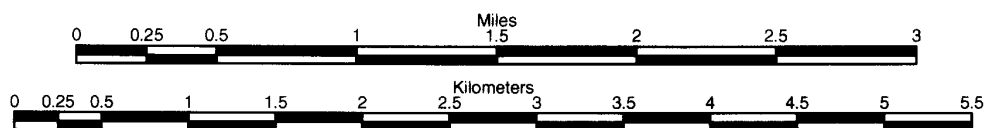
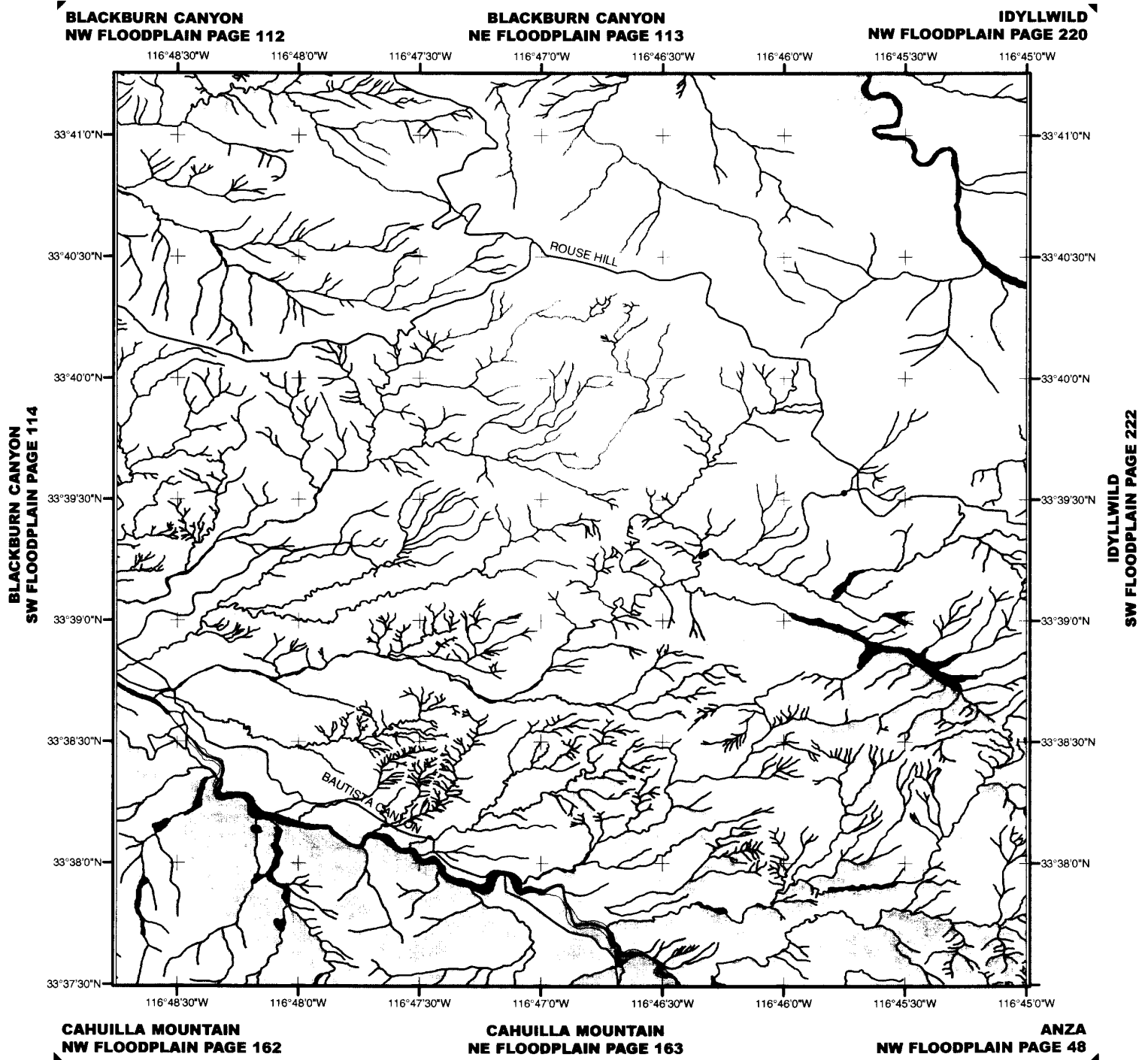
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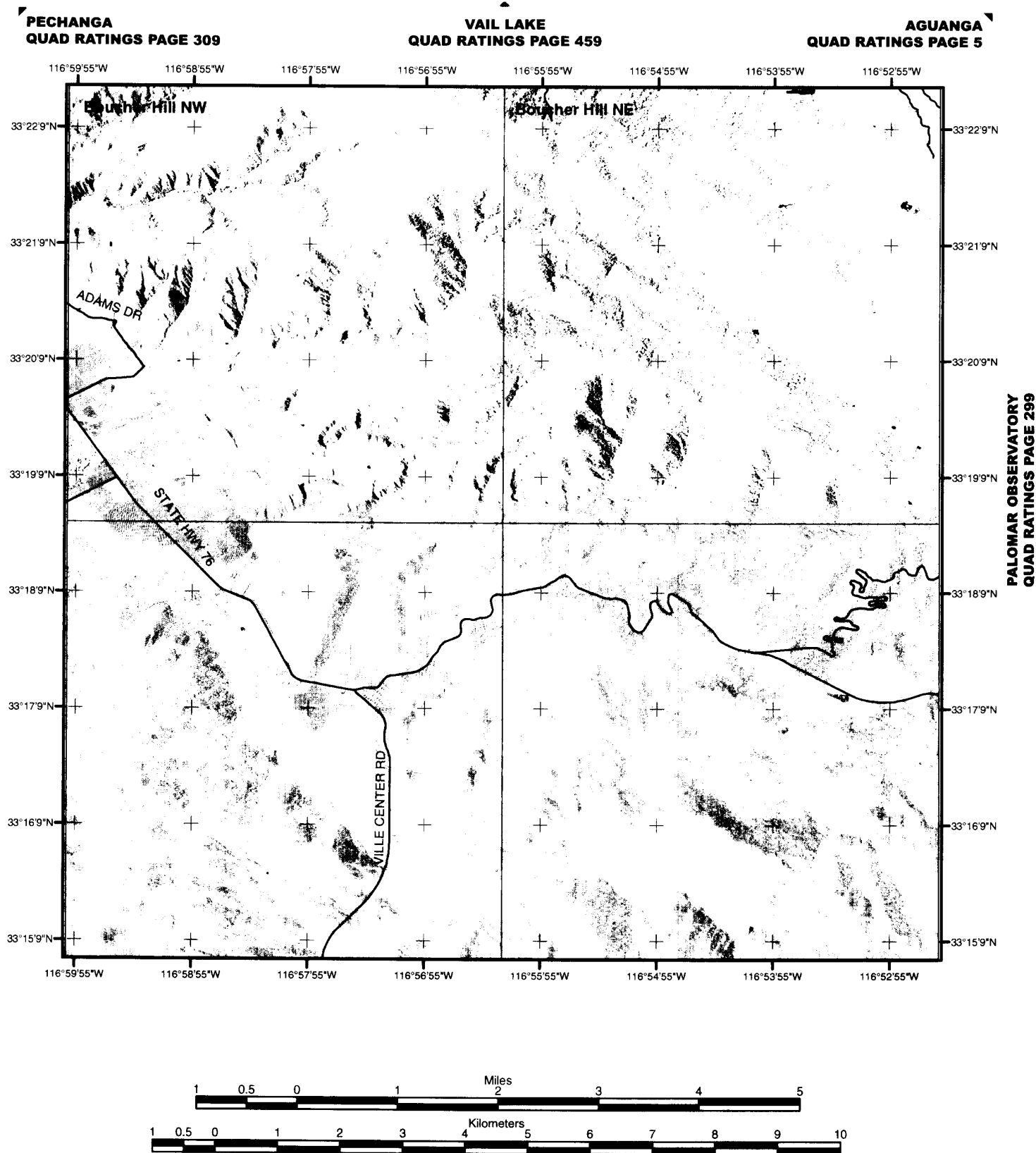
Blackburn Canyon South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



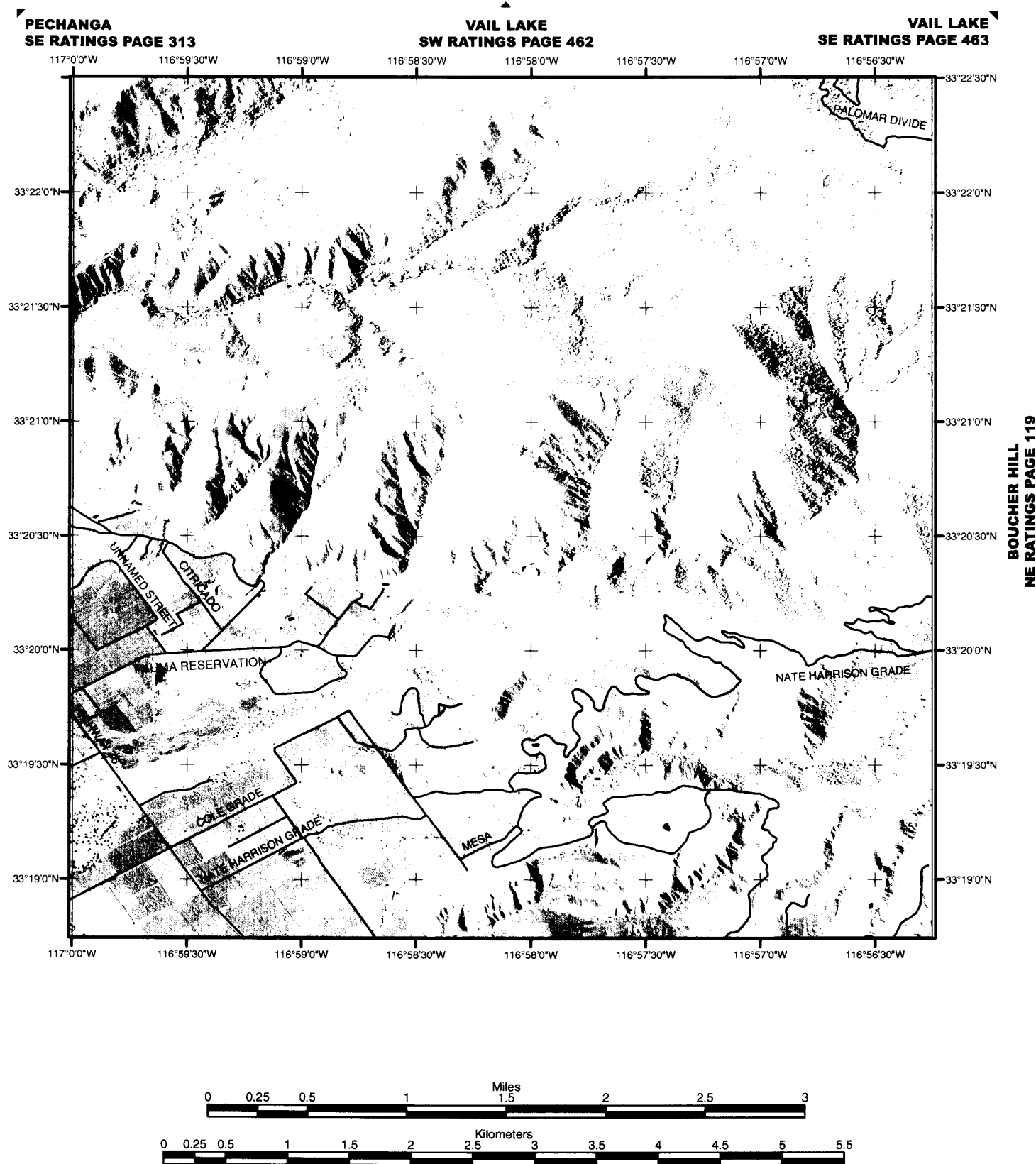
Blackburn Canyon South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



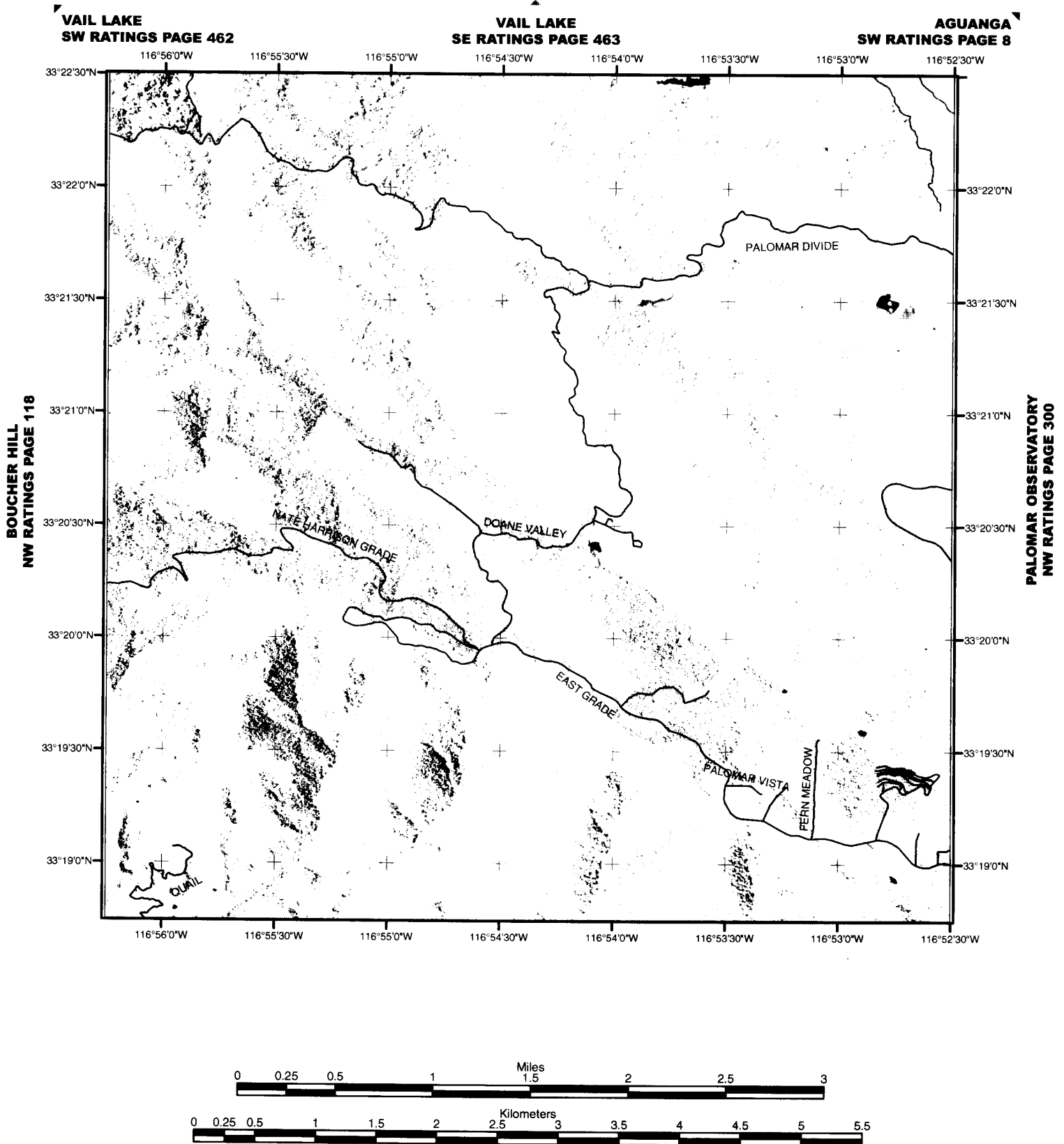
Boucher Hill Quadrangle Regulatory Probability Ratings for Aquatic Resources



Boucher Hill North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

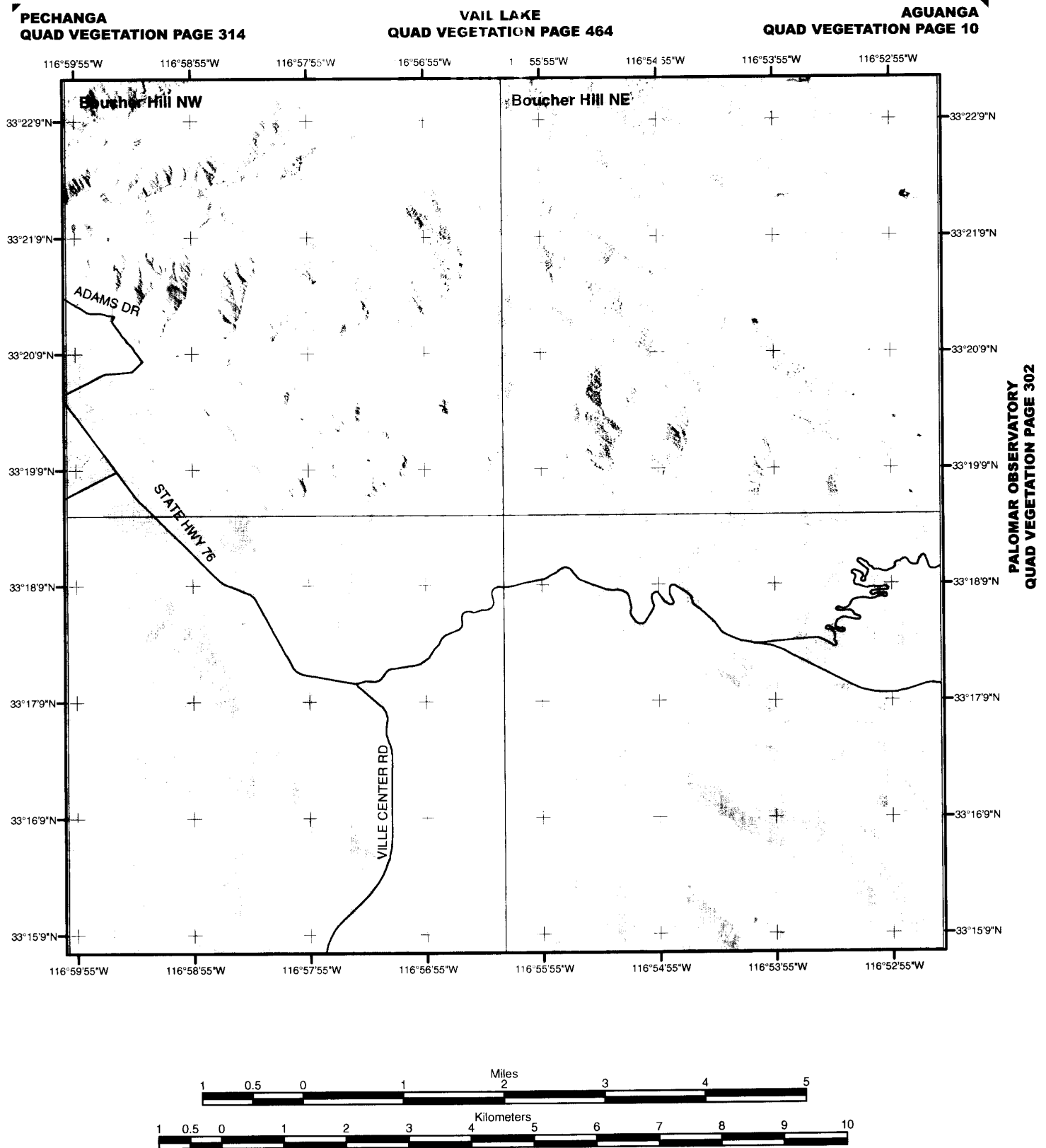


Boucher Hill North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

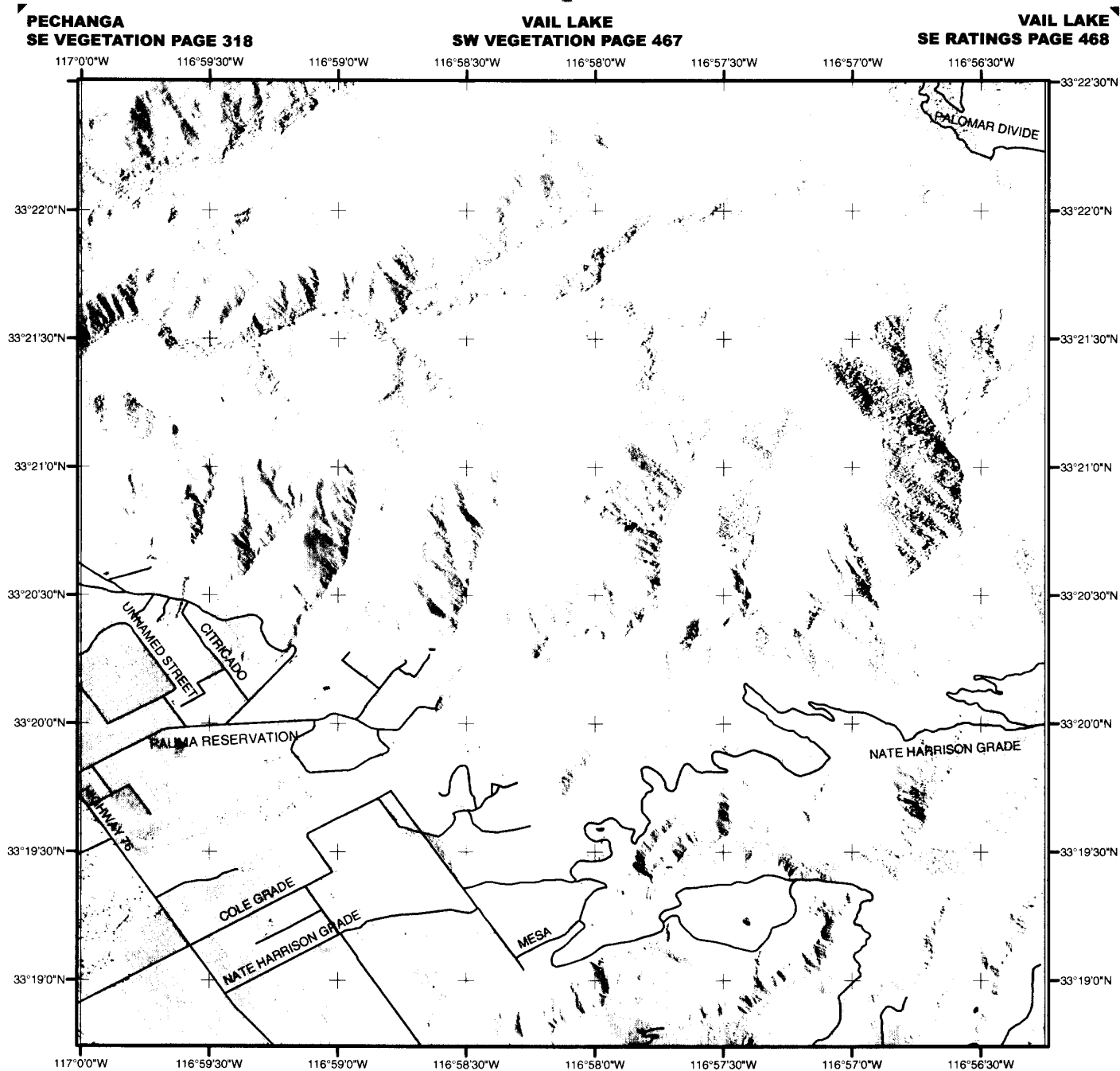


Boucher Hill Quadrangle

Vegetation Species Association Units for Aquatic Resources

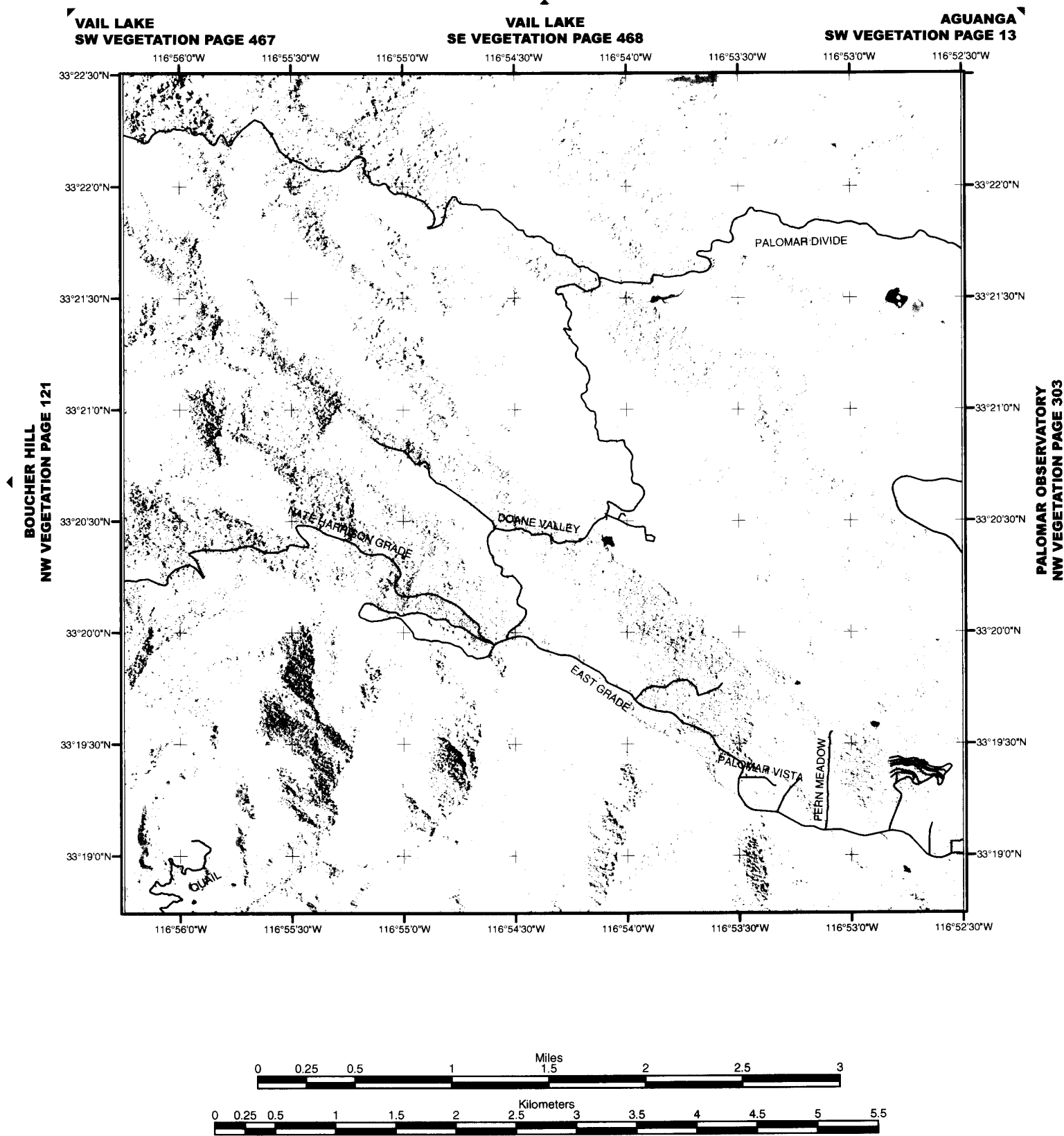


Boucher Hill North West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



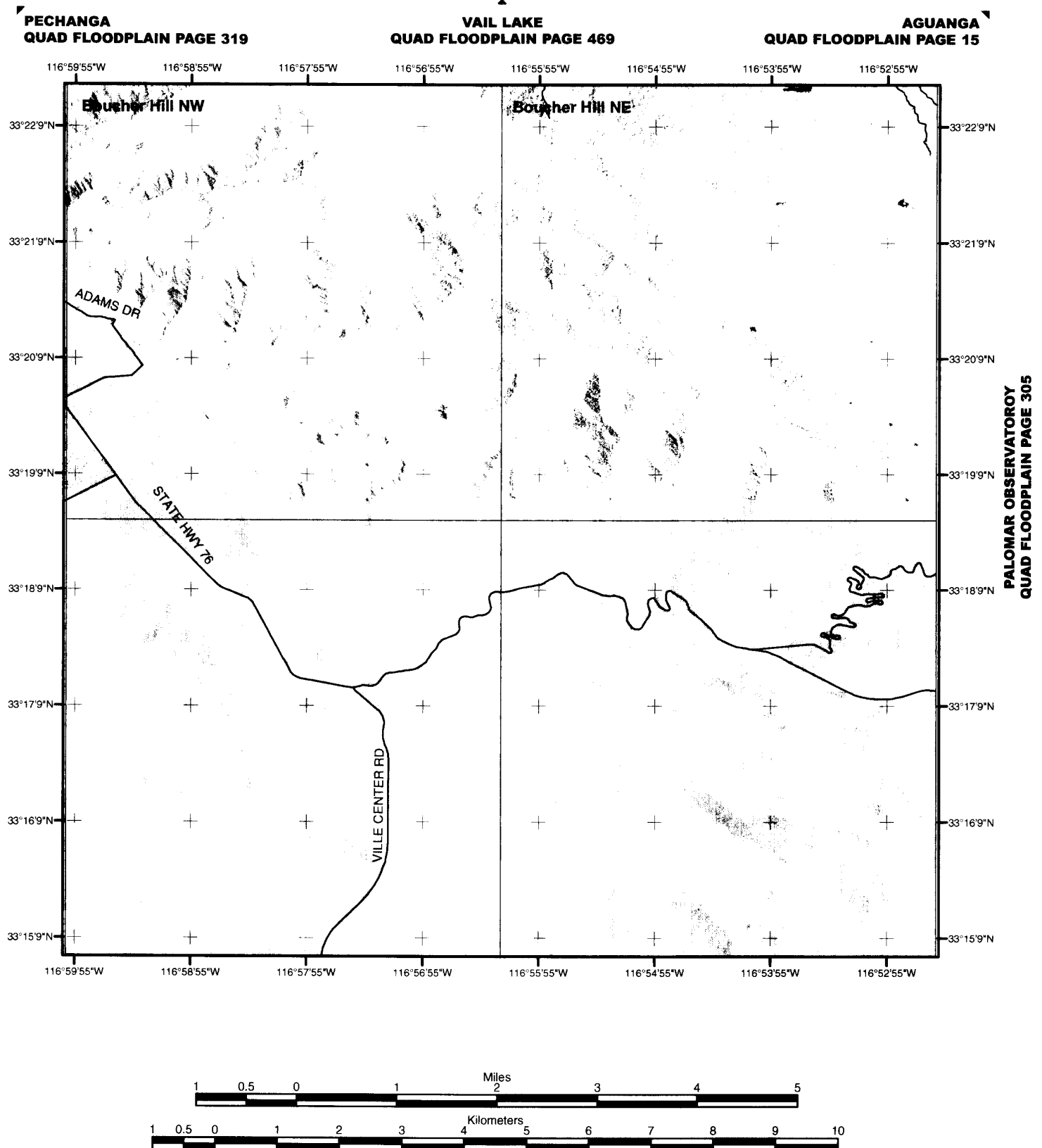
BOUCHER HILL
NE VEGETATION PAGE 122

Boucher Hill North East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

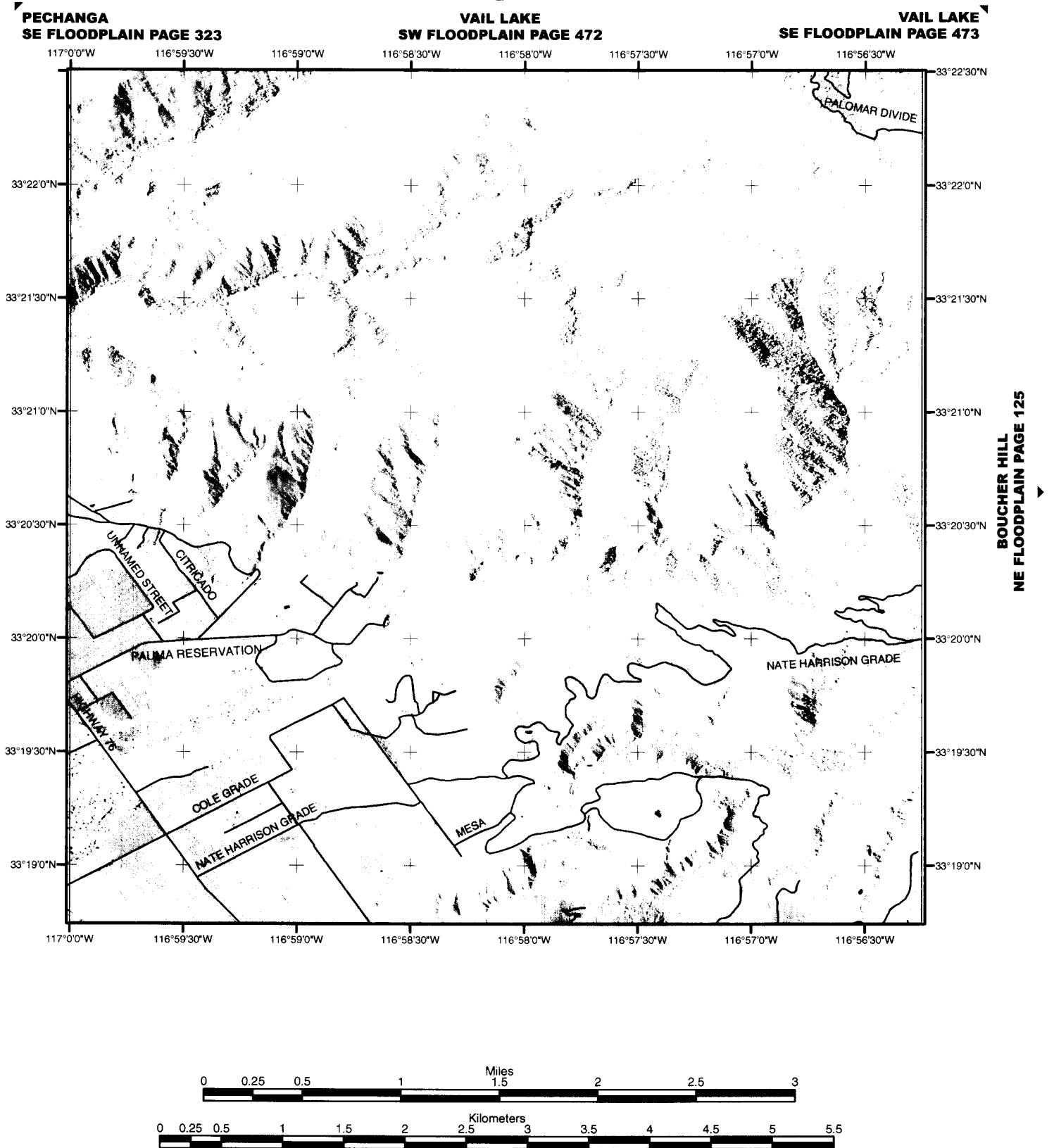


Boucher Hill Quadrangle

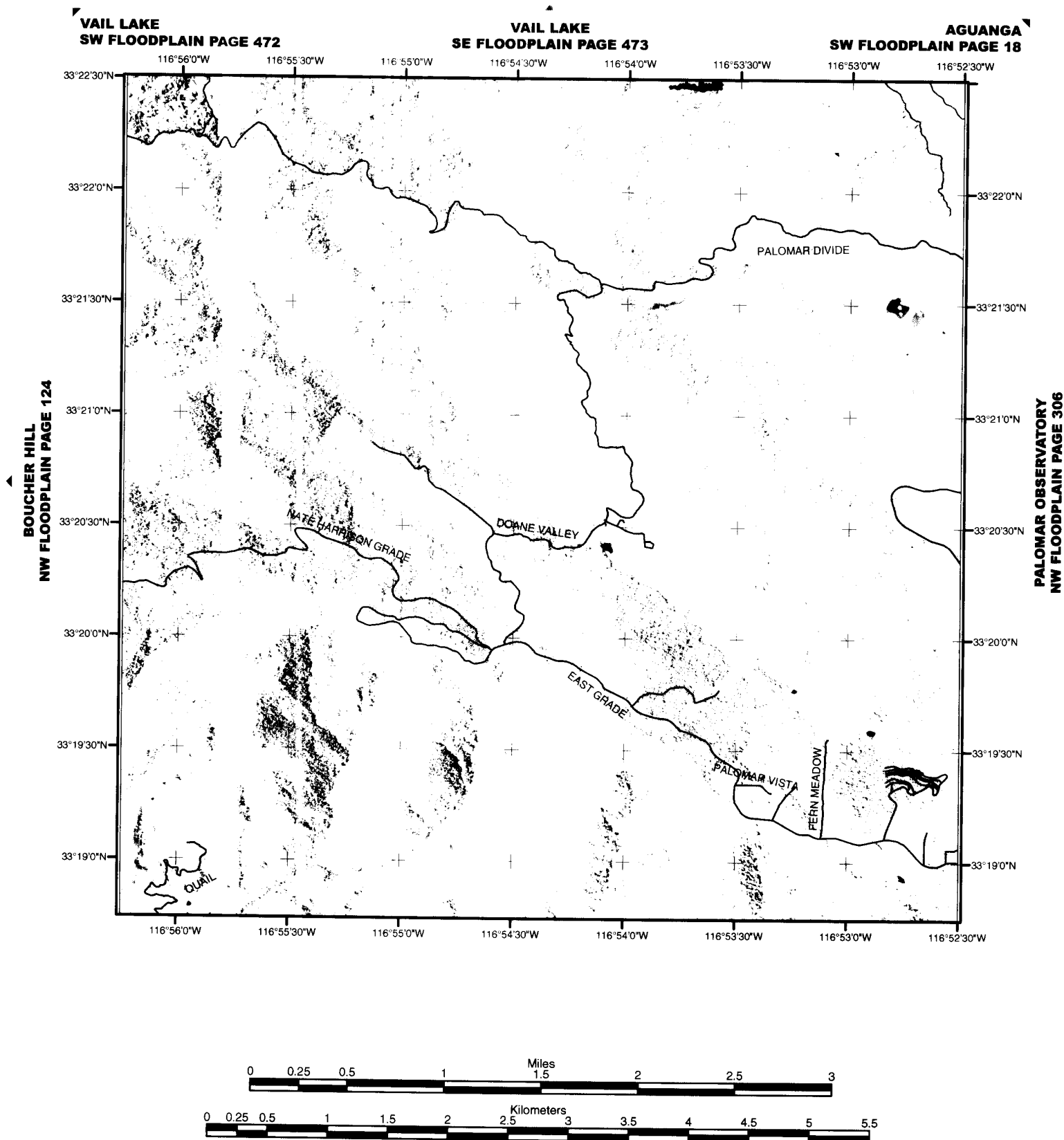
Hydrogeomorphic Floodplain Units for Aquatic Resources



Boucher Hill North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



Boucher Hill North East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

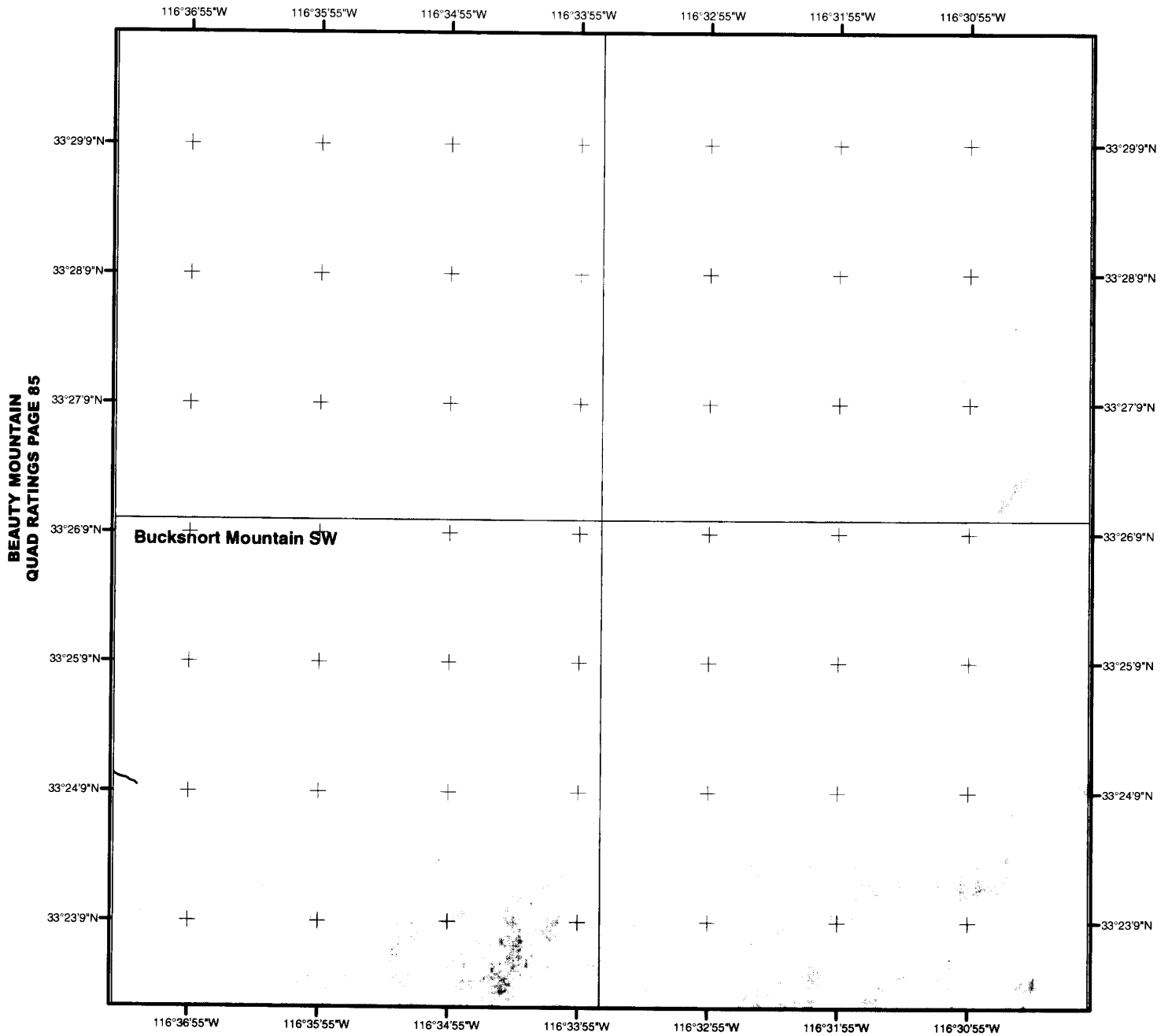


Bucksnort Mountain Quadrangle

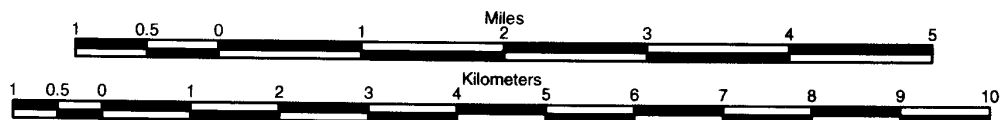
Regulatory Probability Ratings for Aquatic Resources

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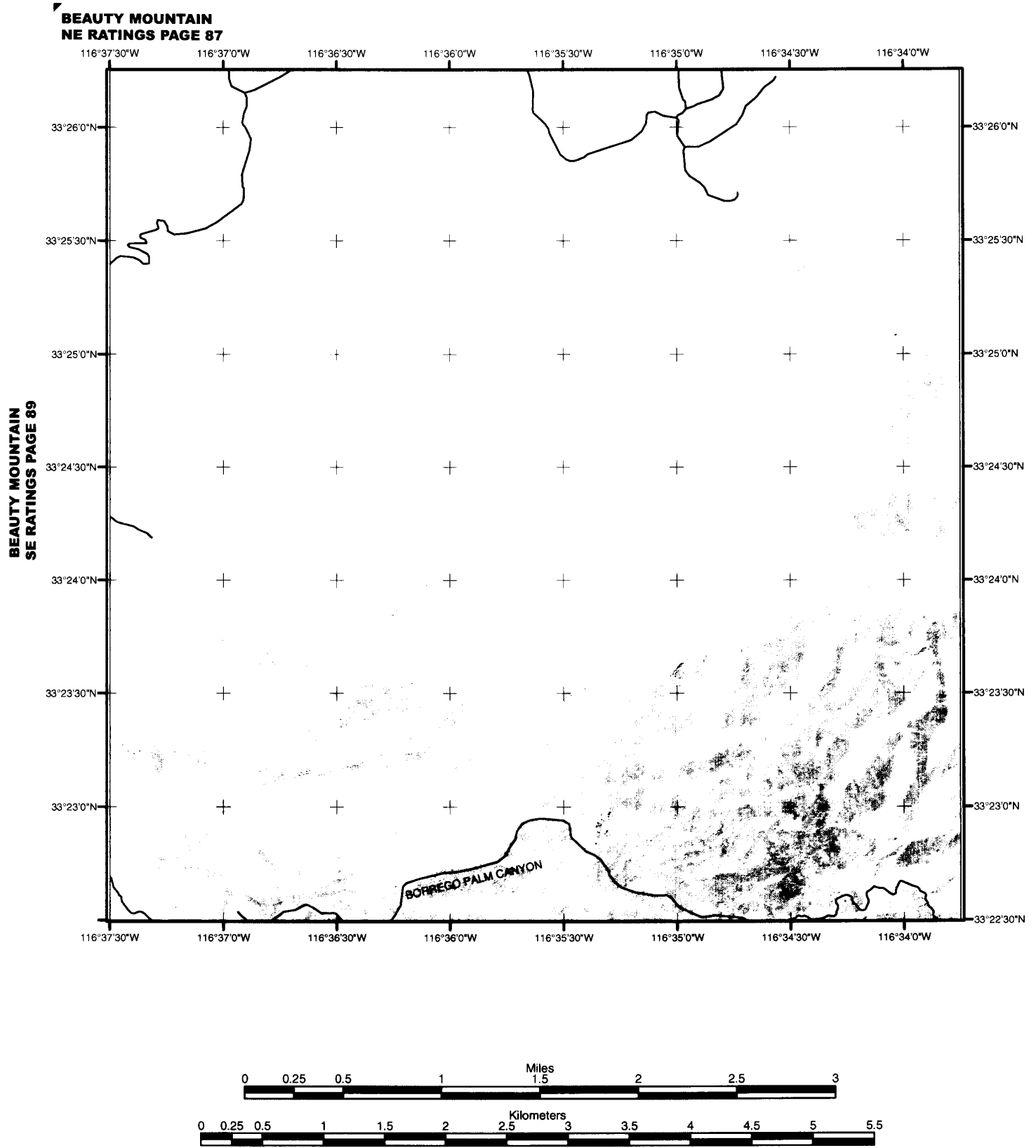
BUTTERFLY PEAK
QUAD RATINGS PAGE 133



WARNER SPRINGS
QUAD RATINGS PAGE 475

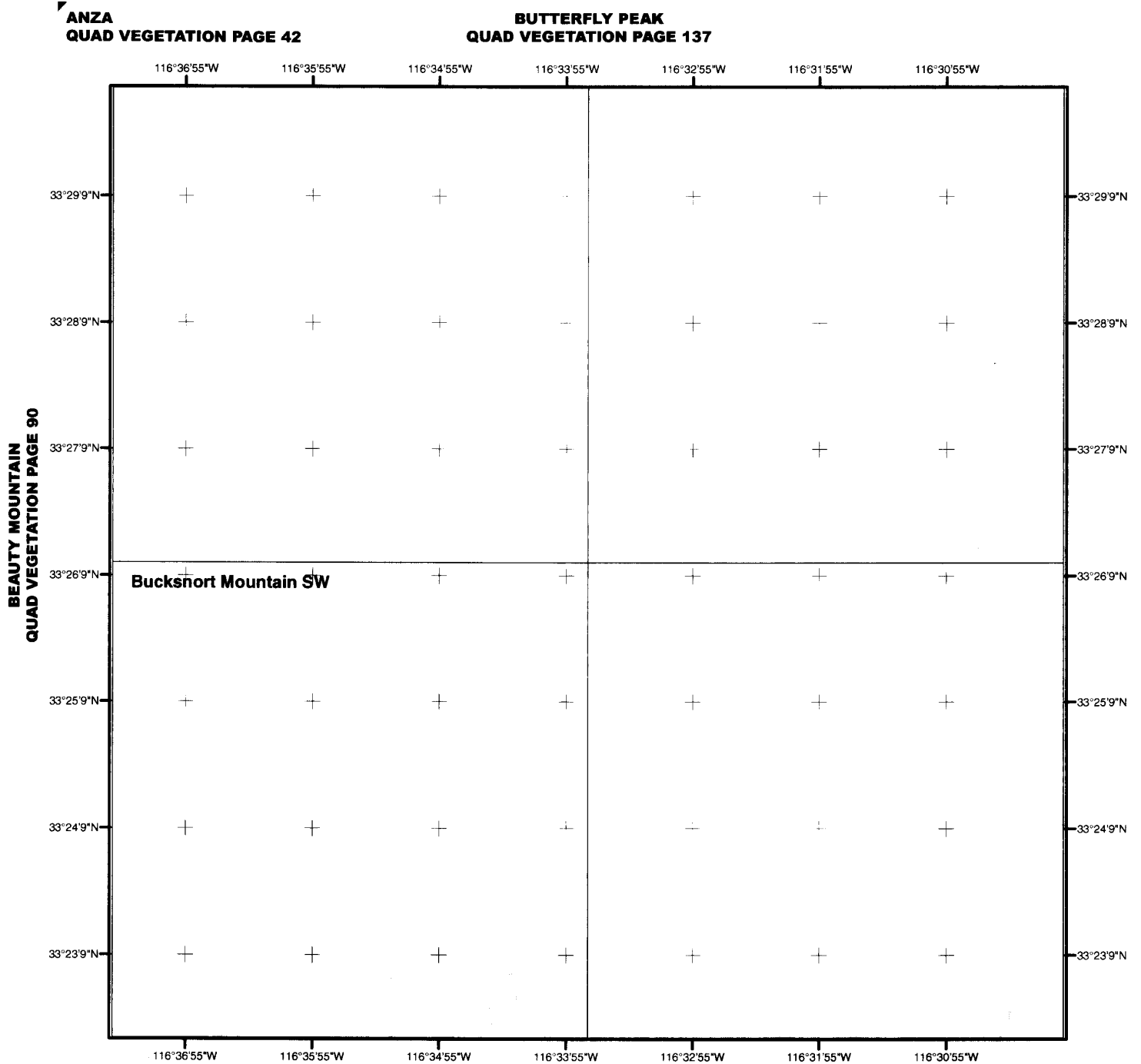


Bucksnort Mountain South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

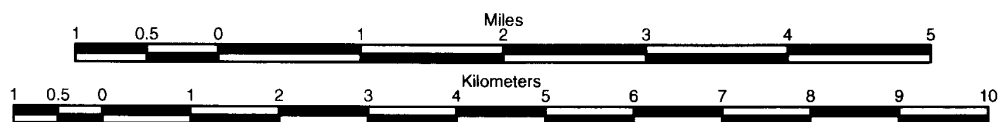


Bucksnort Mountain Quadrangle

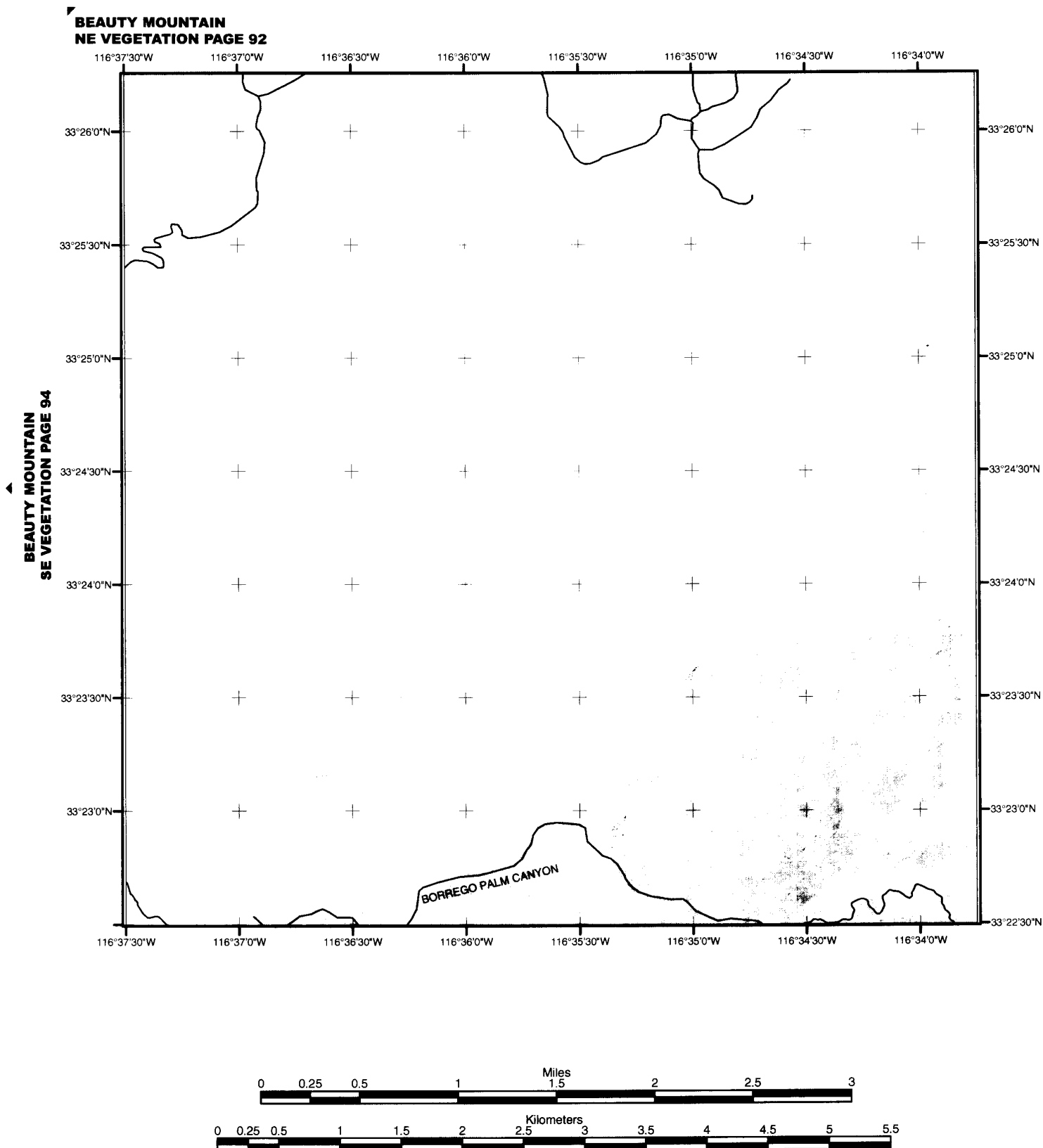
Vegetation Species Association Units for Aquatic Resources



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Bucksnort Mountain South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



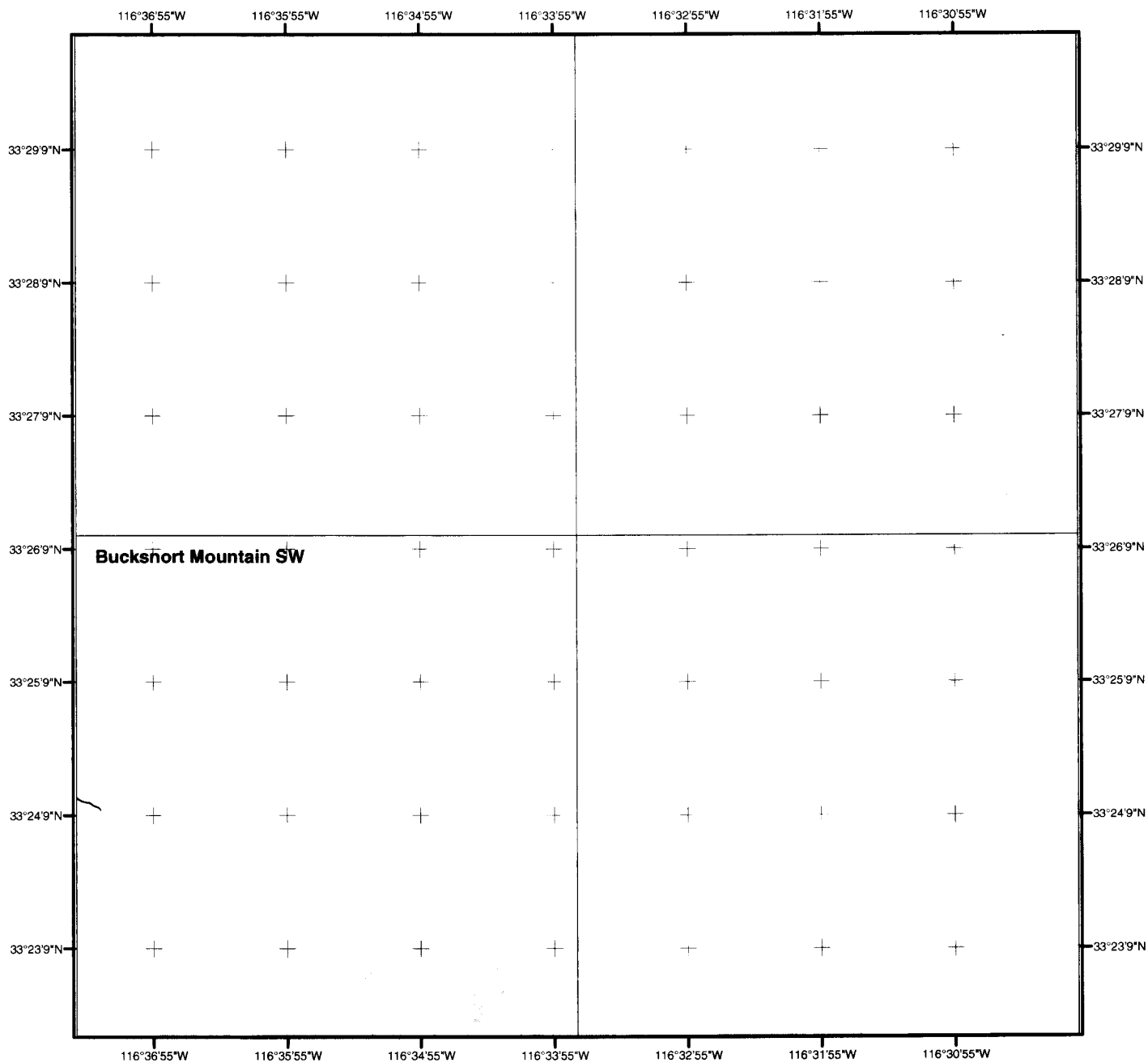
Bucksnort Mountain Quadrangle

Hydrogeomorphic Floodplain Units for Aquatic Resources

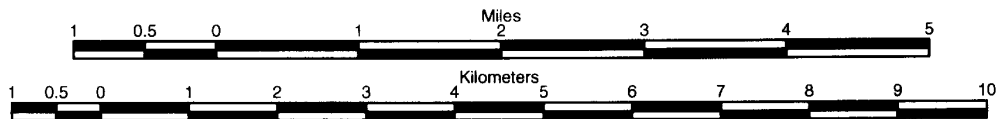
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QUAD FLOODPLAIN PAGE 47

BUTTERFLY PEAK
QUAD RATINGS PAGE 141

BEAUTY MOUNTAIN
QUAD FLOODPLAIN PAGE 95



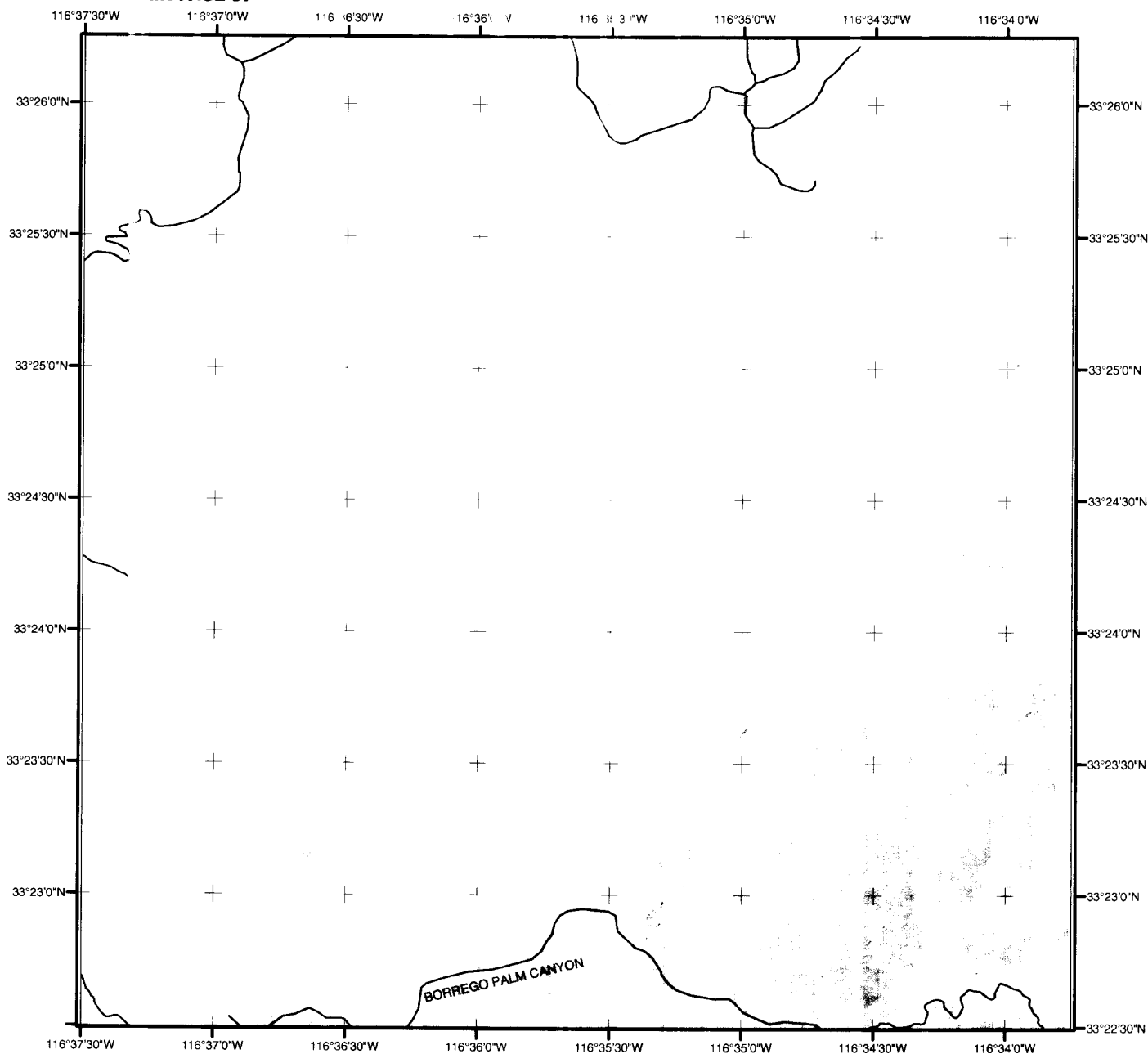
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QUAD FLOODPLAIN PAGE 479



Bucksnot Mountain South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

BEAUTY MOUNTAIN
NE FLOODPLAIN PAGE 97

BEAUTY MOUNTAIN
SE FLOODPLAIN PAGE 99

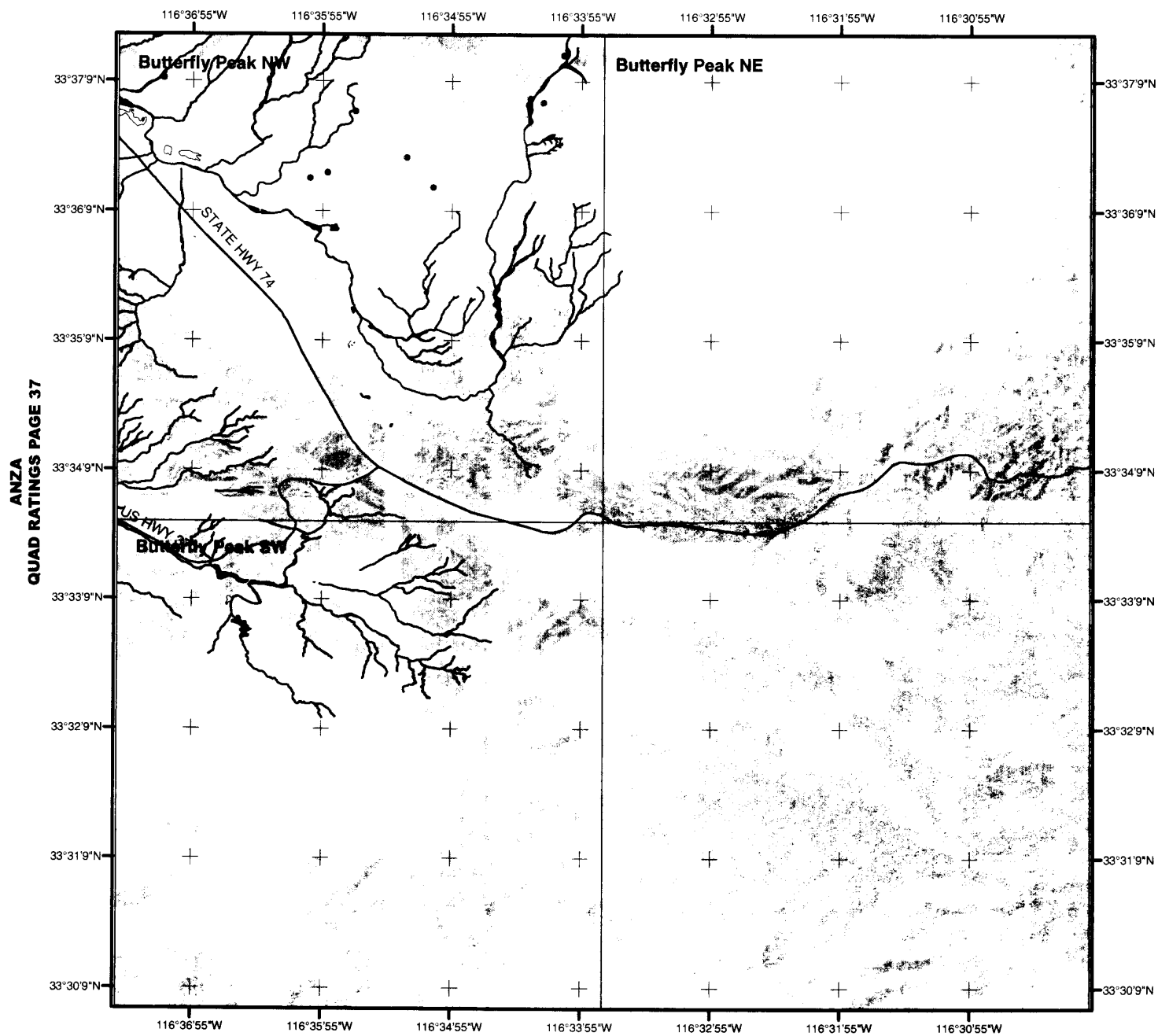


Butterfly Peak Quadrangle

Regulatory Probability Ratings for Aquatic Resources

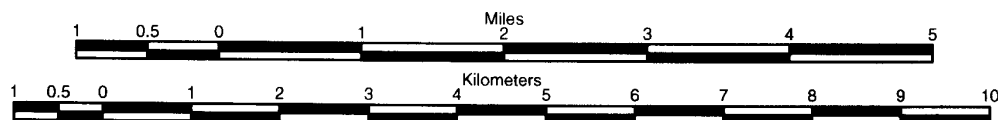
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PALM VIEW PEAK
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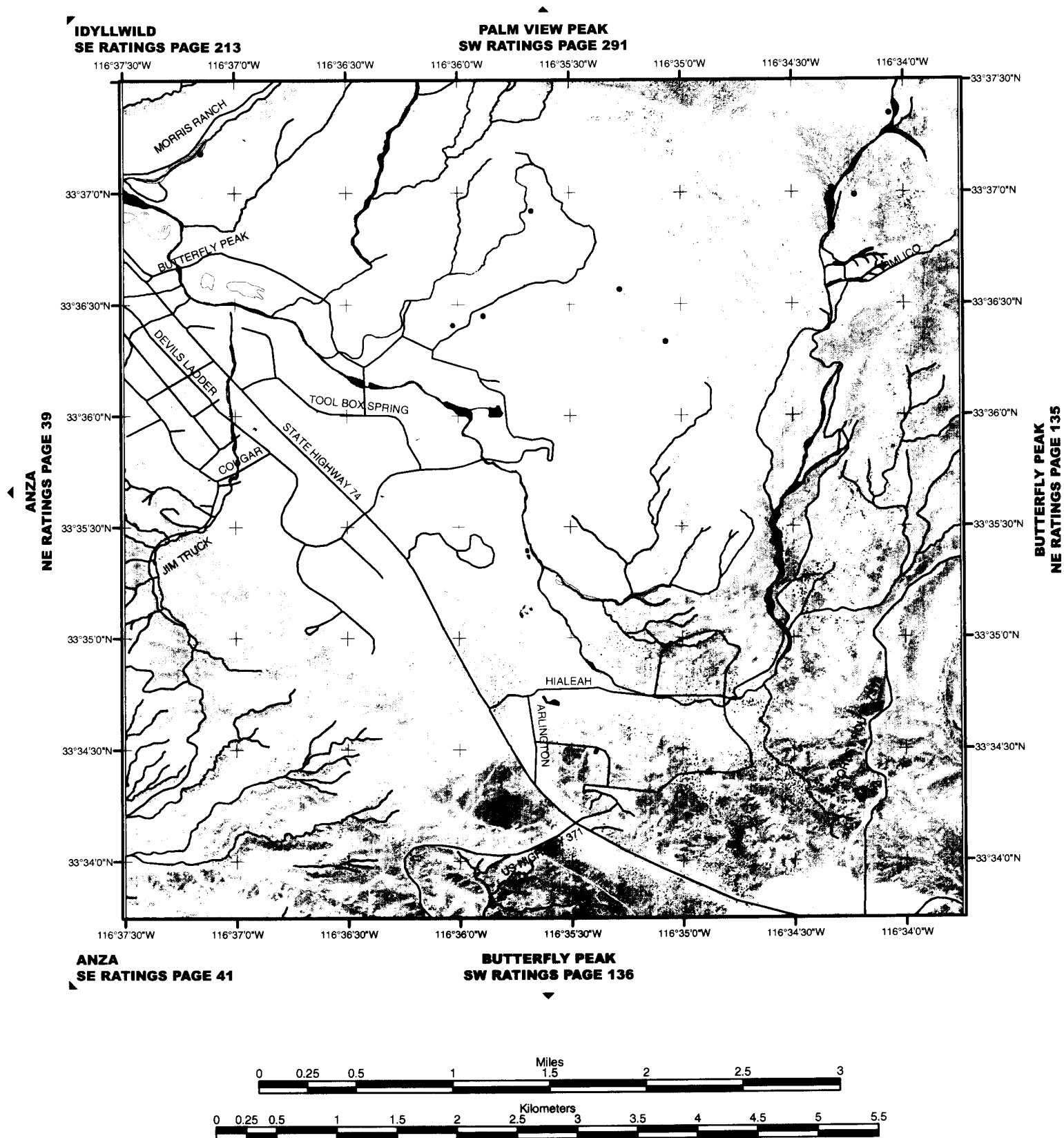


BEAUTY MOUNTAIN
QUAD RATINGS PAGE 85

BUCKSNORT MOUNTAIN
QUAD RATINGS PAGE 127

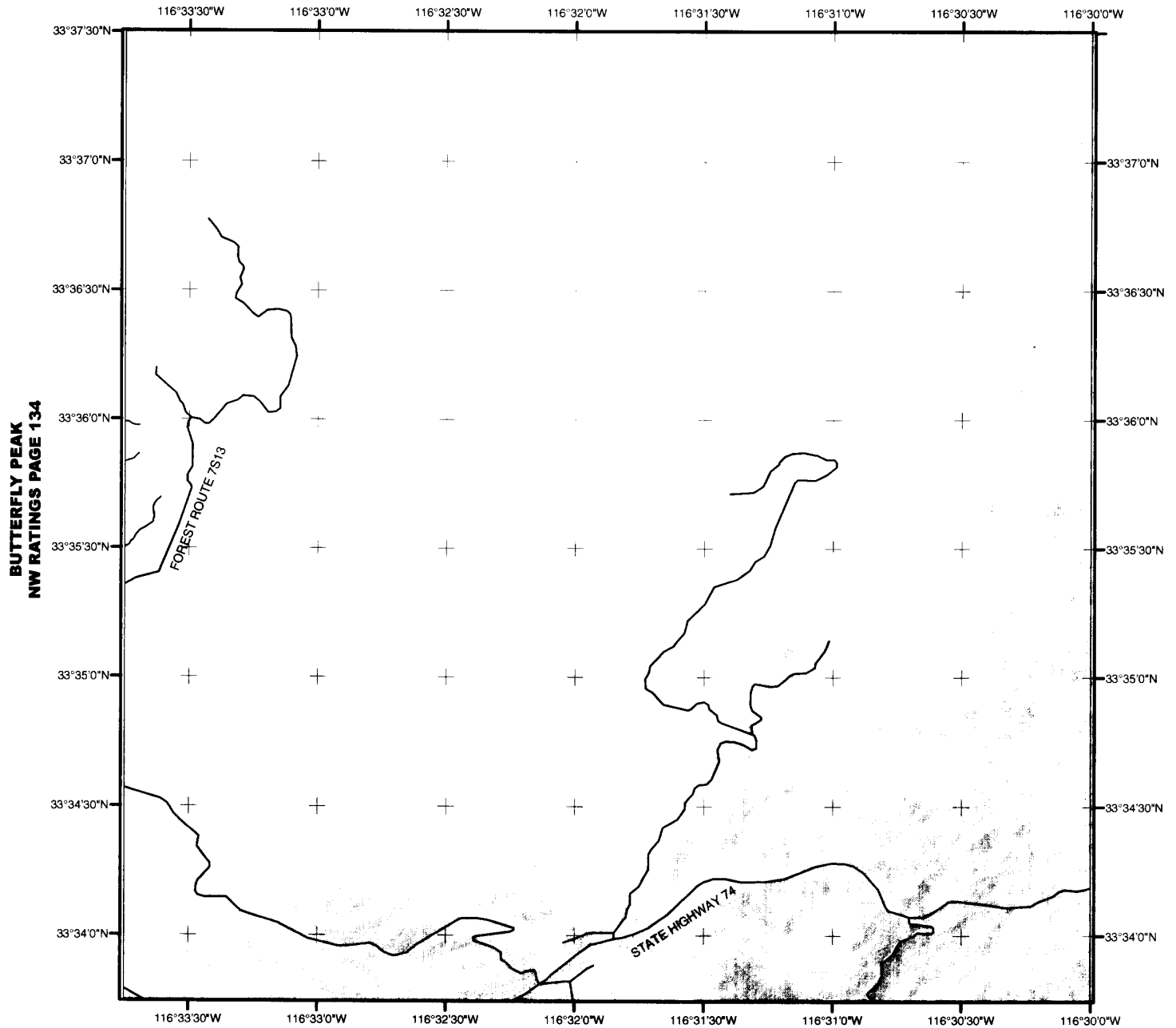


Butterfly Peak North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



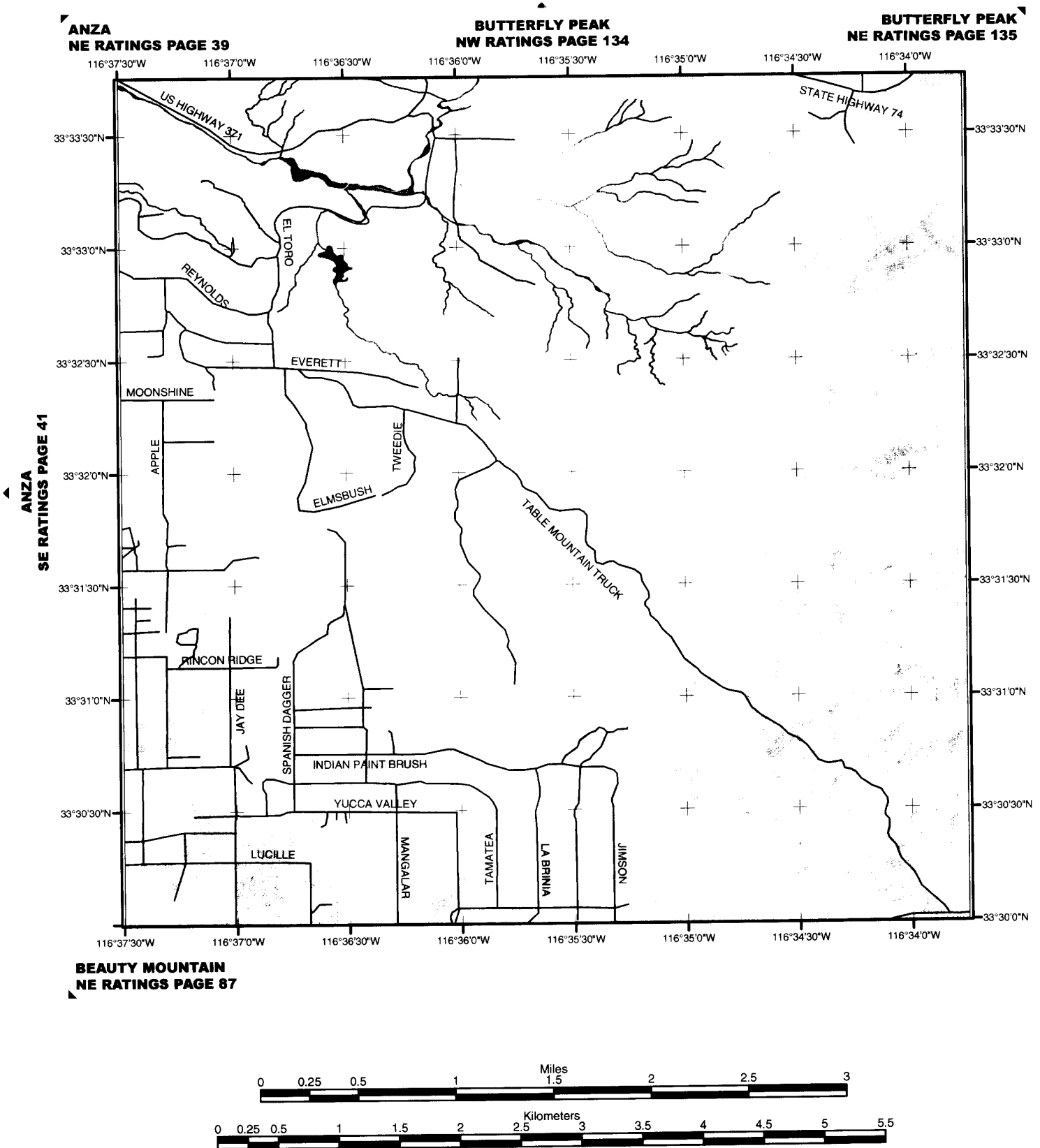
Butterfly Peak North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

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SW RATINGS PAGE 291



BUTTERFLY PEAK
SW RATINGS PAGE 136

Butterfly Peak South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

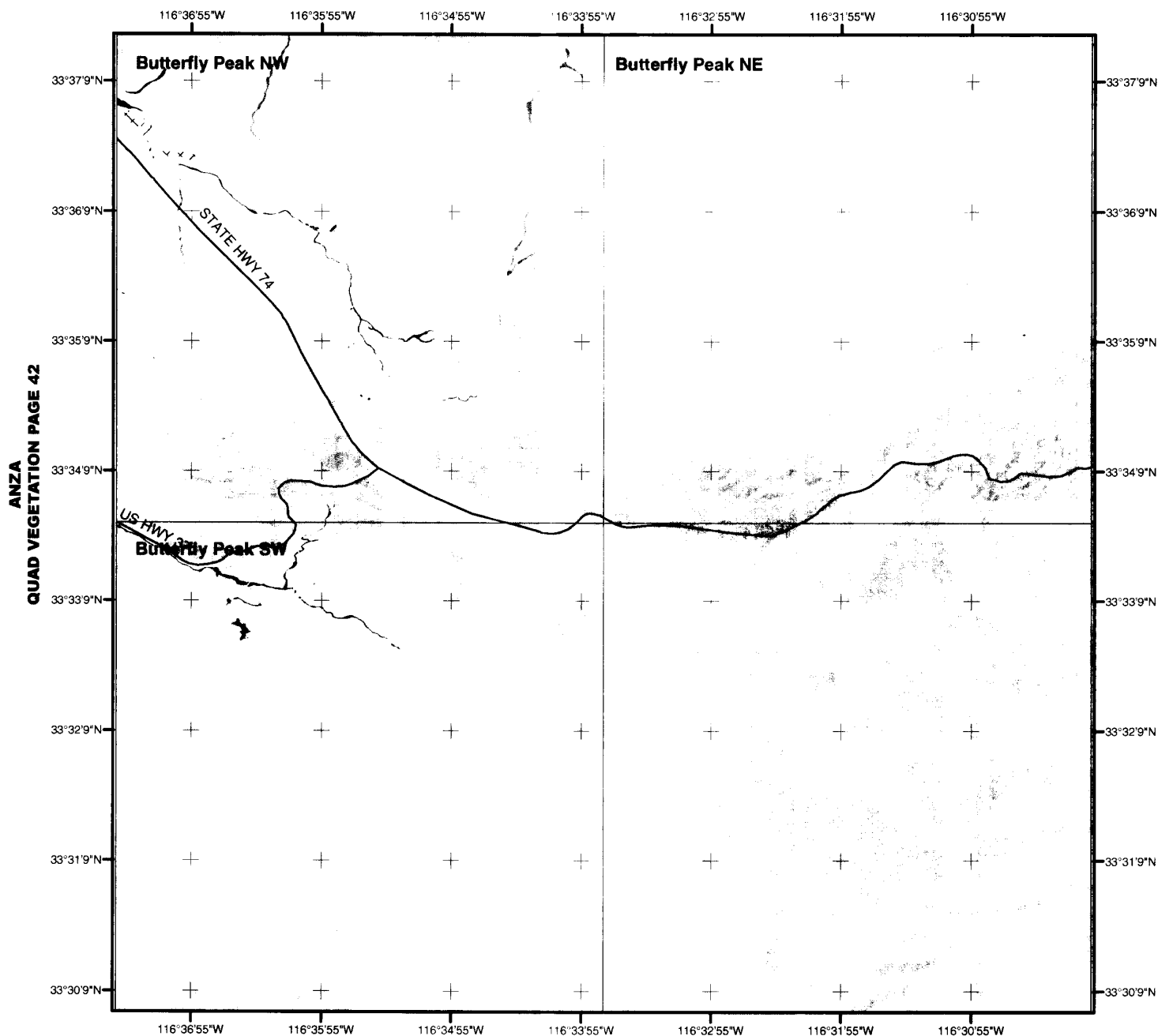


Butterfly Peak Quadrangle

Vegetation Species Association Units for Aquatic Resources

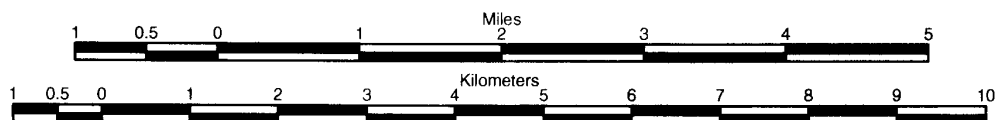
IDYLLWILD
QUAD VEGETATION PAGE 214

PALM VIEW PEAK
QUAD VEGETATION PAGE 292

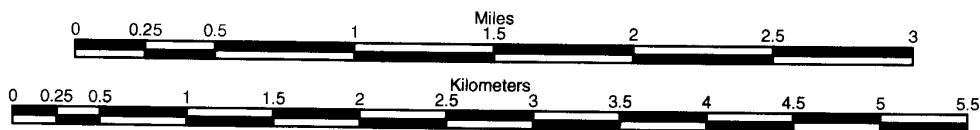
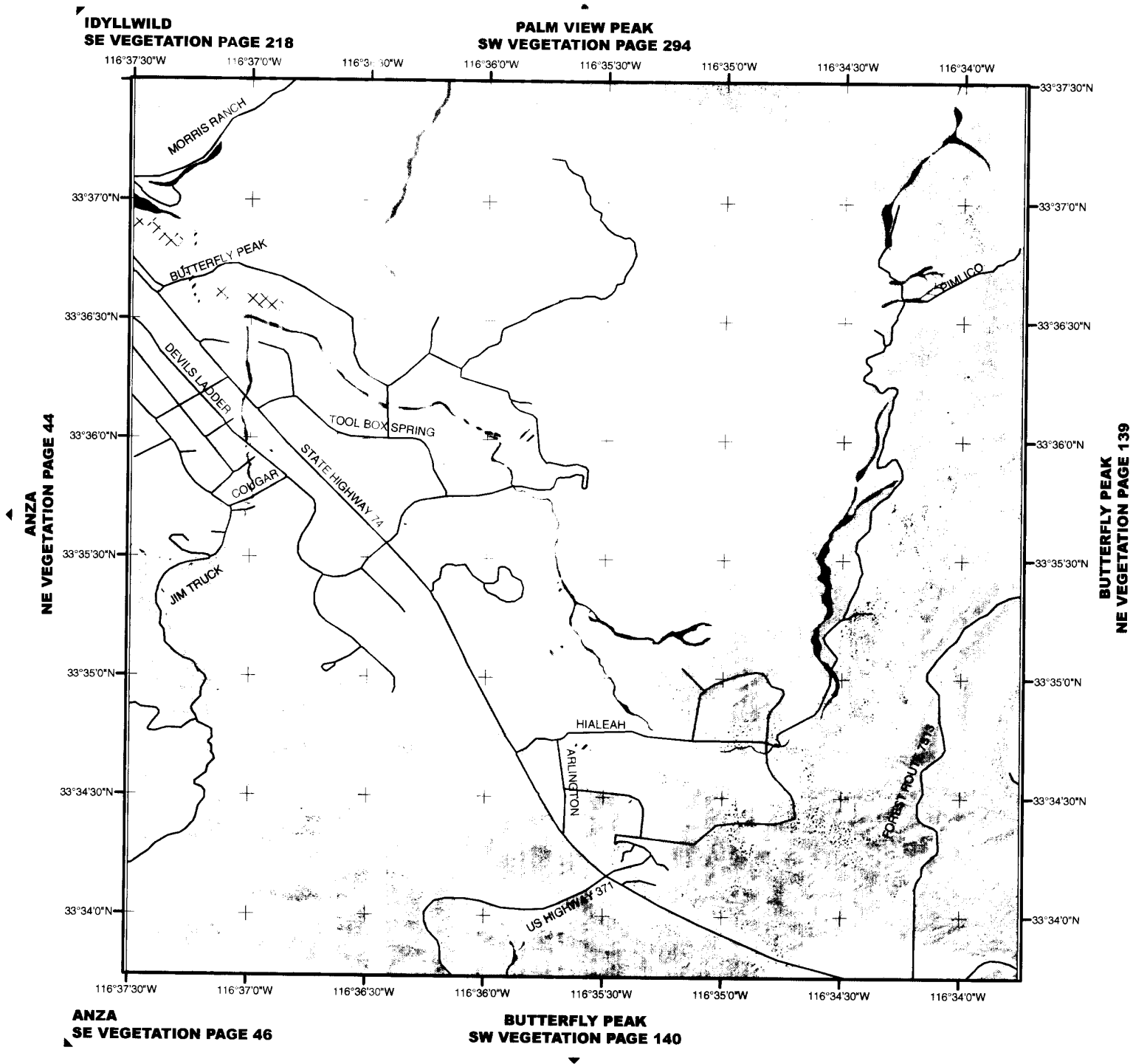


BEAUTY MOUNTAIN
QUAD VEGETATION PAGE 90

BUCKSNORT MOUNTAIN
QUAD VEGETATION PAGE 129



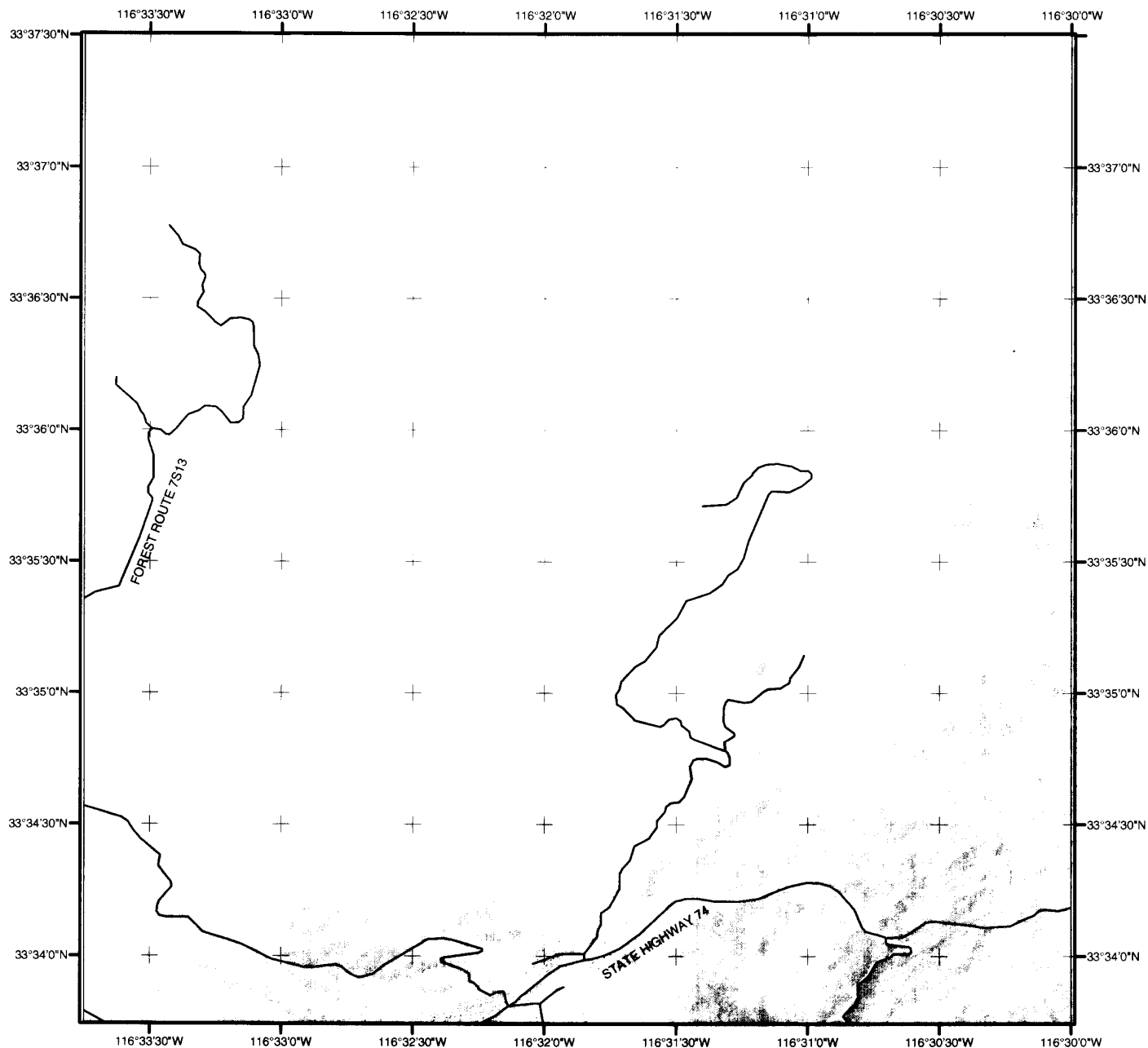
Butterfly Peak North West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



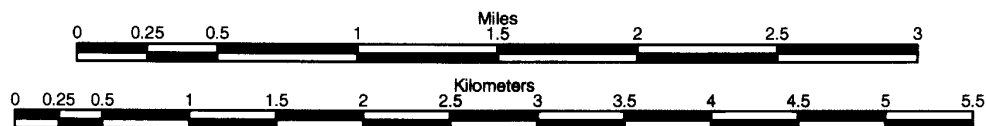
Butterfly Peak North East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

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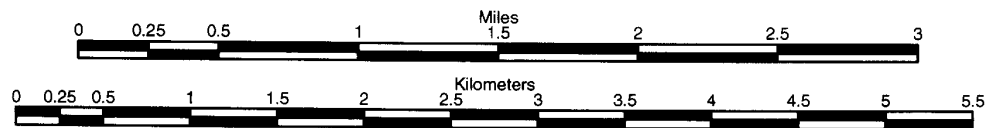
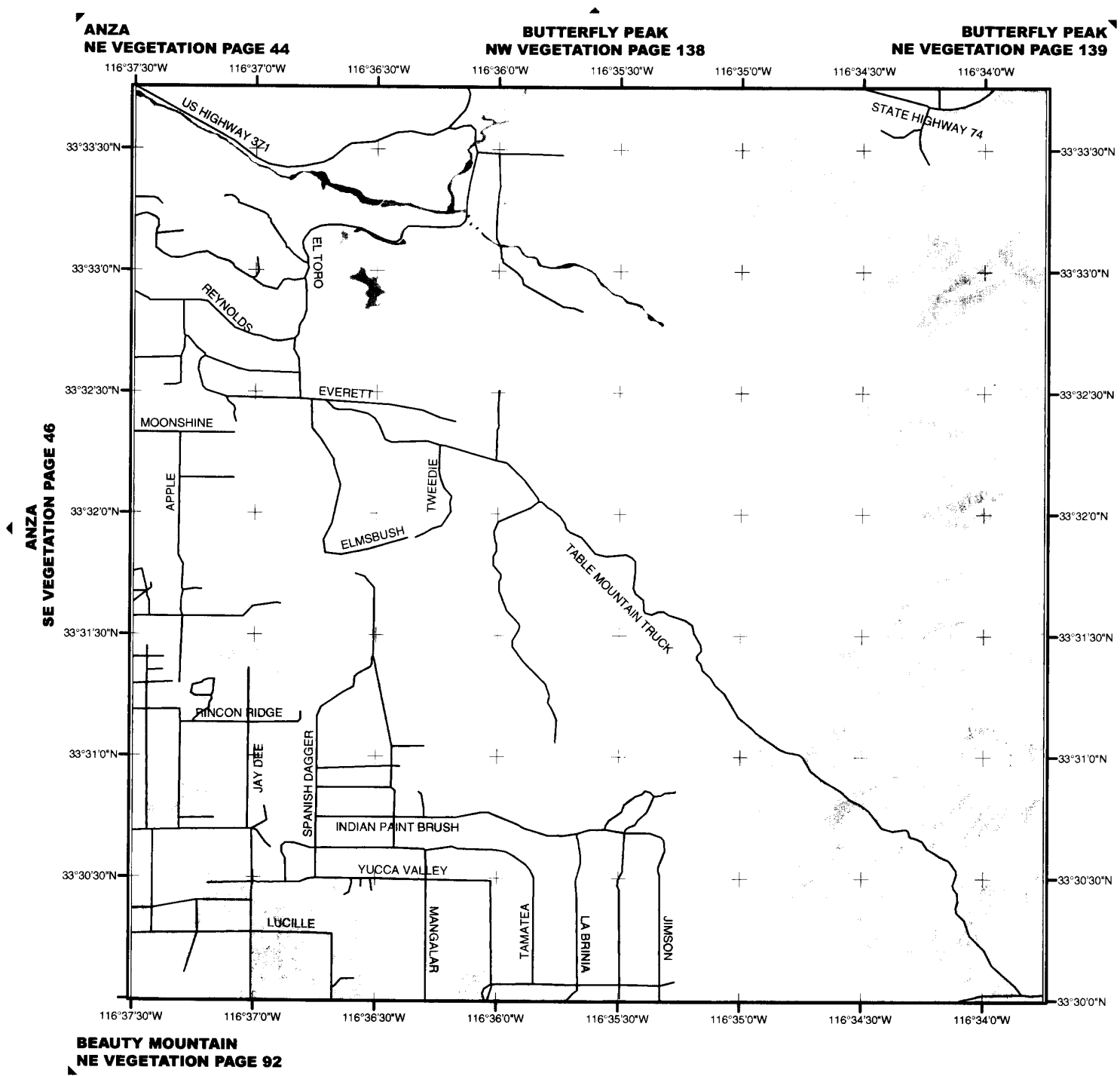
**BUTTERFLY PEAK
NW VEGETATION PAGE 138**



**BUTTERFLY PEAK
SW VEGETATION PAGE 140**



Butterfly Peak South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

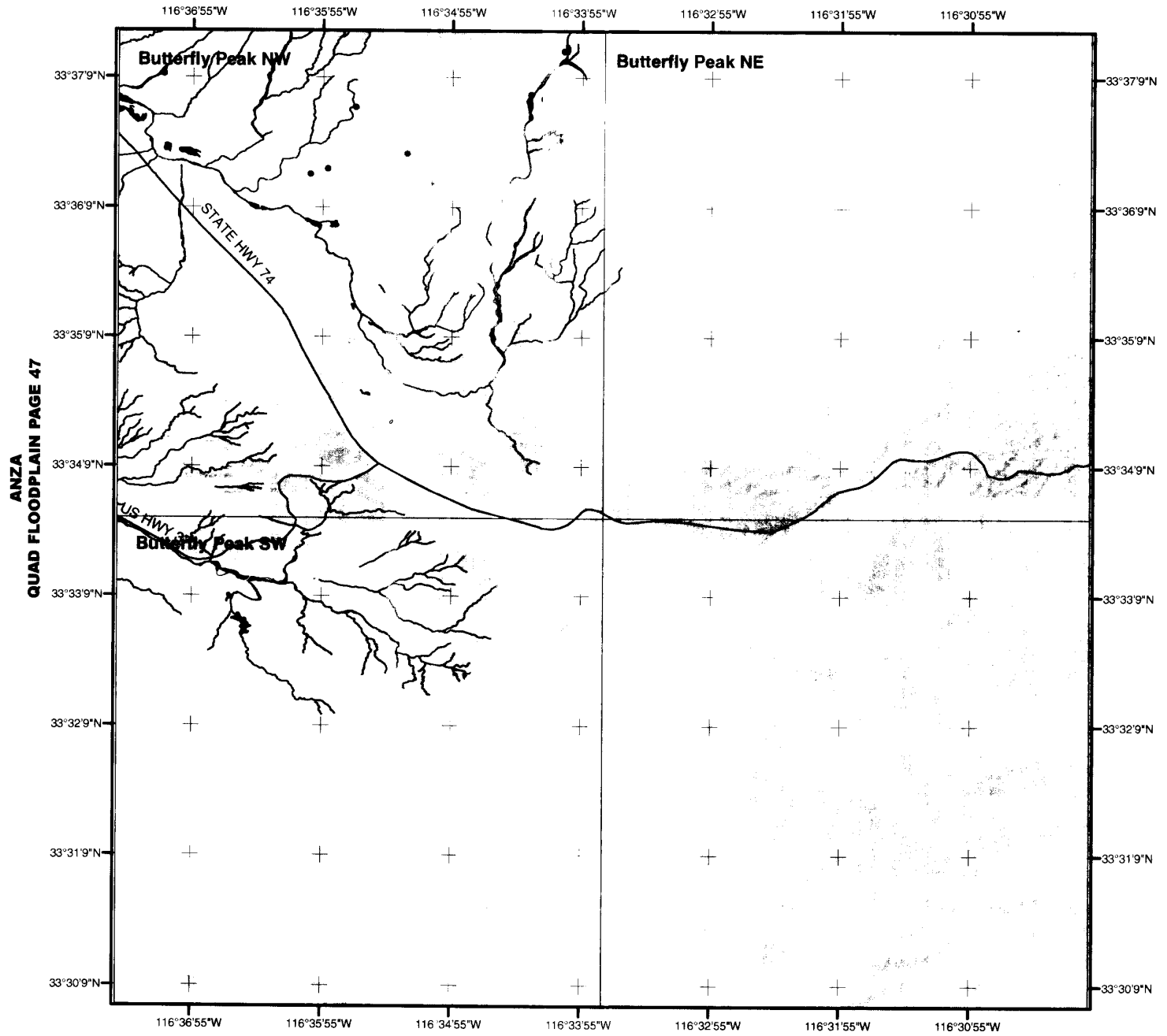


Butterfly Peak Quadrangle

Hydrogeomorphic Floodplain Units for Aquatic Resources

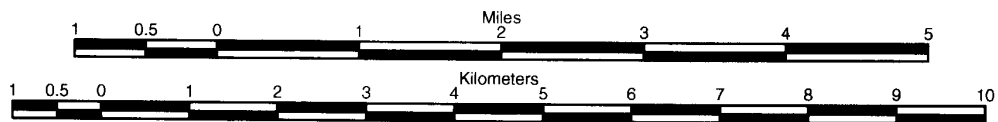
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PALM VIEW PEAK
QUAD FLOODPLAIN PAGE 295

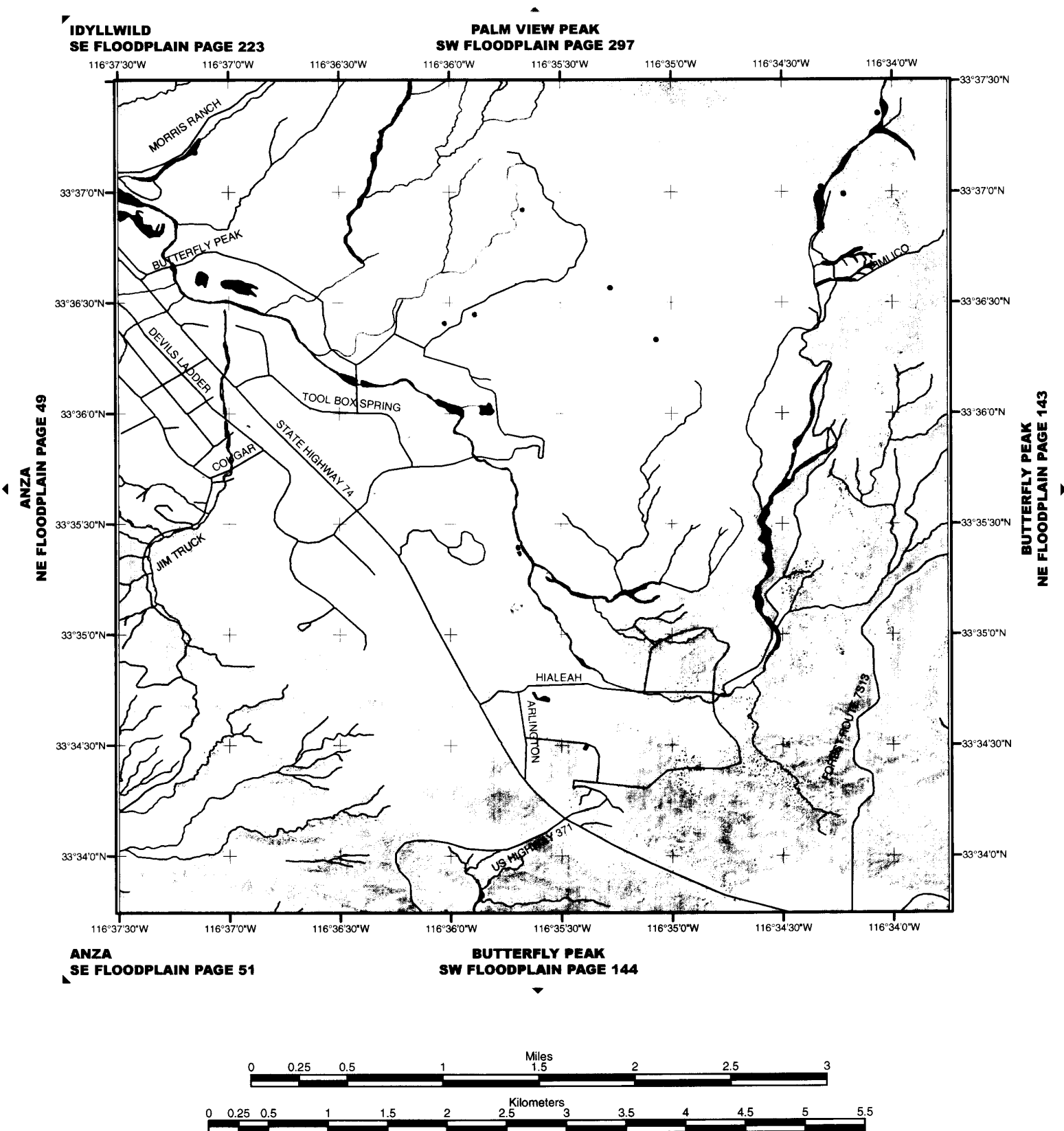


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QUAD FLOODPLAIN PAGE 95

BUCKSNORT MOUNTAIN
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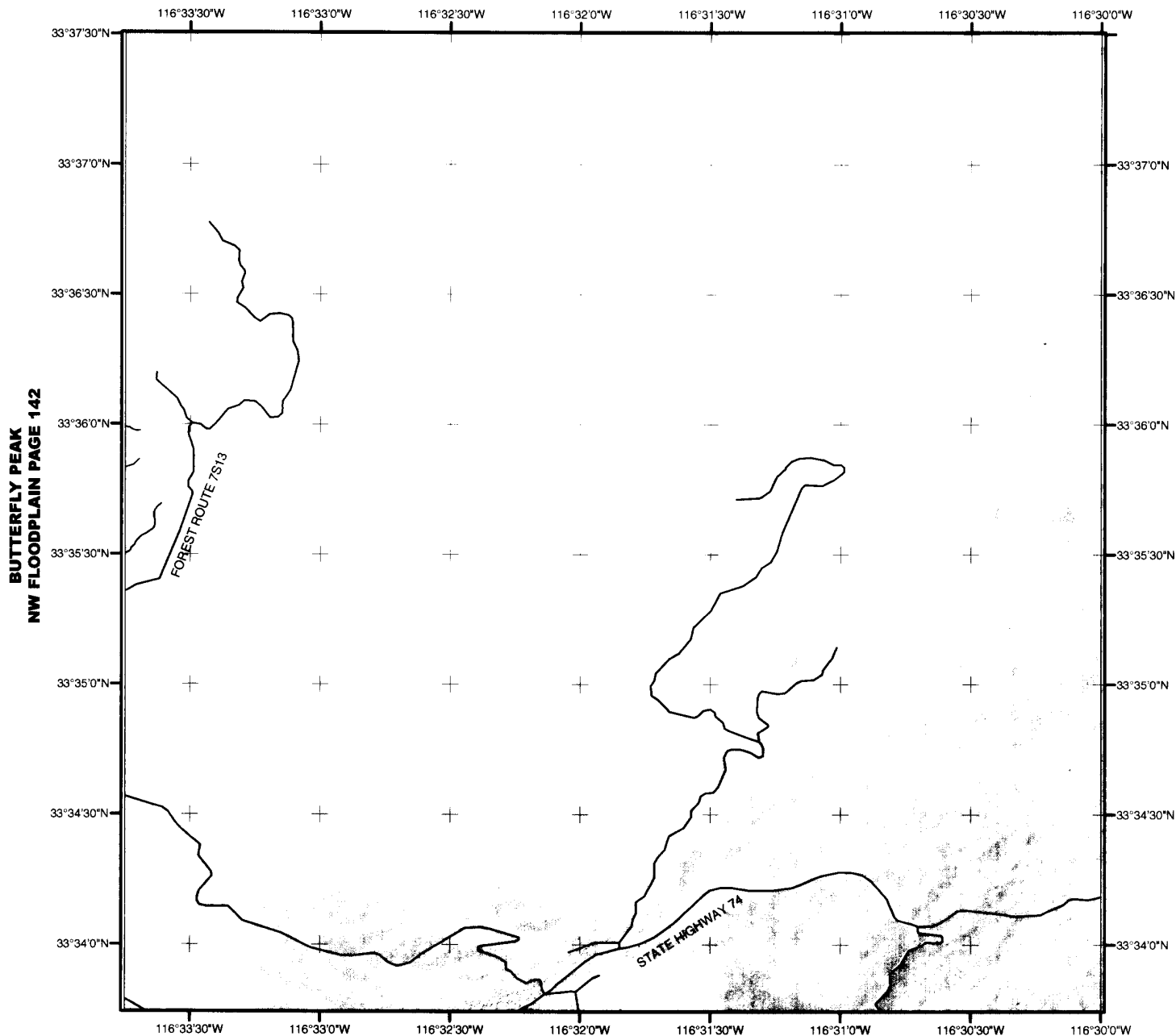


Butterfly Peak North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

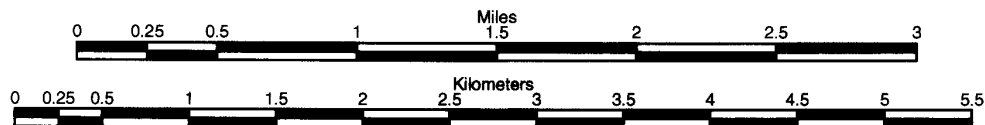


Butterfly Peak North East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

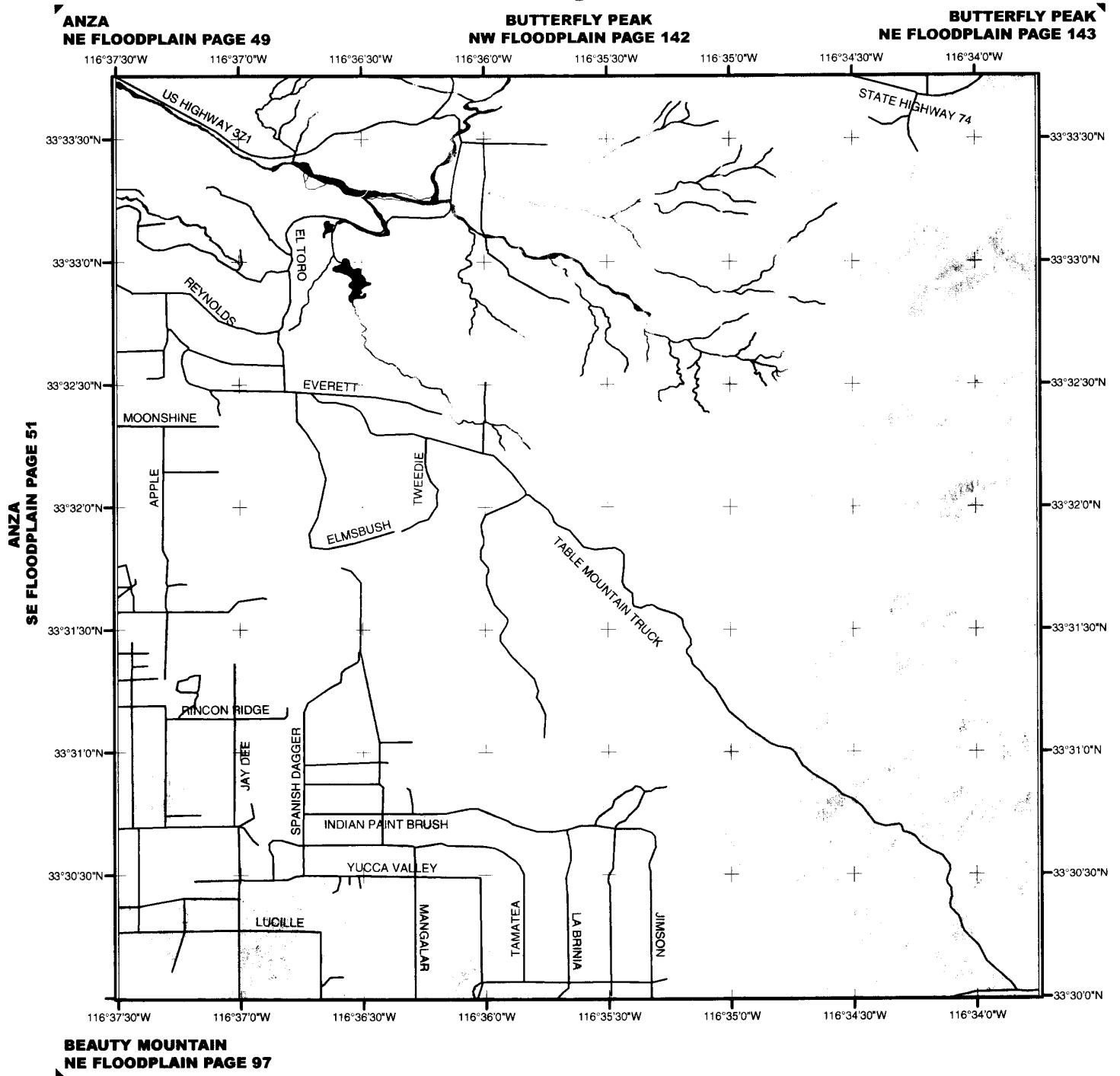
**PALM VIEW PEAK
SW FLOODPLAIN PAGE 297**



**BUTTERFLY PEAK
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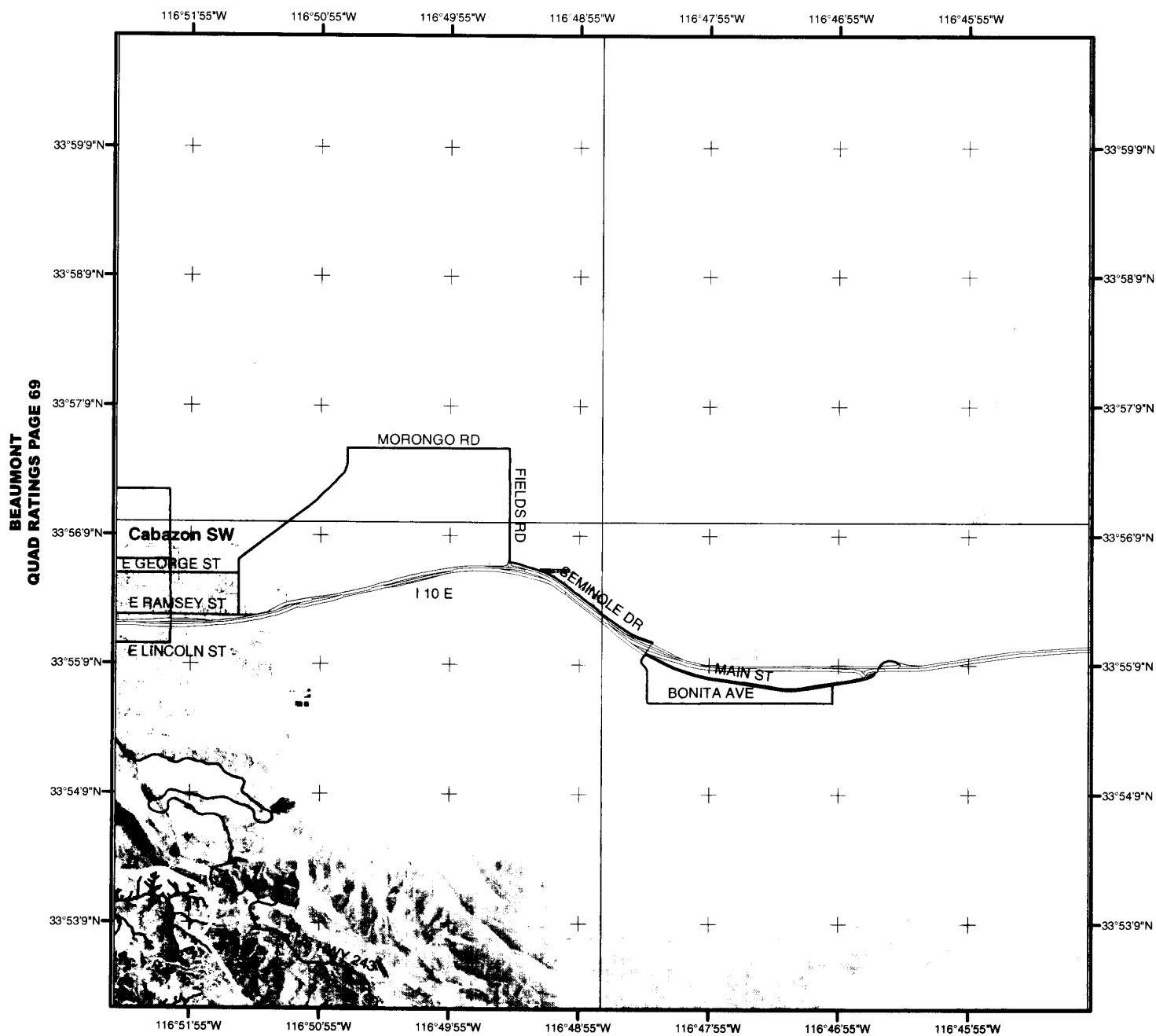


Butterfly Peak South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



Cabazon Quadrangle

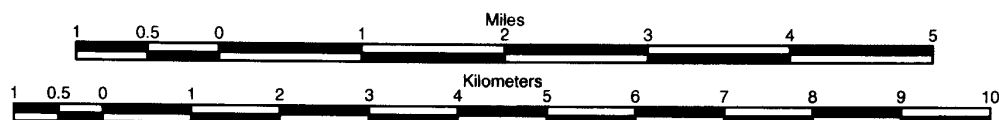
Regulatory Probability Ratings for Aquatic Resources



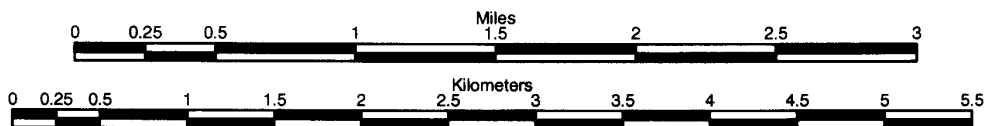
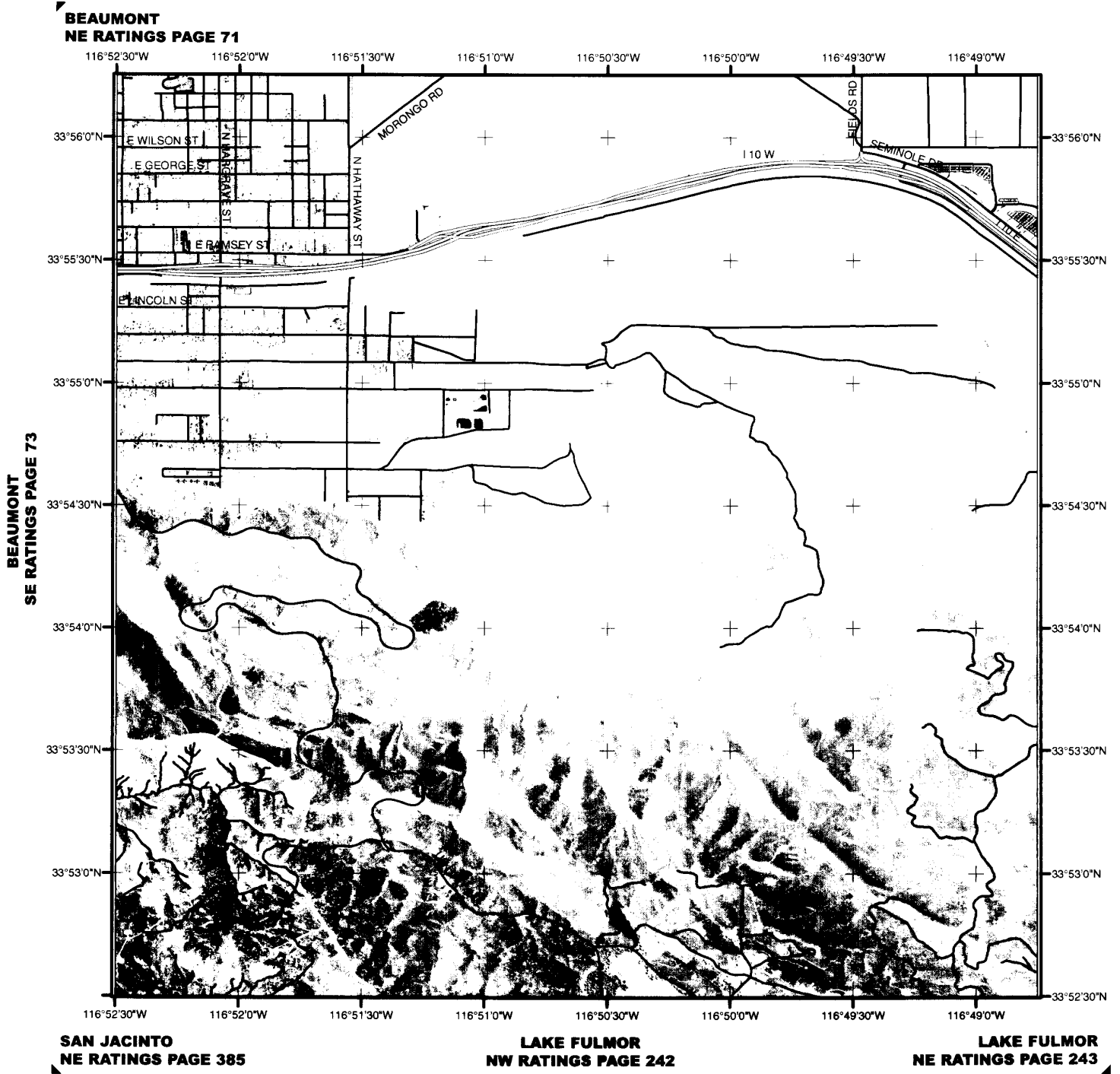
**SAN JACINTO
QUAD RATINGS PAGE 383**

**LAKE FULMOR
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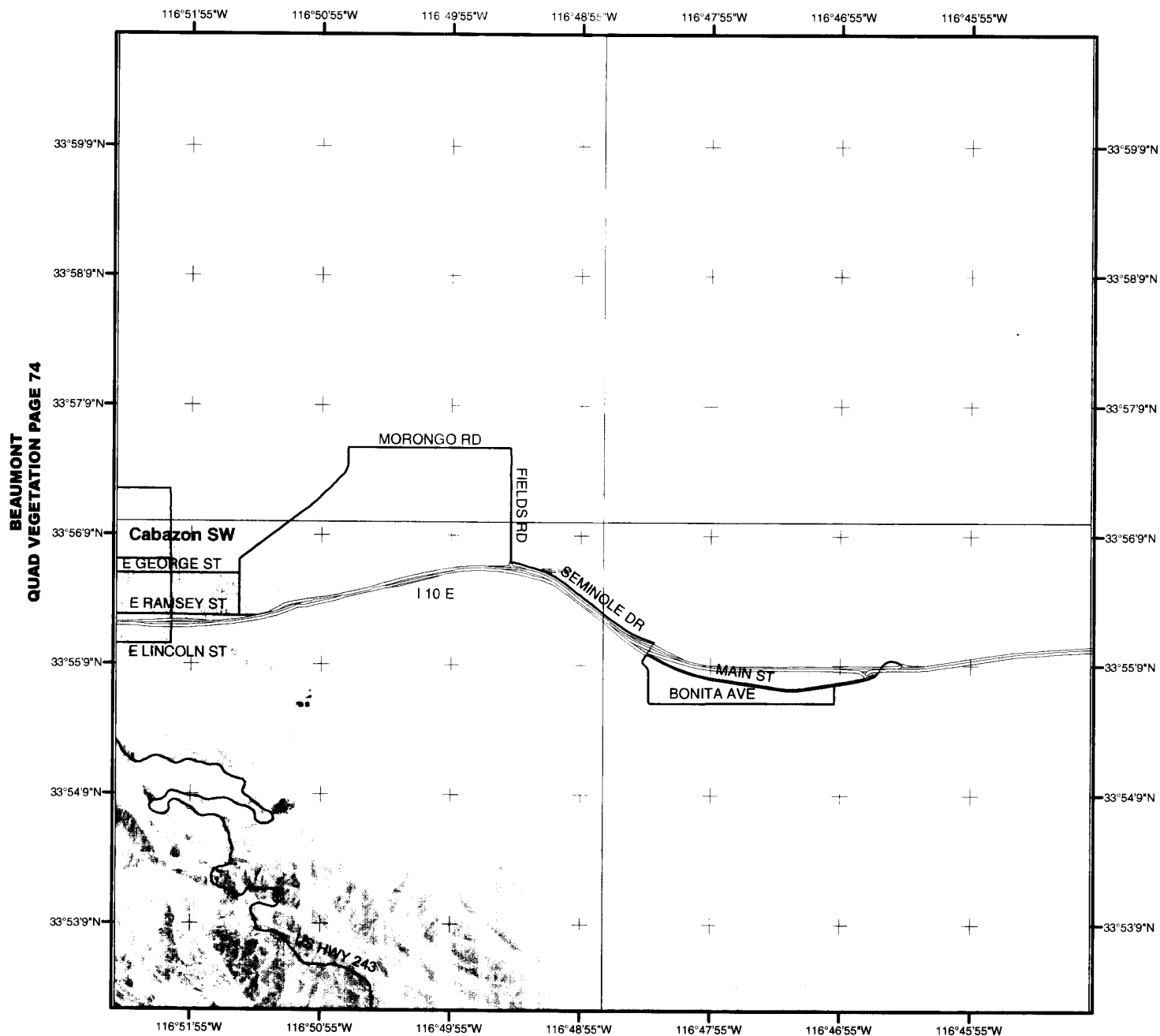


Cabazon South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



Cabazon Quadrangle

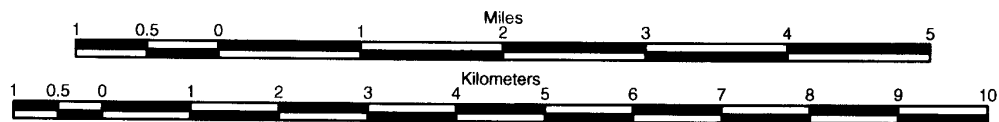
Vegetation Species Association Units for Aquatic Resources



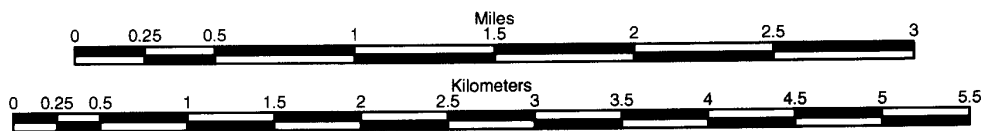
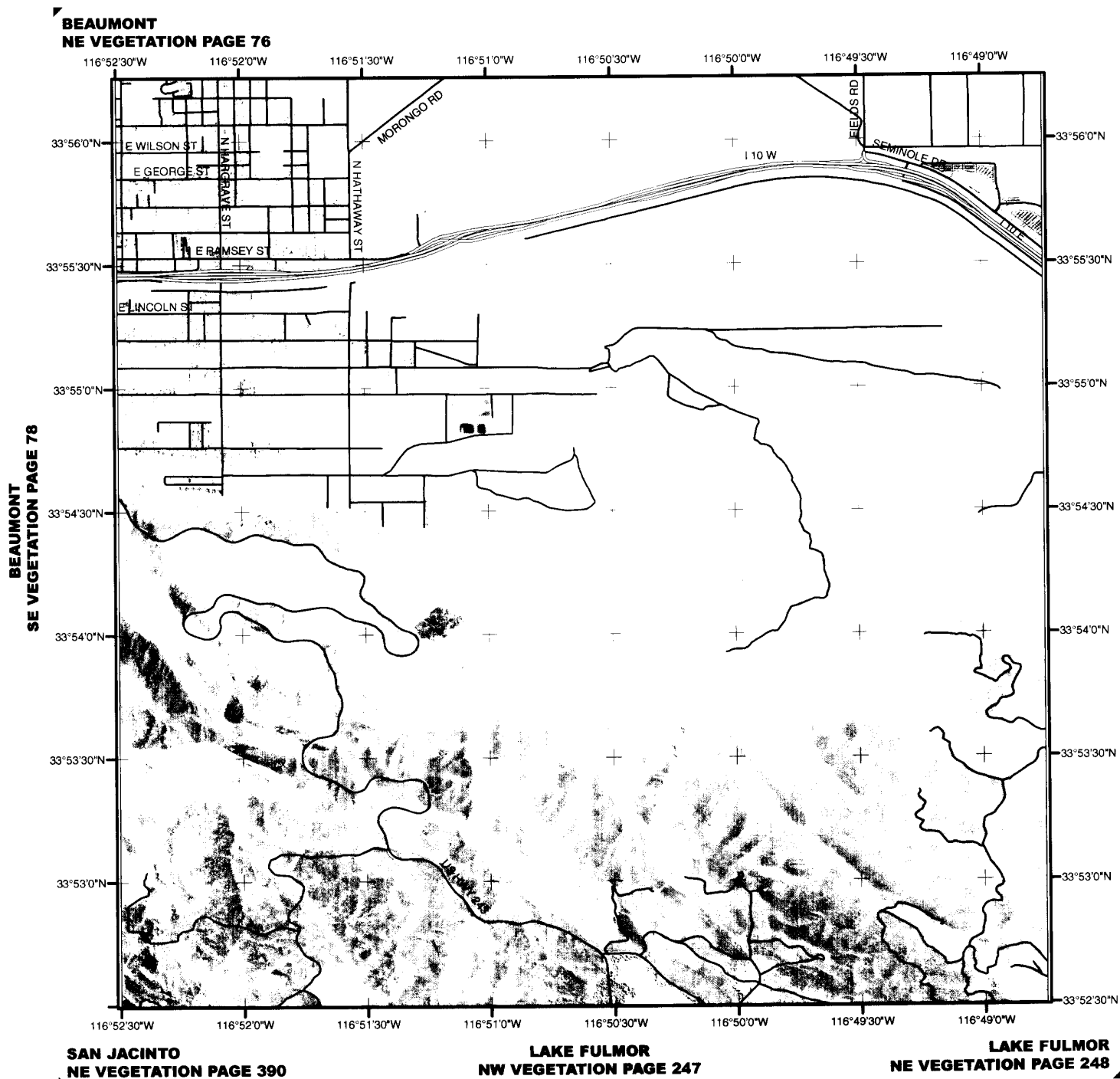
SAN JACINTO
QUAD VEGETATION PAGE 388

LAKE FULMOR
QUAD VEGETATION PAGE 246

SAN JACINTO PEAK
QUAD VEGETATION PAGE 404

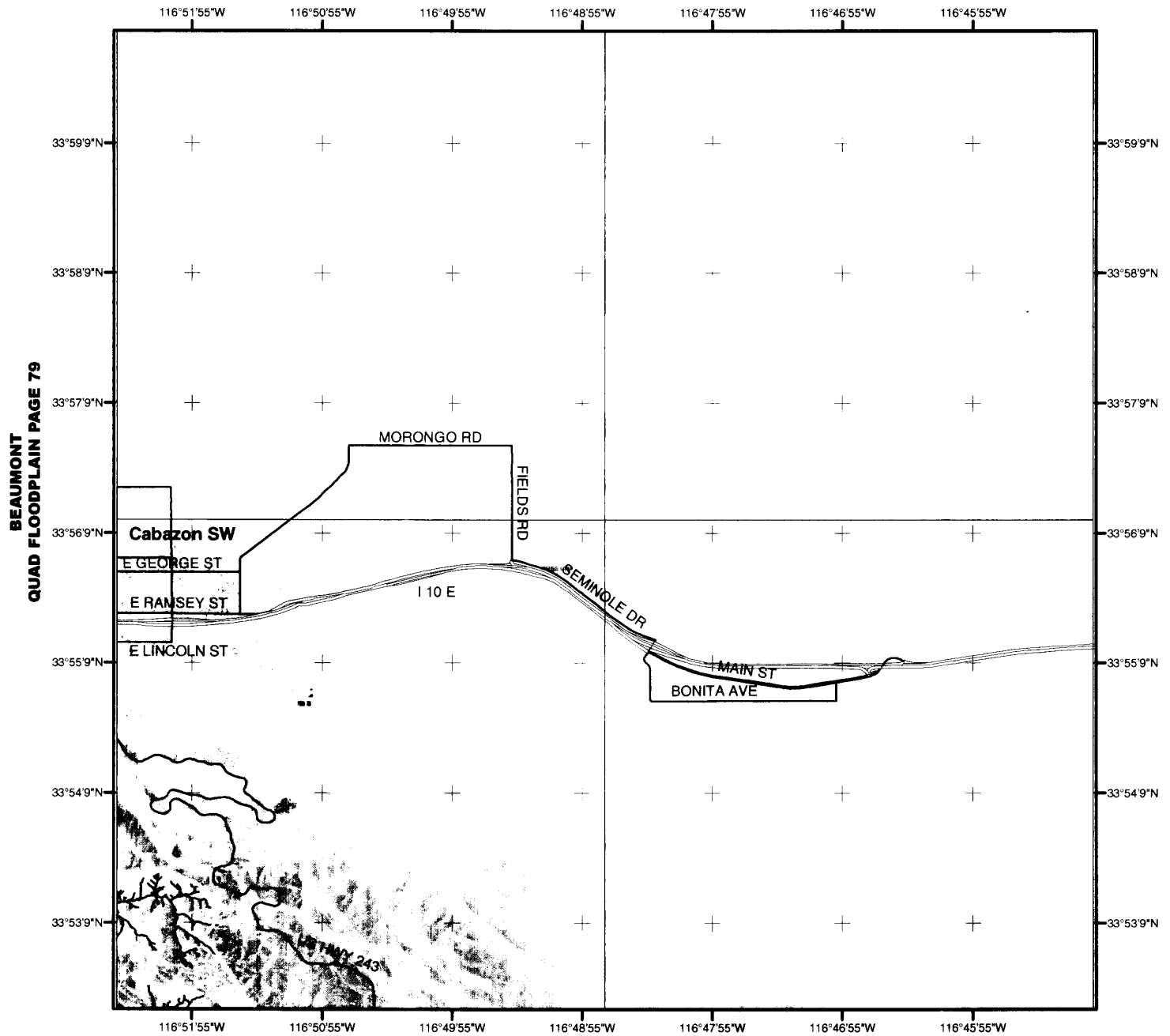


Cabazon South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



Cabazon Quadrangle

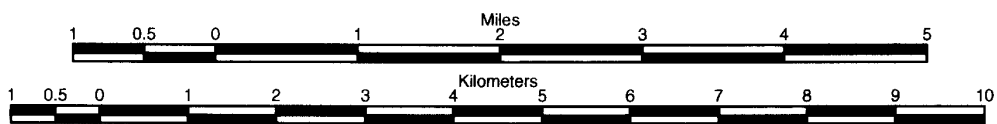
Hydrogeomorphic Floodplain Units for Aquatic Resources



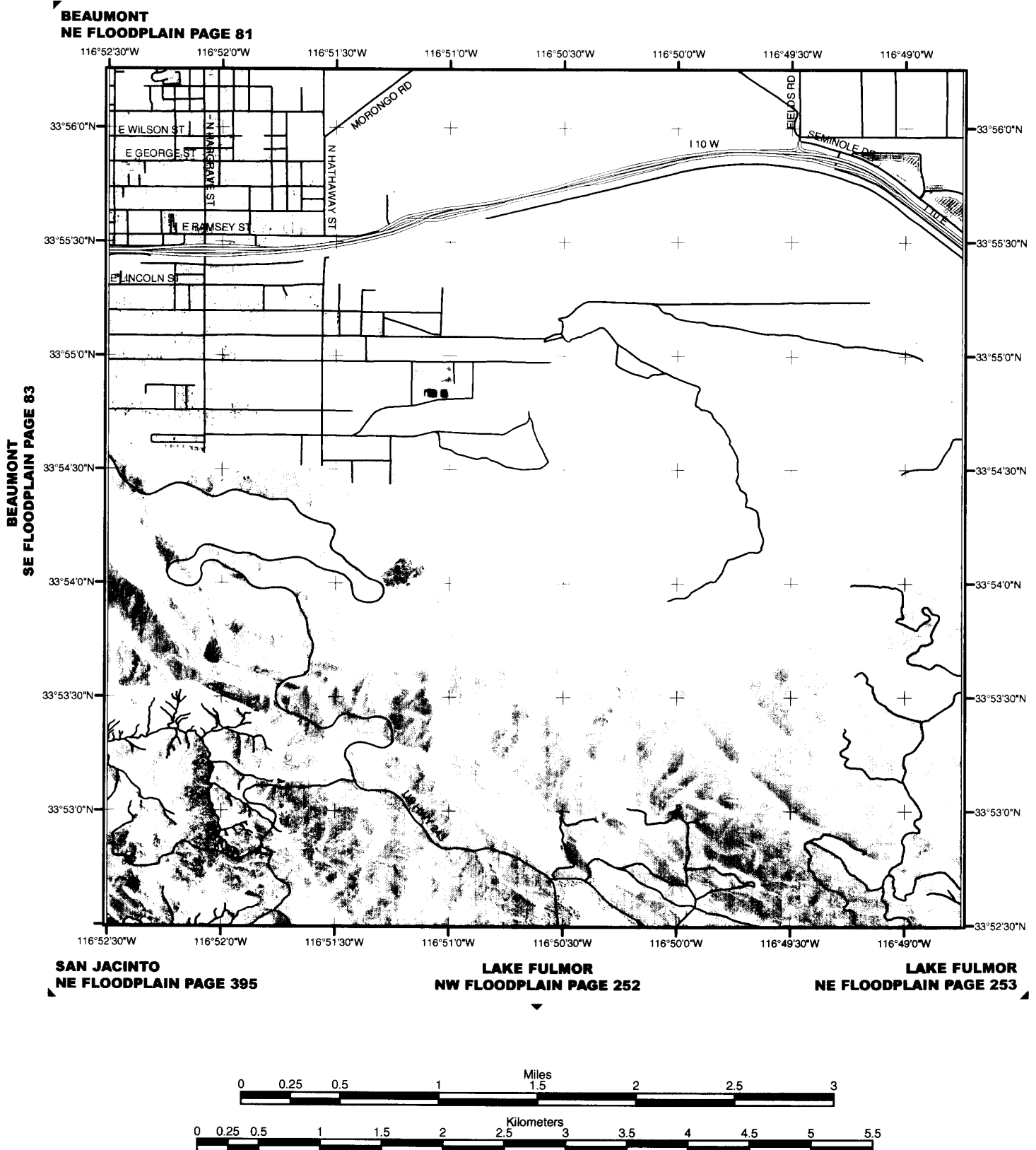
SAN JACINTO
QUAD FLOODPLAIN PAGE 393

LAKE FULMOR
QUAD FLOODPLAIN PAGE 251

SAN JACINTO PEAK
QUAD FLOODPLAIN PAGE 409

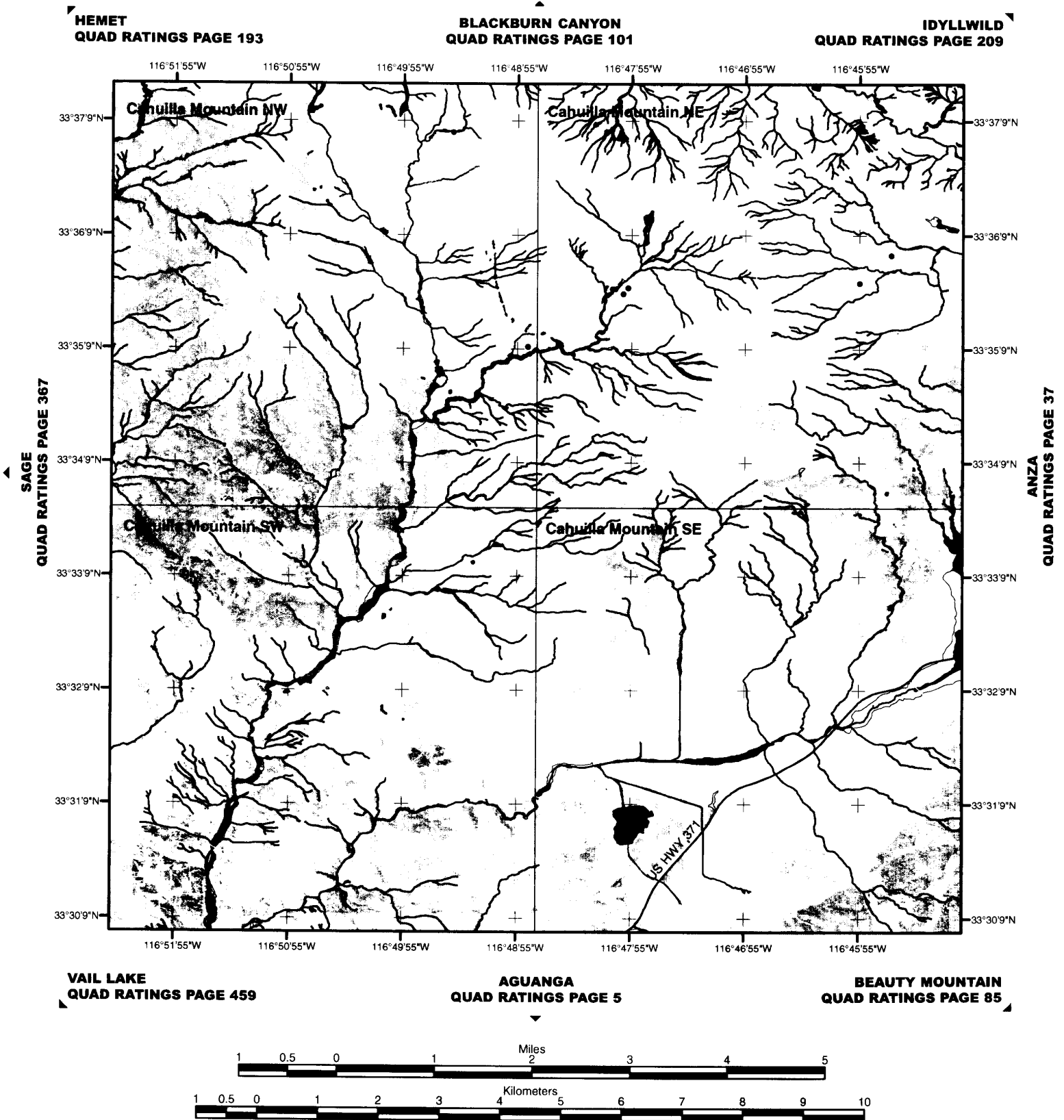


Cabazon South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

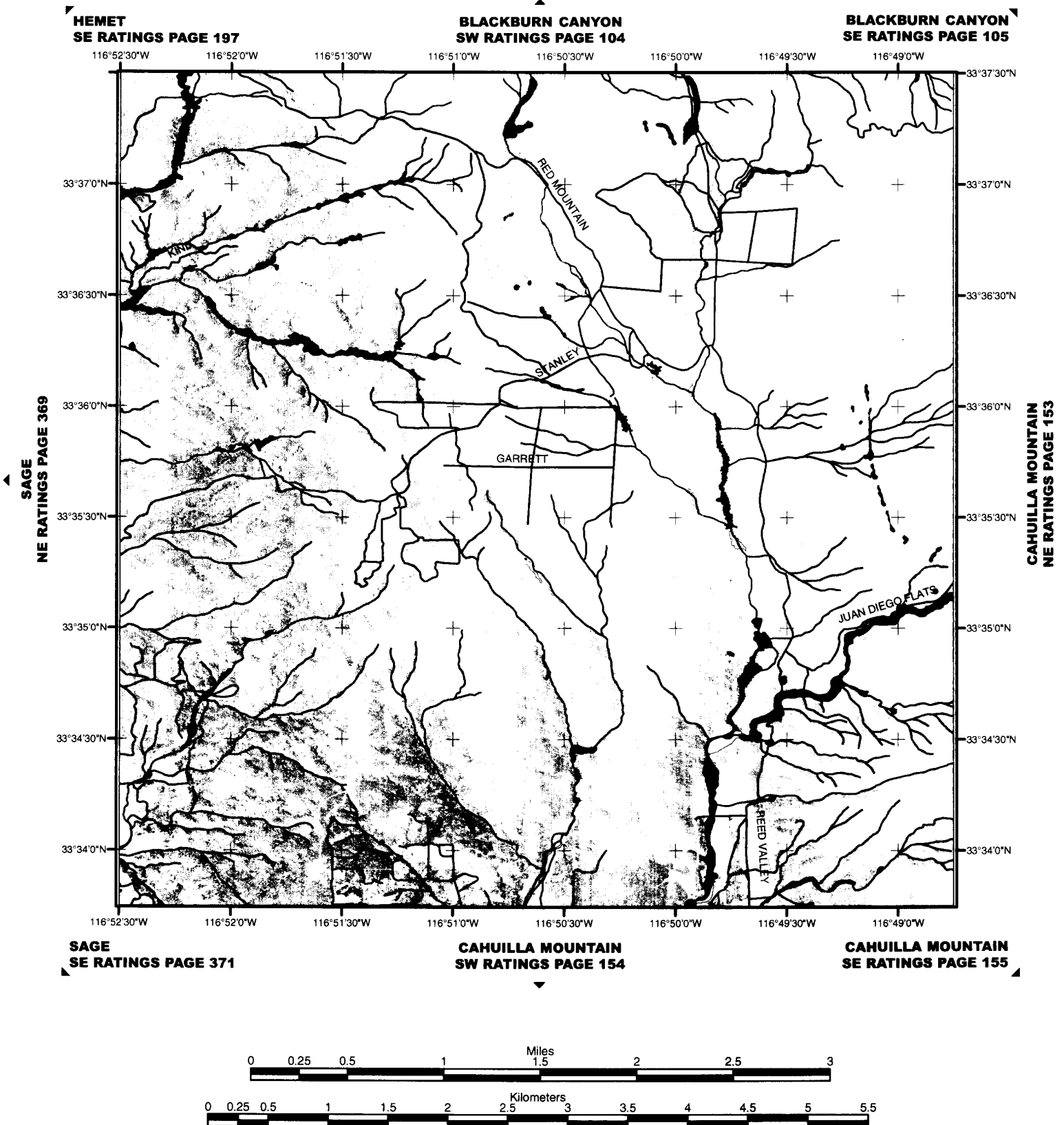


Cahuilla Mountain Quadrangle

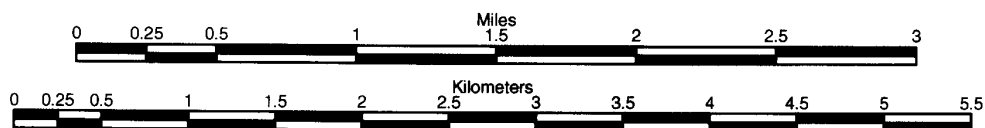
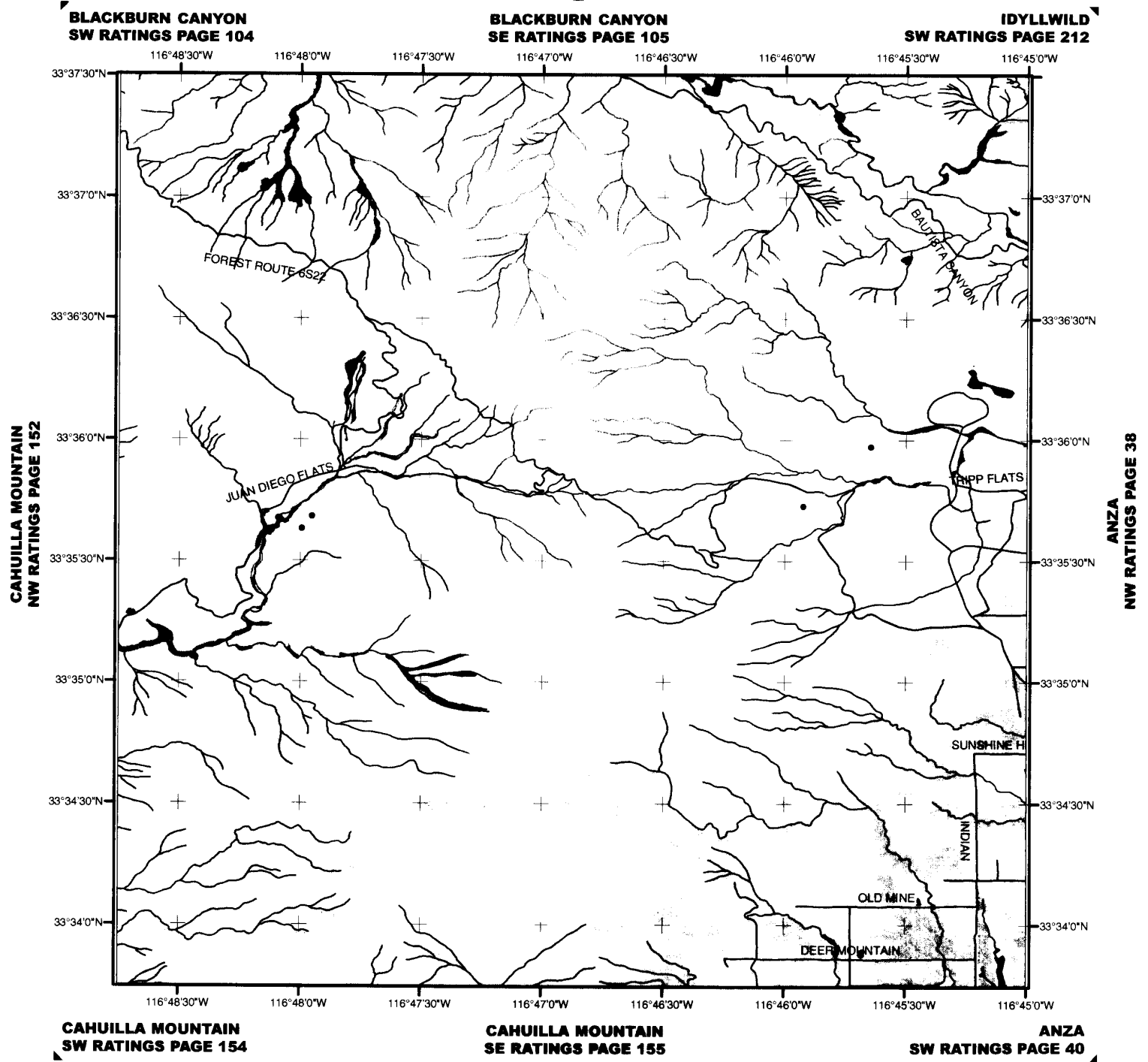
Regulatory Probability Ratings for Aquatic Resources



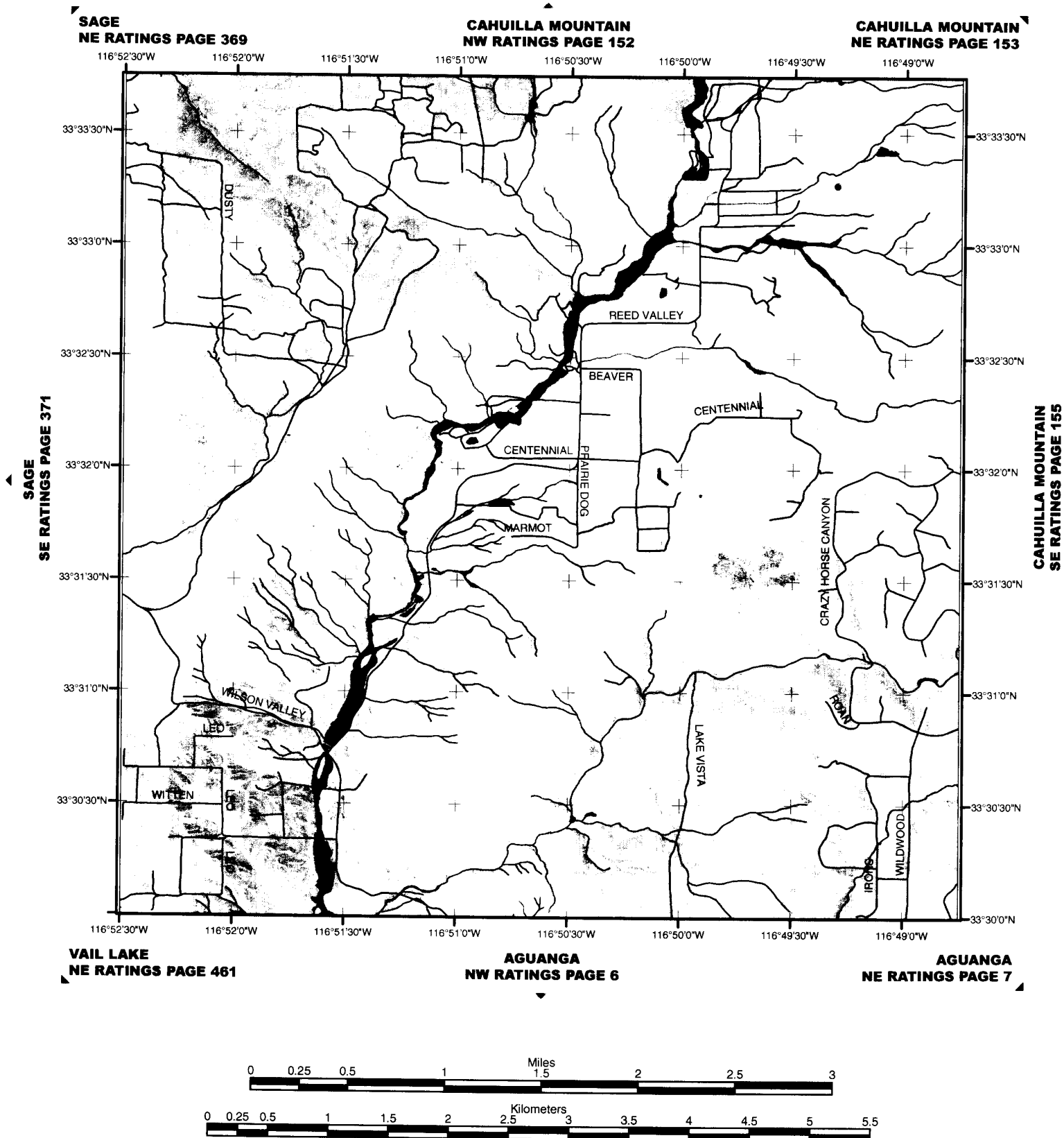
Cahuilla Mountain North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



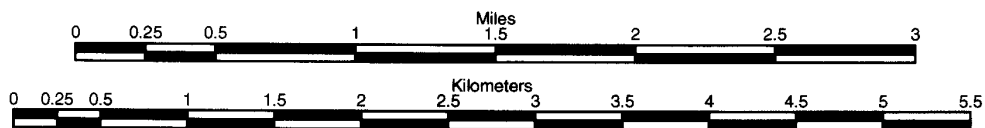
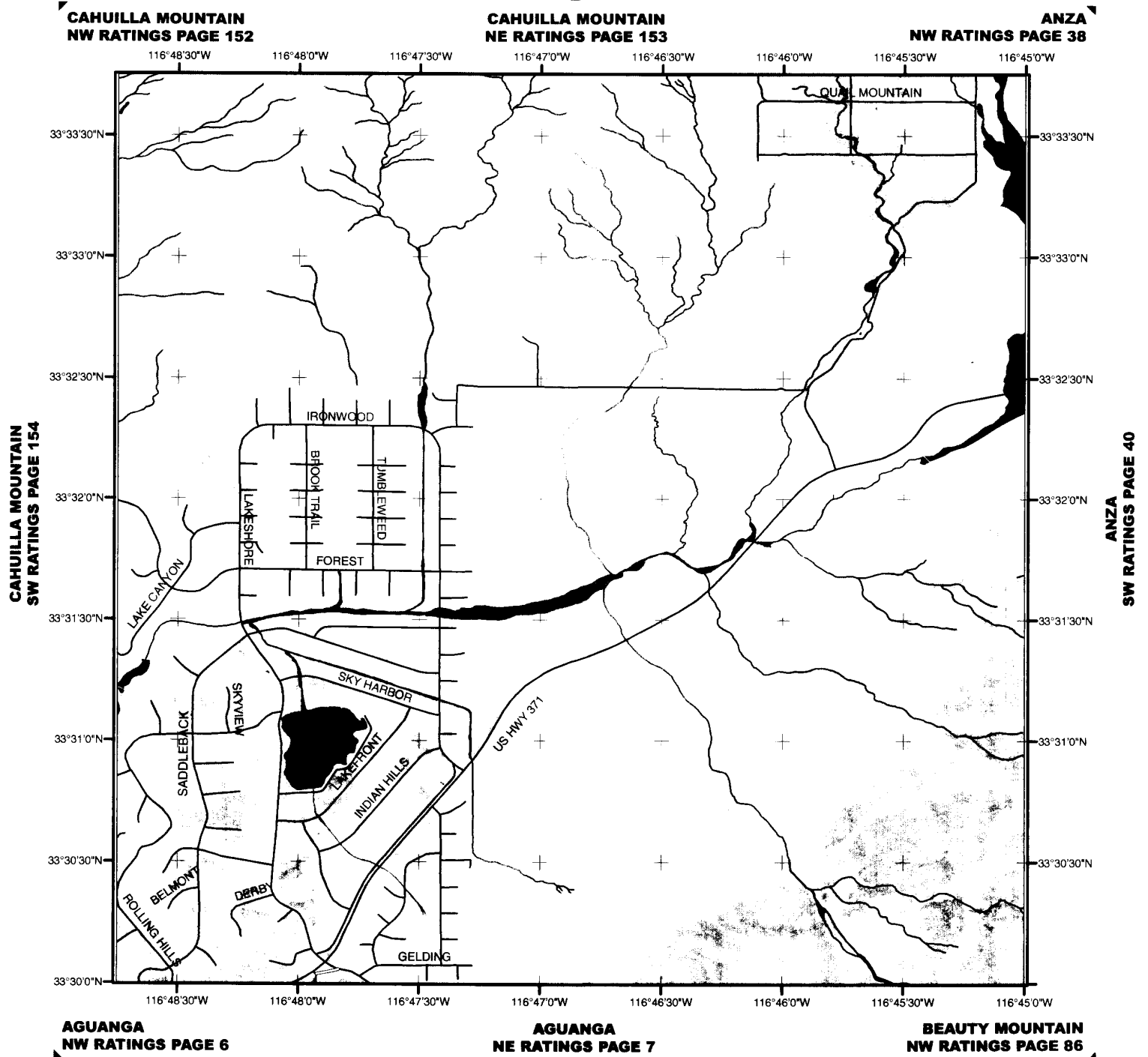
Cahuilla Mountain North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



Cahuilla Mountain South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

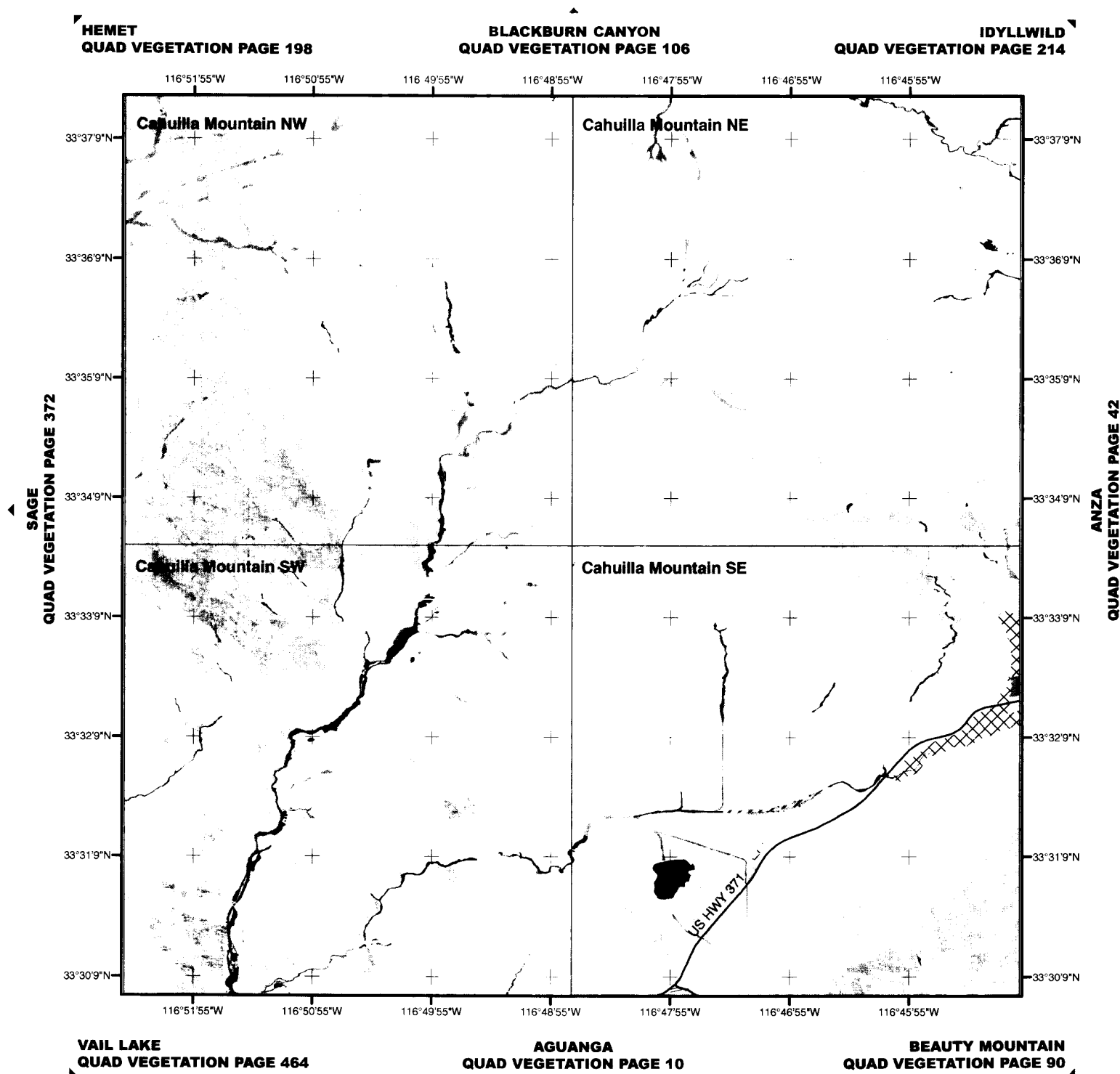


Cahuilla Mountain South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

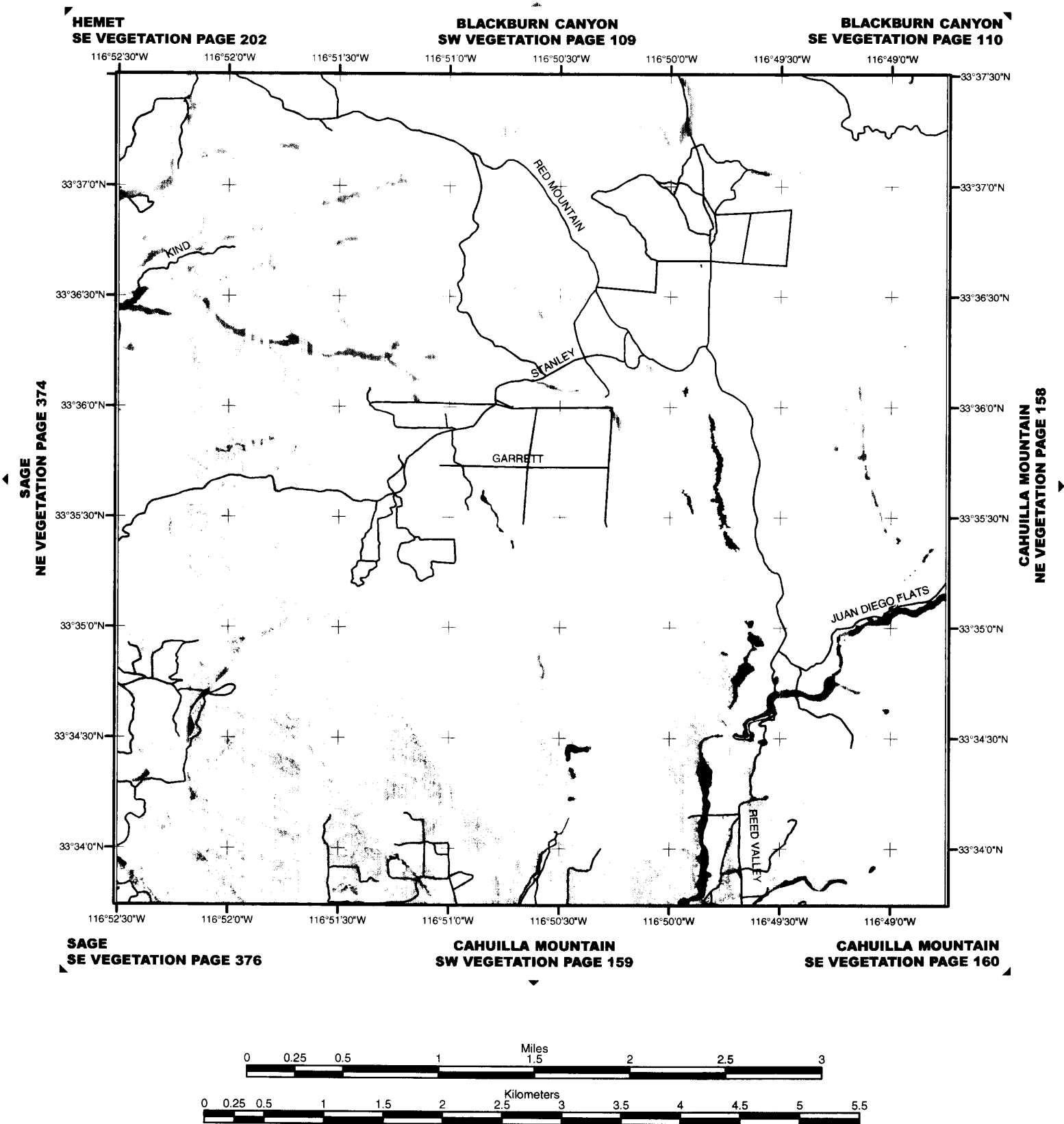


Cahuilla Mountain Quadrangle

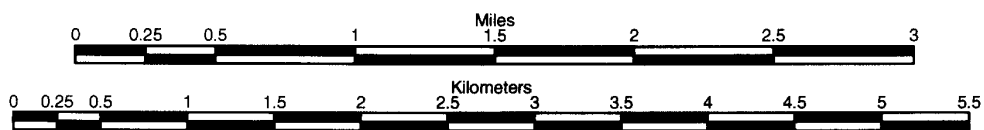
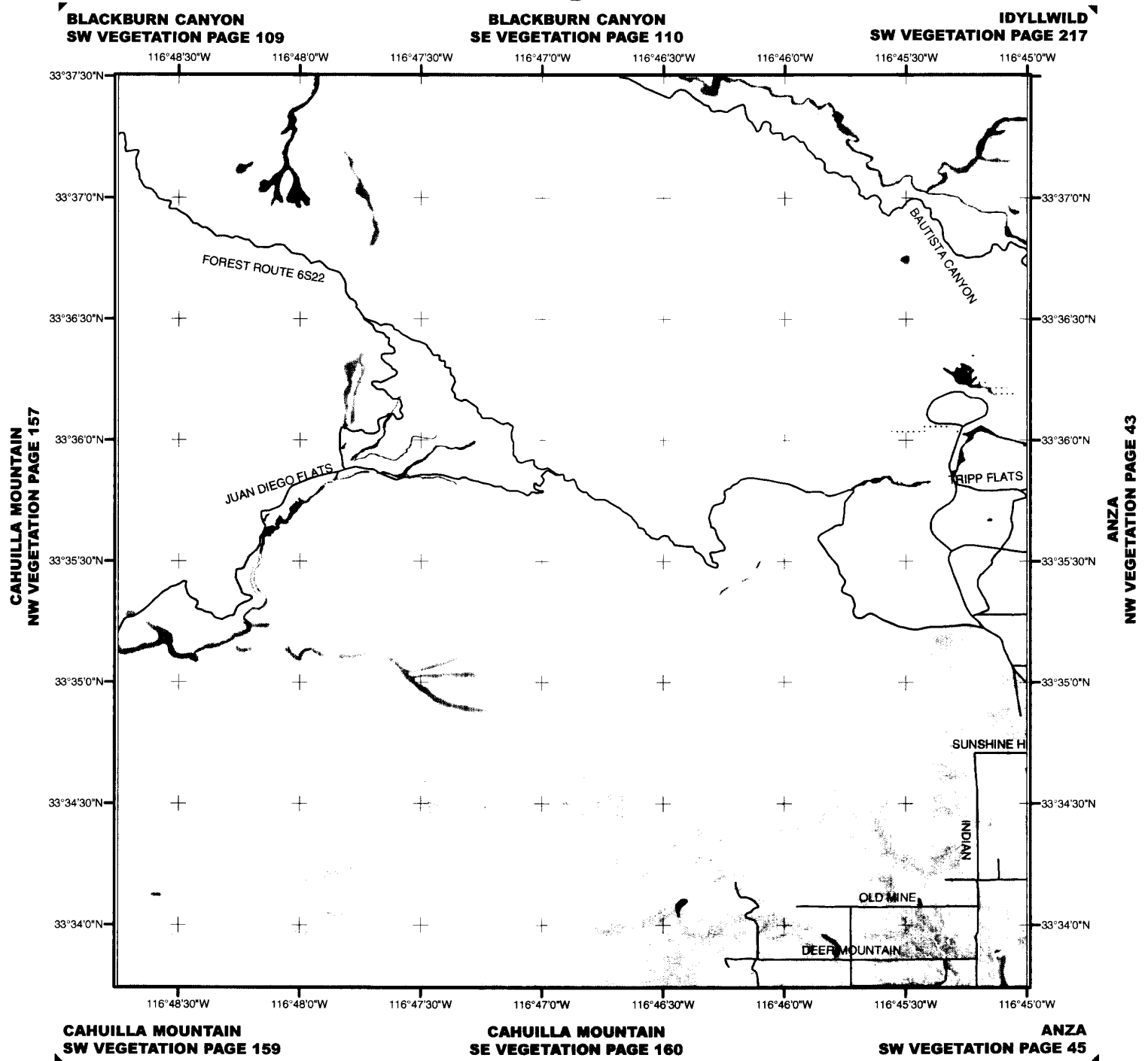
Vegetation Species Association Units for Aquatic Resources



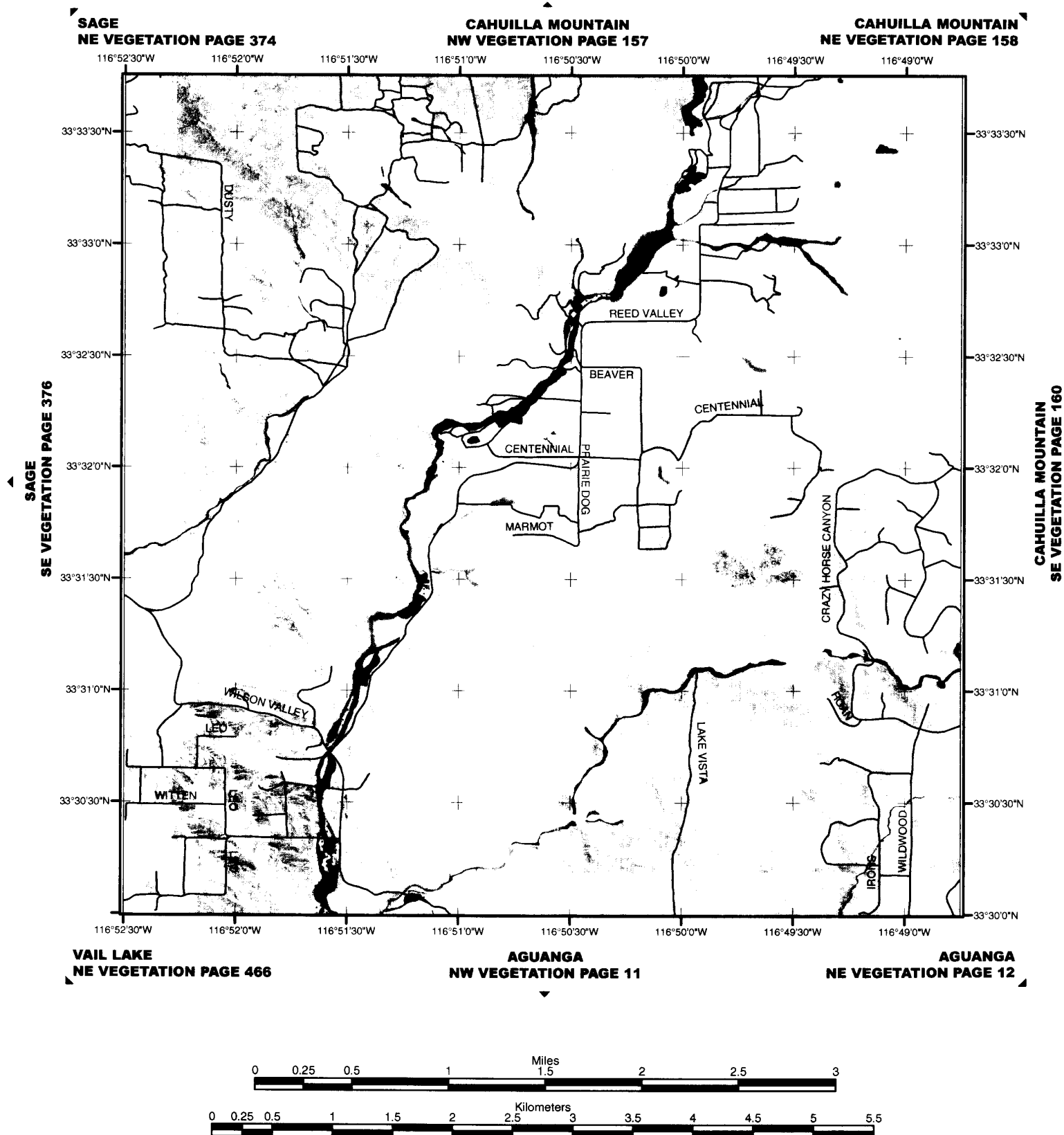
Cahuilla Mountain North West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



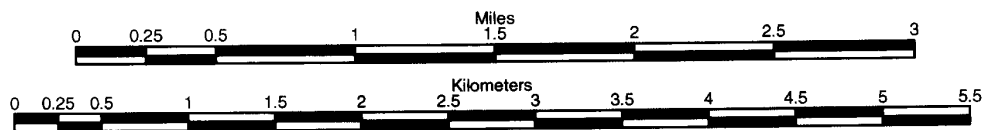
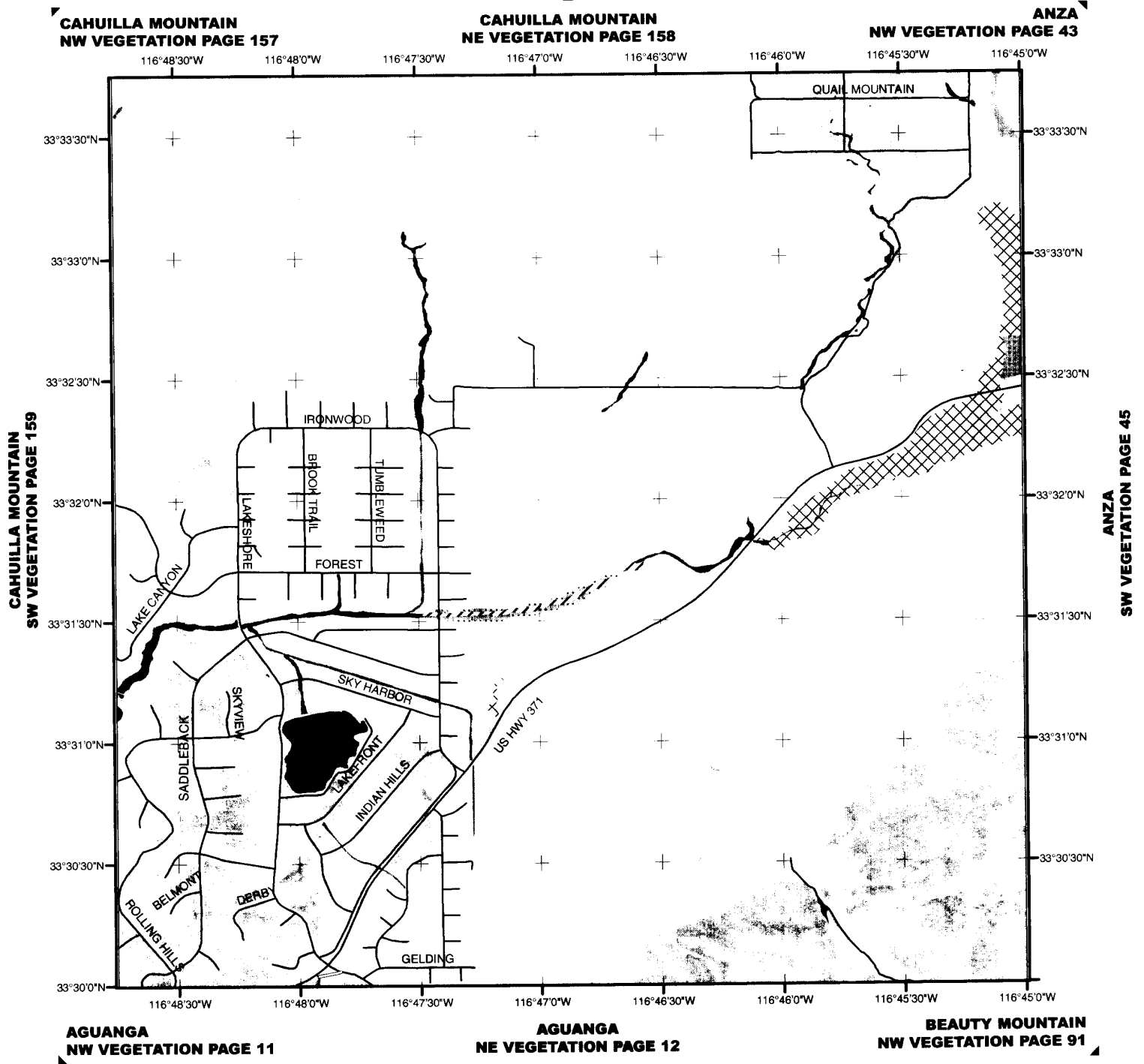
Cahuilla Mountain North East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



Cahuilla Mountain South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

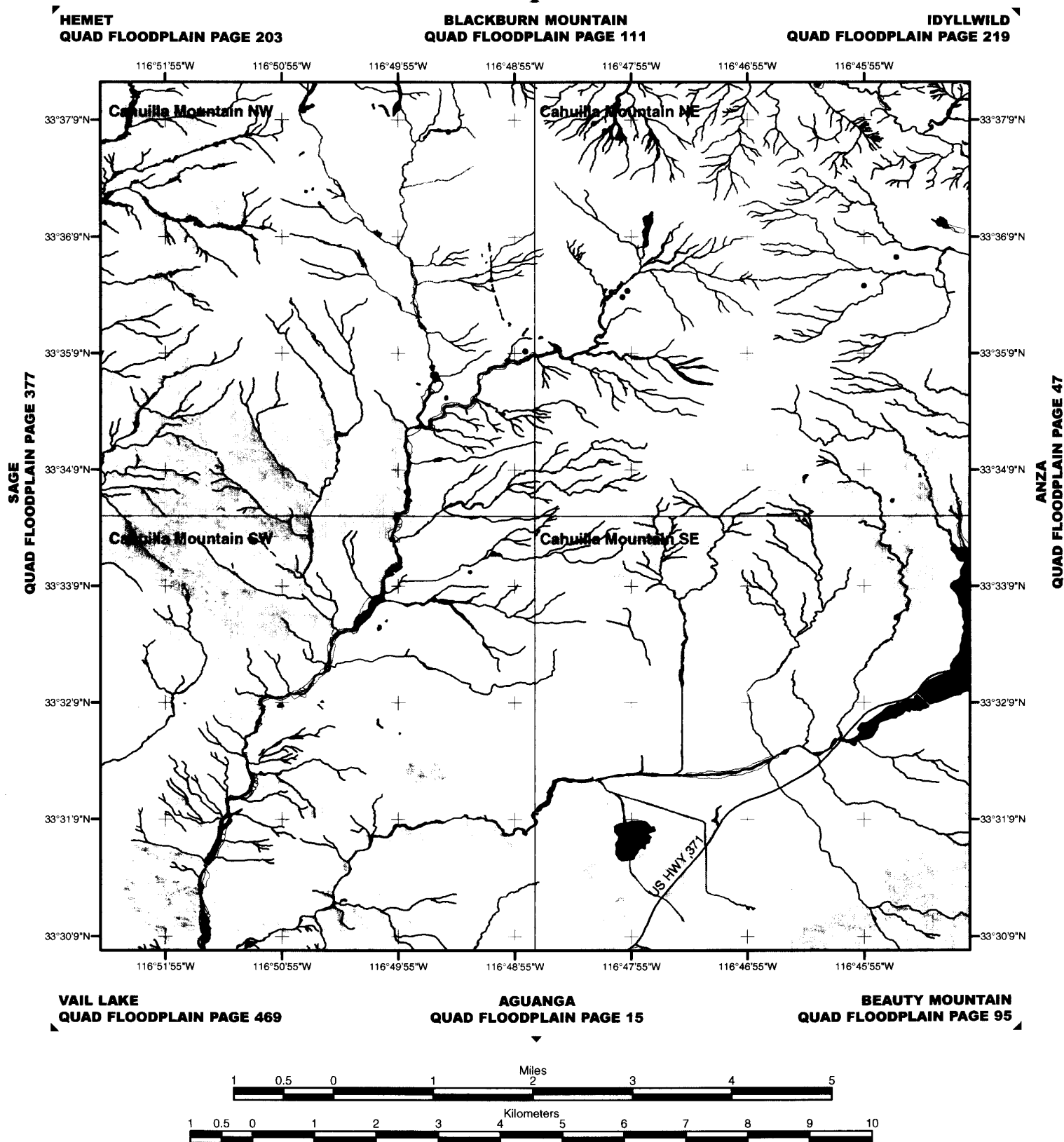


Cahuilla Mountain South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

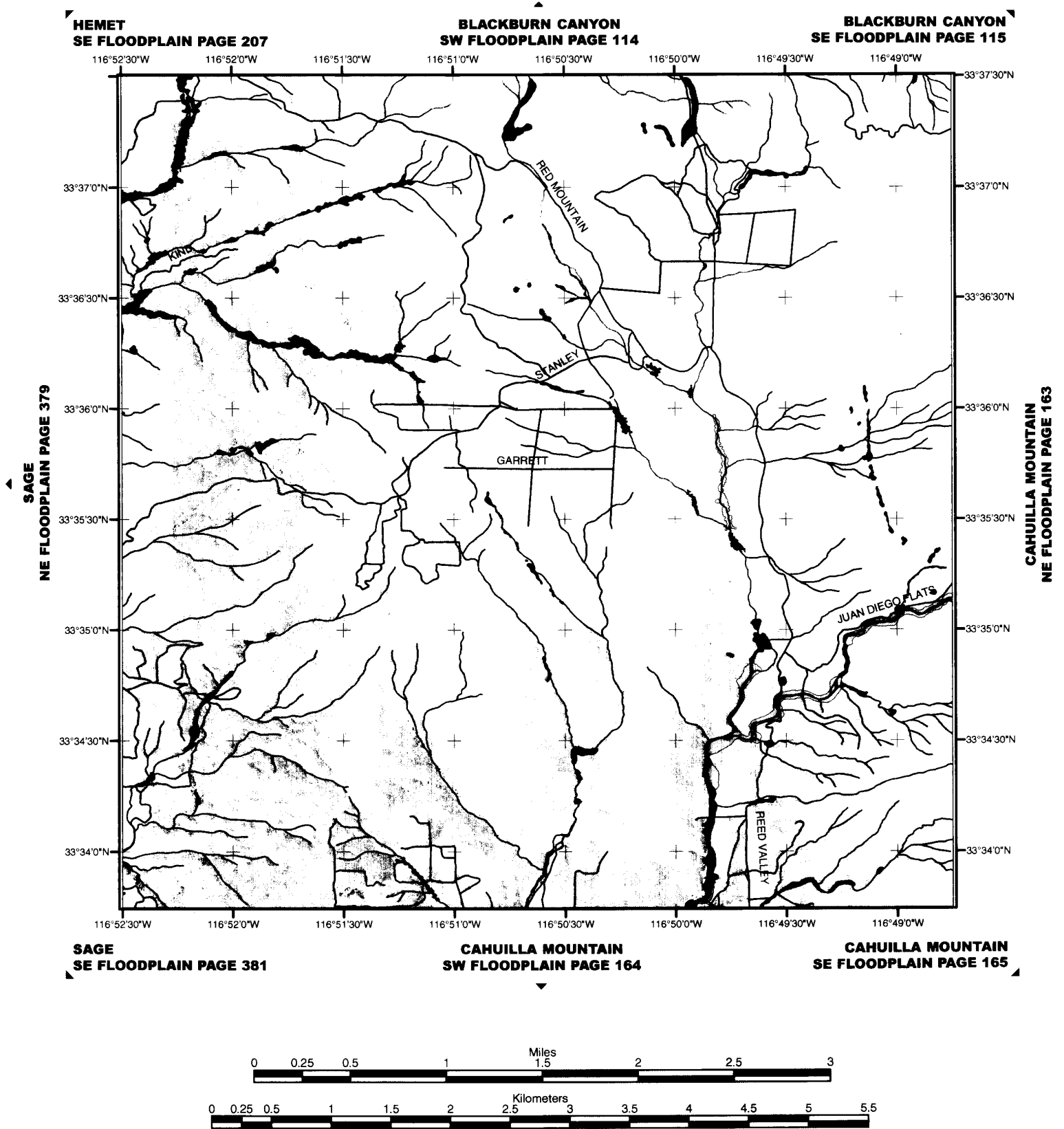


Cahuilla Mountain Quadrangle

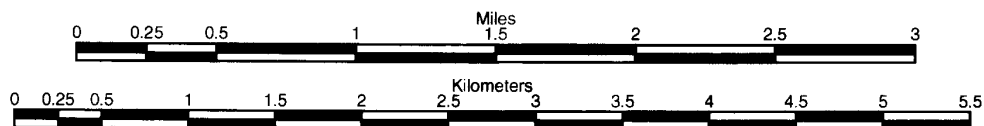
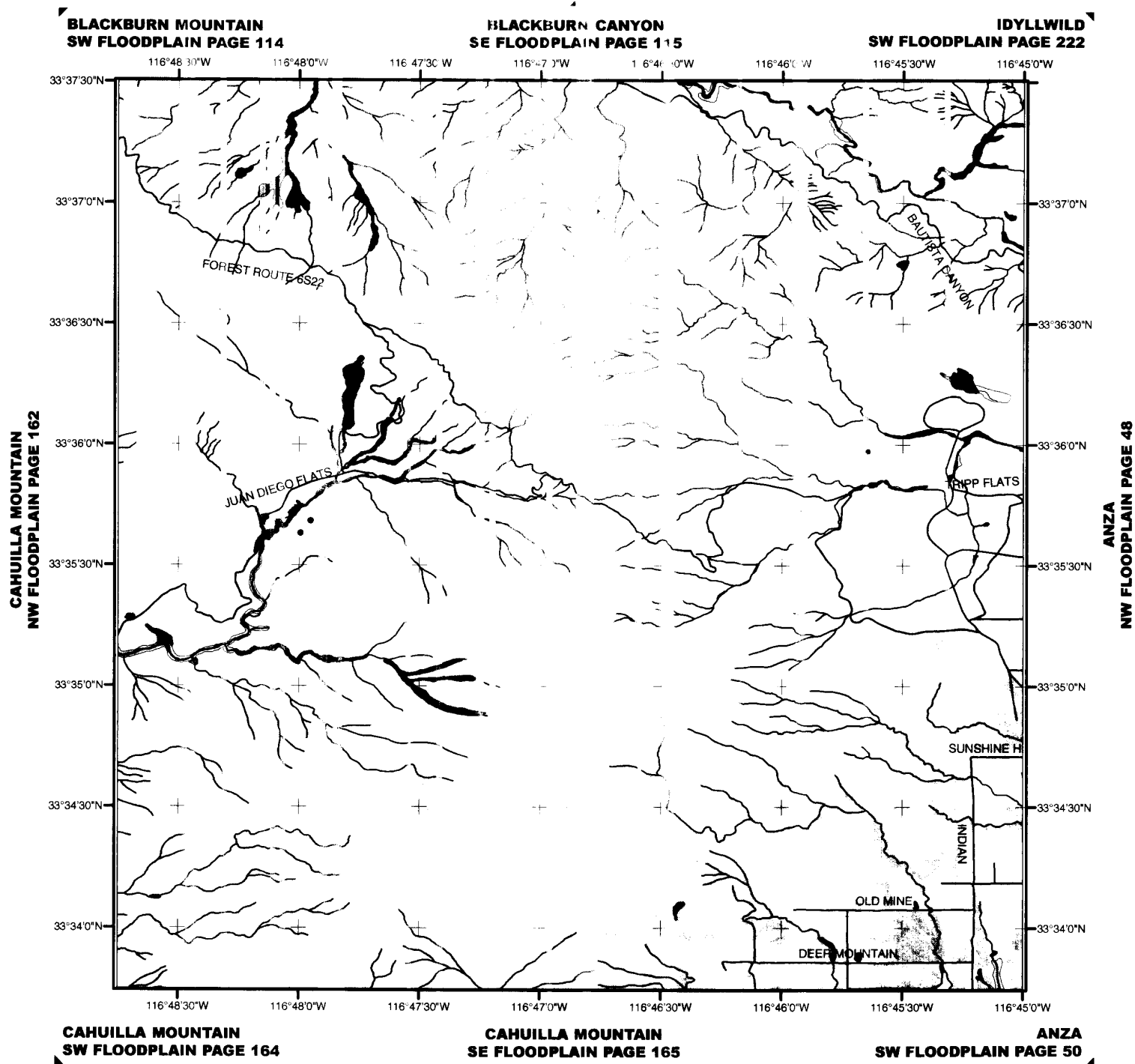
Hydrogeomorphic Floodplain Units for Aquatic Resources



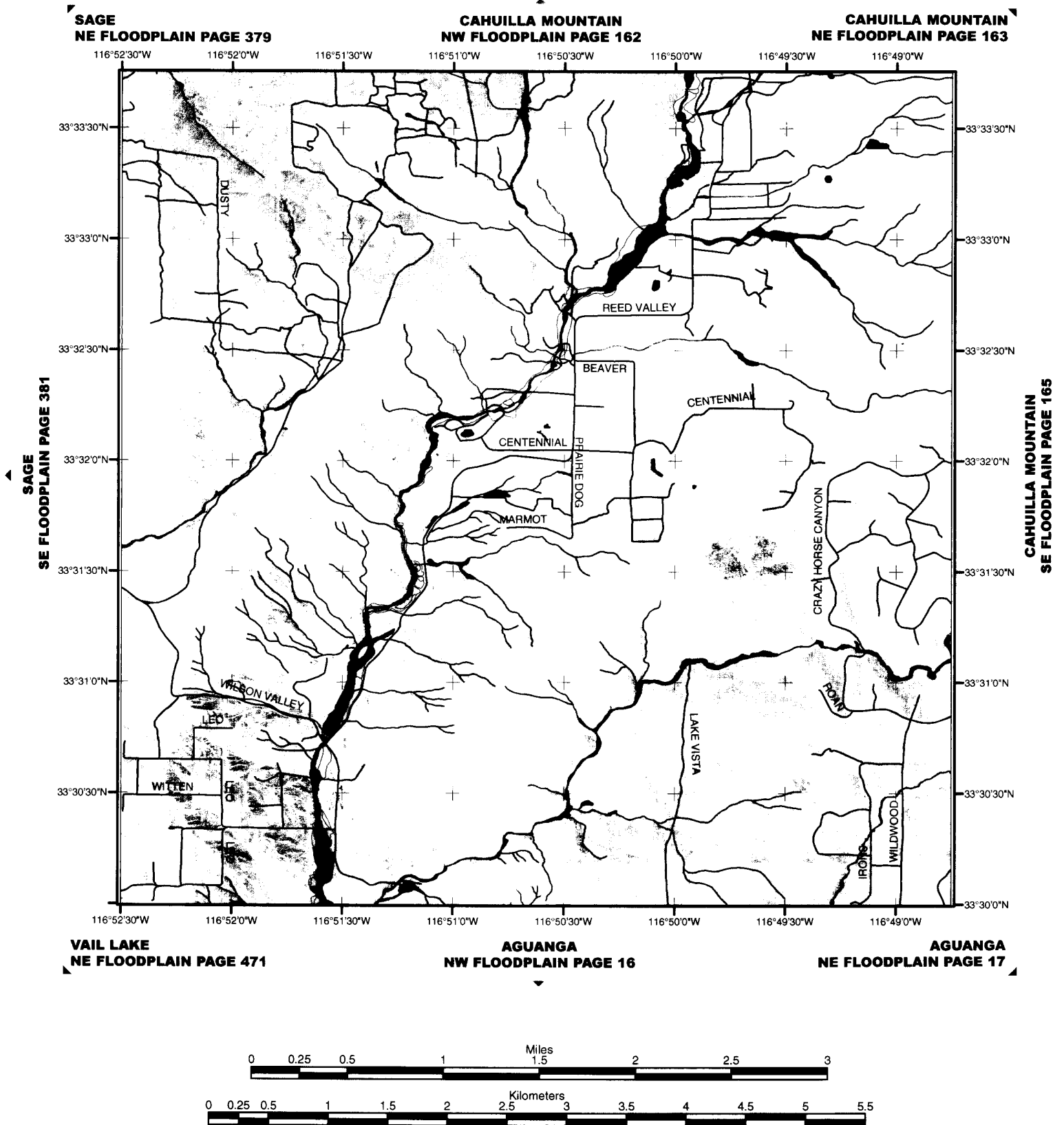
Cahuilla Mountain North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



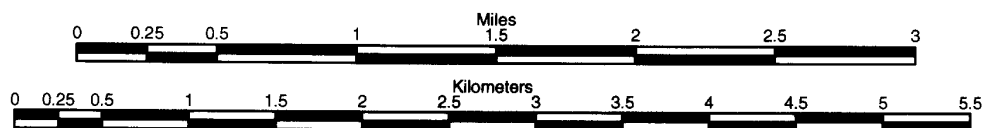
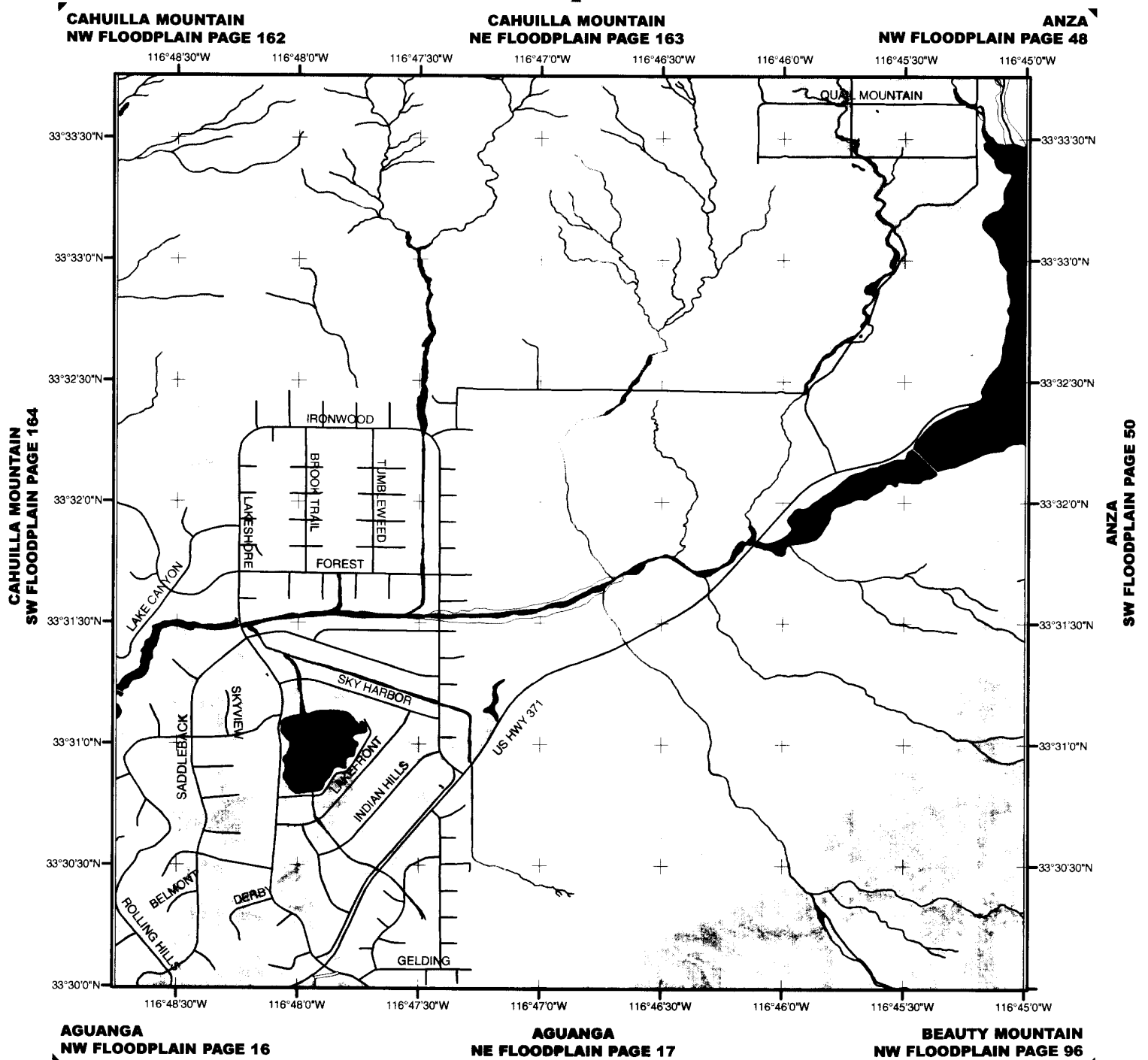
Cahuilla Mountain North East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



Cahuilla Mountain South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

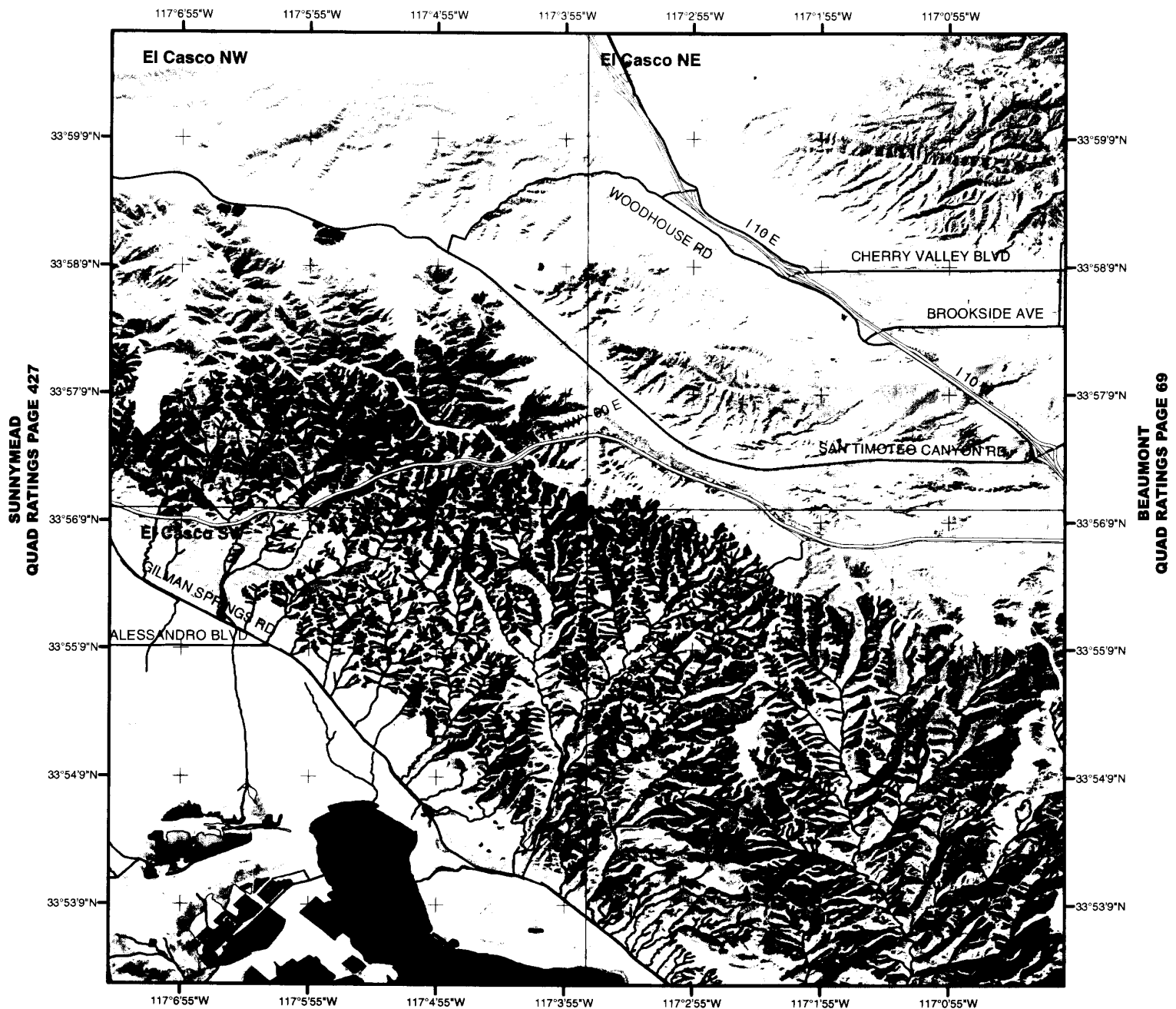


Cahuilla Mountain South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



El Casco Quadrangle

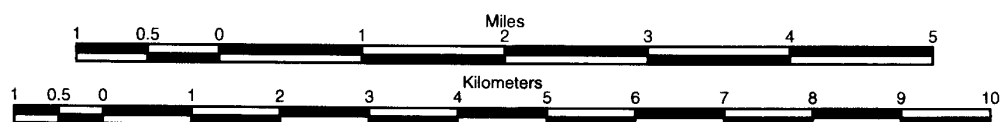
Regulatory Probability Ratings for Aquatic Resources



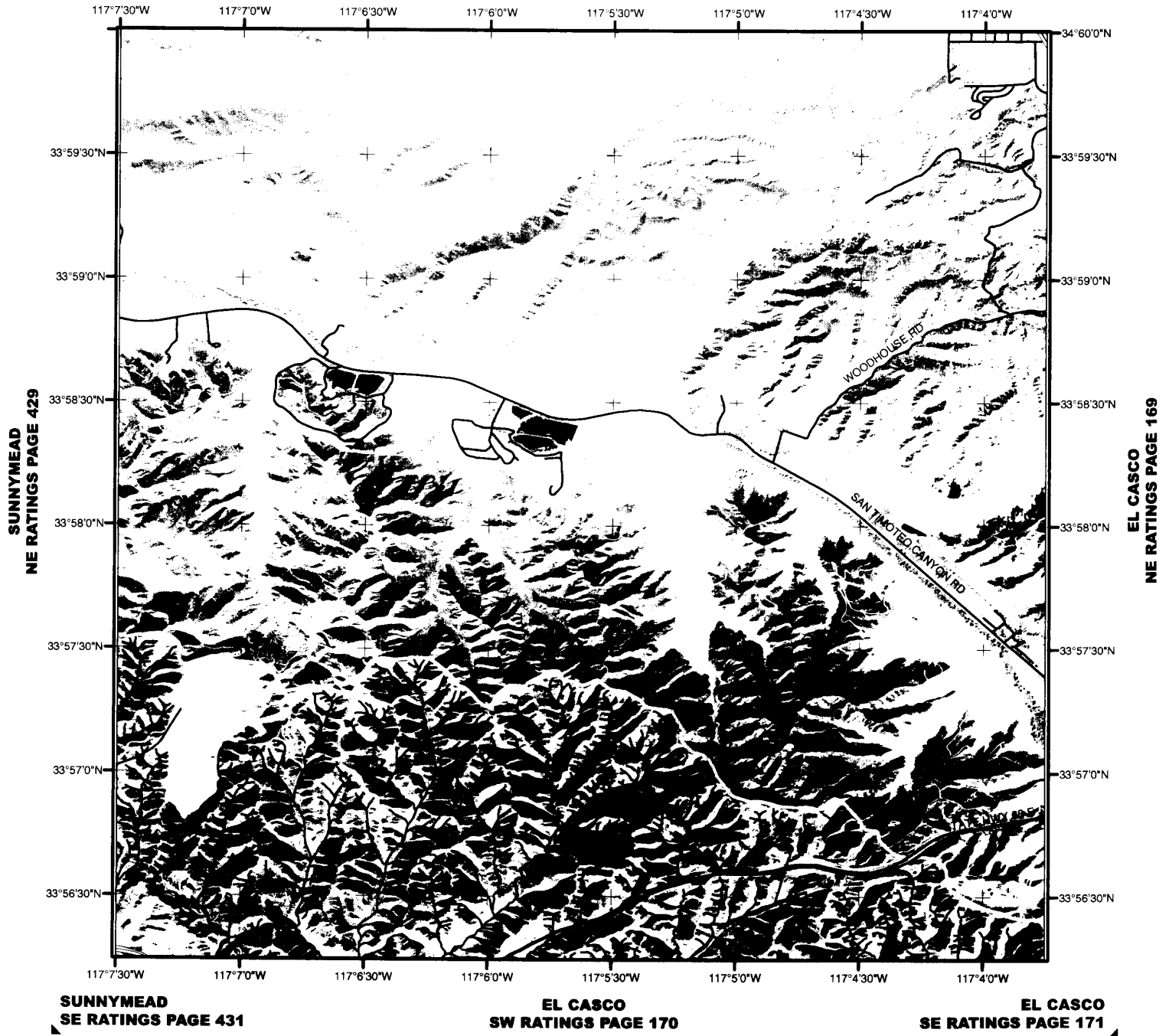
PERRIS
QUAD RATINGS PAGE 325

LAKEVIEW
QUAD RATINGS PAGE 257

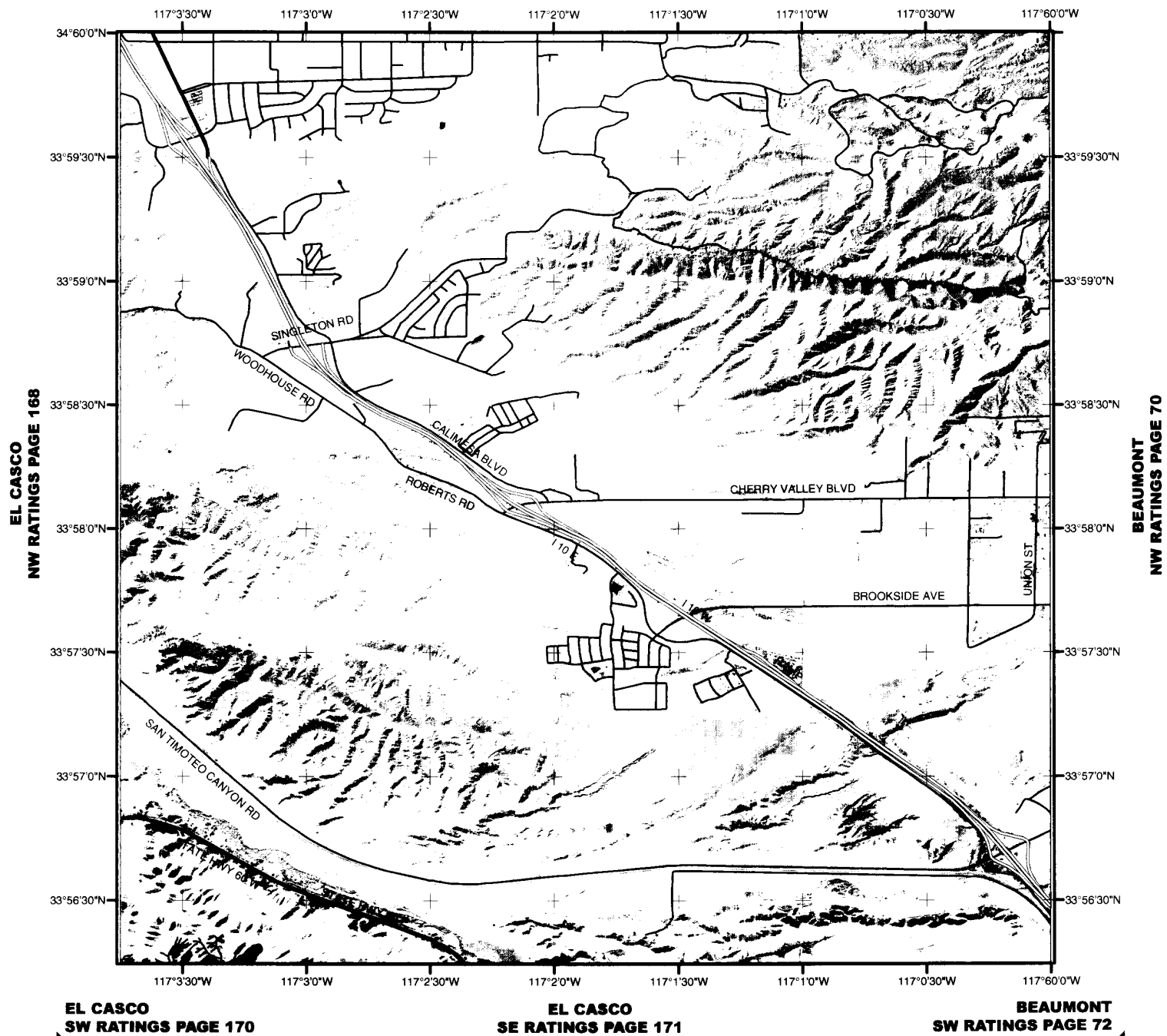
SAN JACINTO
QUAD RATINGS PAGE 383



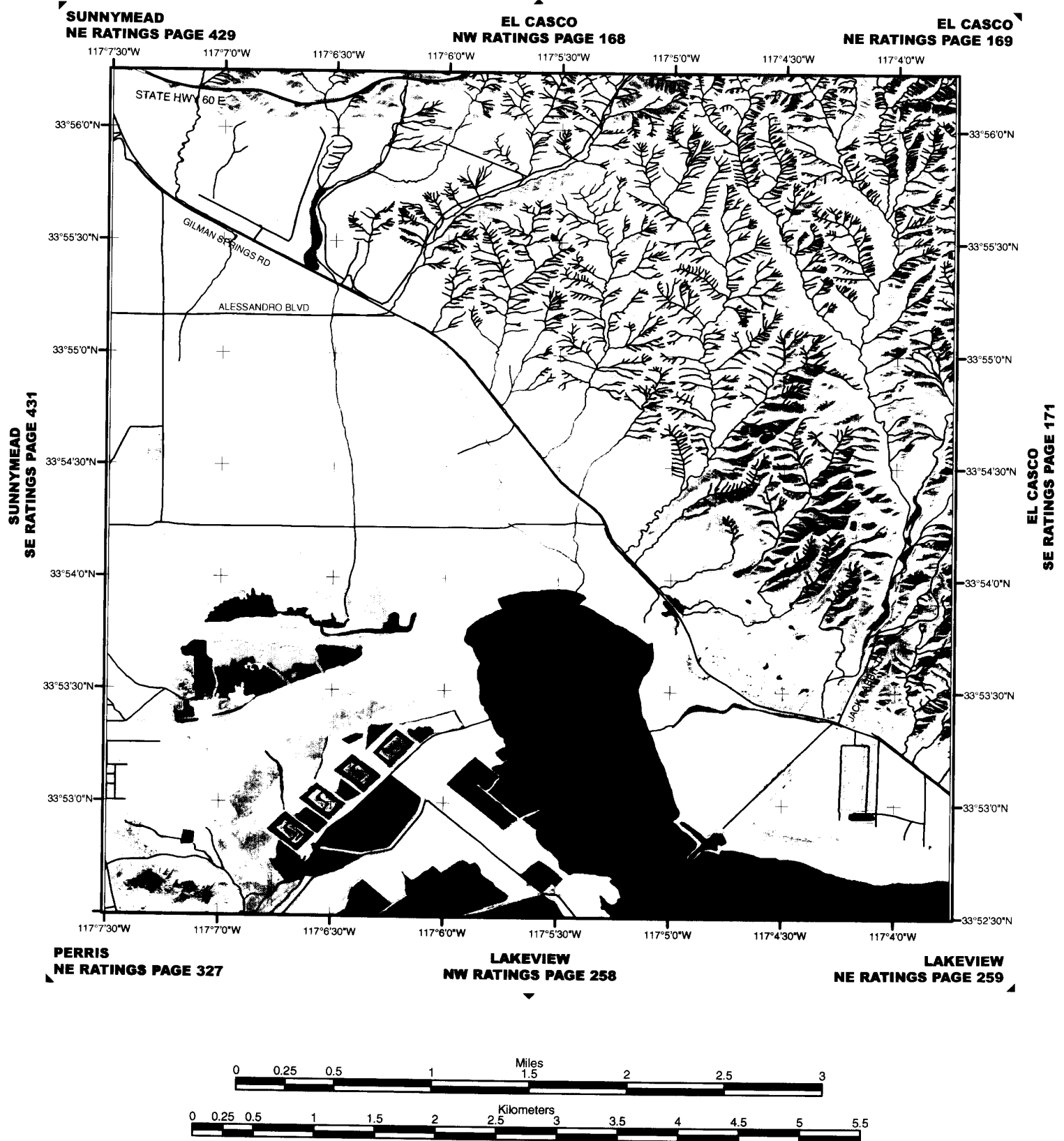
El Casco North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



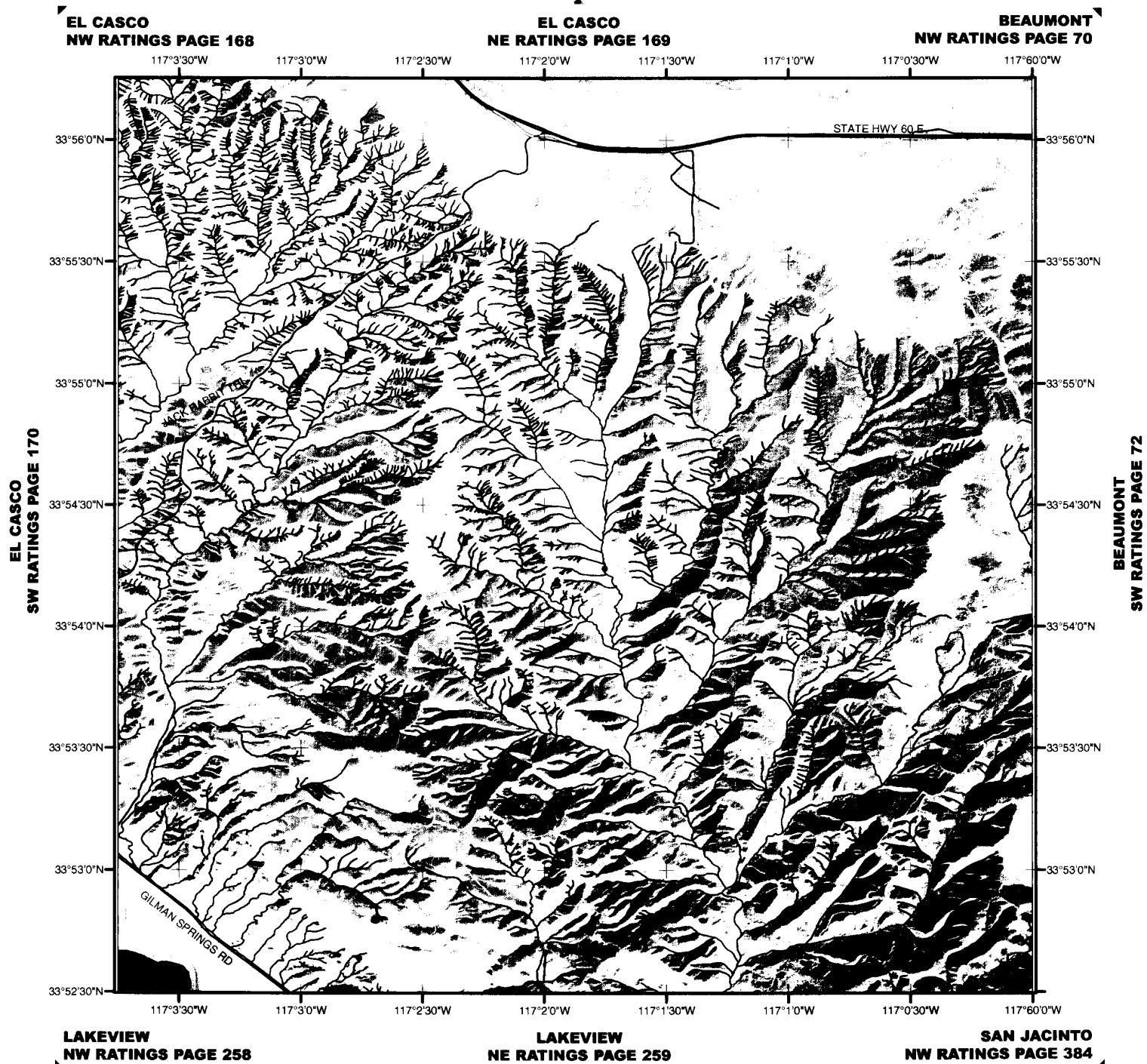
El Casco North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



El Casco South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

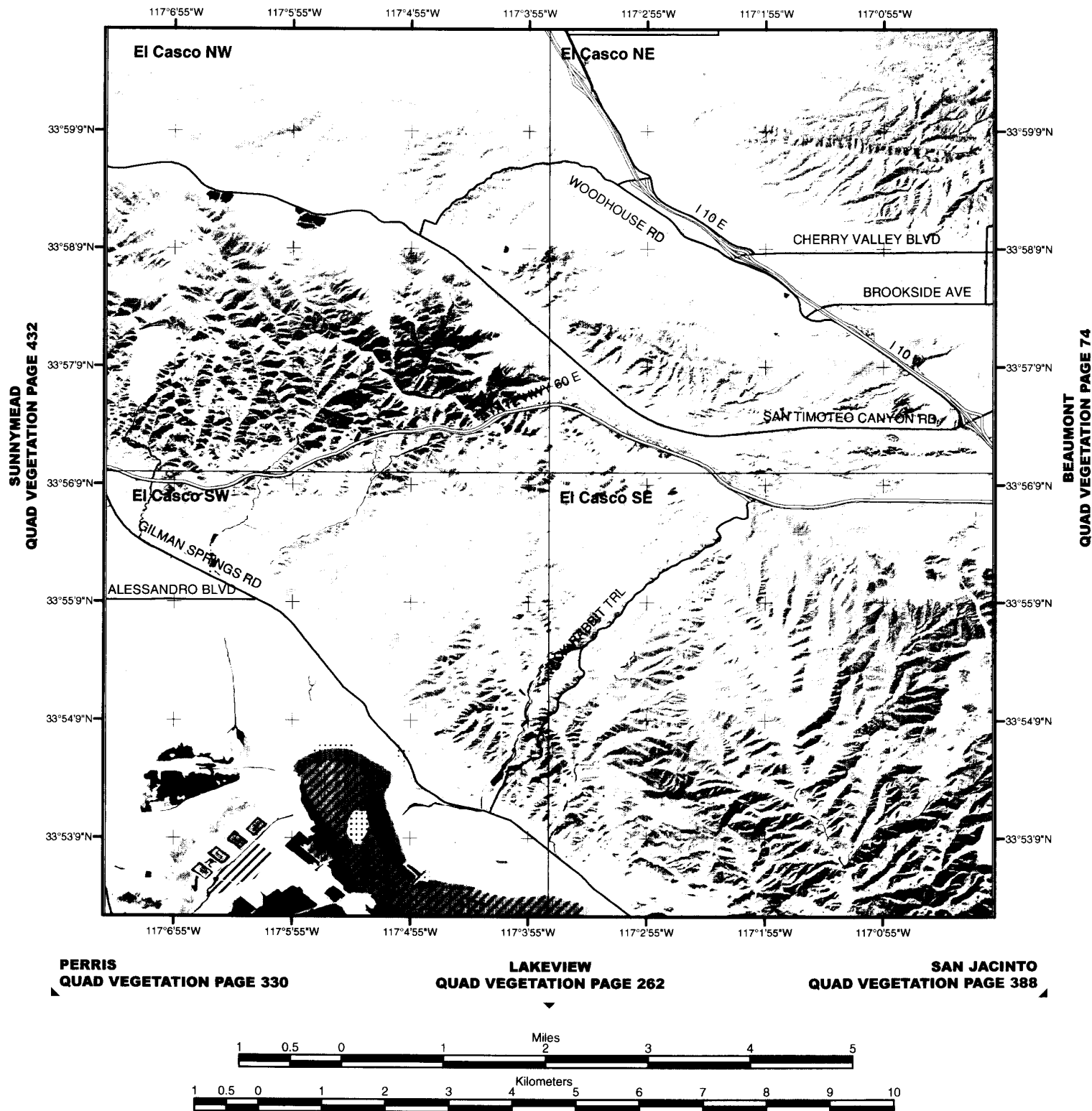


El Casco South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

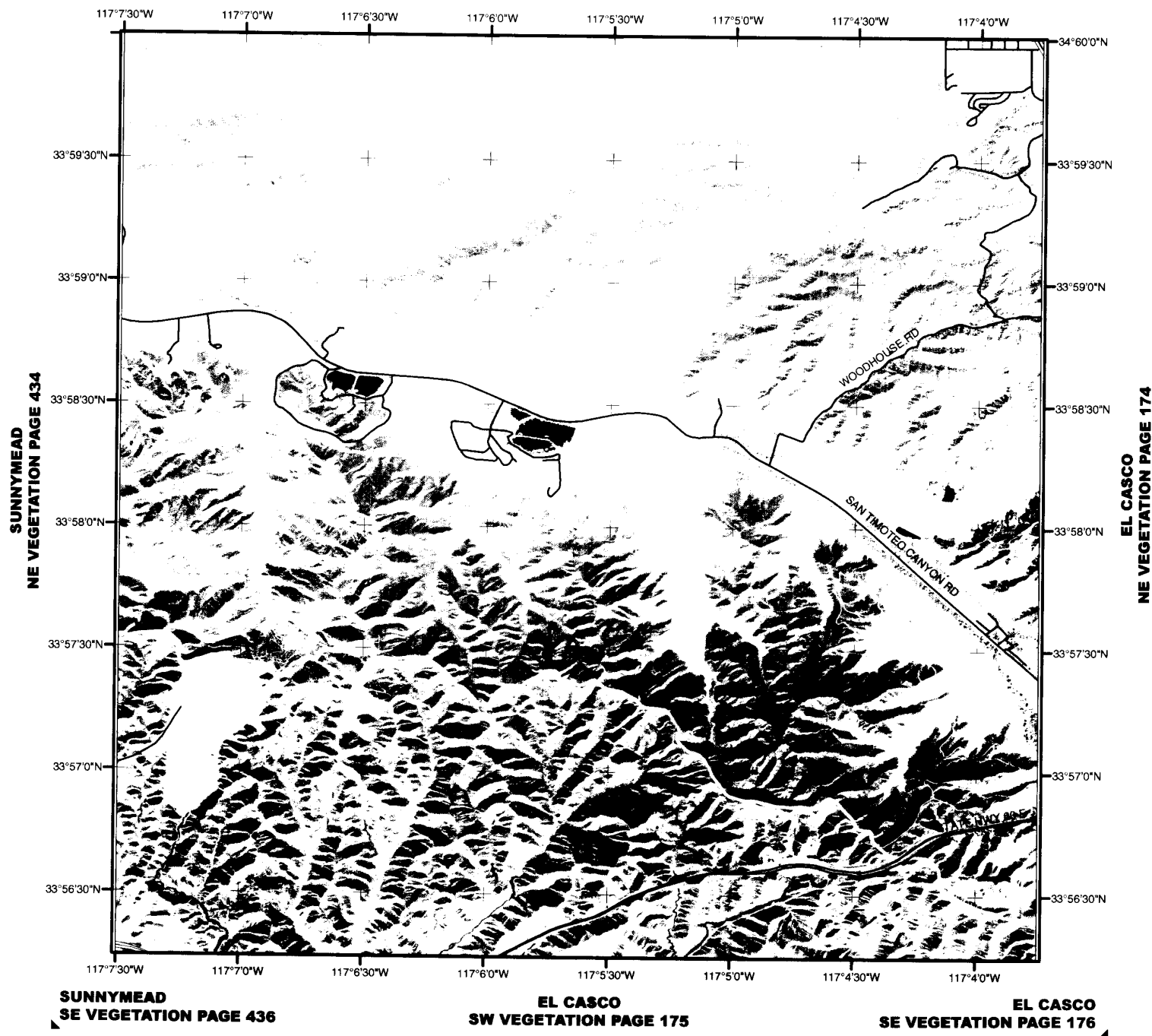


El Casco Quadrangle

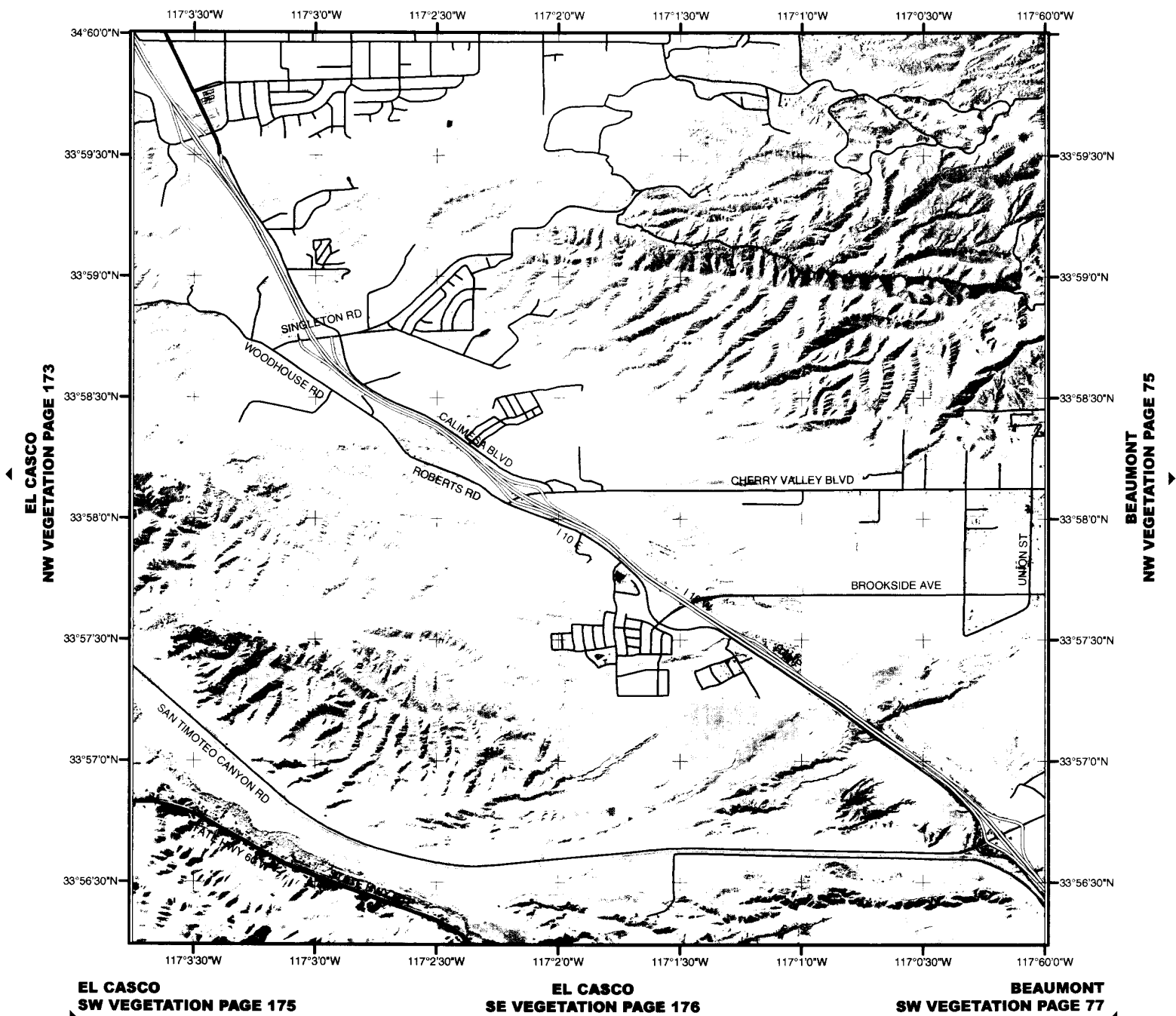
Vegetation Species Association Units for Aquatic Resources



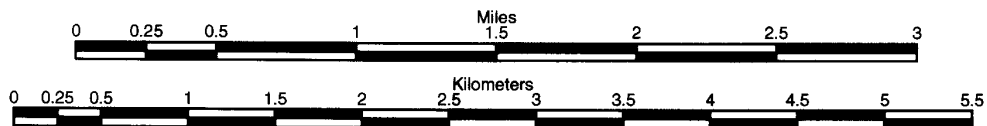
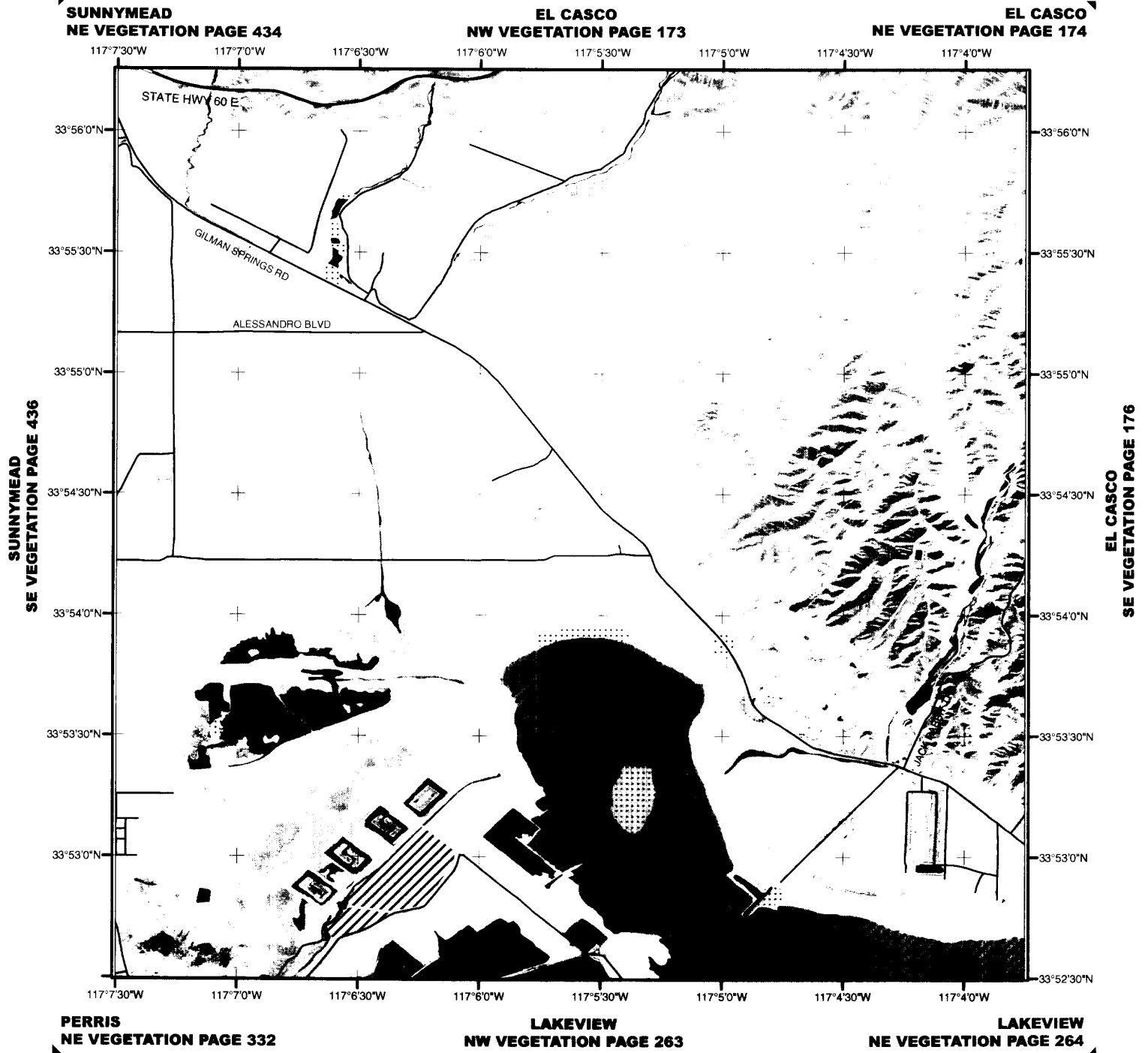
El Casco North West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



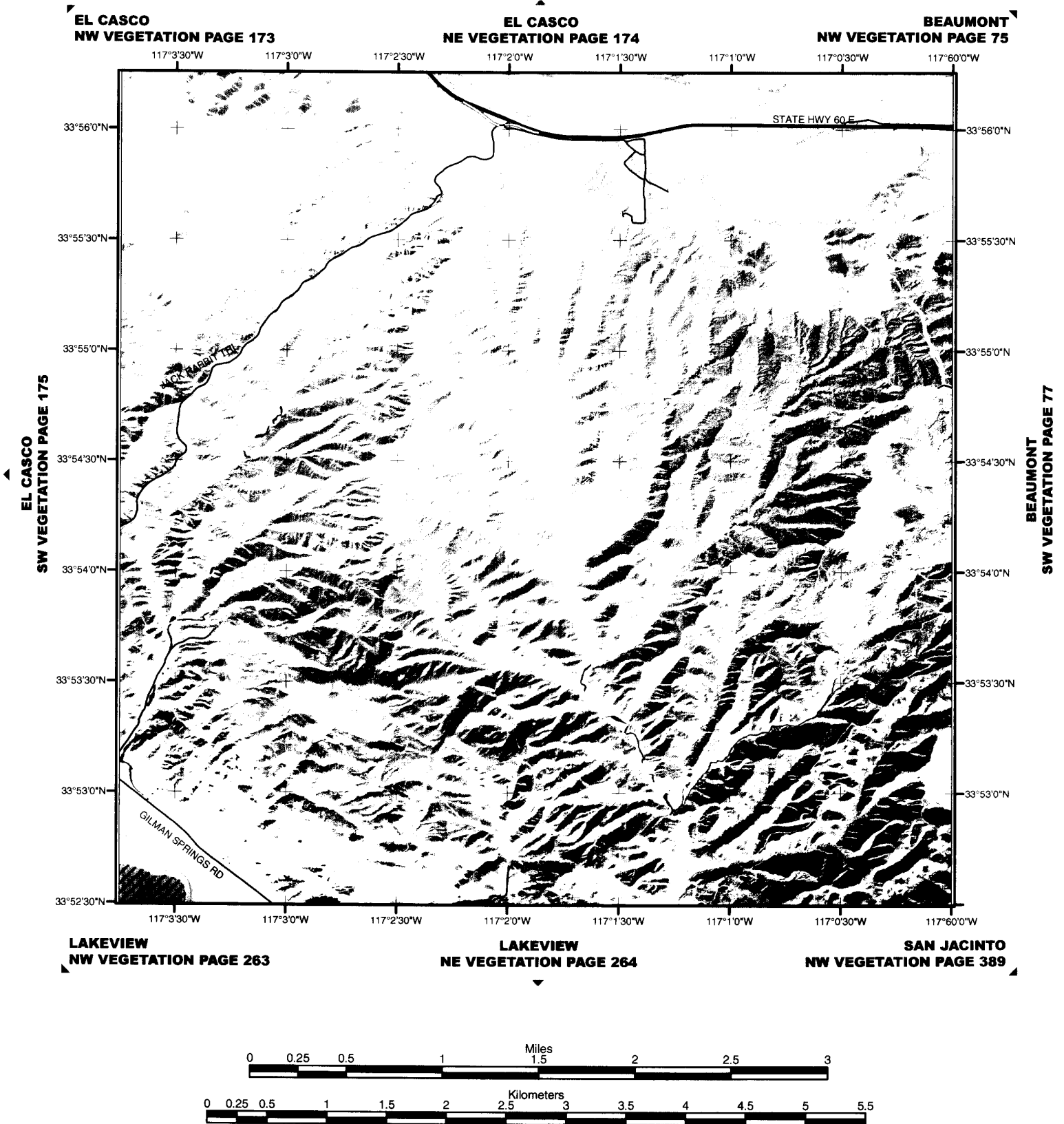
El Casco North East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



El Casco South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

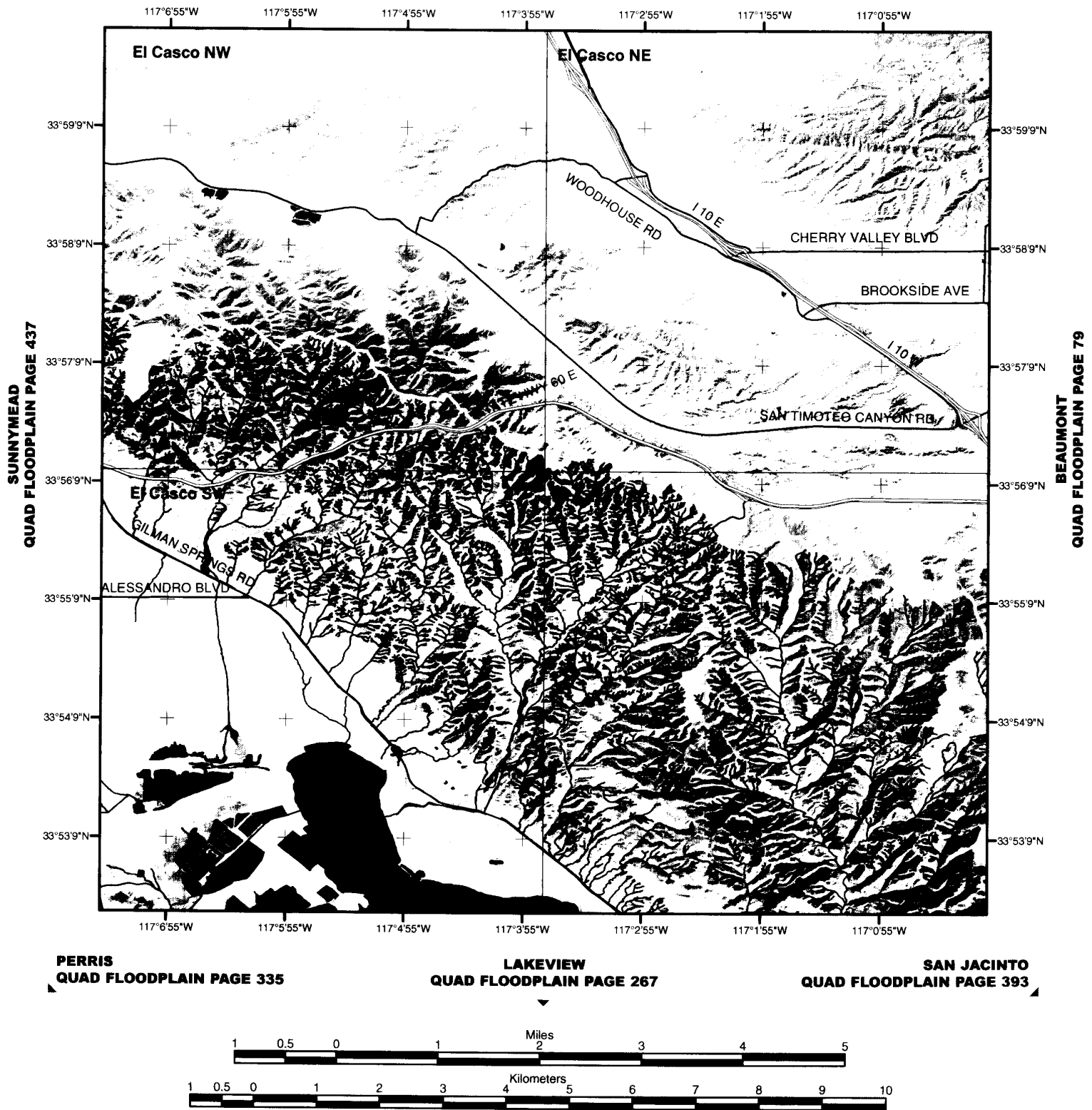


El Casco South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



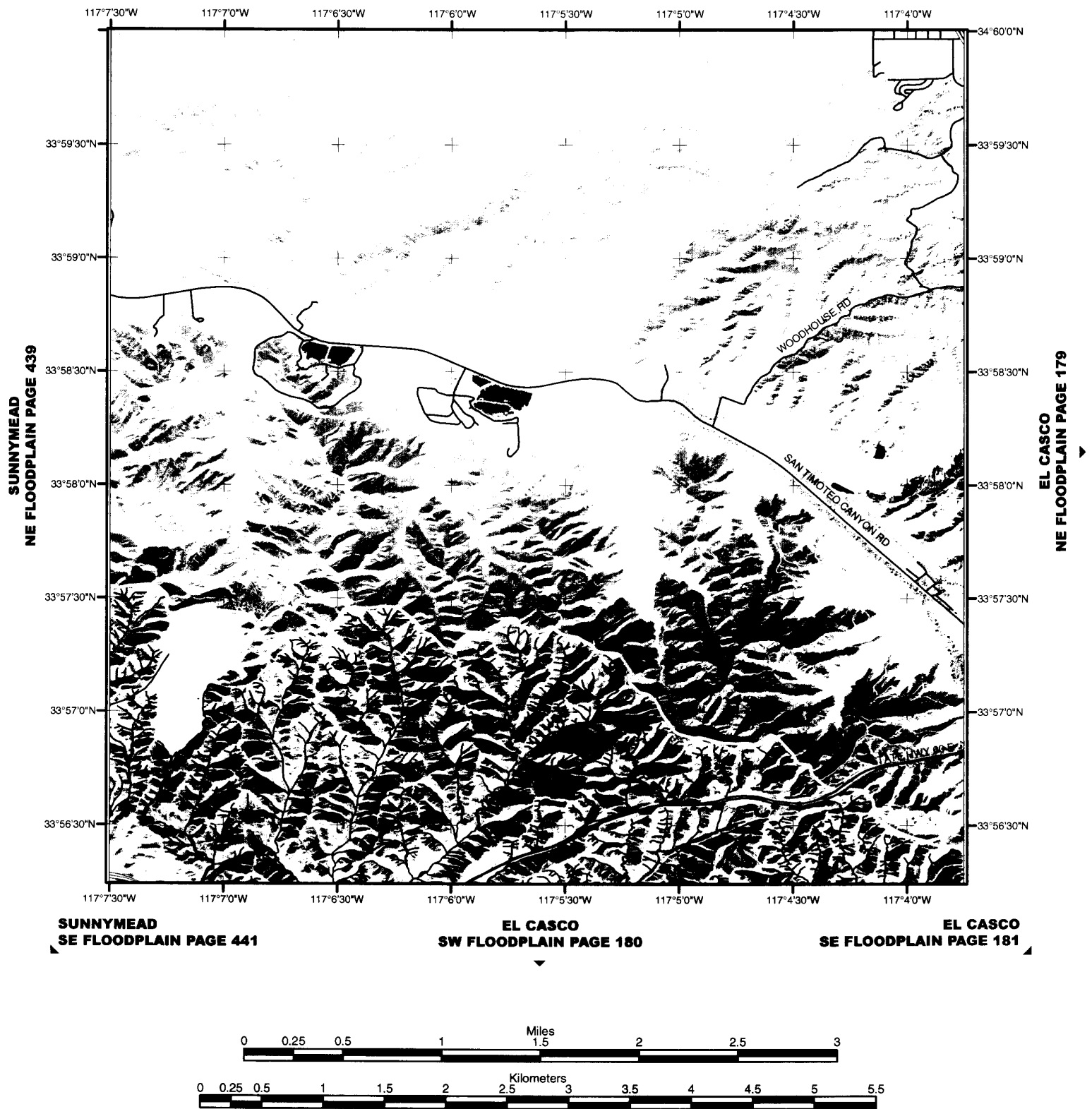
El Casco Quadrangle

Hydrogeomorphic Floodplain Units for Aquatic Resources



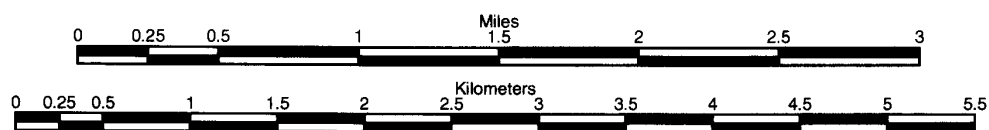
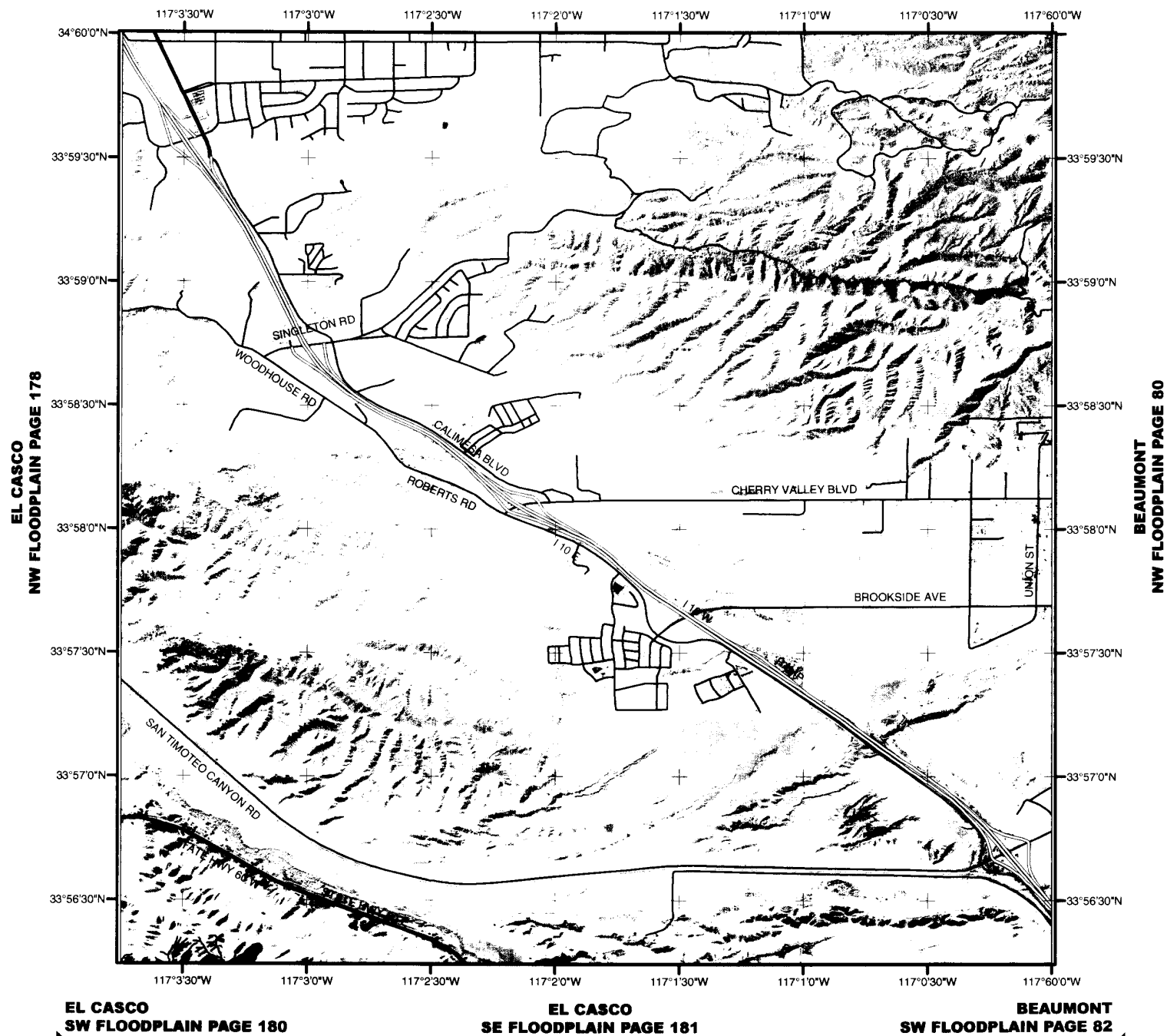
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Hydrogeomorphic Floodplain Units for Aquatic Resources

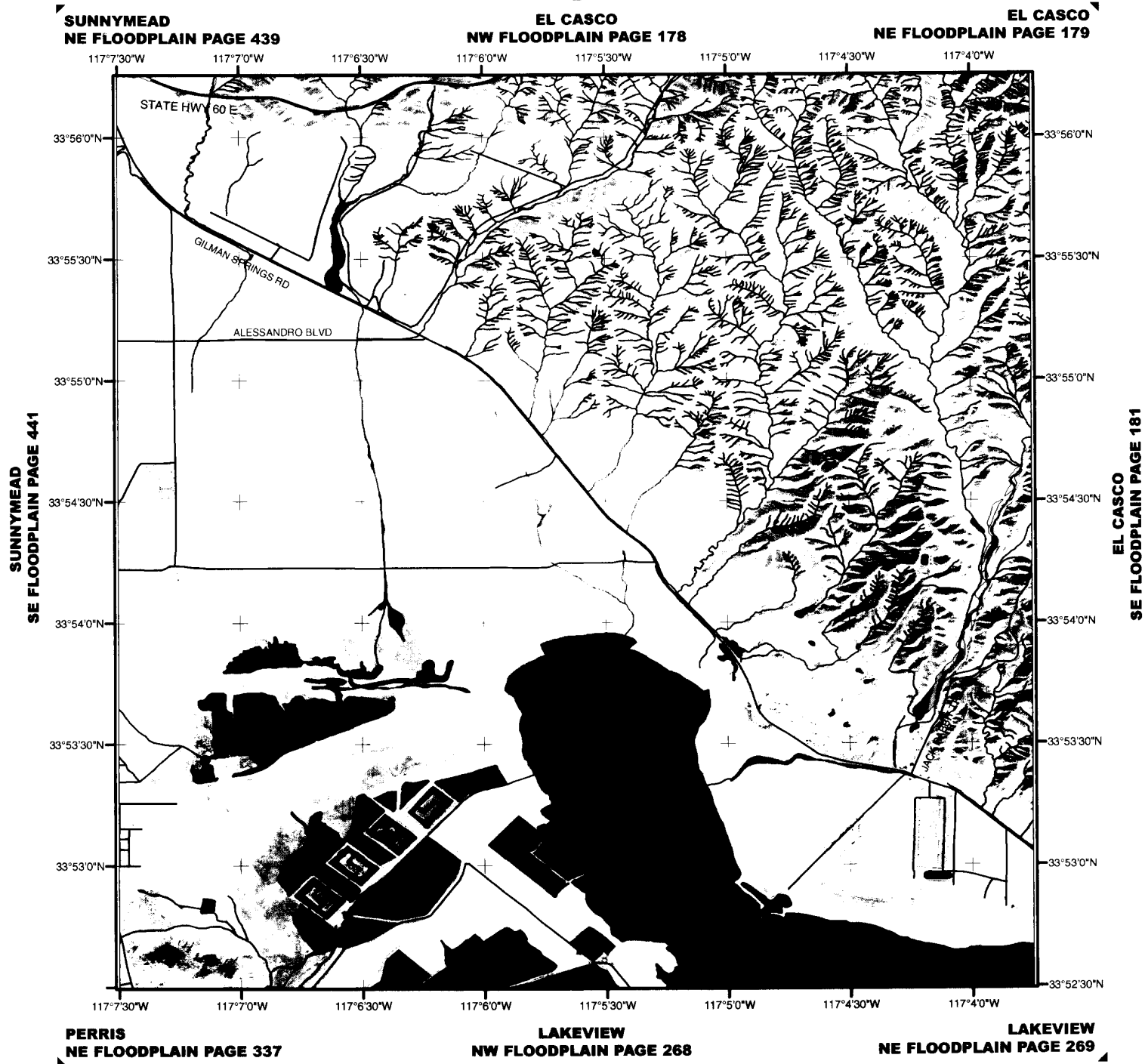


El Casco North East Quarter-Quadrangle

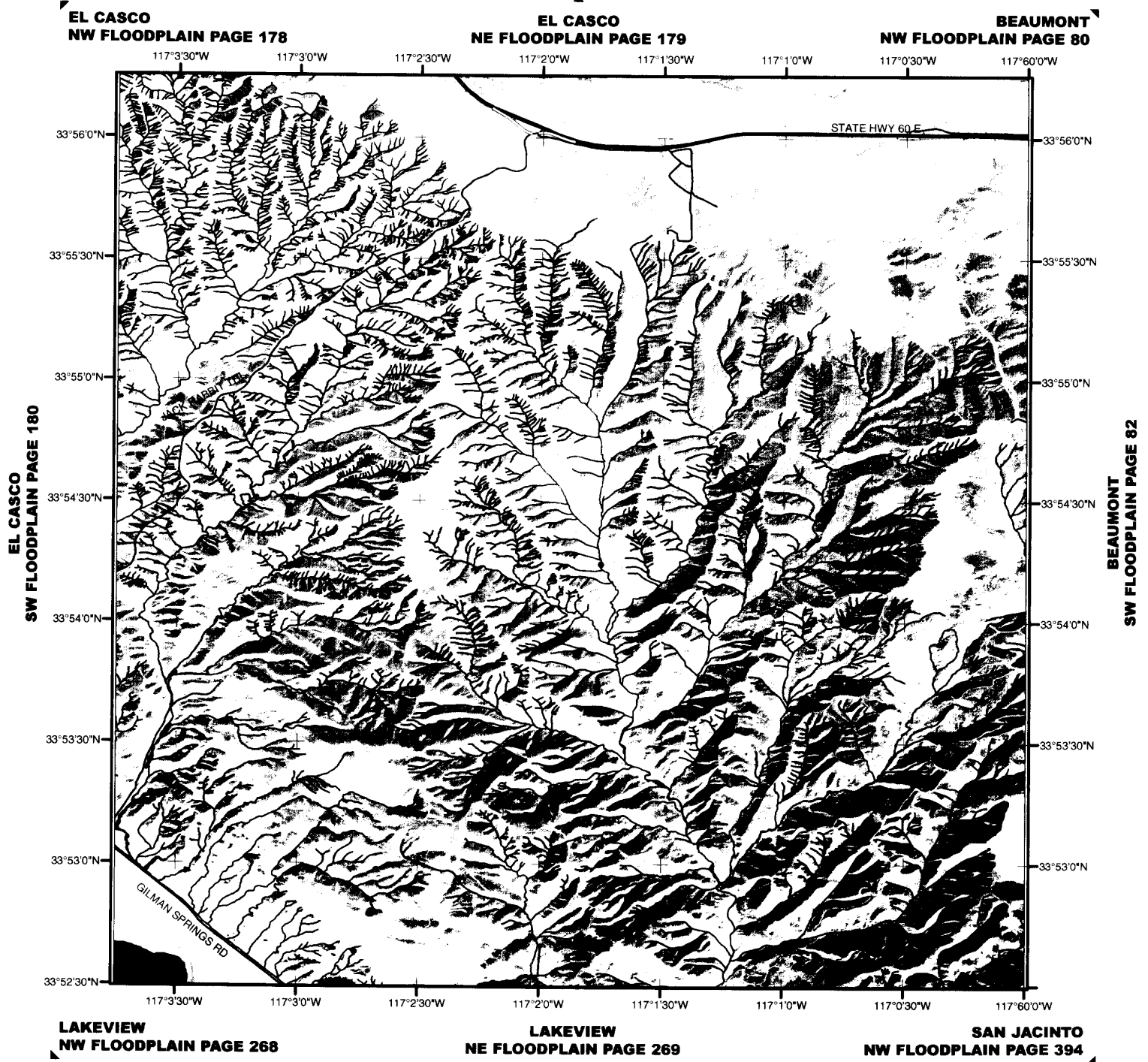
Hydrogeomorphic Floodplain Units for Aquatic Resources



El Casco South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



El Casco South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

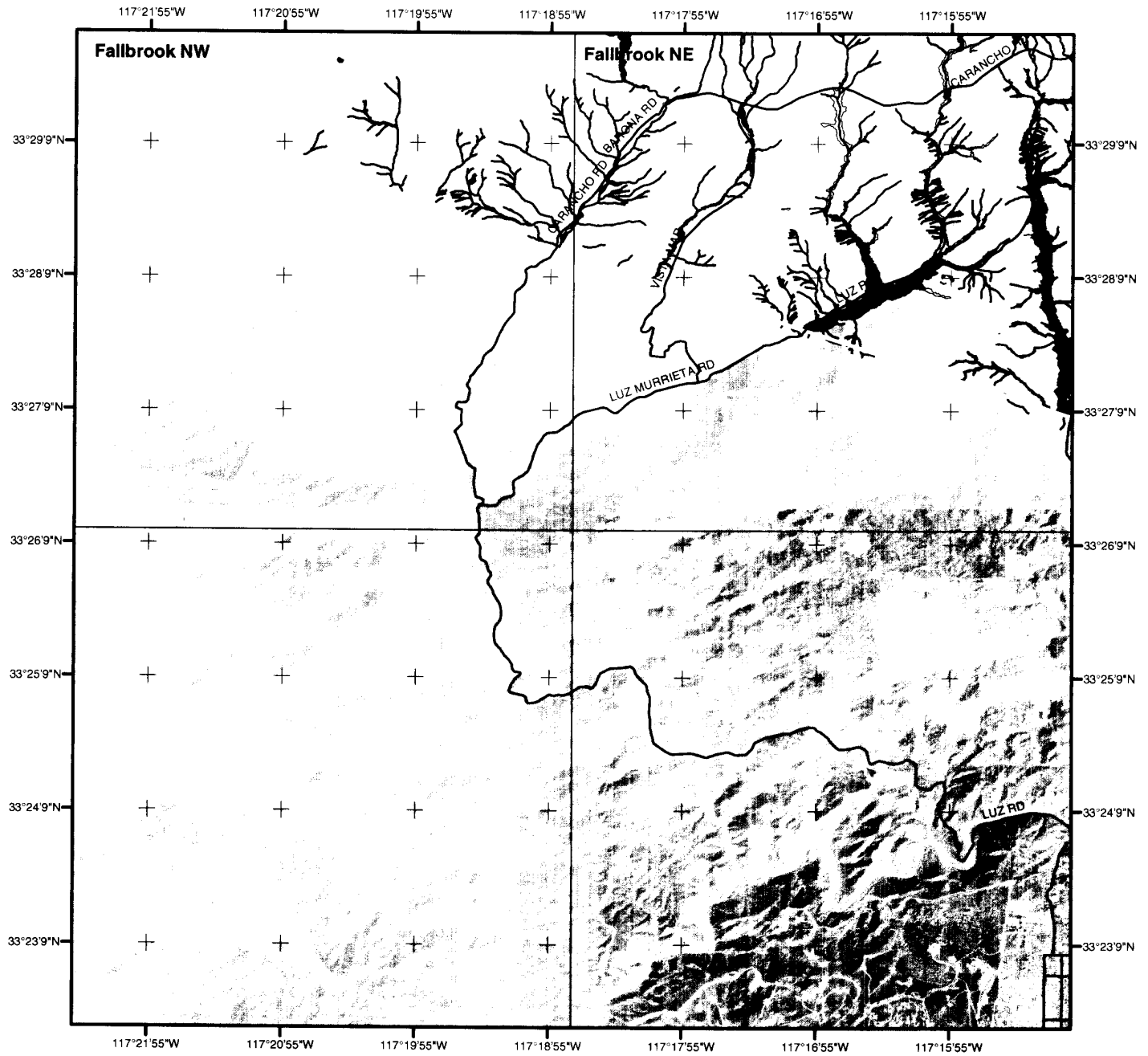


Fallbrook Quadrangle

Regulatory Probability Ratings for Aquatic Resources

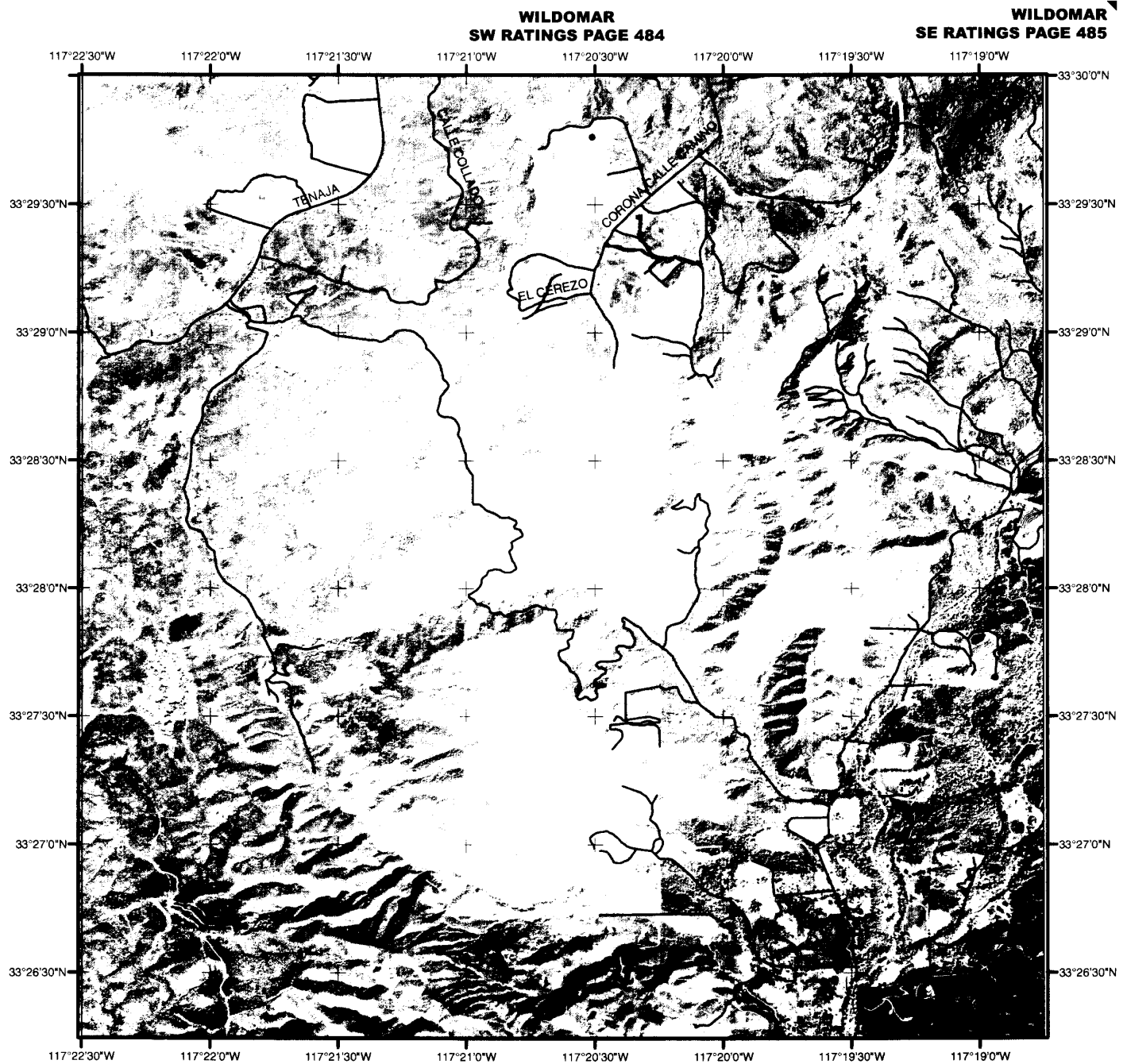
WILDOMAR
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MURRIETA
QUAD RATINGS PAGE 273



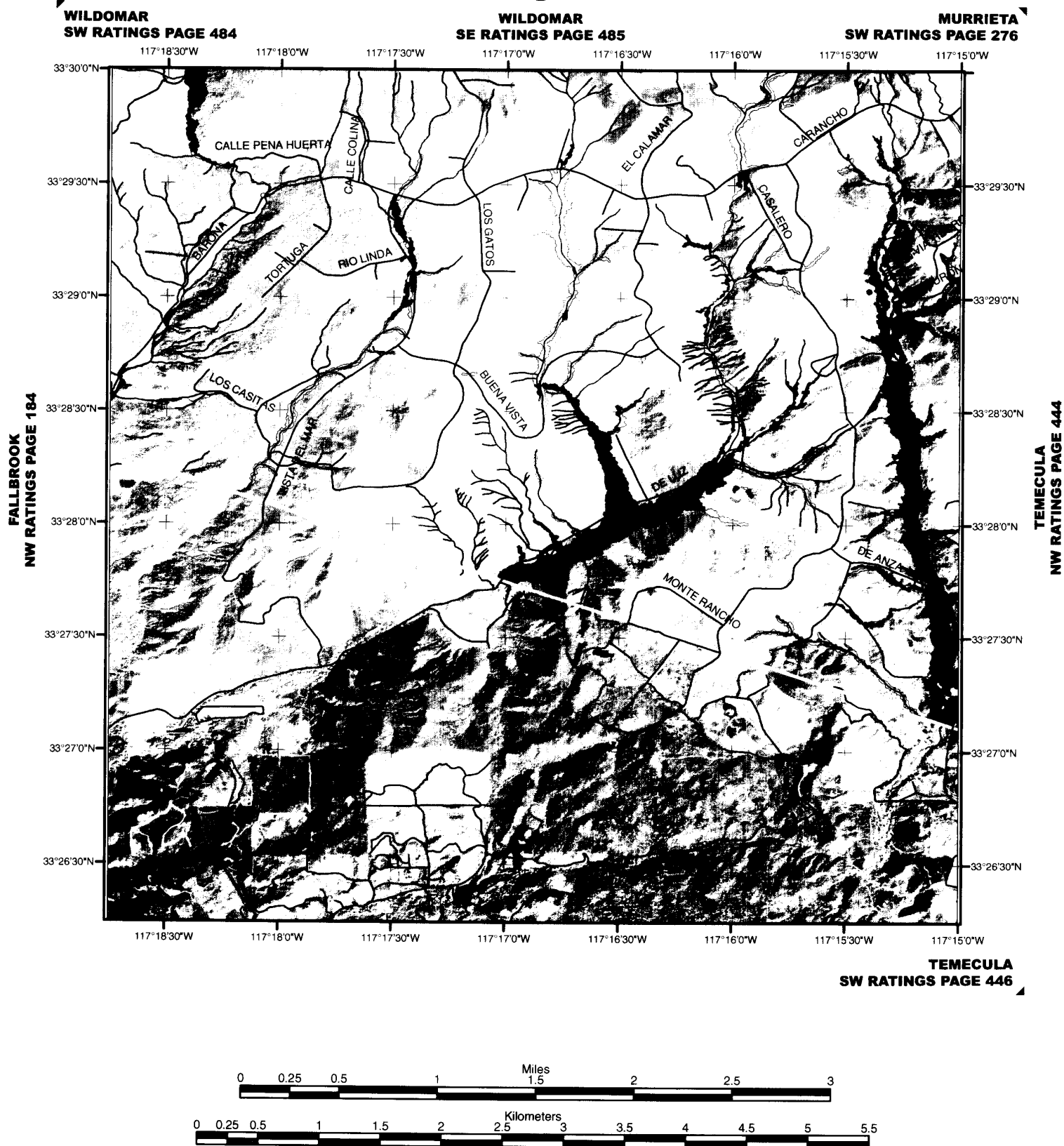
TEMECULA
QUAD RATINGS PAGE 443

Fallbrook North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



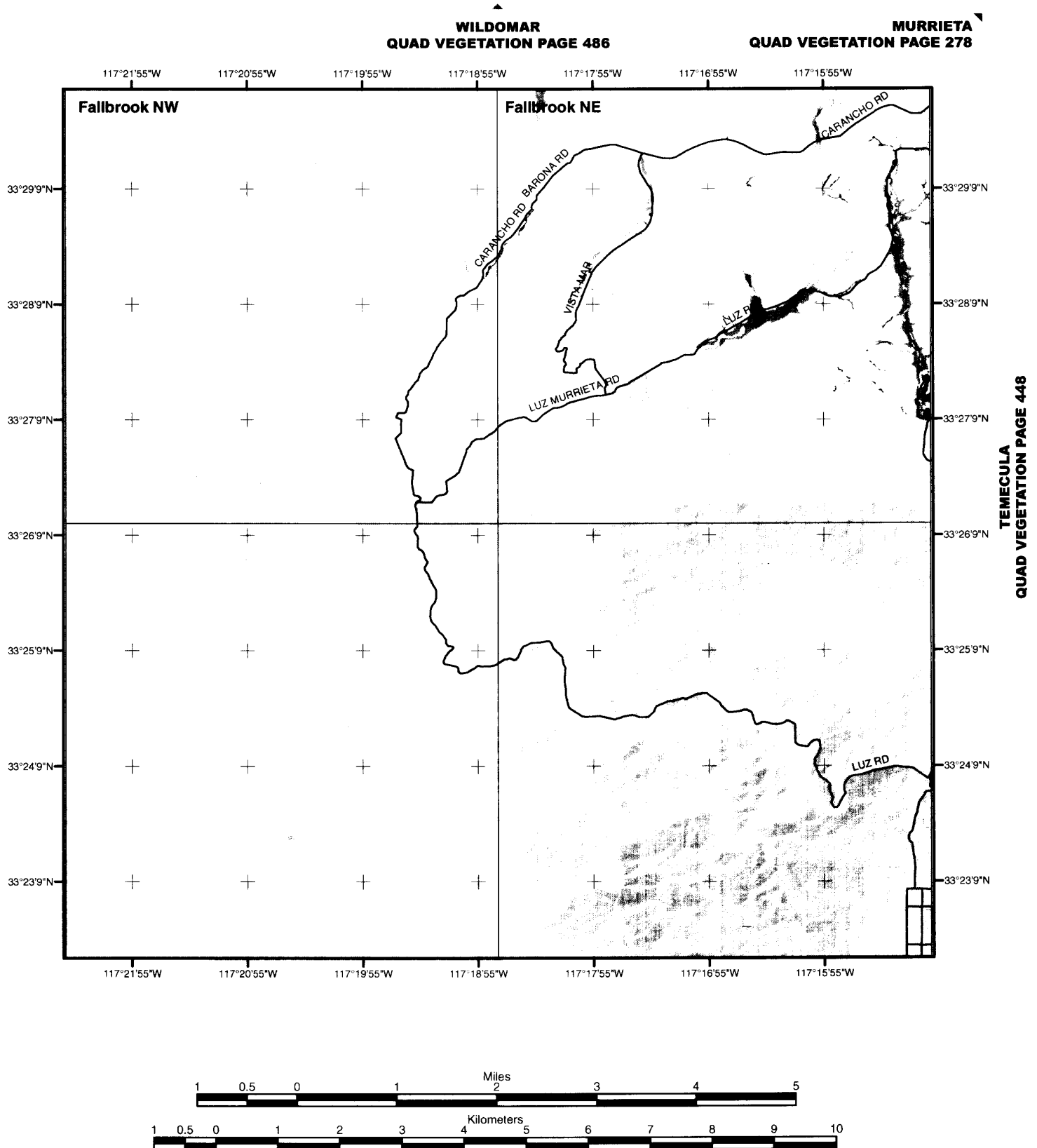
FALLBROOK
NE RATINGS PAGE 185

Fallbrook North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

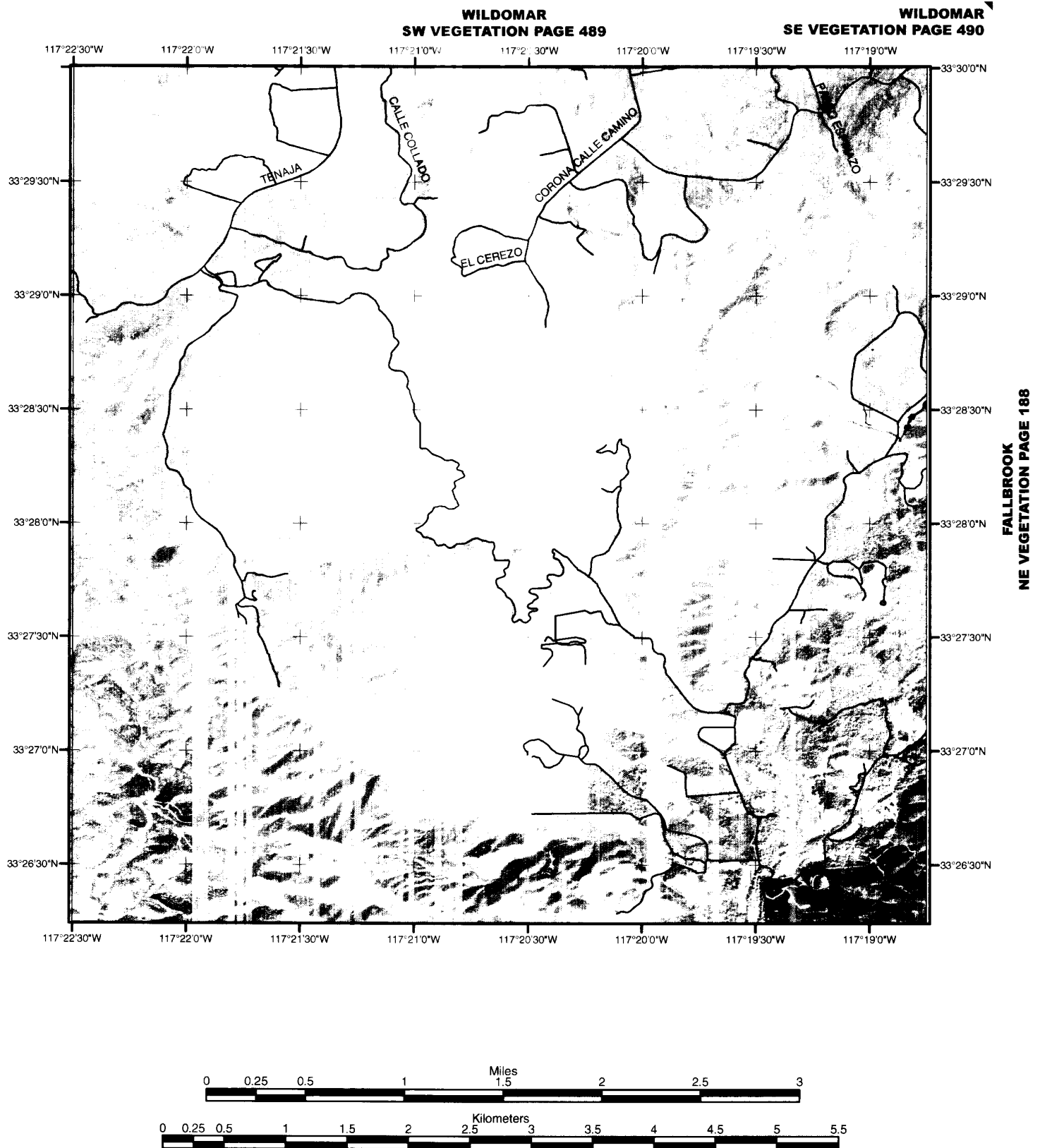


Fallbrook Quadrangle

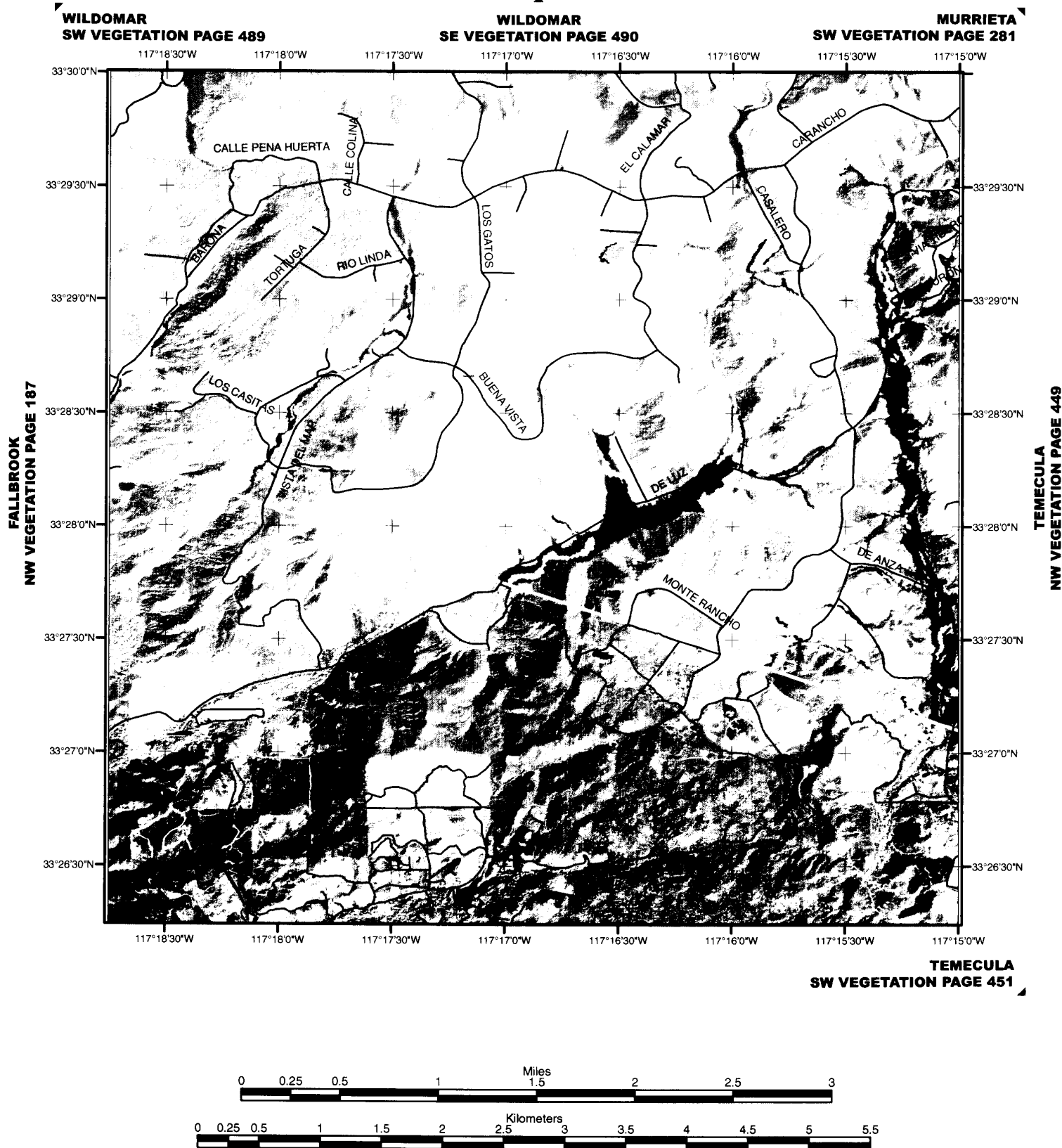
Vegetation Species Association Units for Aquatic Resources



Fallbrook North West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

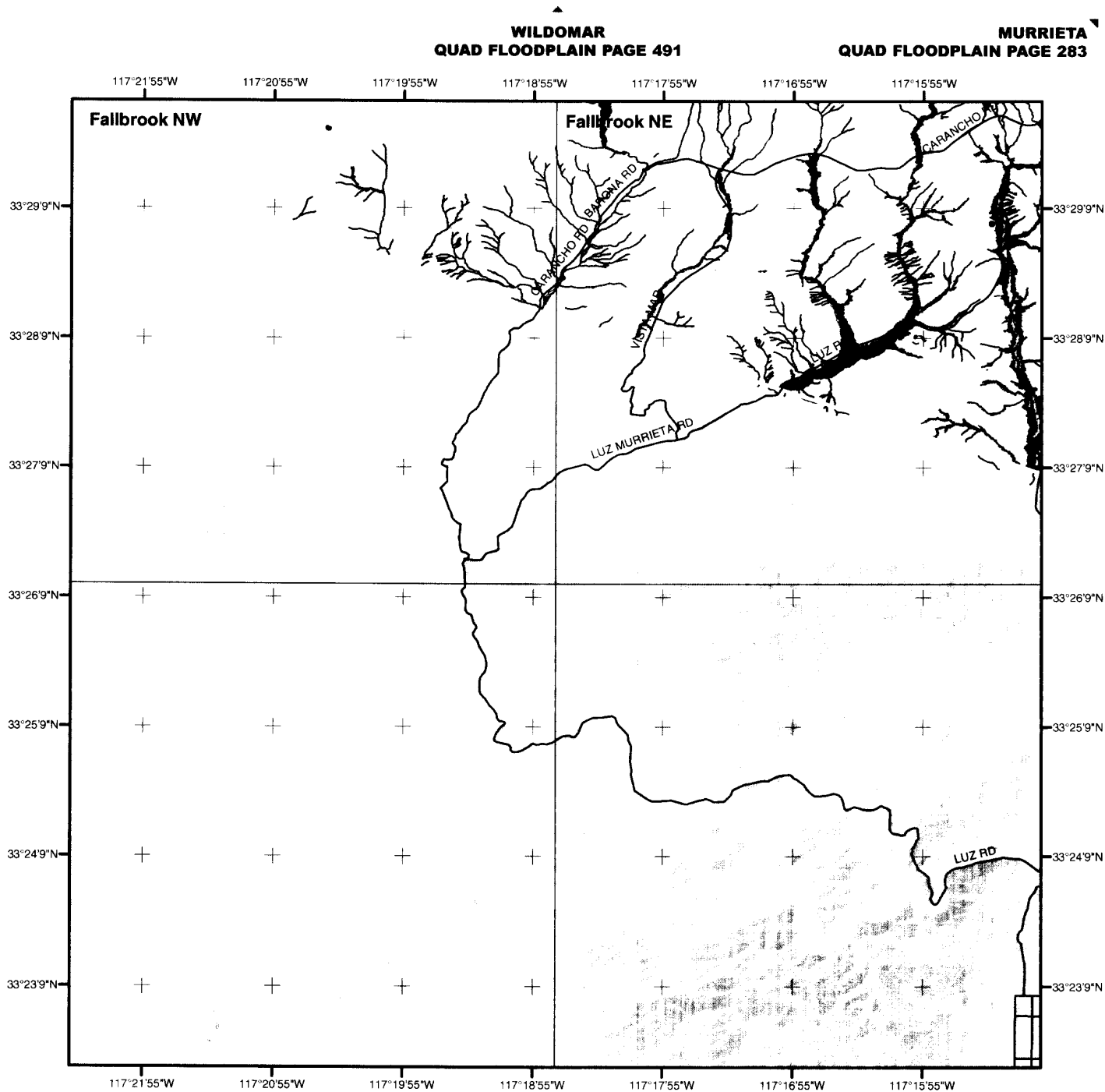


Fallbrook North East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

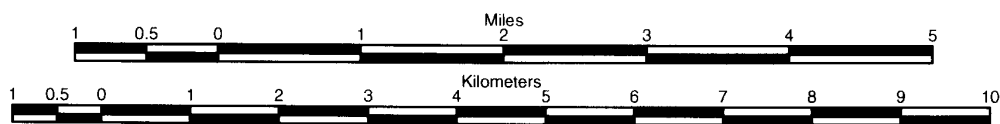


Fallbrook Quadrangle

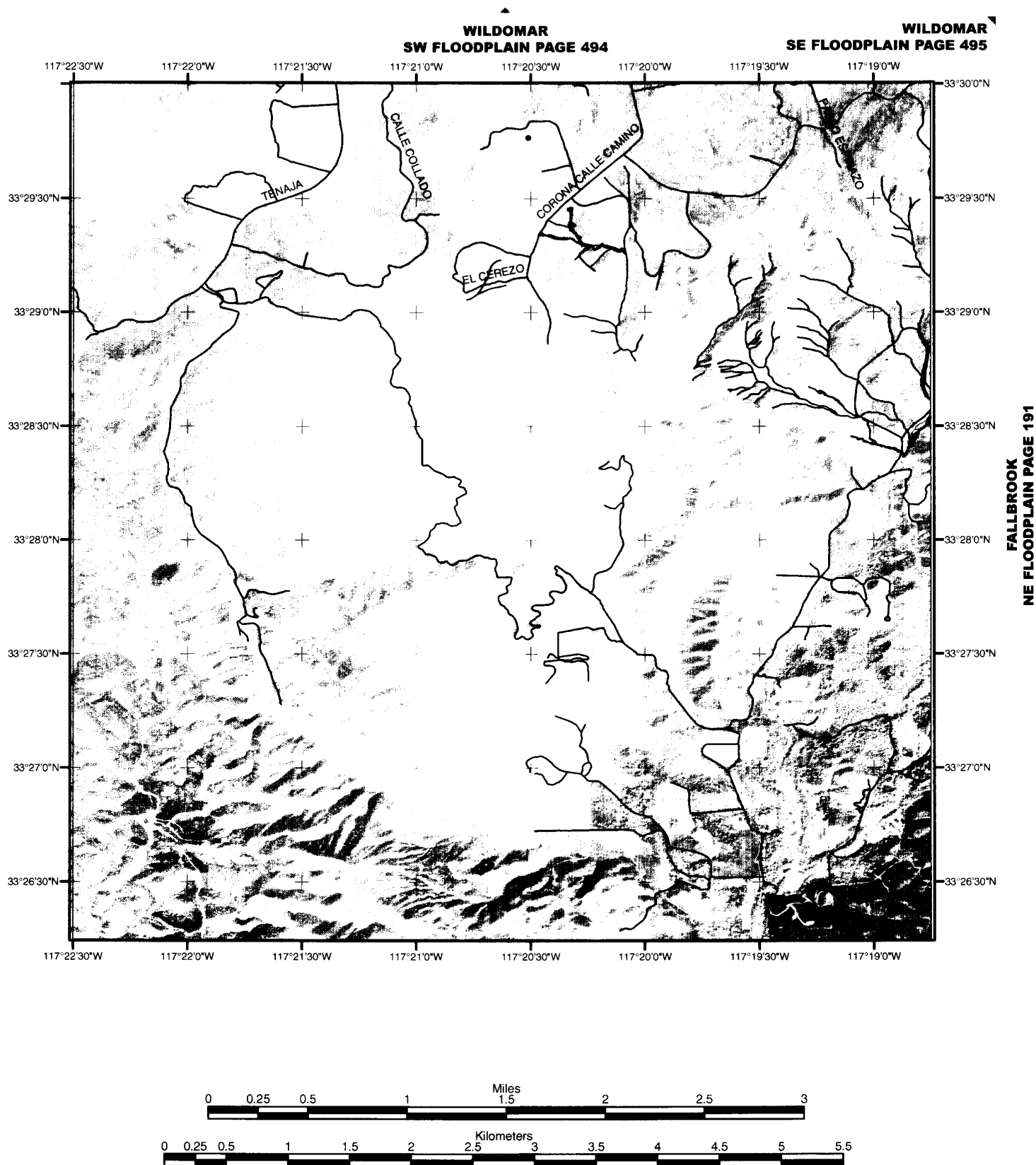
Hydrogeomorphic Floodplain Units for Aquatic Resources



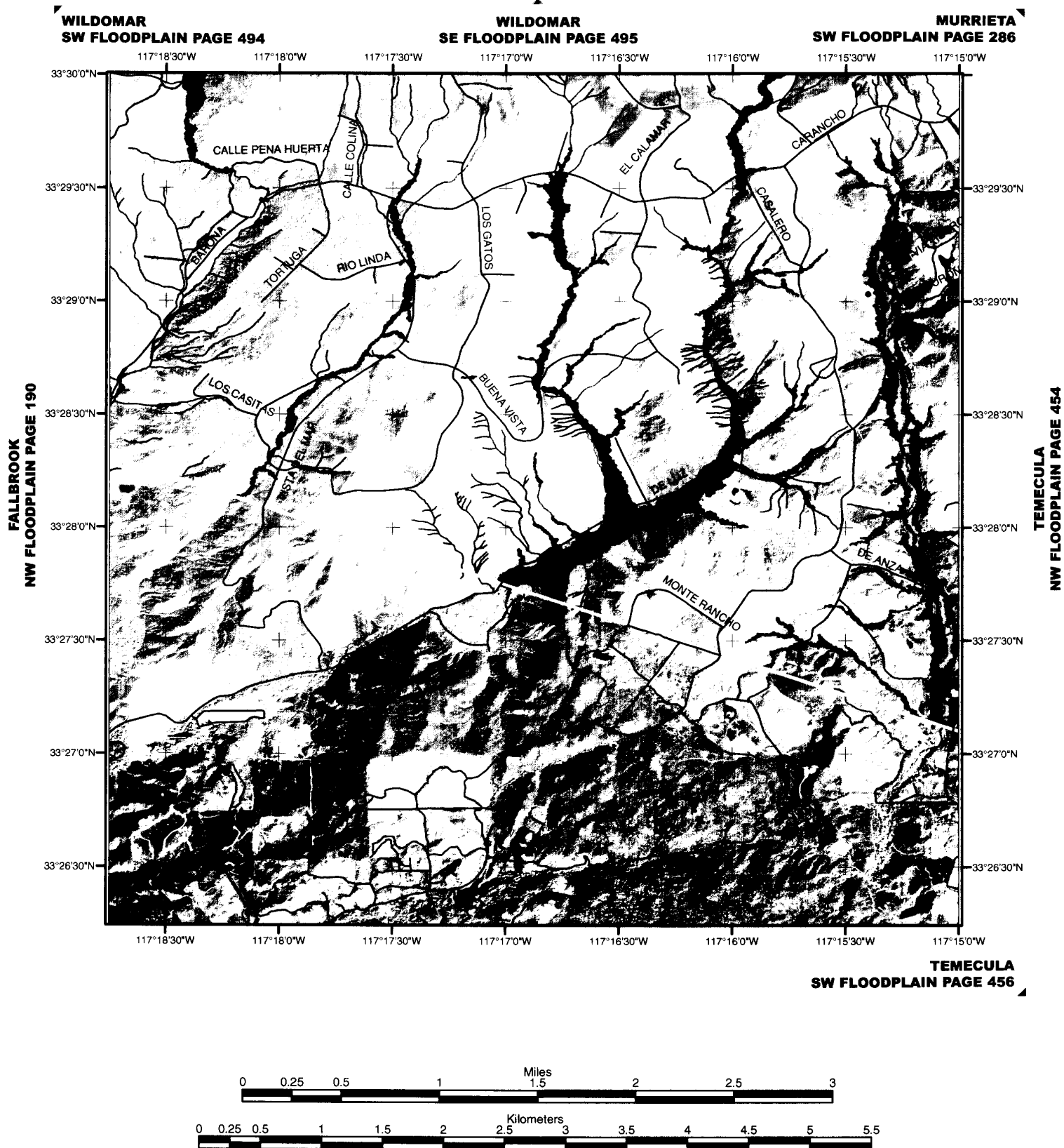
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QUAD FLOODPLAIN PAGE 453



Fallbrook North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

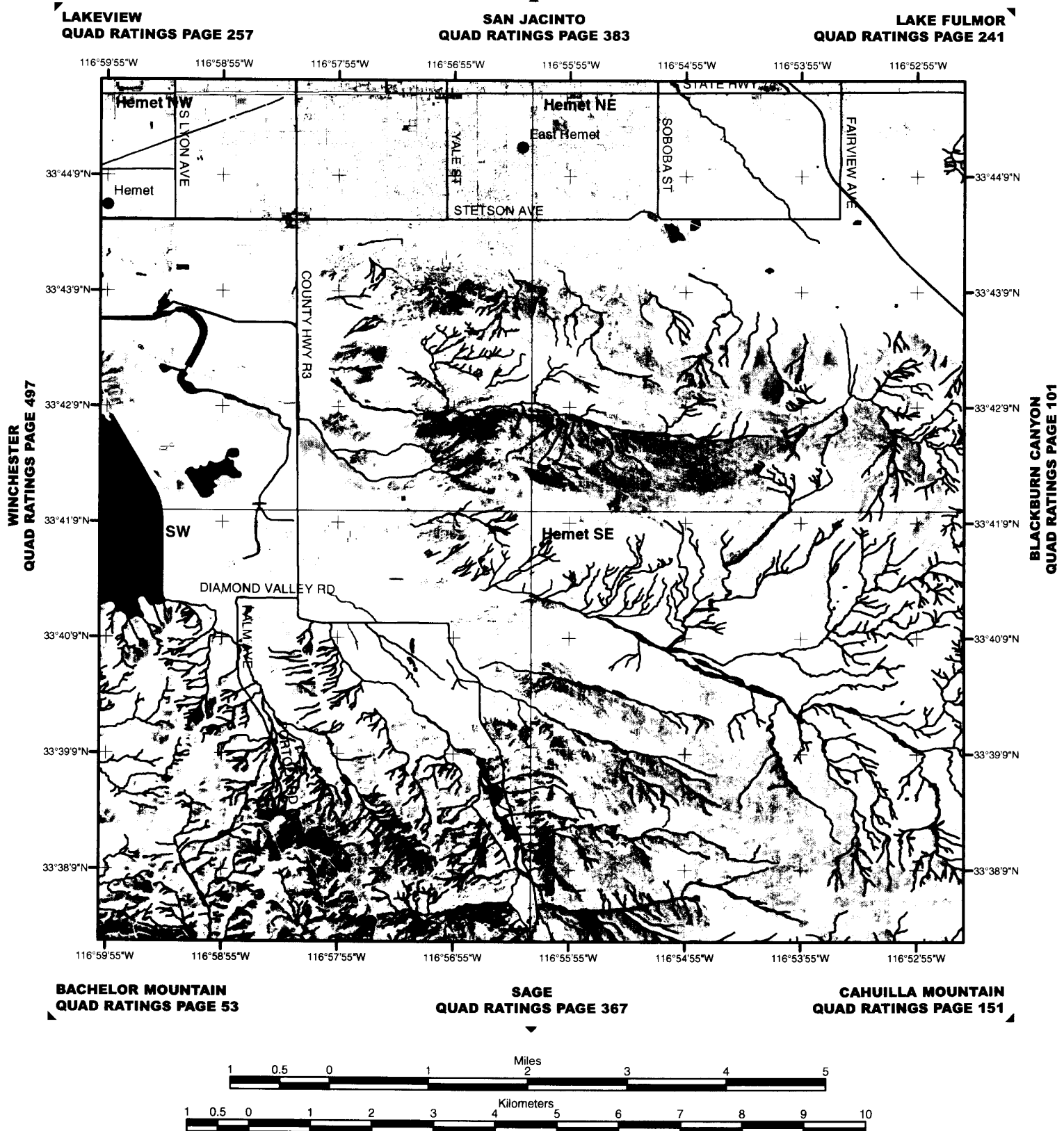


Fallbrook North East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

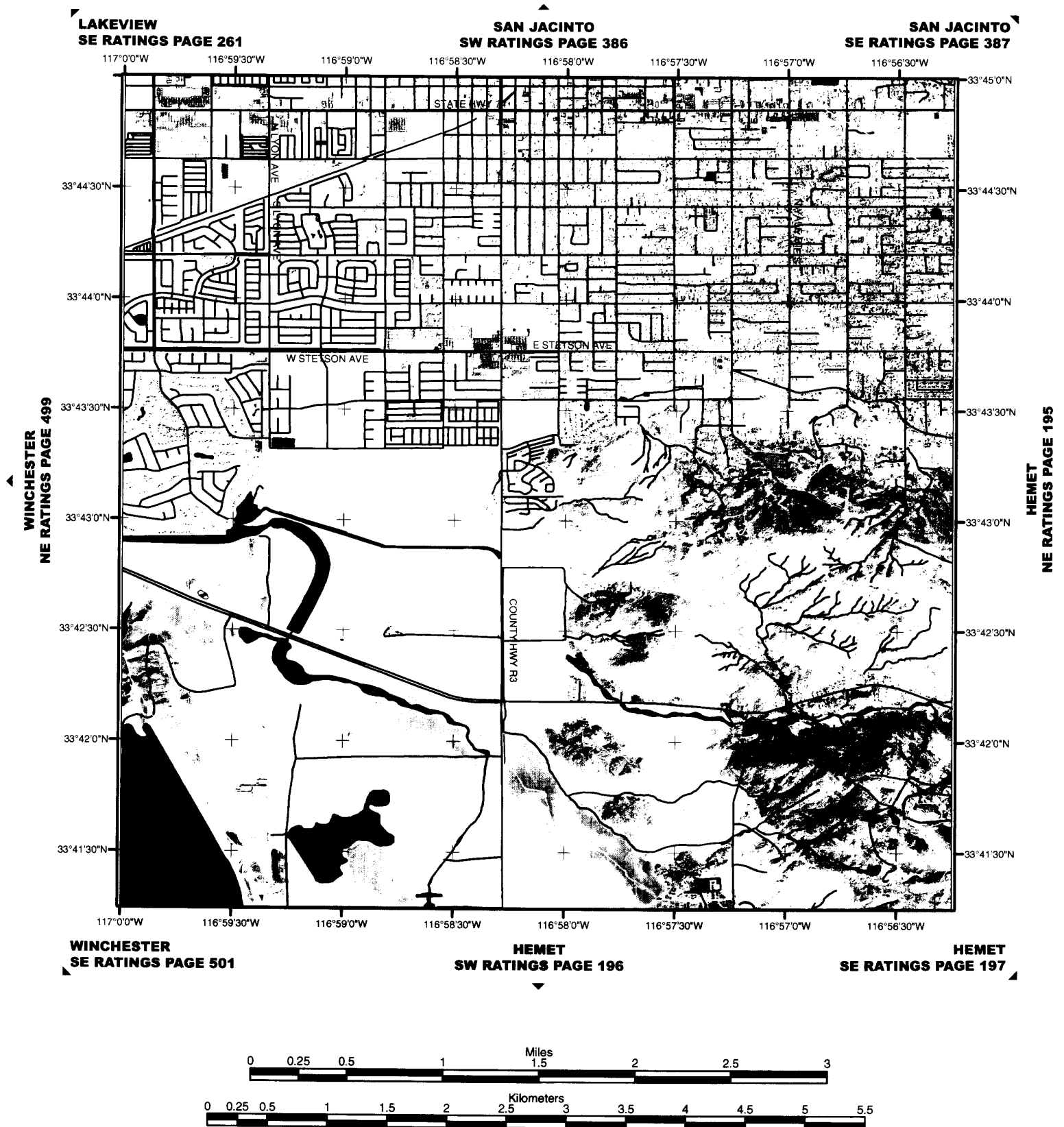


Hemet Quadrangle

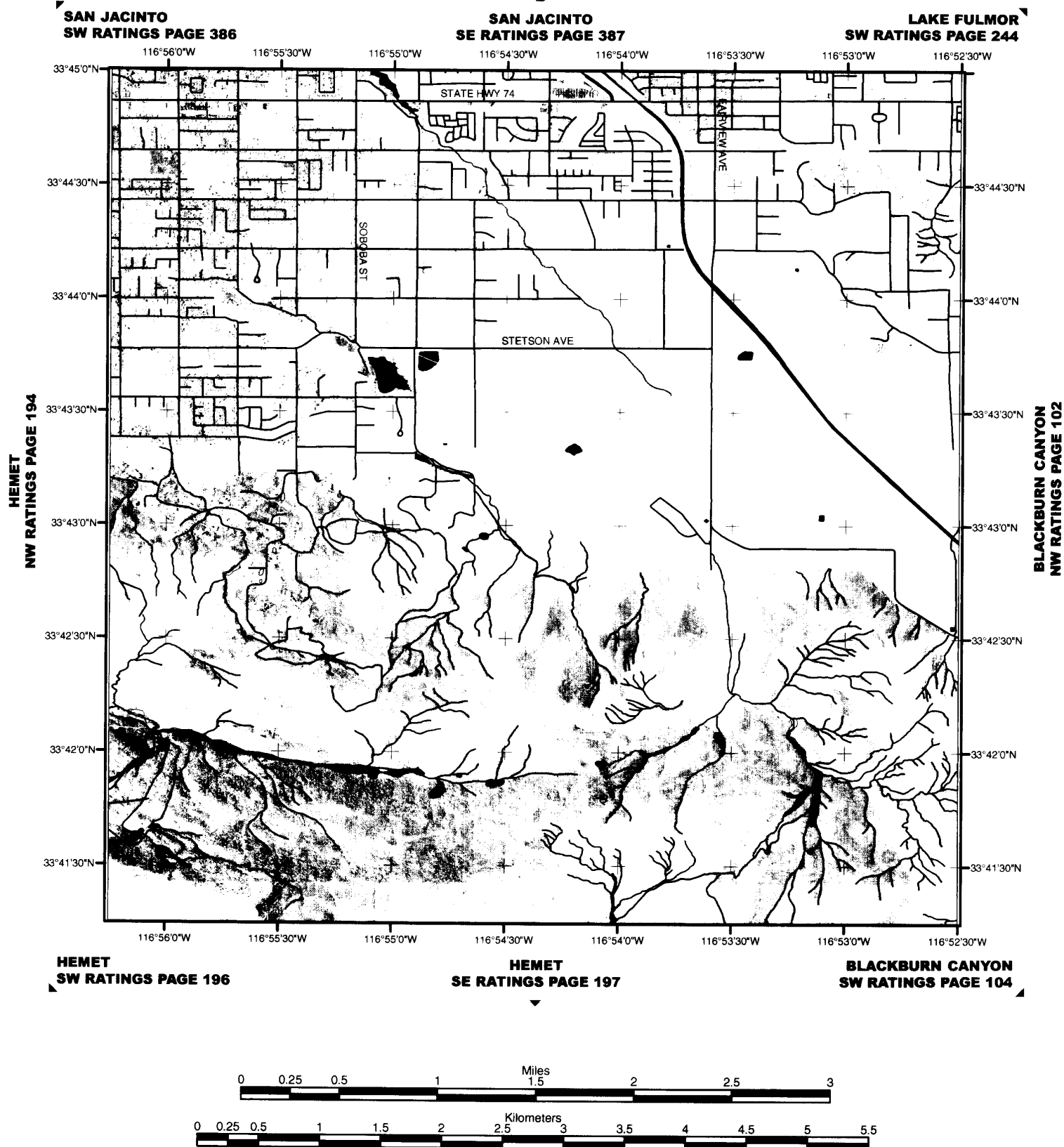
Regulatory Probability Ratings for Aquatic Resources



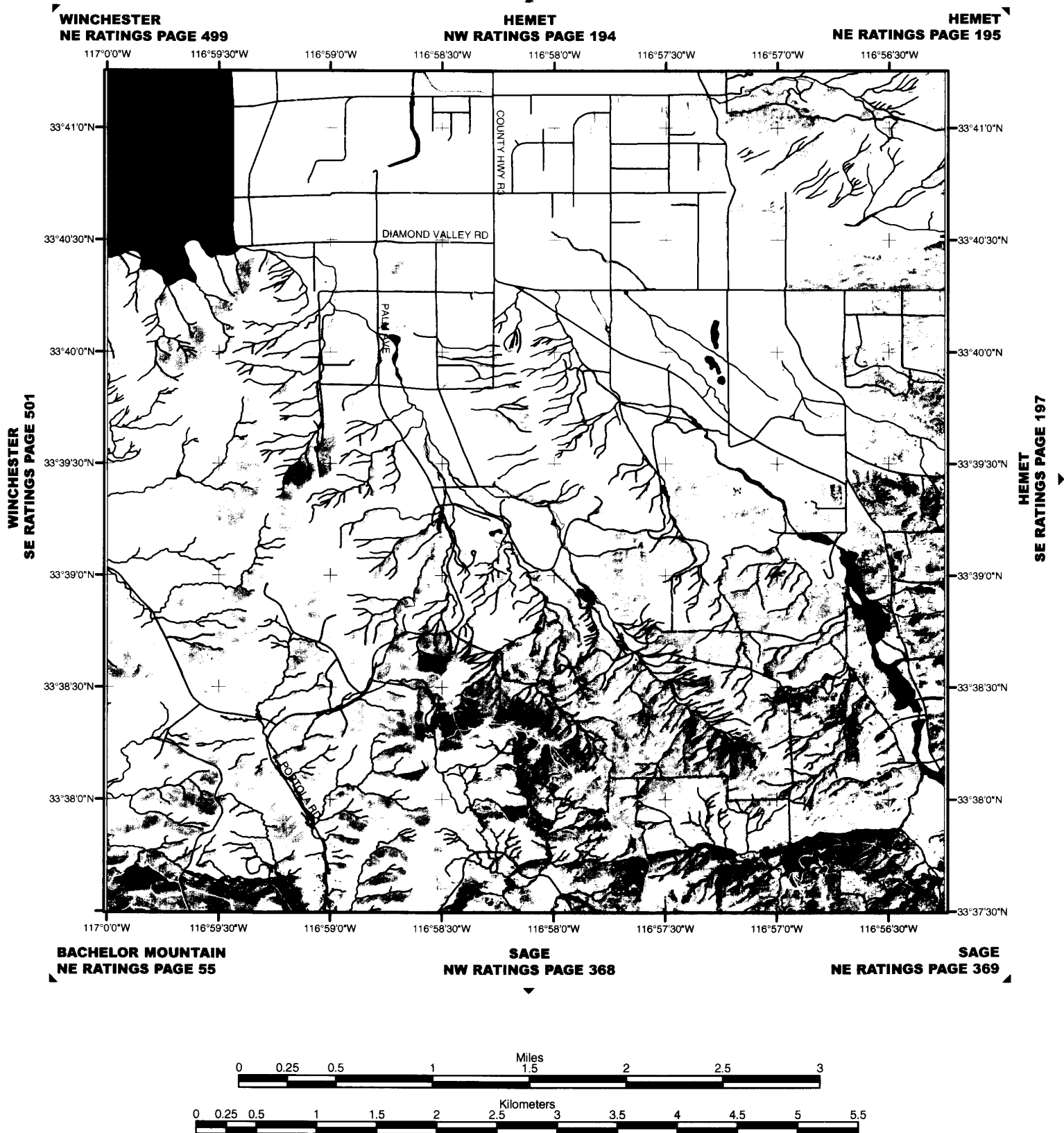
Hemet North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



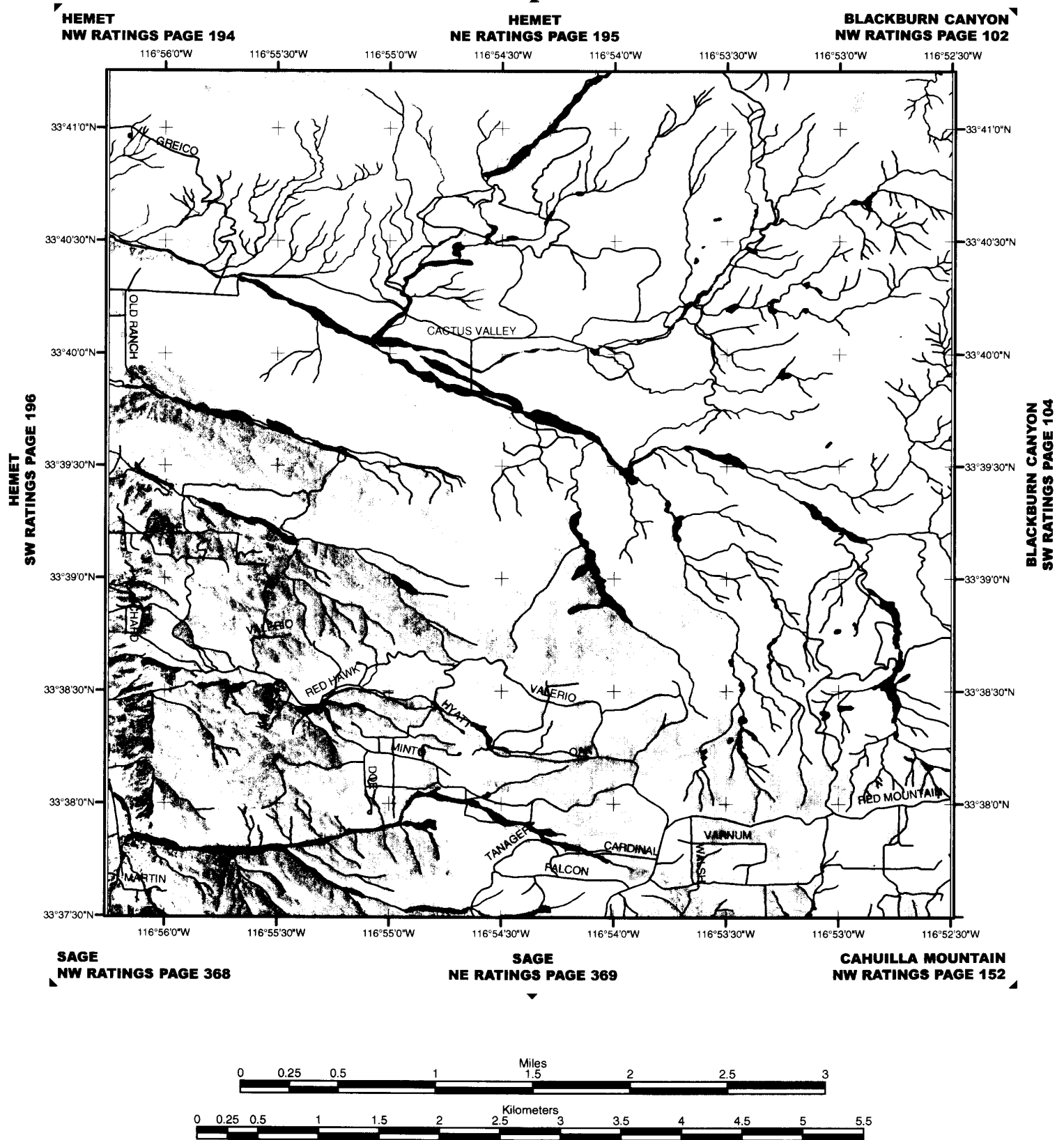
Hemet North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



Hemet South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

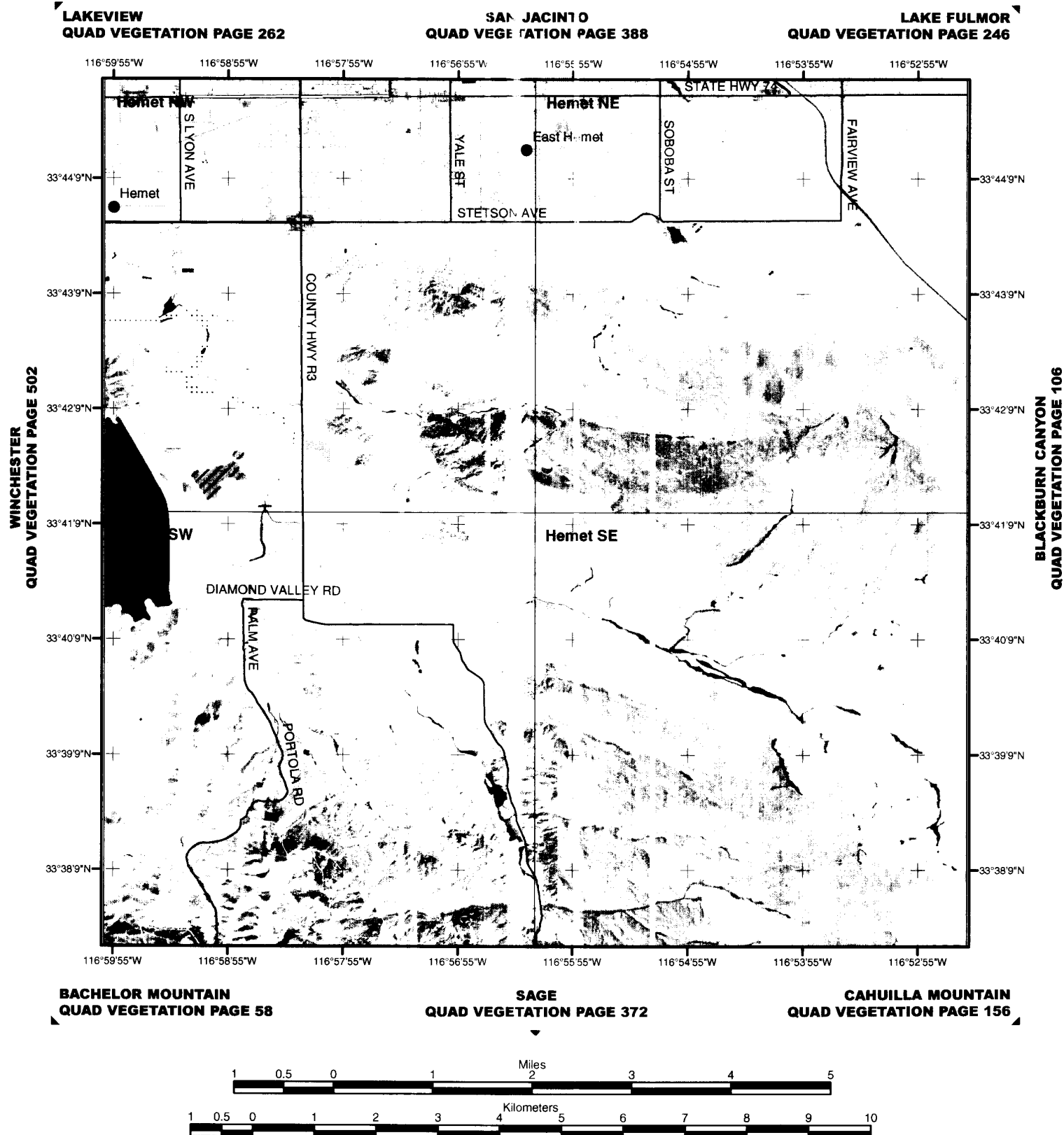


Hemet South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



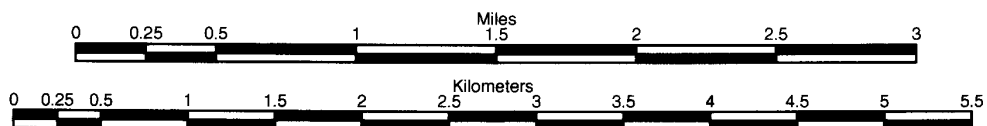
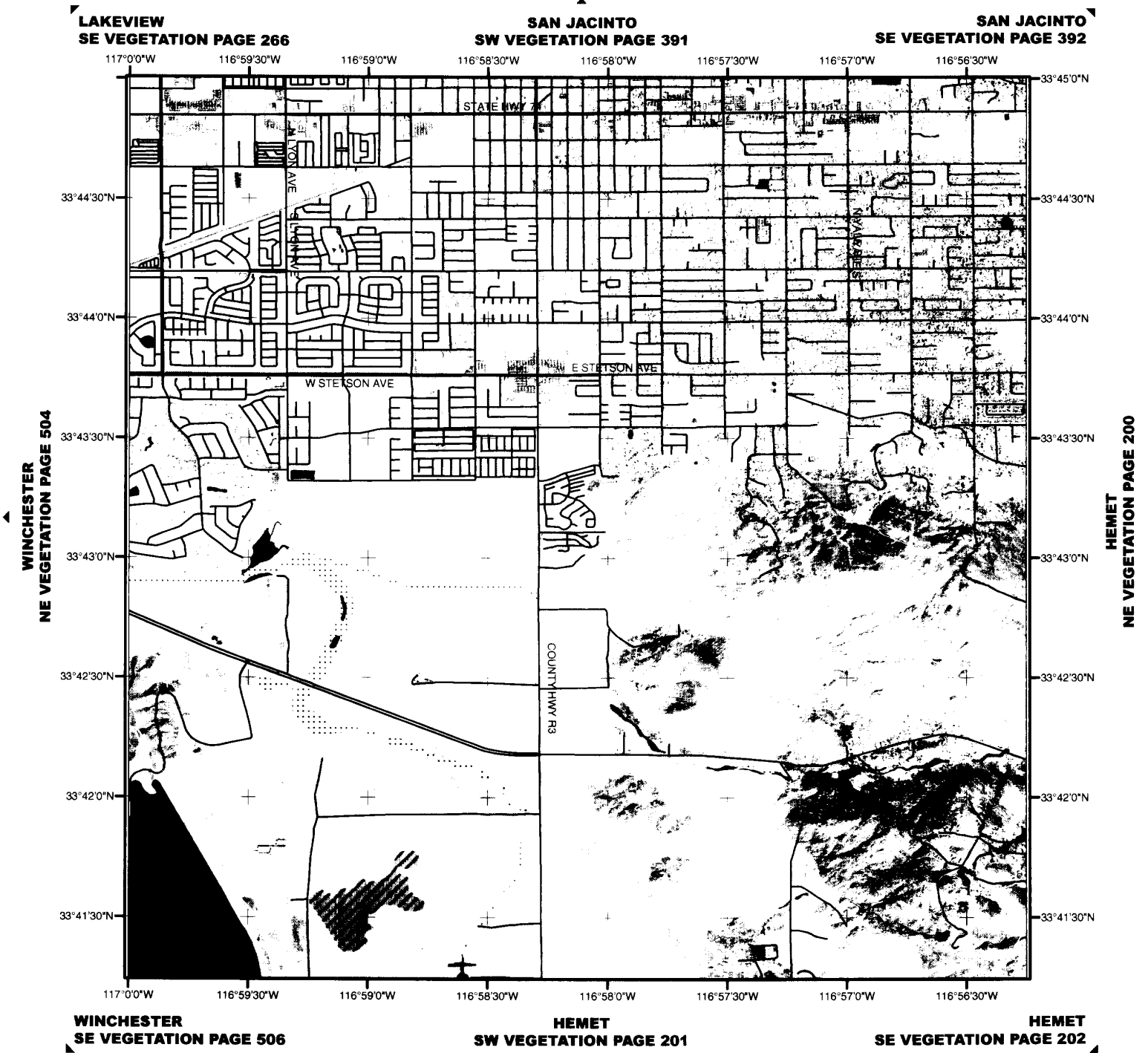
Hemet Quadrangle

Vegetation Species Association Units for Aquatic Resources



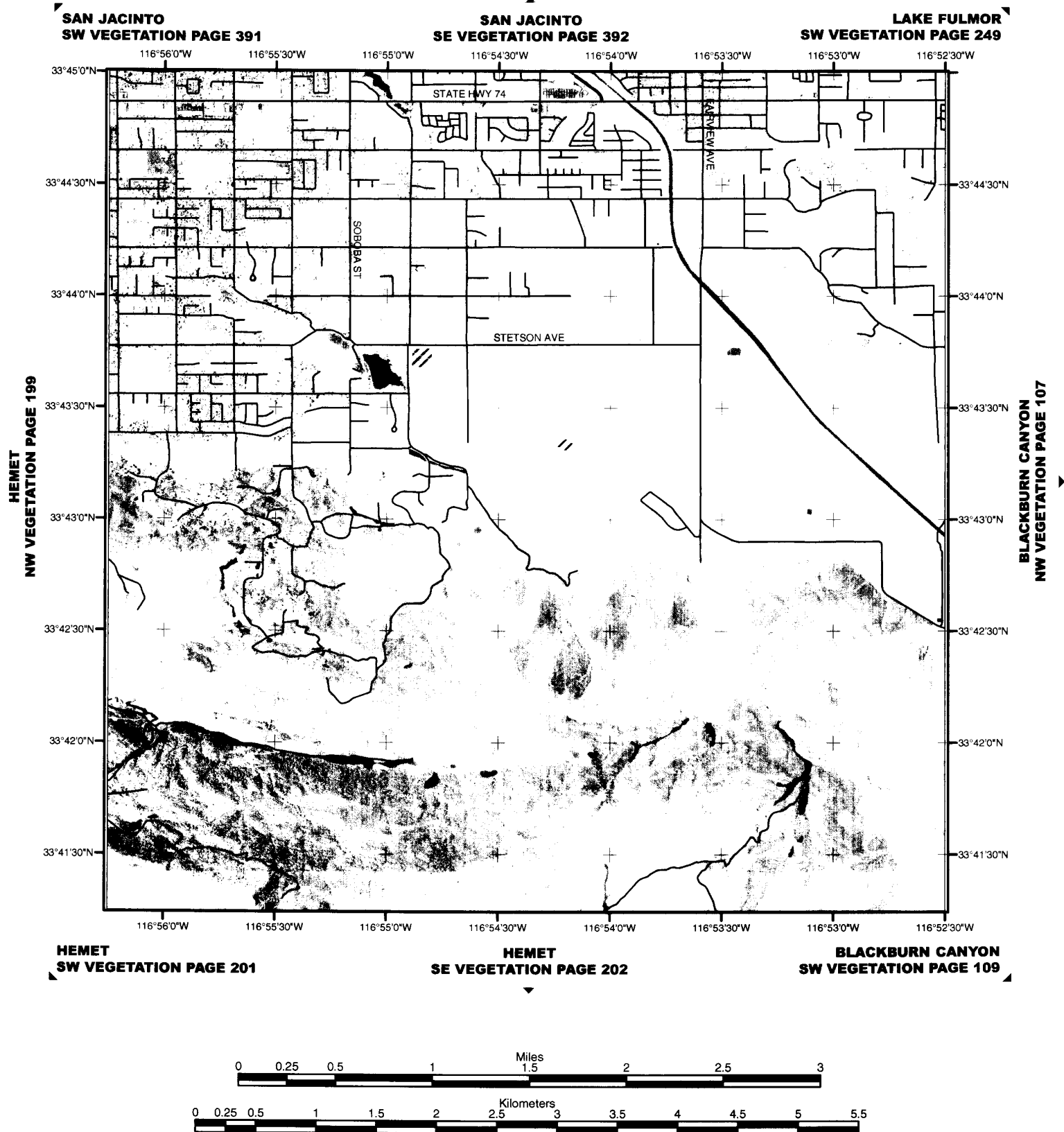
Hemet North West Quarter-Quadrangle

Vegetation Species Association Units for Aquatic Resources

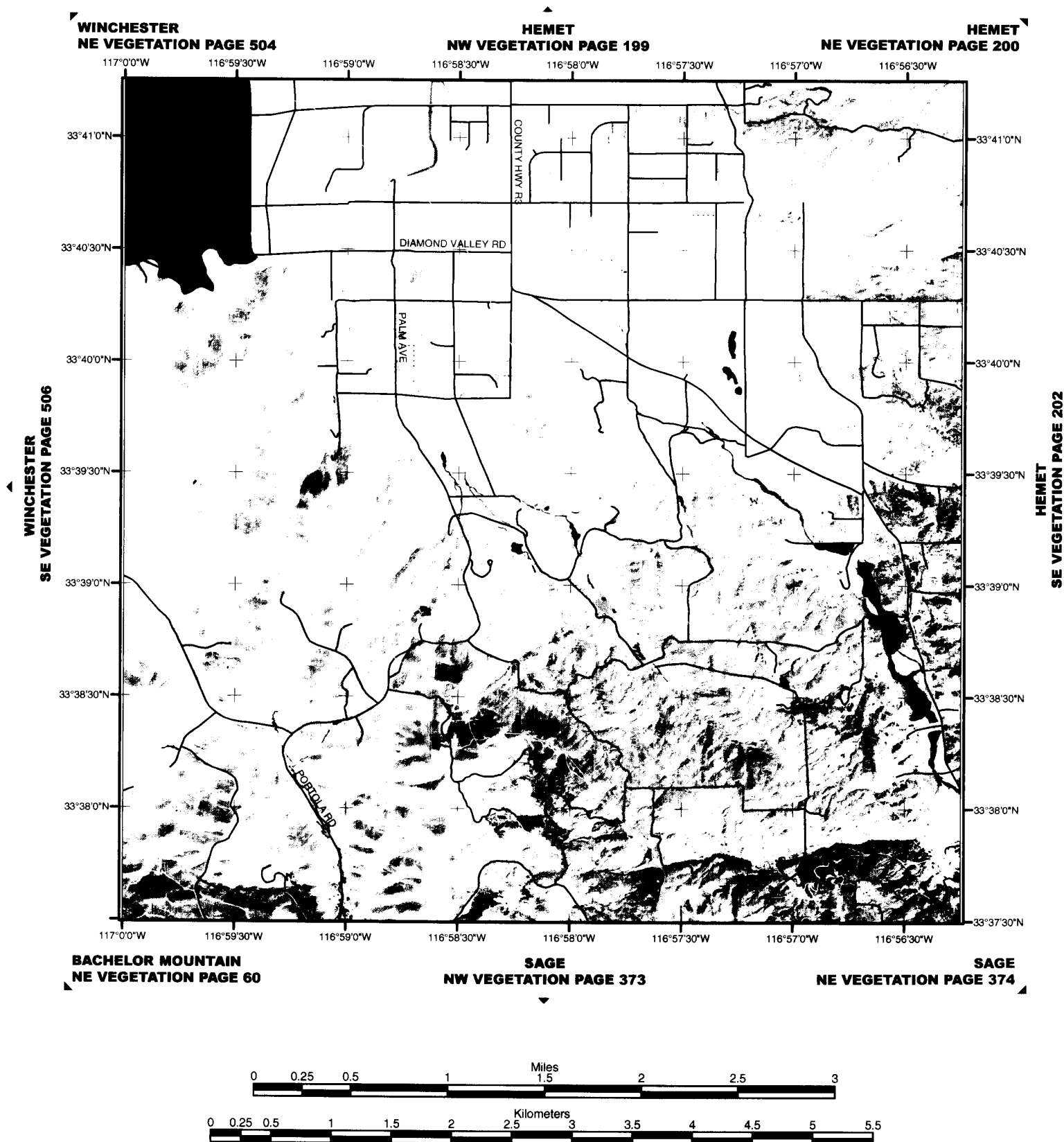


Hemet North East Quarter-Quadrangle

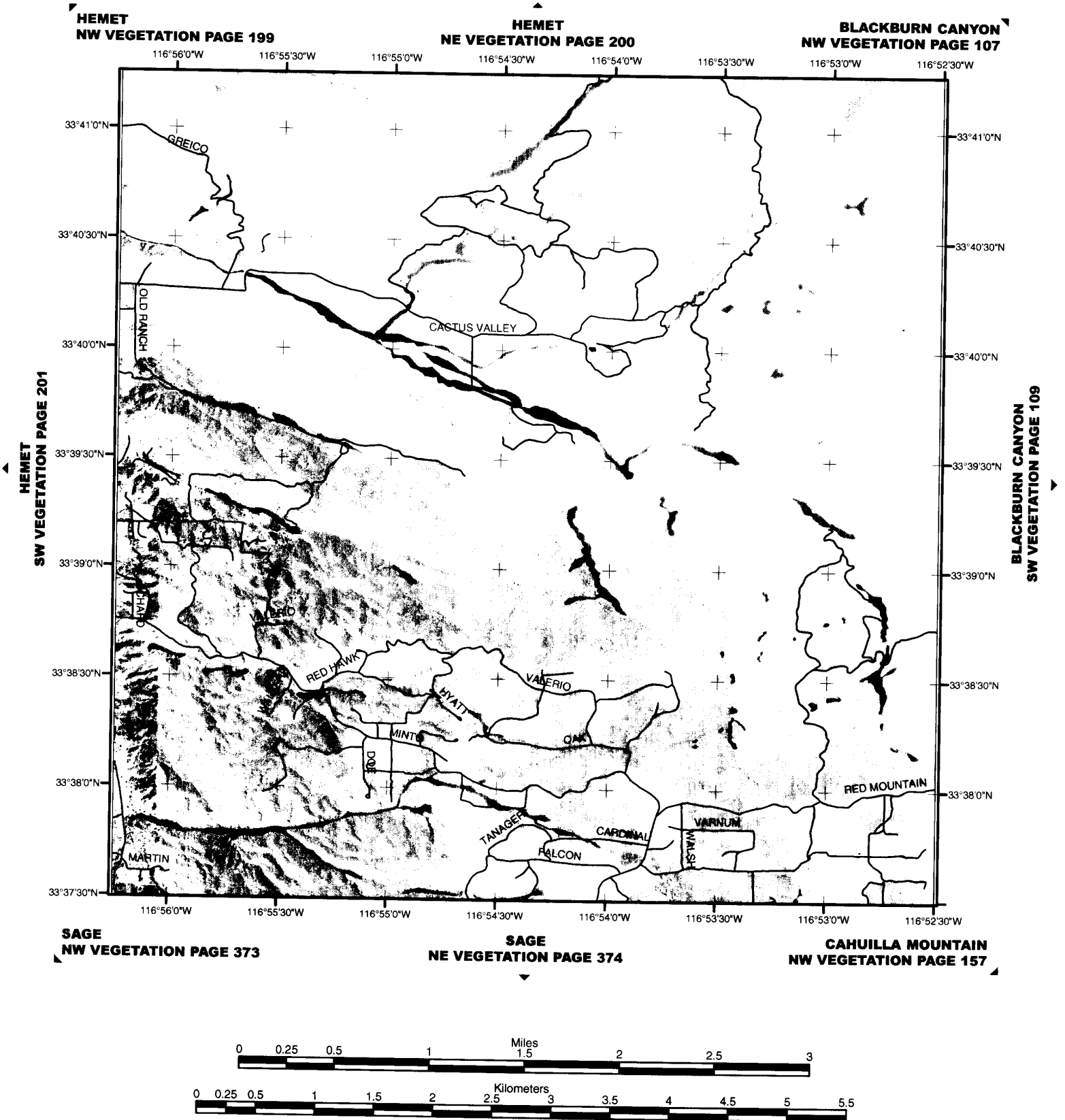
Vegetation Species Association Units for Aquatic Resources



Hemet South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

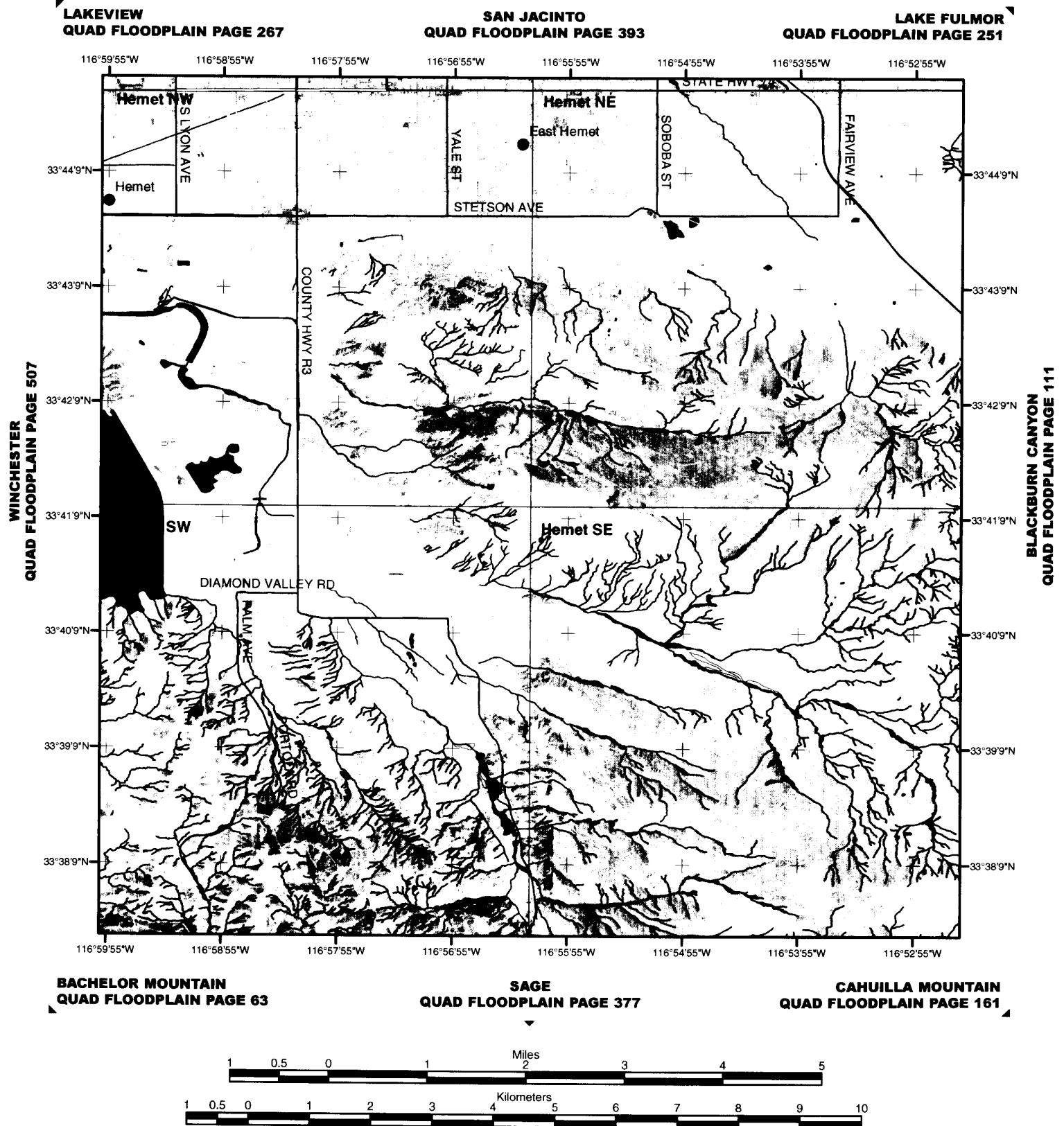


Hemet South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

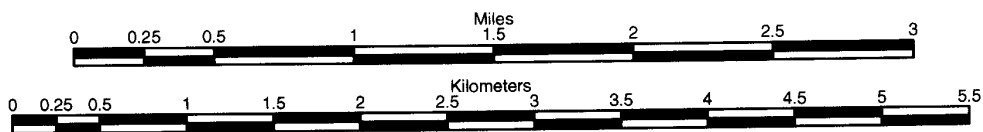
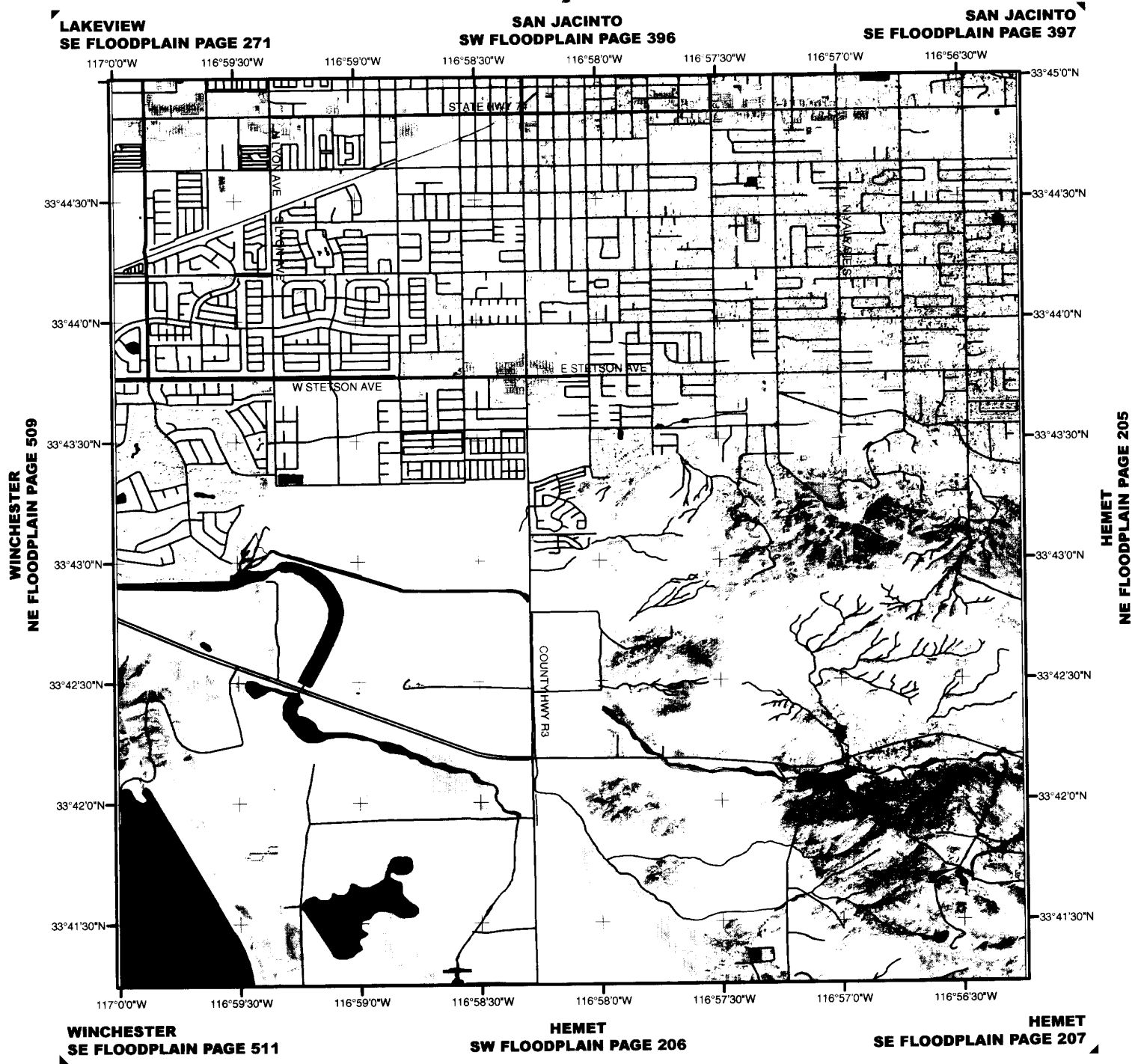


Hemet Quadrangle

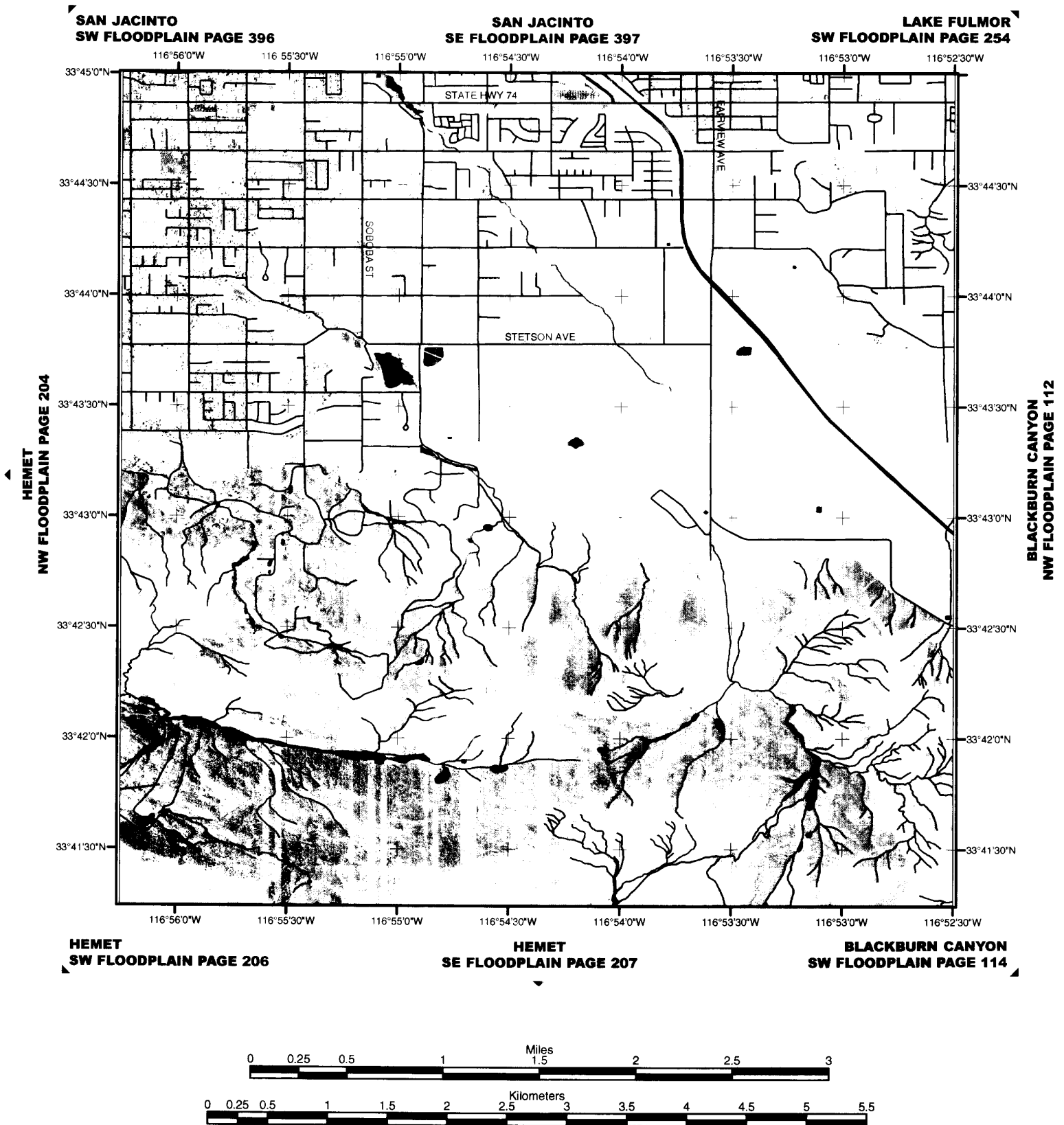
Hydrogeomorphic Floodplain Units for Aquatic Resources



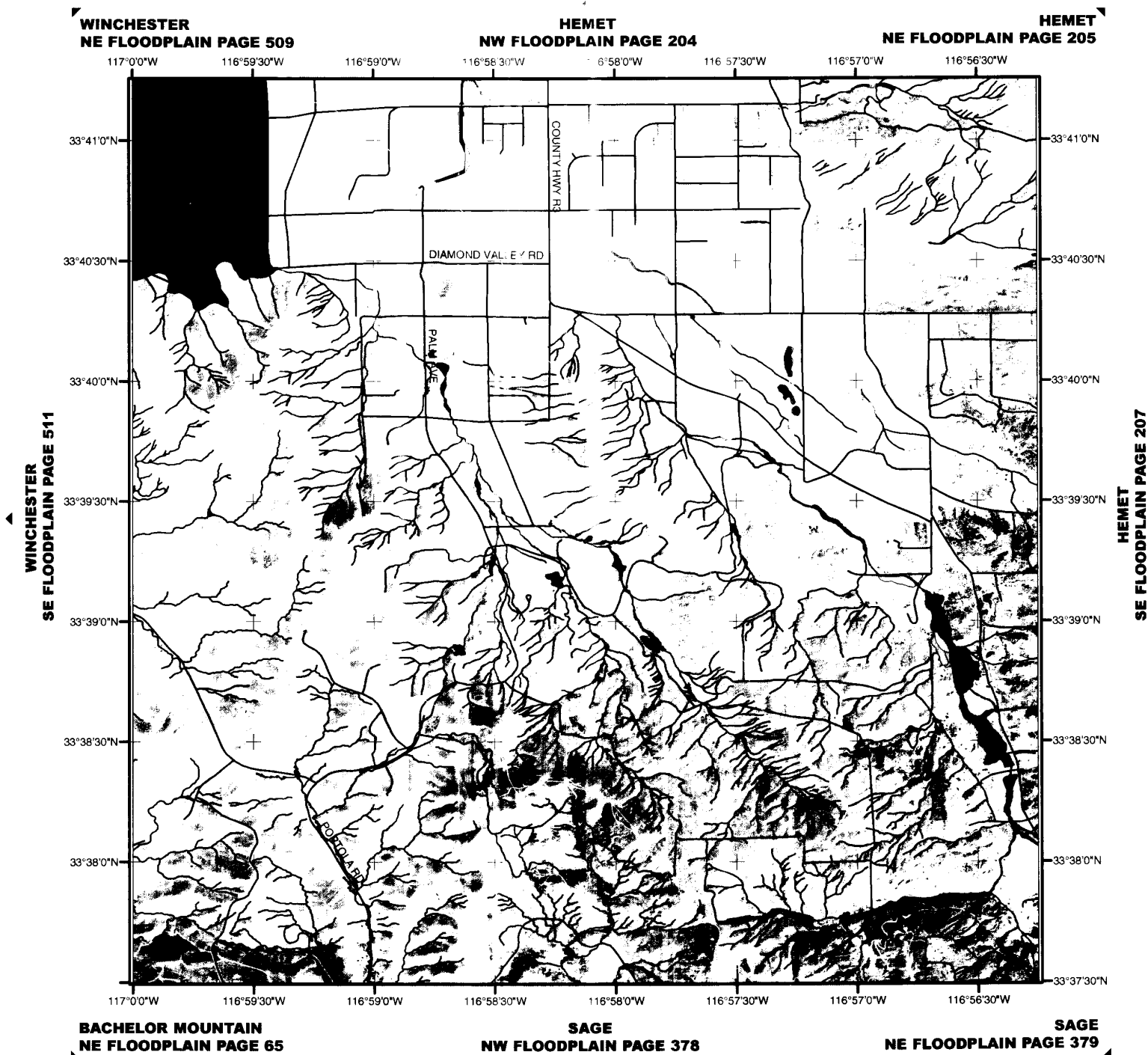
Hemet North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



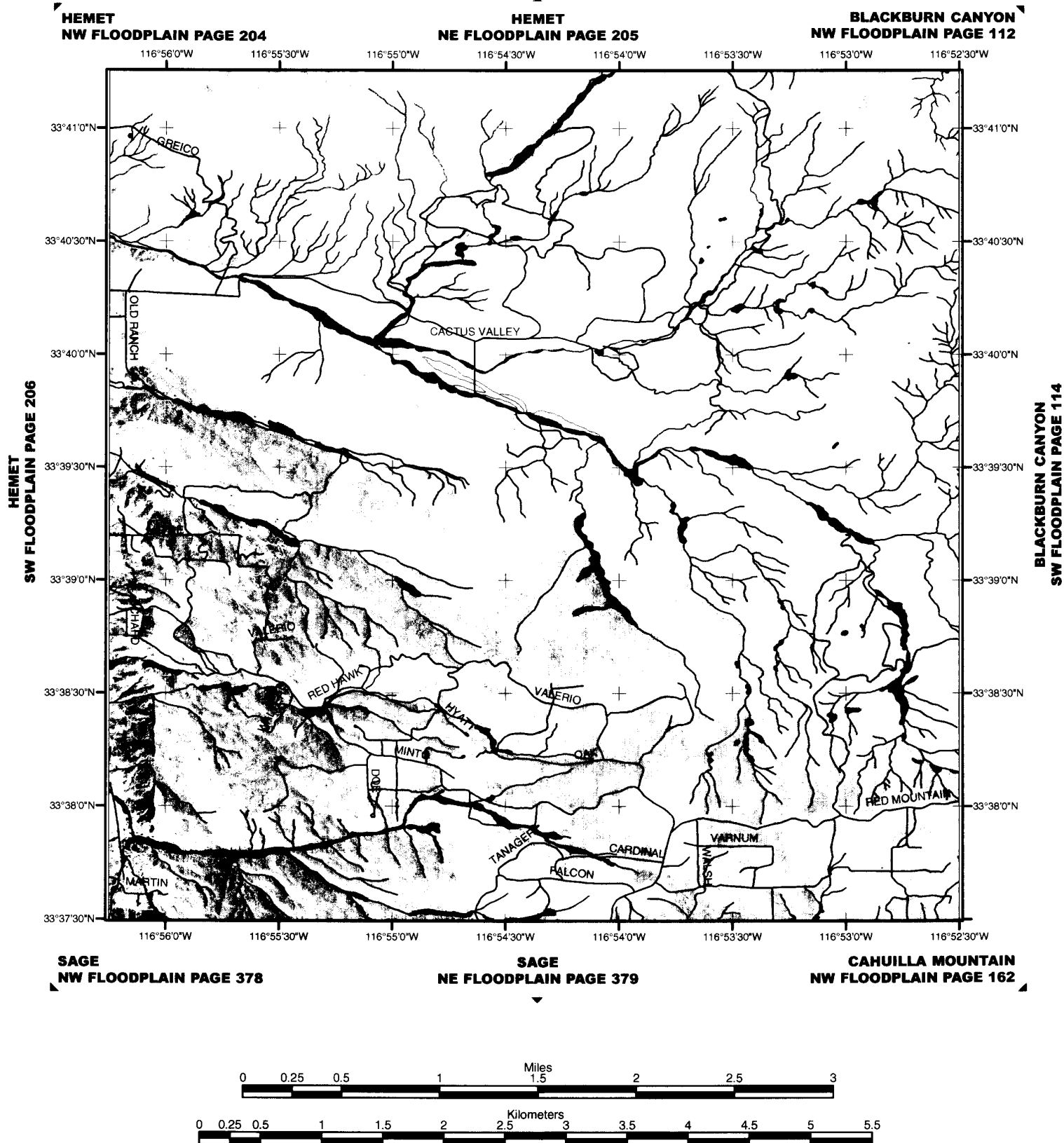
Hemet North East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



Hemet South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

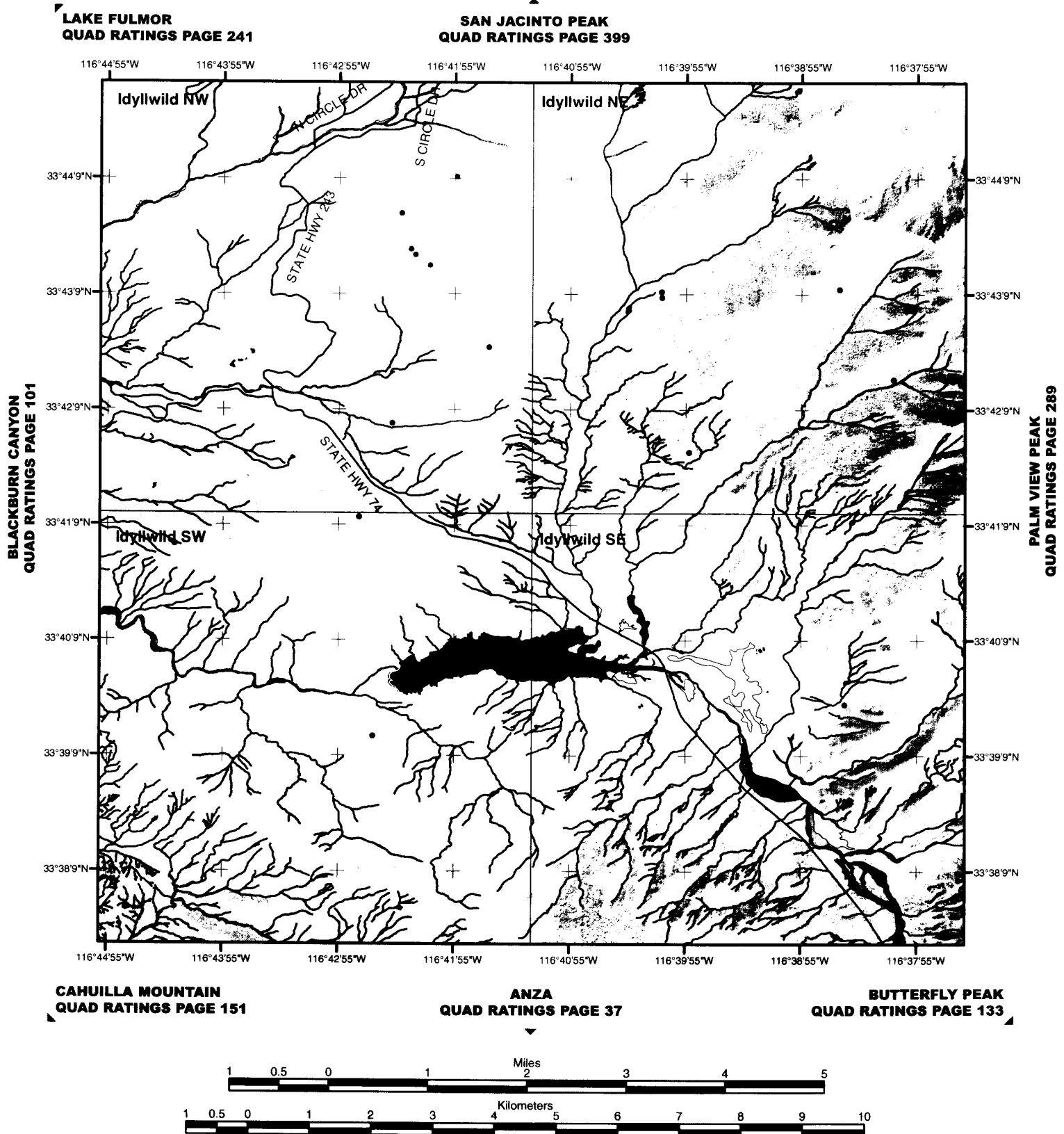


Hemet South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



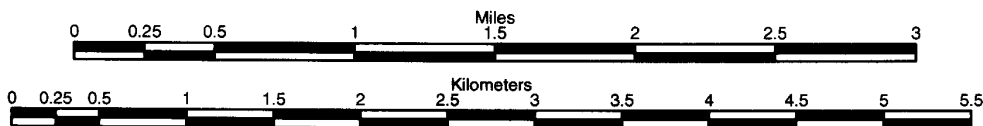
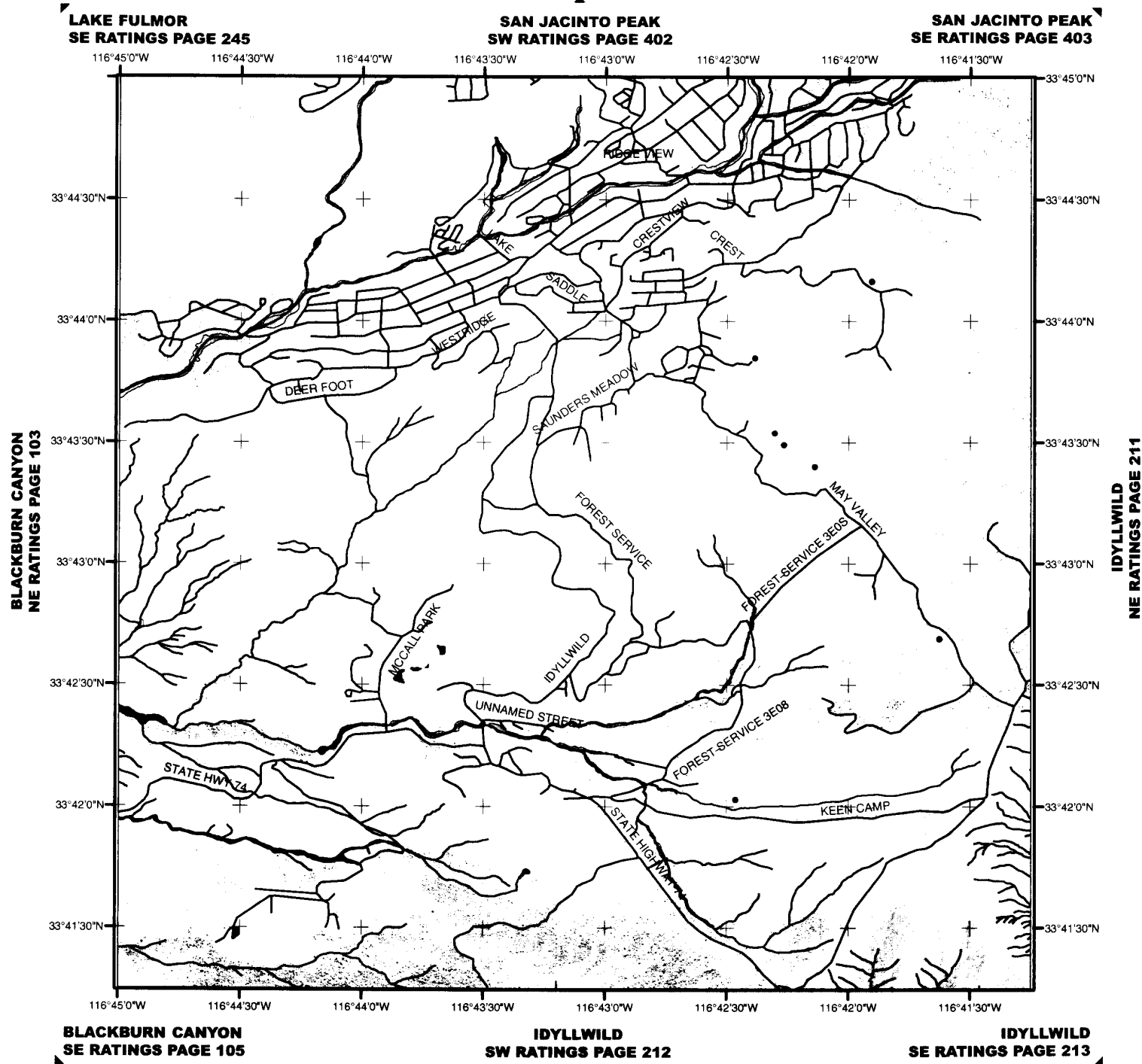
Idyllwild Quadrangle

Regulatory Probability Ratings for Aquatic Resources

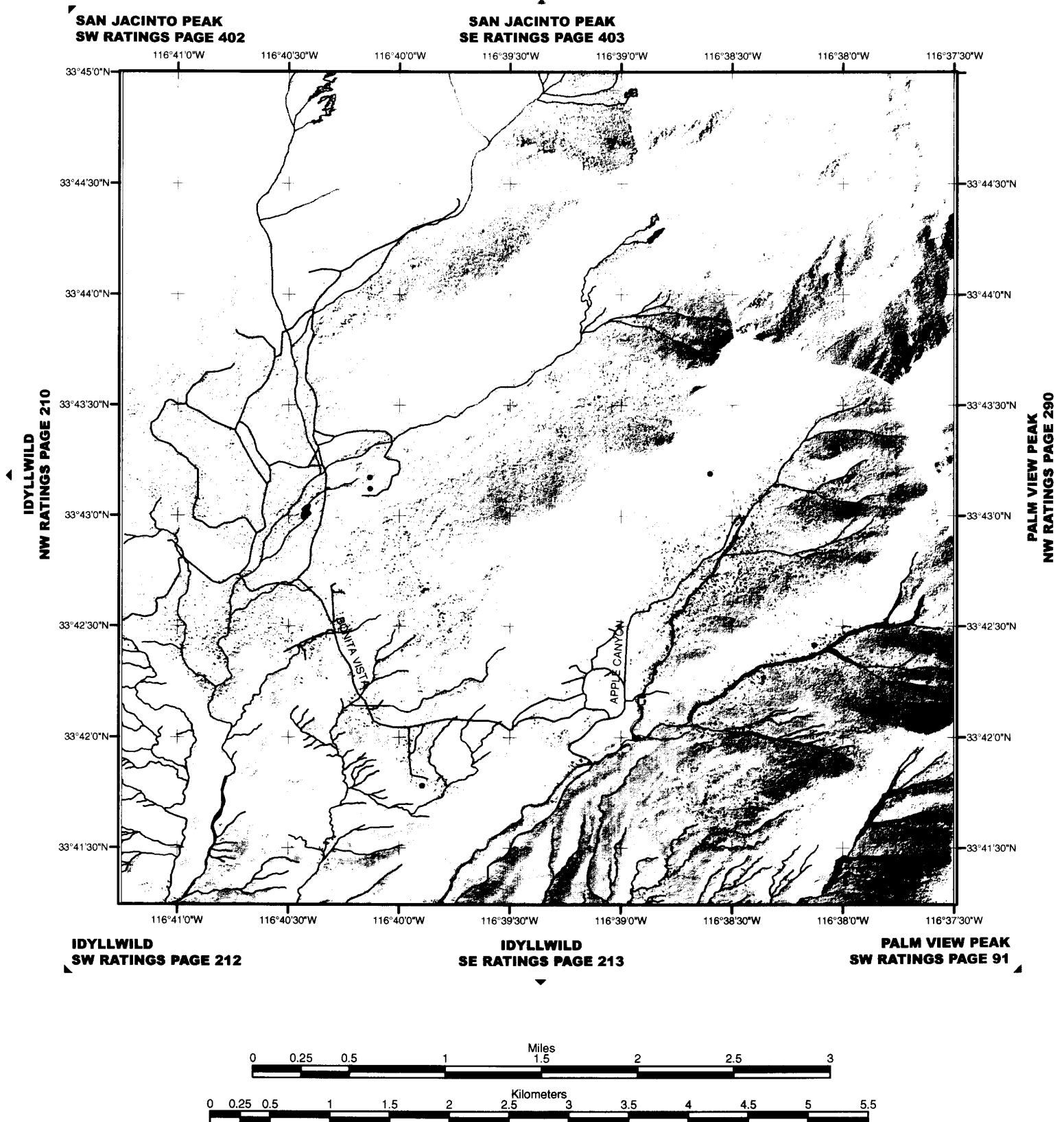


Idyllwild North West Quarter-Quadrangle

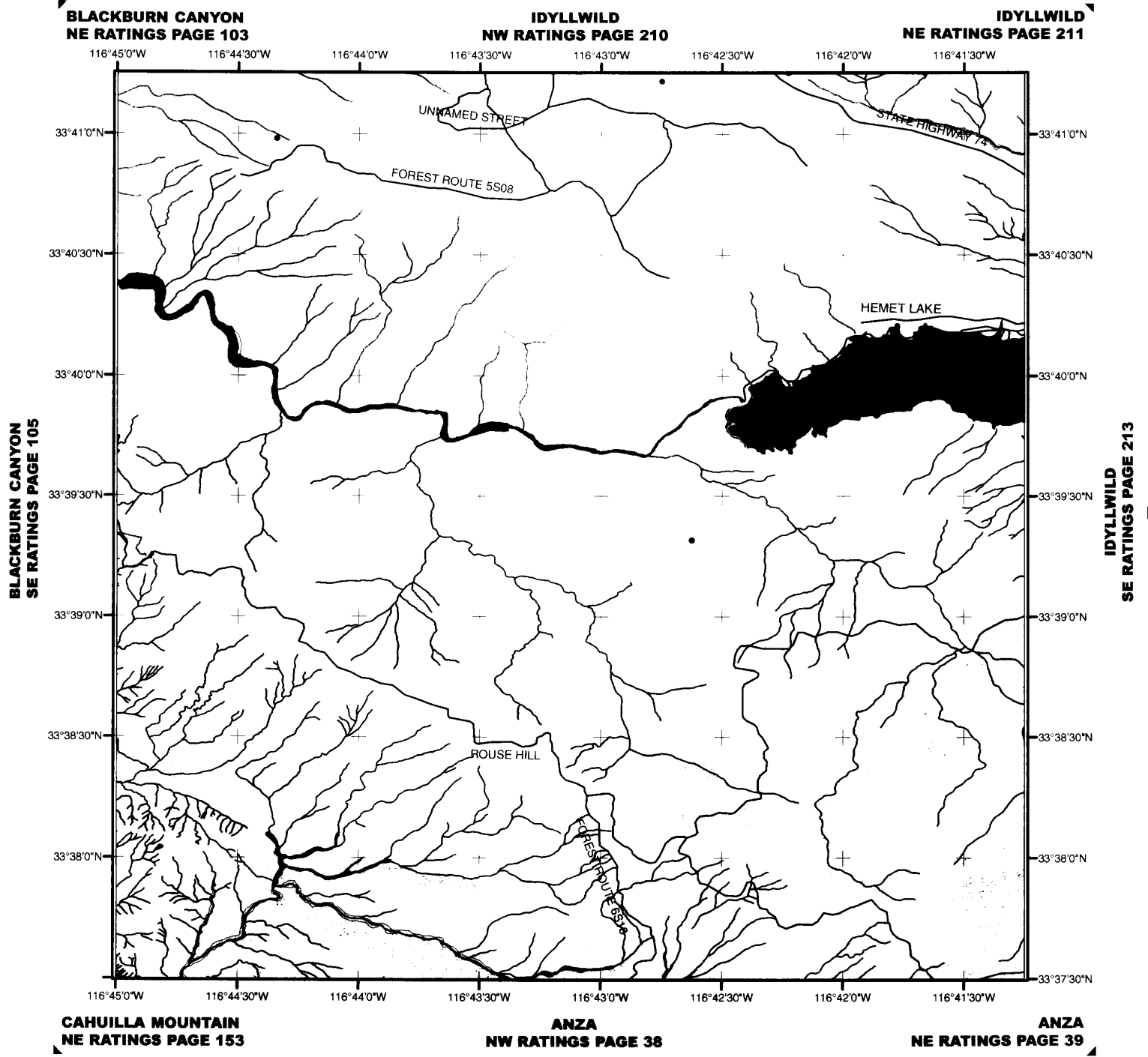
Regulatory Probability Ratings for Aquatic Resources



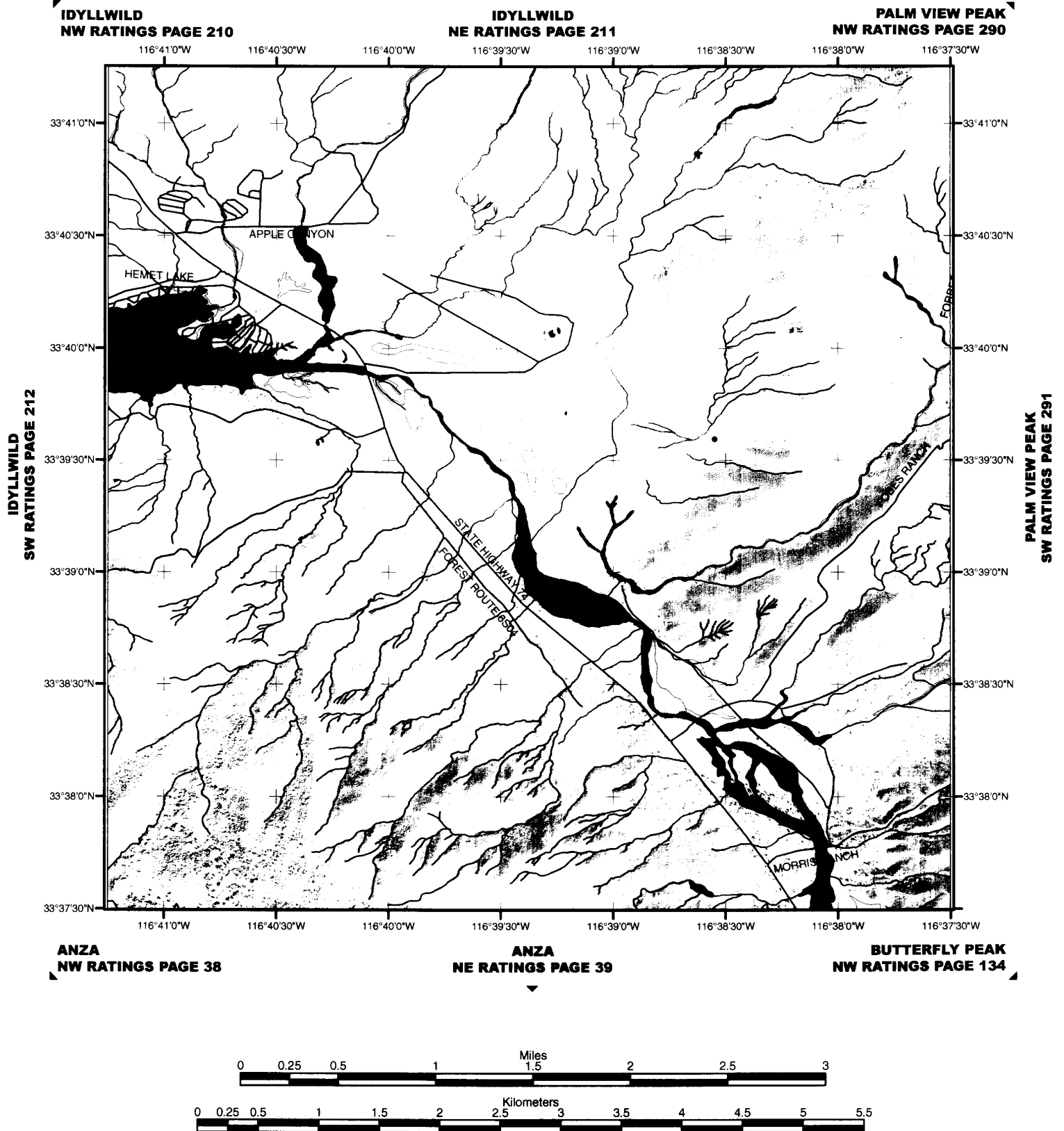
Idyllwild North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



Idyllwild South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

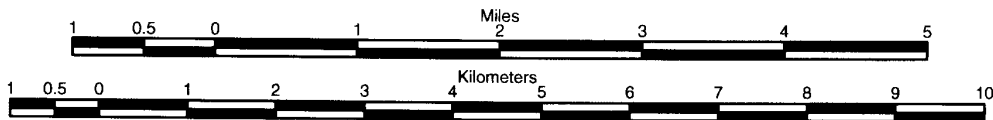
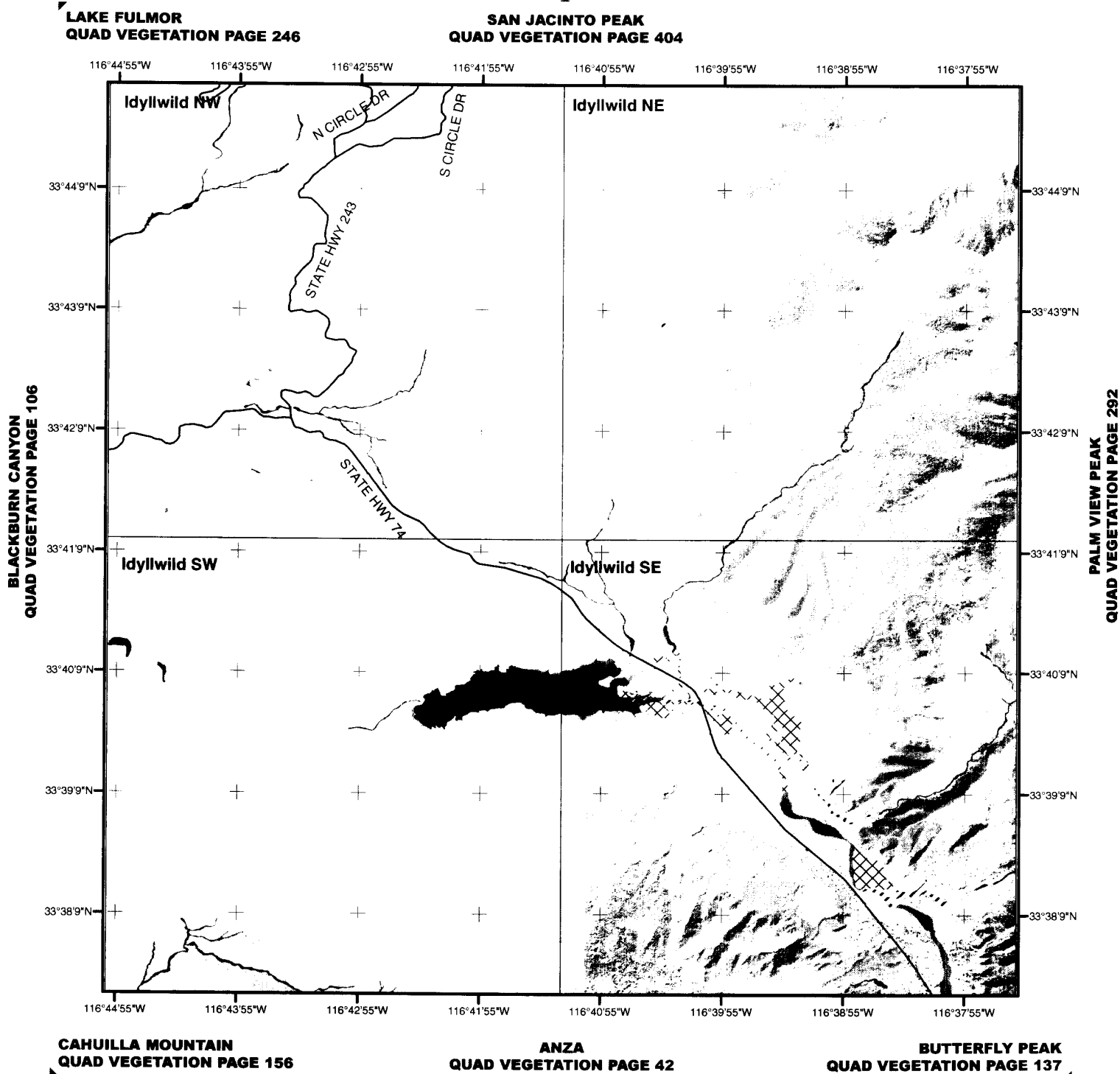


Idyllwild South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



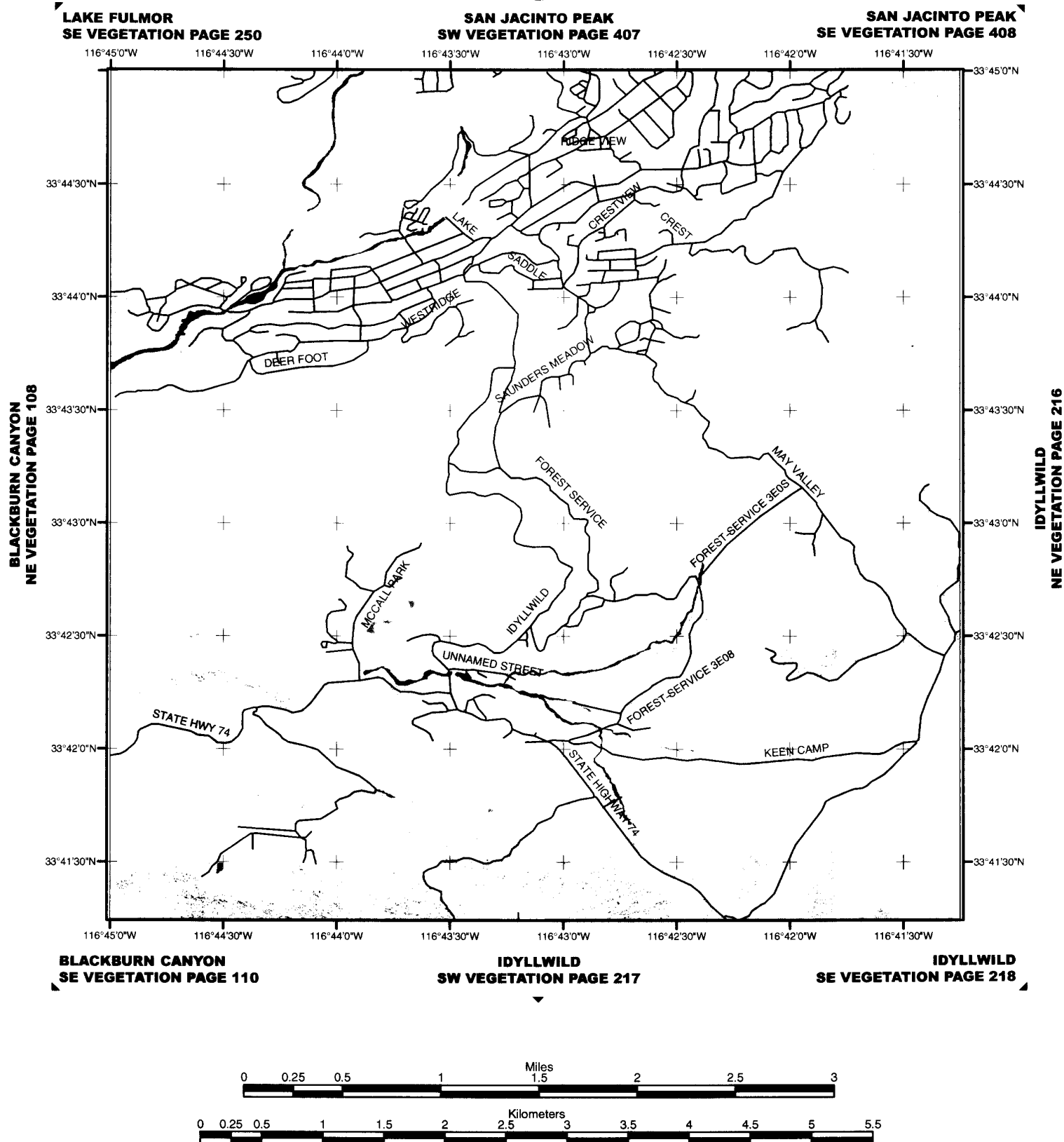
Idyllwild Quadrangle

Vegetation Species Association Units for Aquatic Resources

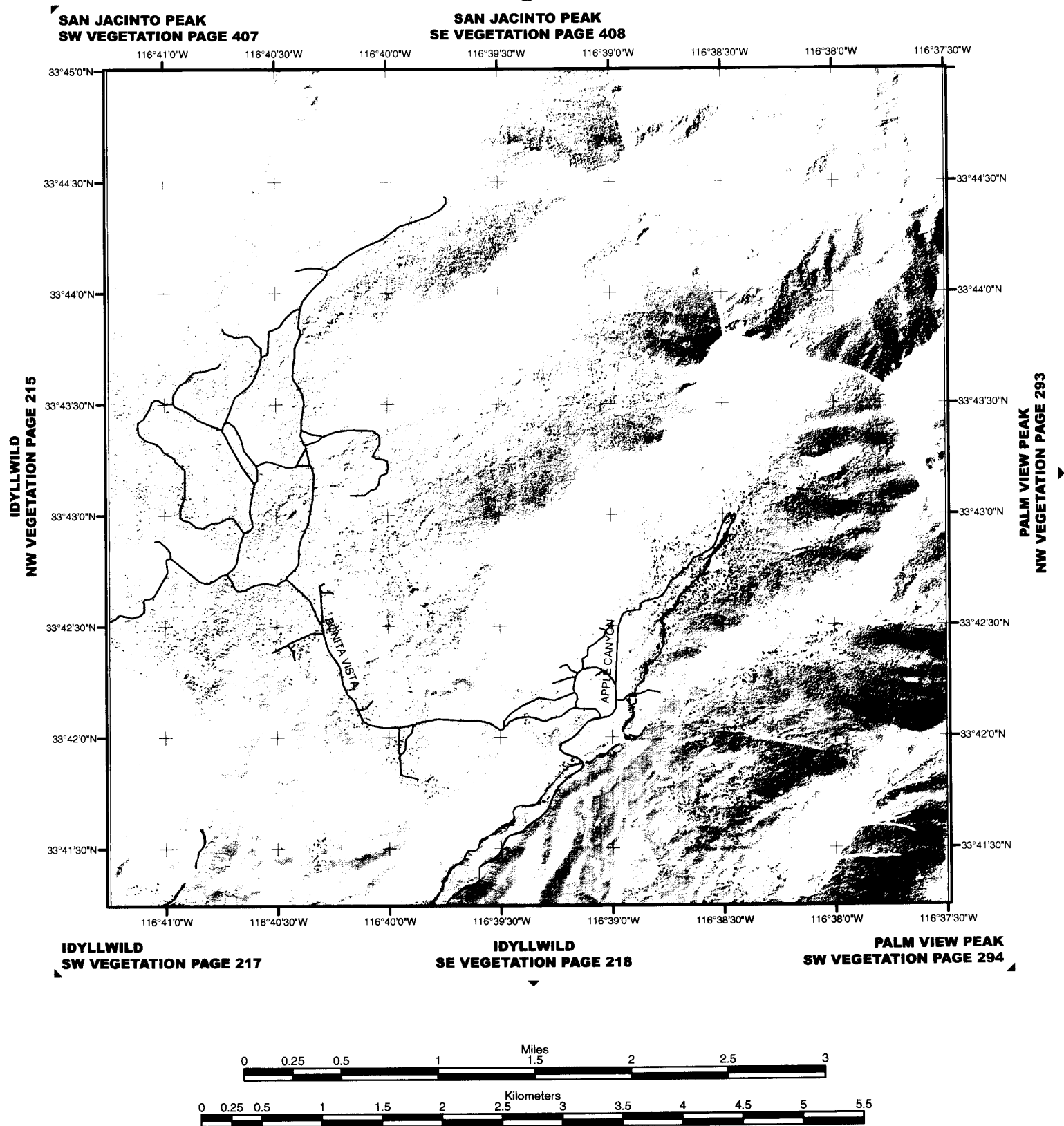


Idyllwild North West Quarter-Quadrangle

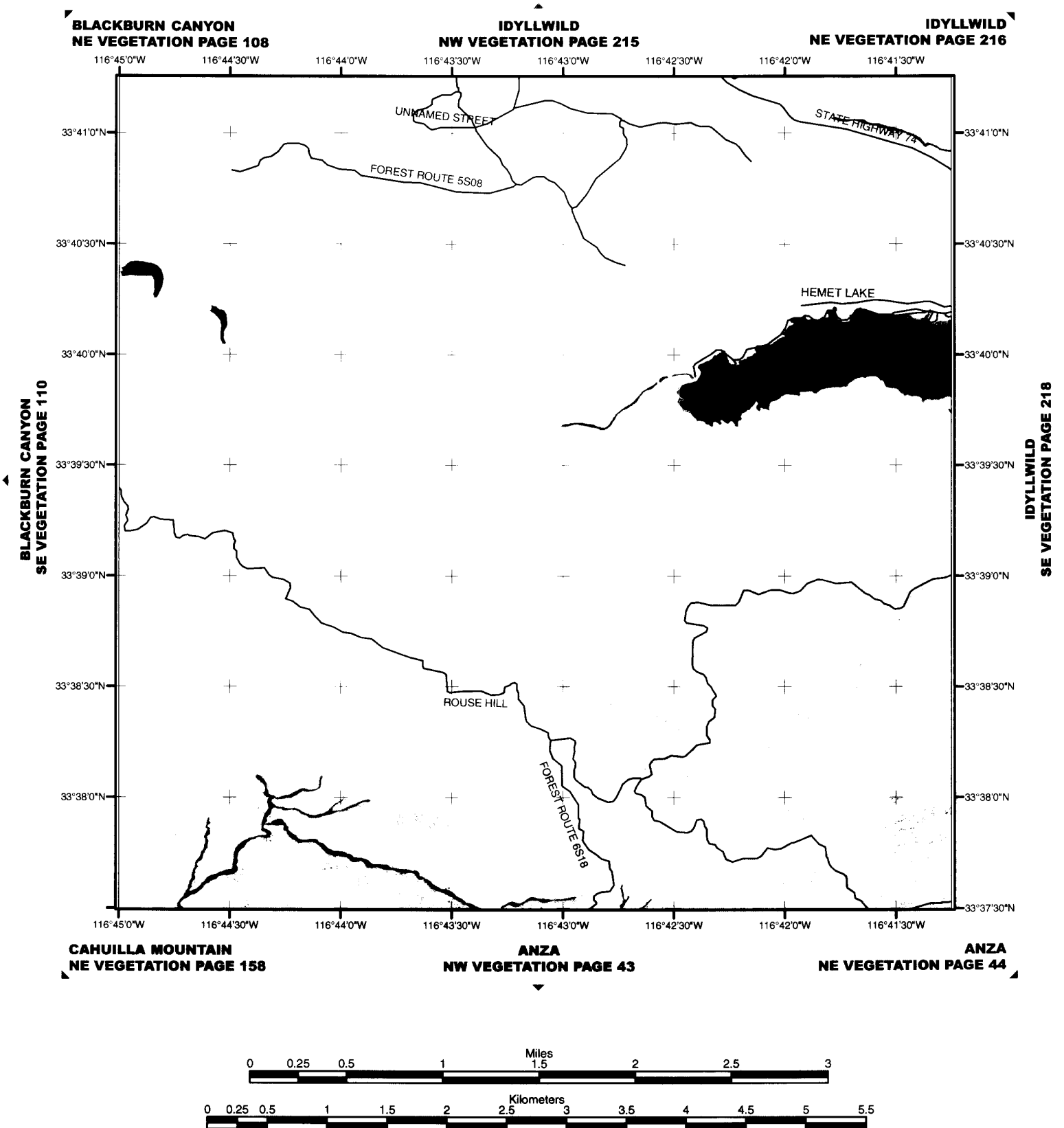
Vegetation Species Association Units for Aquatic Resources



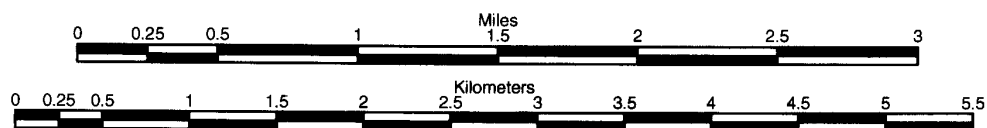
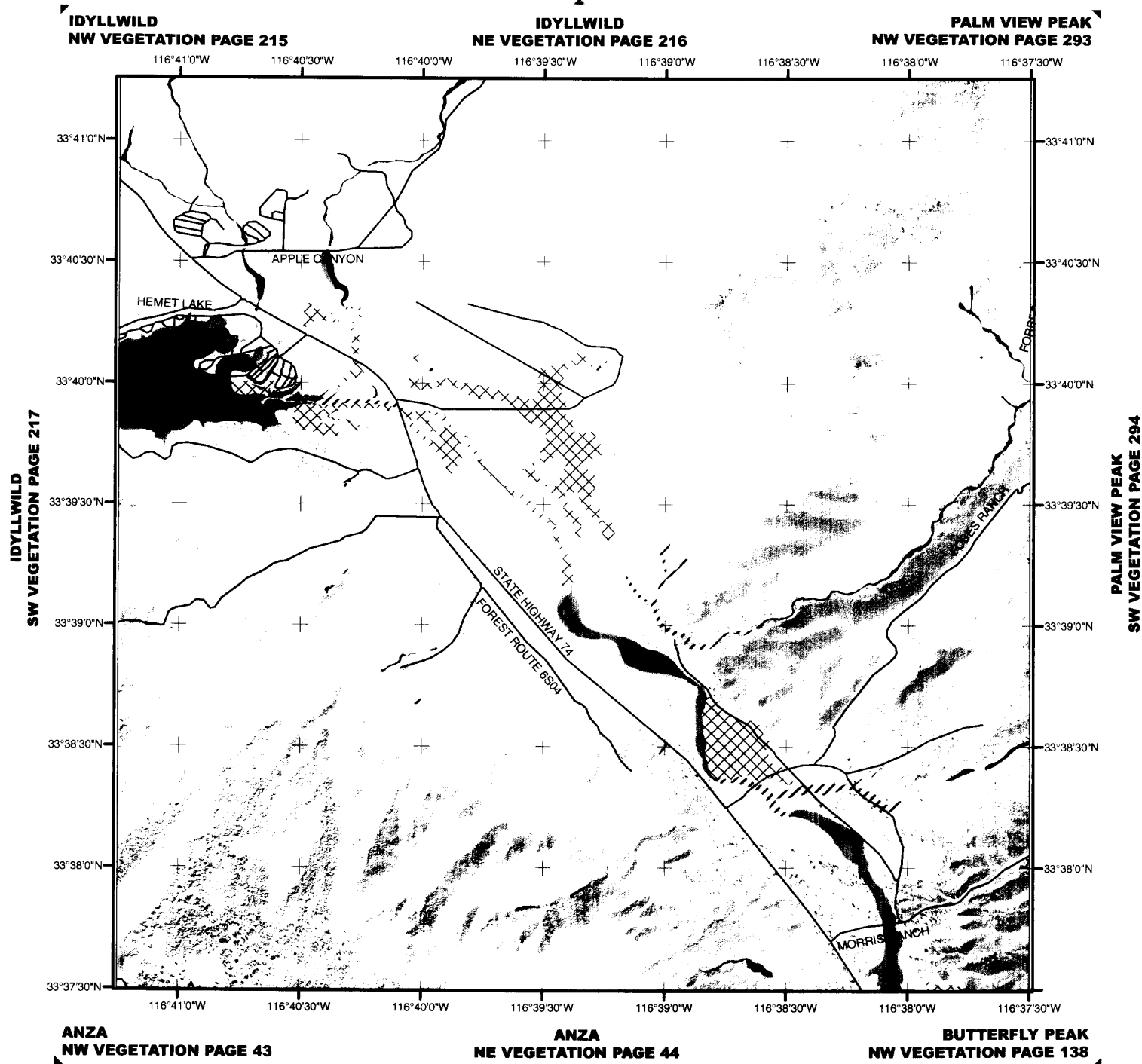
Idyllwild North East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



Idyllwild South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



Idyllwild South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

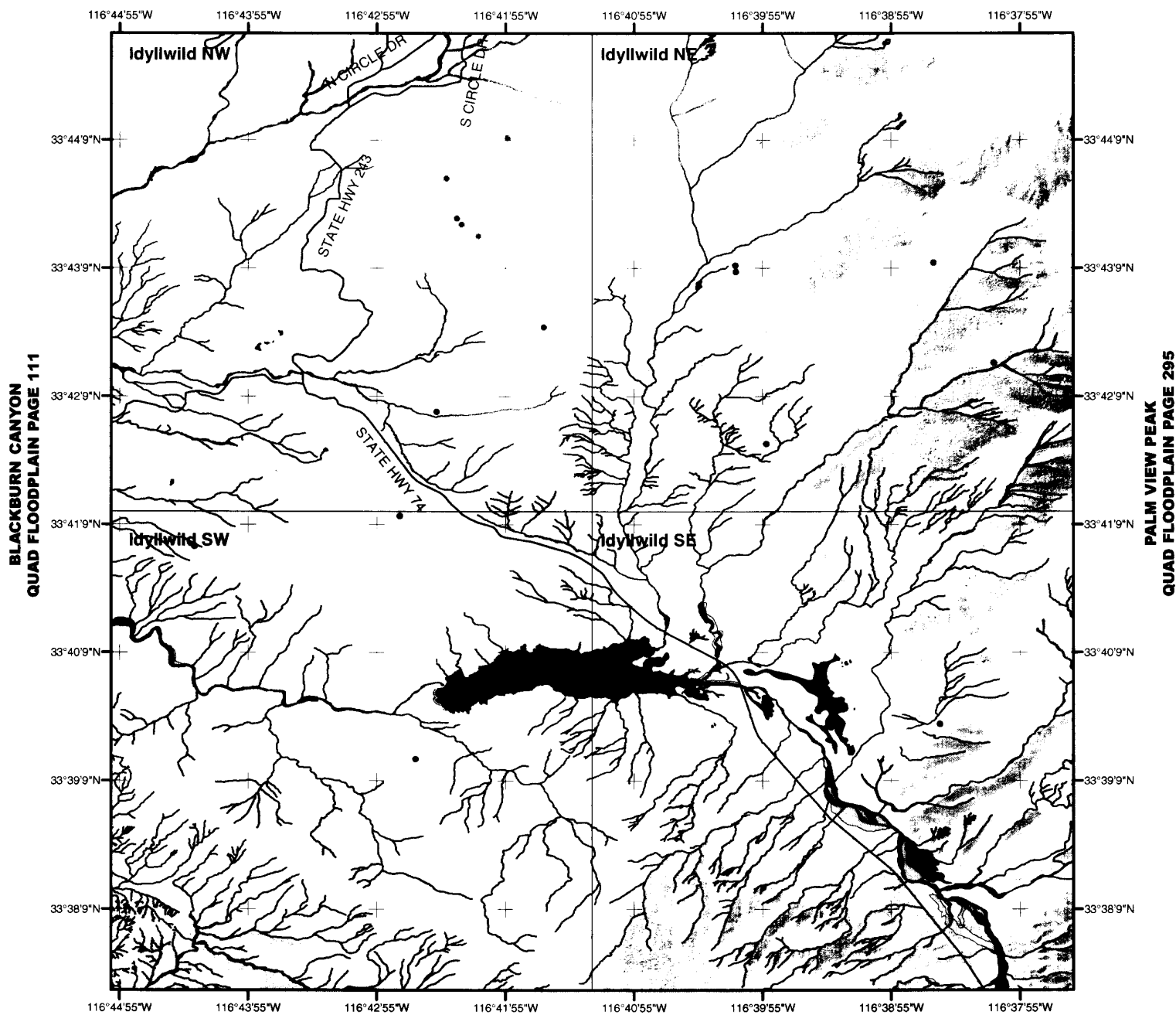


Idyllwild Quadrangle

Hydrogeomorphic Floodplain Units for Aquatic Resources

LAKE FULMOR
QUAD FLOODPLAIN PAGE 251

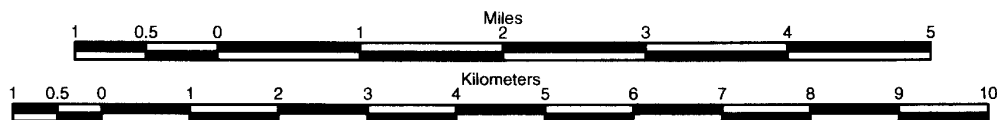
SAN JACINTO PEAK
QUAD FLOODPLAIN PAGE 409



CAHUILLA MOUNTAIN
QUAD FLOODPLAIN PAGE 161

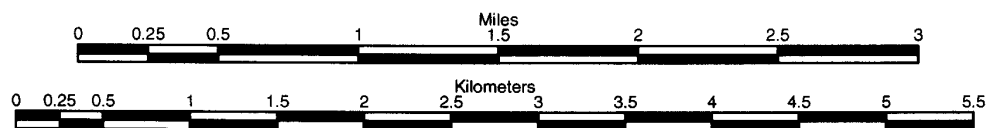
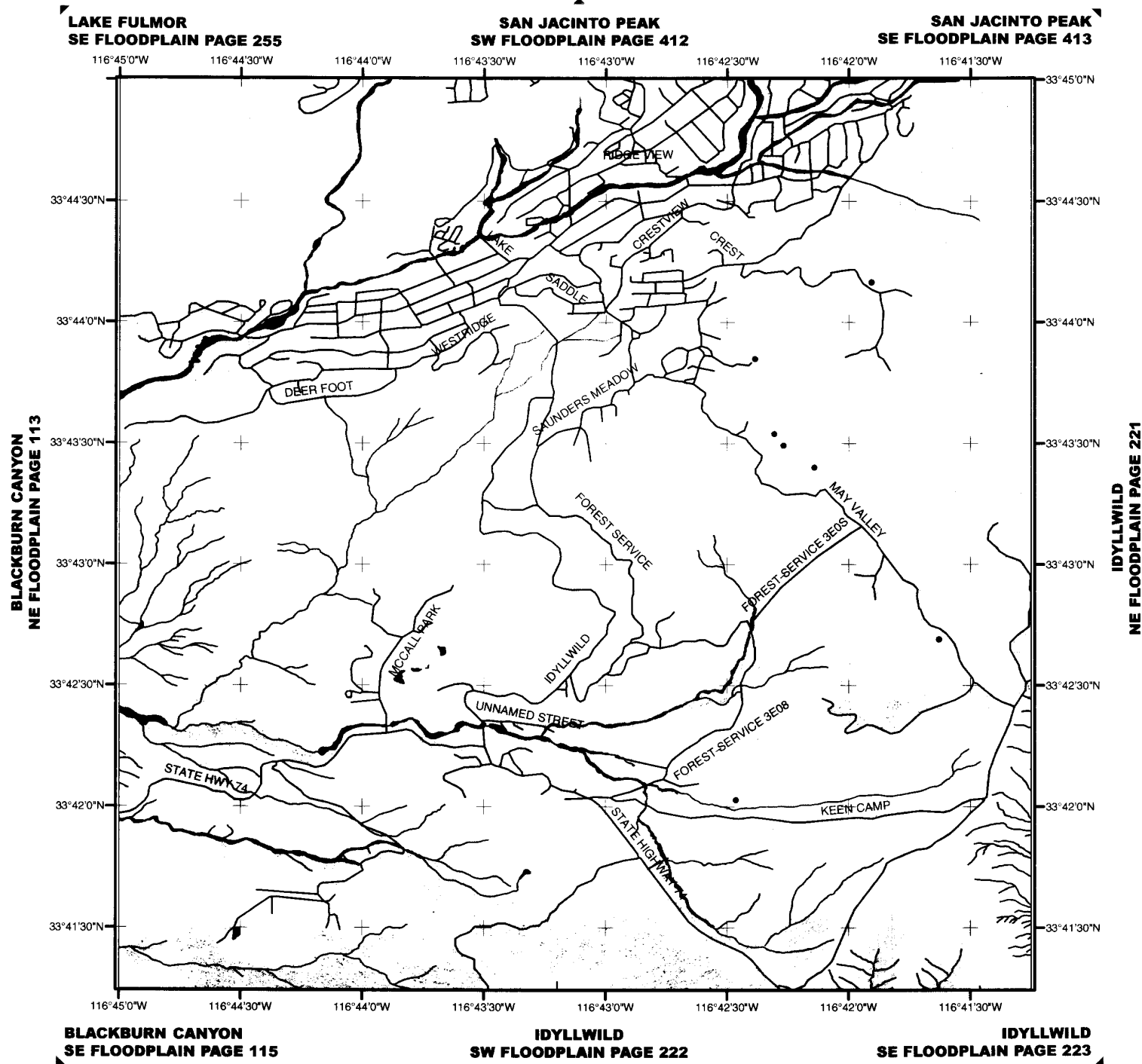
ANZA
QUAD FLOODPLAIN PAGE 47

BUTTERFLY PEAK
QUAD FLOODPLAIN PAGE 141



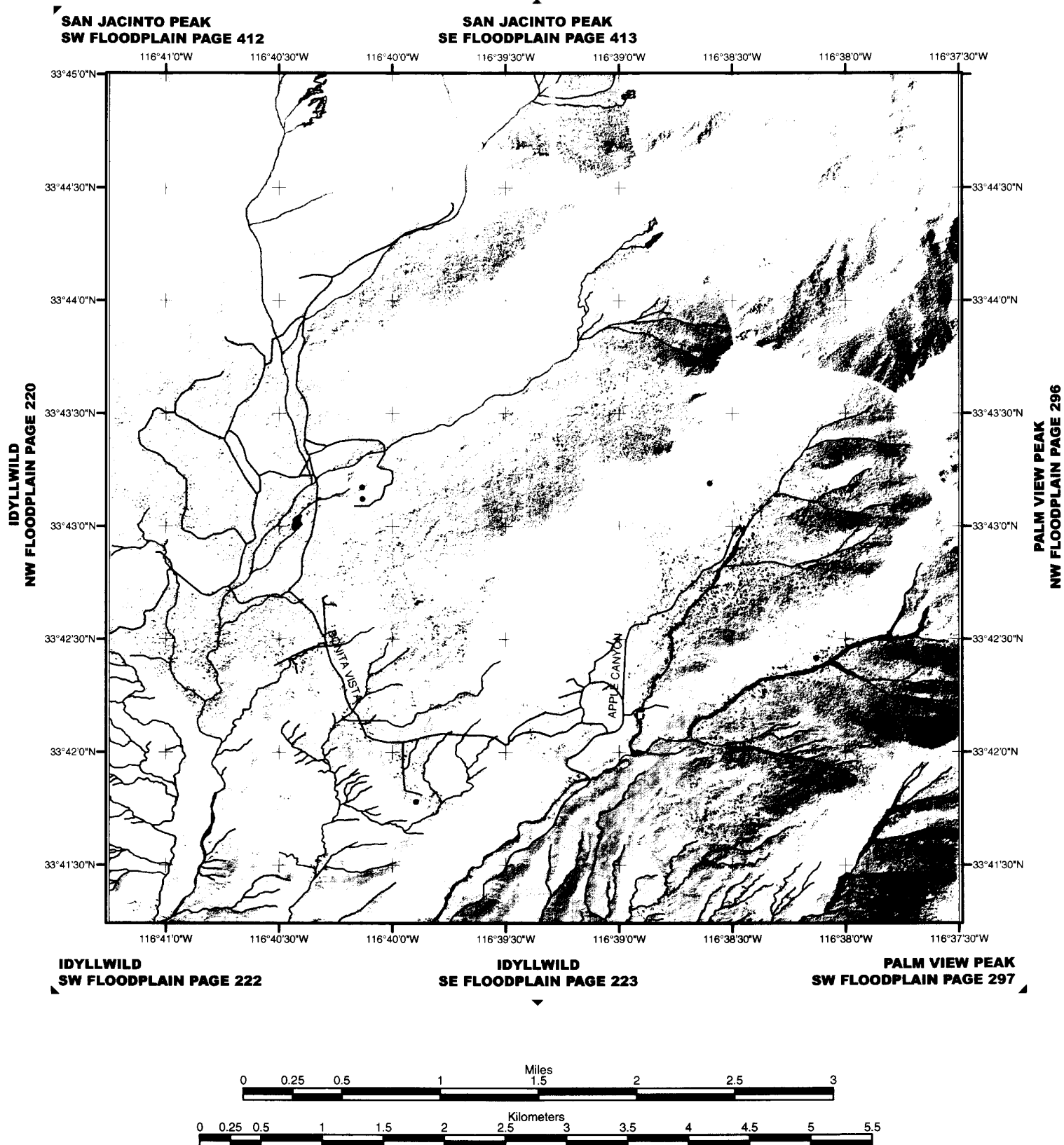
Idyllwild North West Quarter-Quadrangle

Hydrogeomorphic Floodplain Units for Aquatic Resources

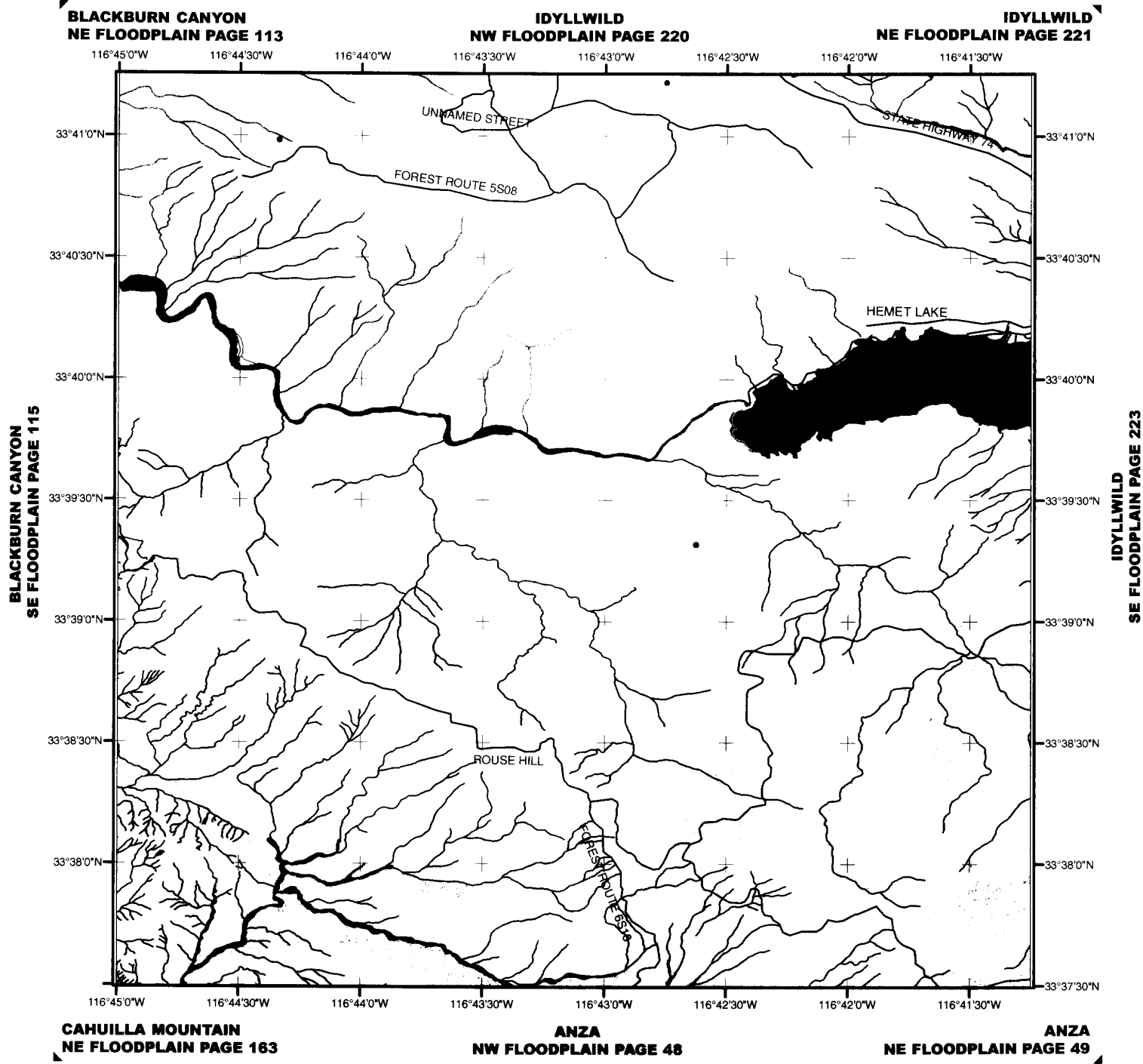


Idyllwild North East Quarter-Quadrangle

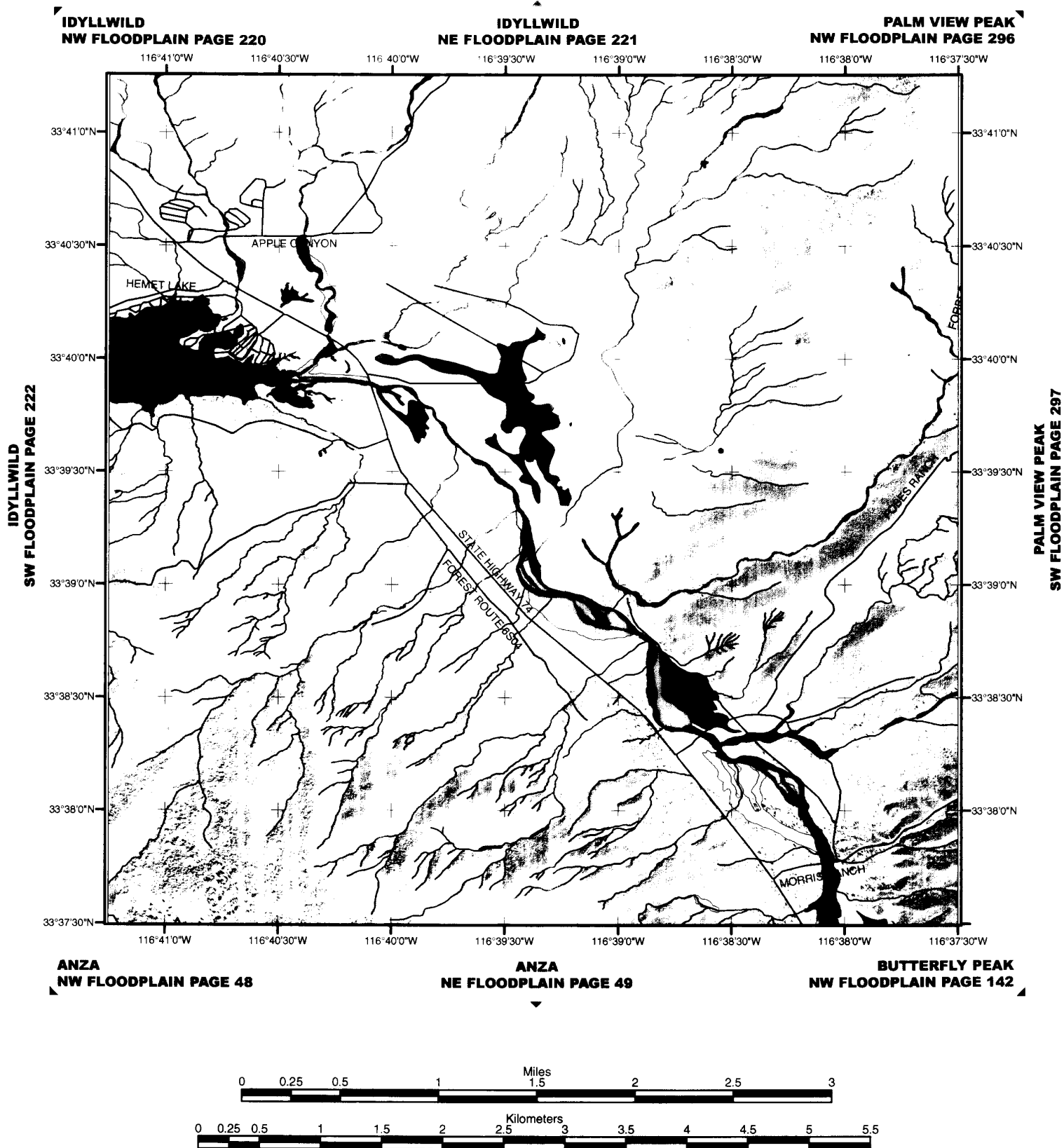
Hydrogeomorphic Floodplain Units for Aquatic Resources



Idyllwild South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

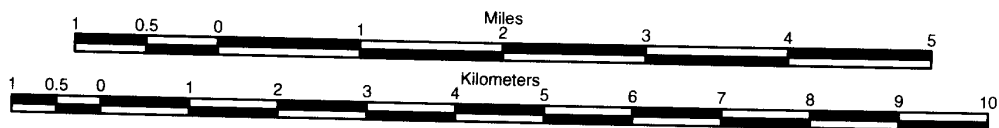
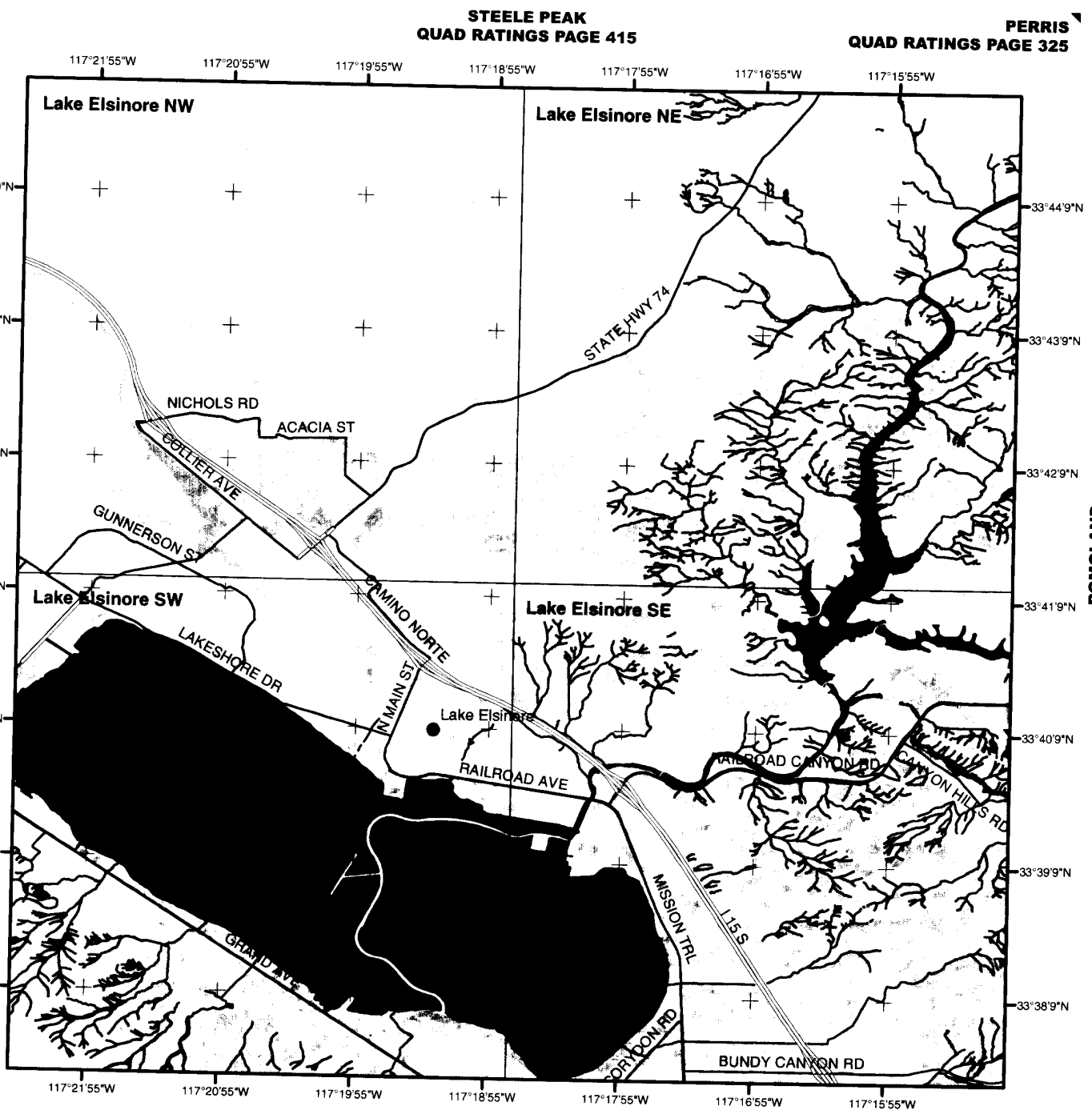


Idyllwild South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

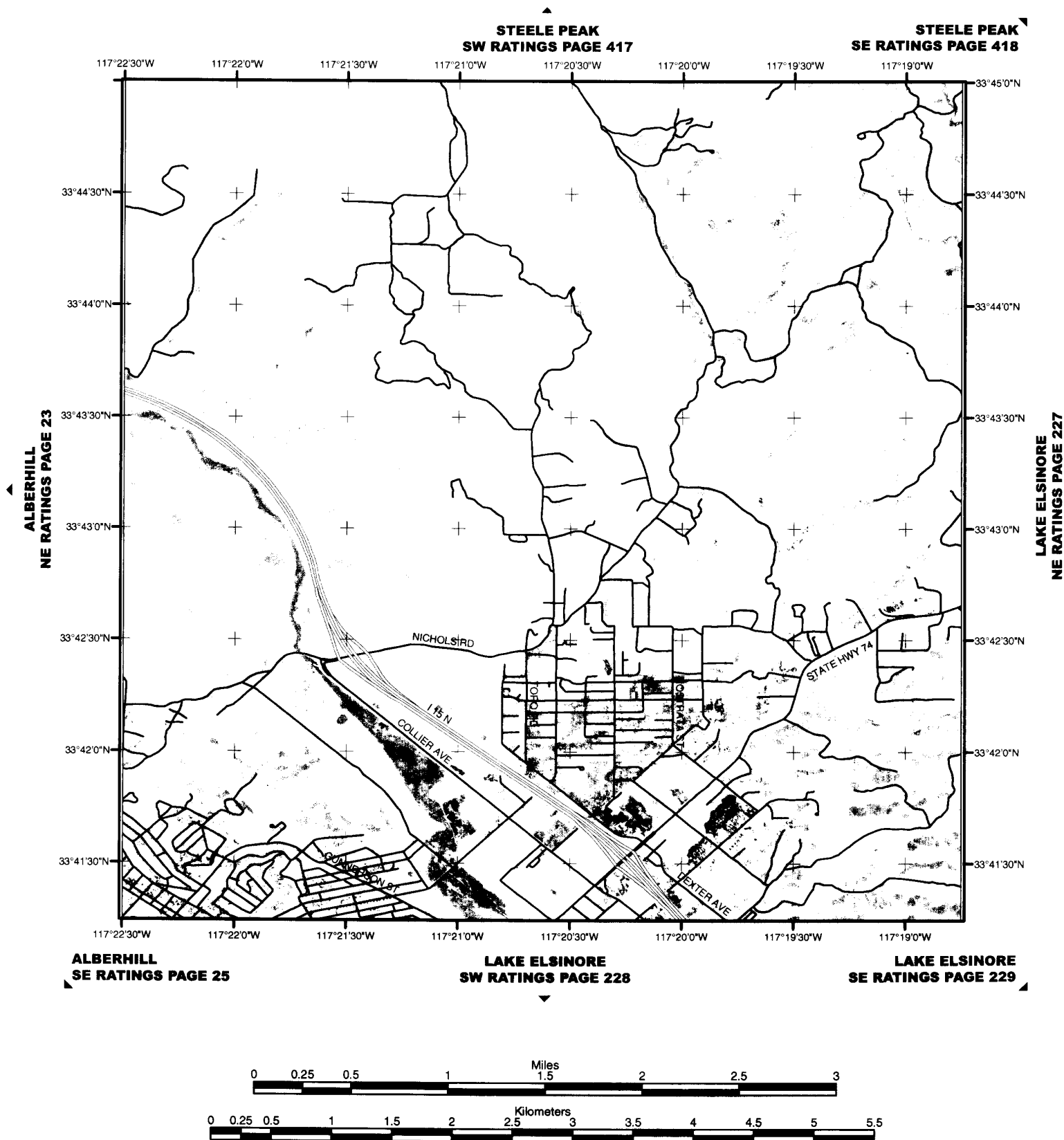


Lake Elsinore Quadrangle

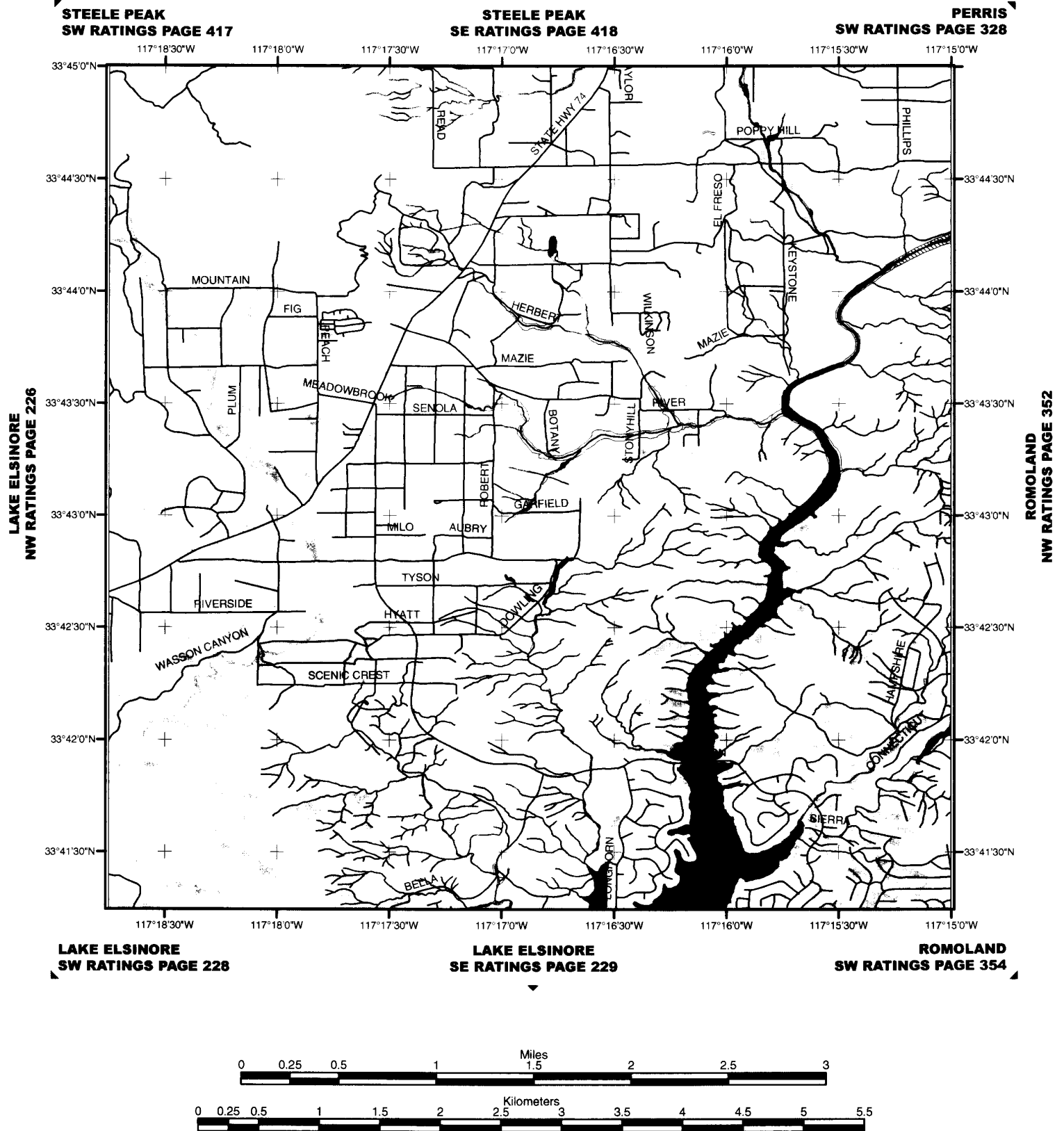
Regulatory Probability Ratings for Aquatic Resources



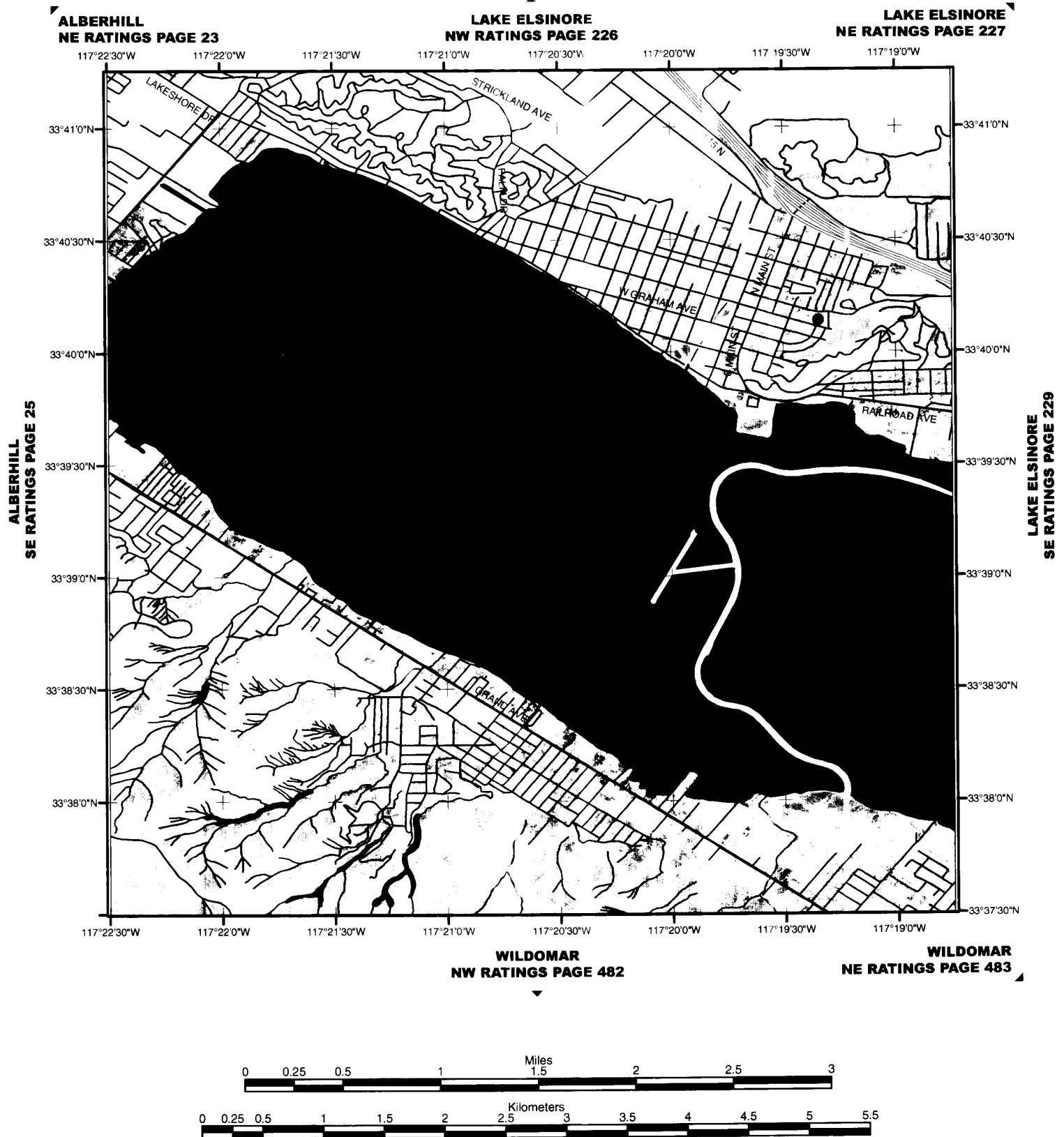
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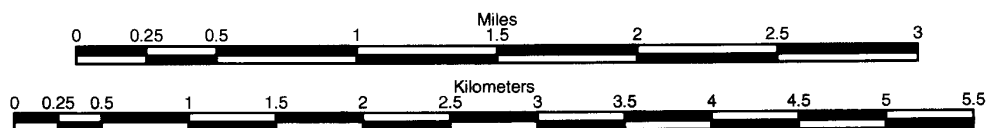
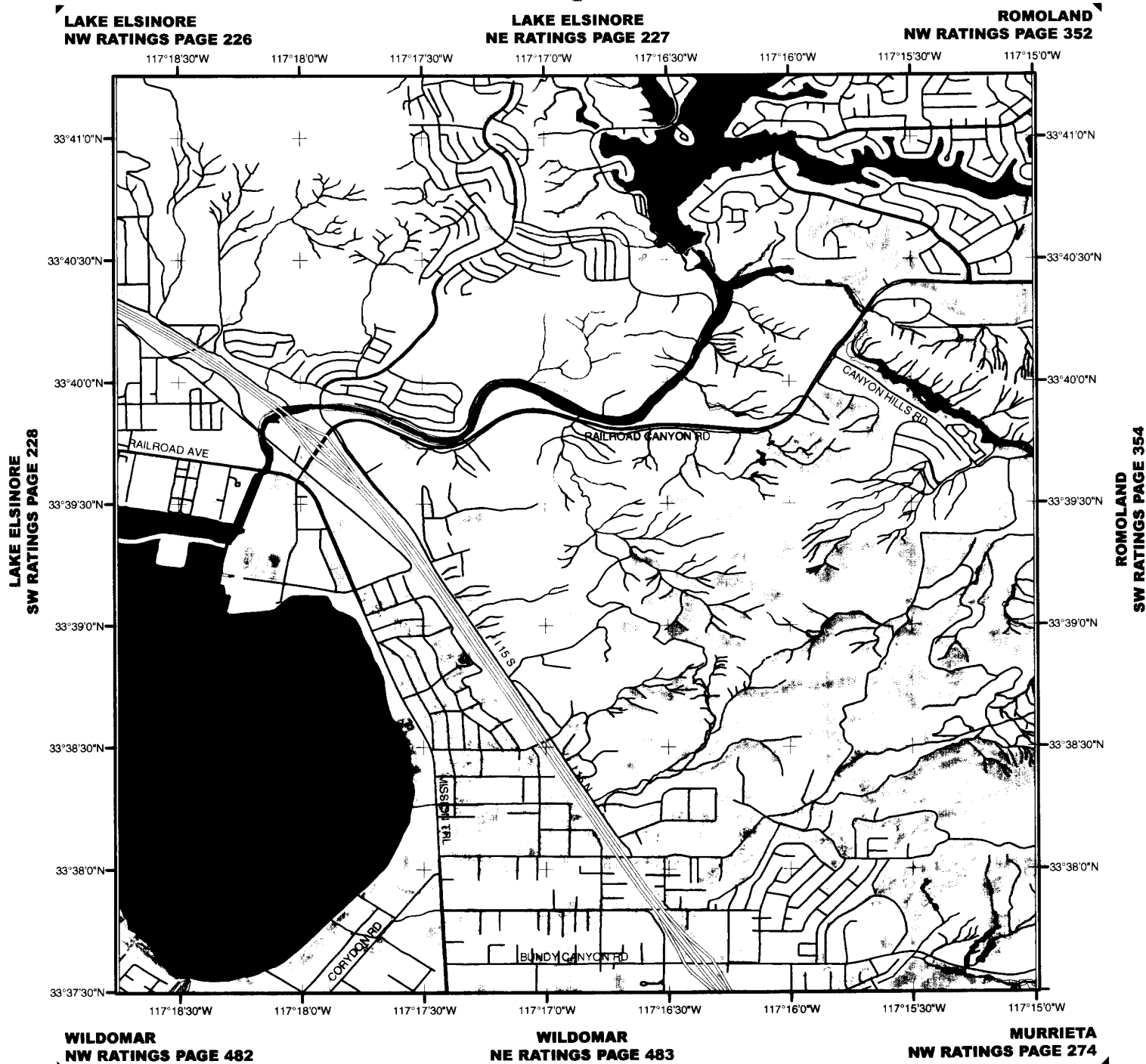
Lake Elsinore North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



Lake Elsinore South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

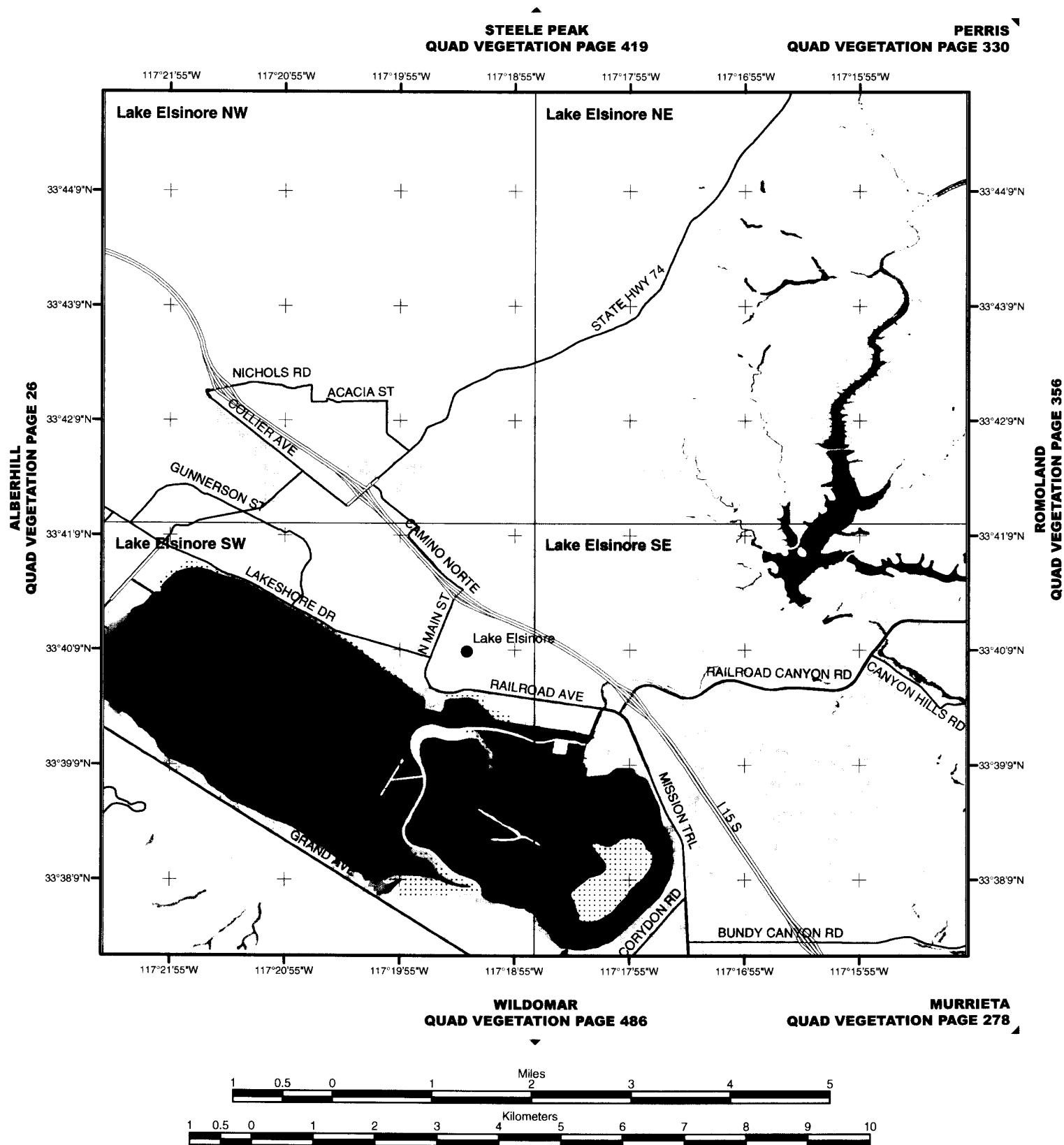


Lake Elsinore South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

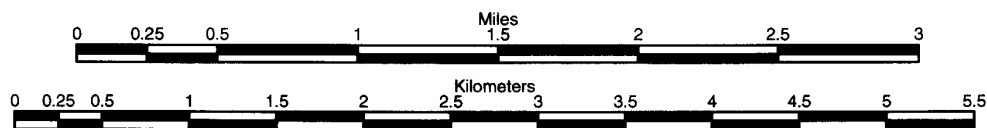
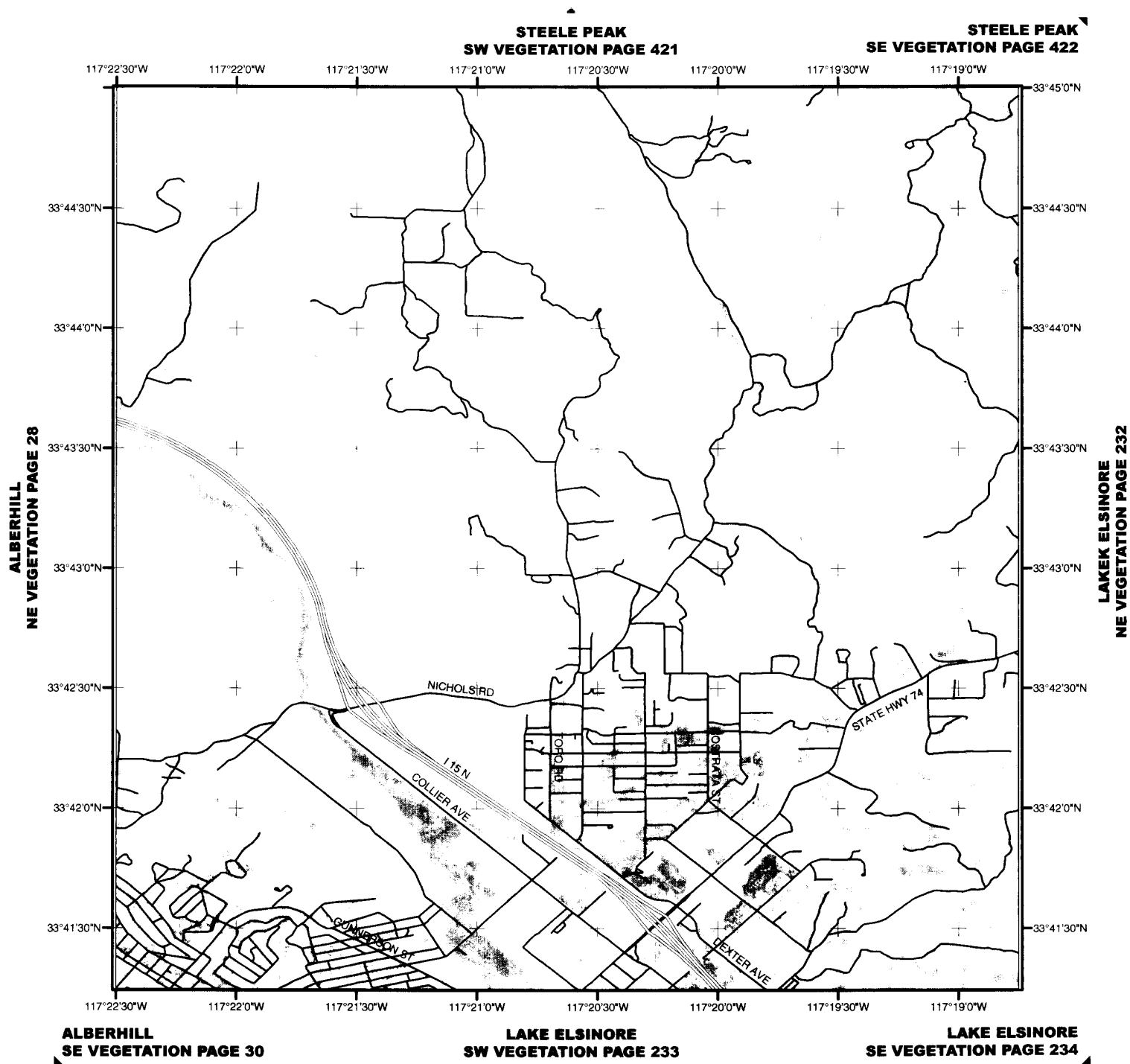


Lake Elsinore Quadrangle

Vegetation Species Association Units for Aquatic Resources

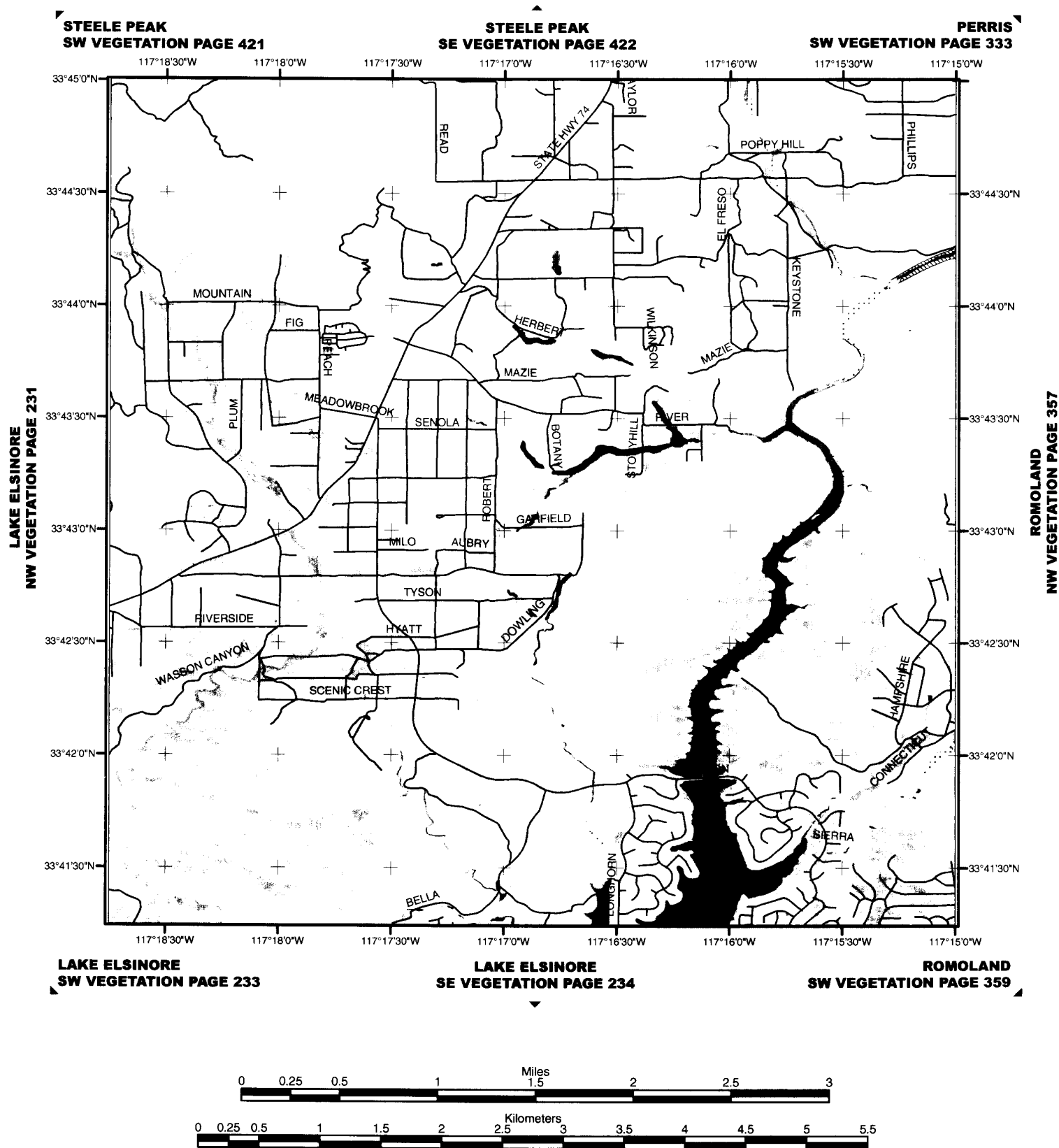


Lake Elsinore North West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

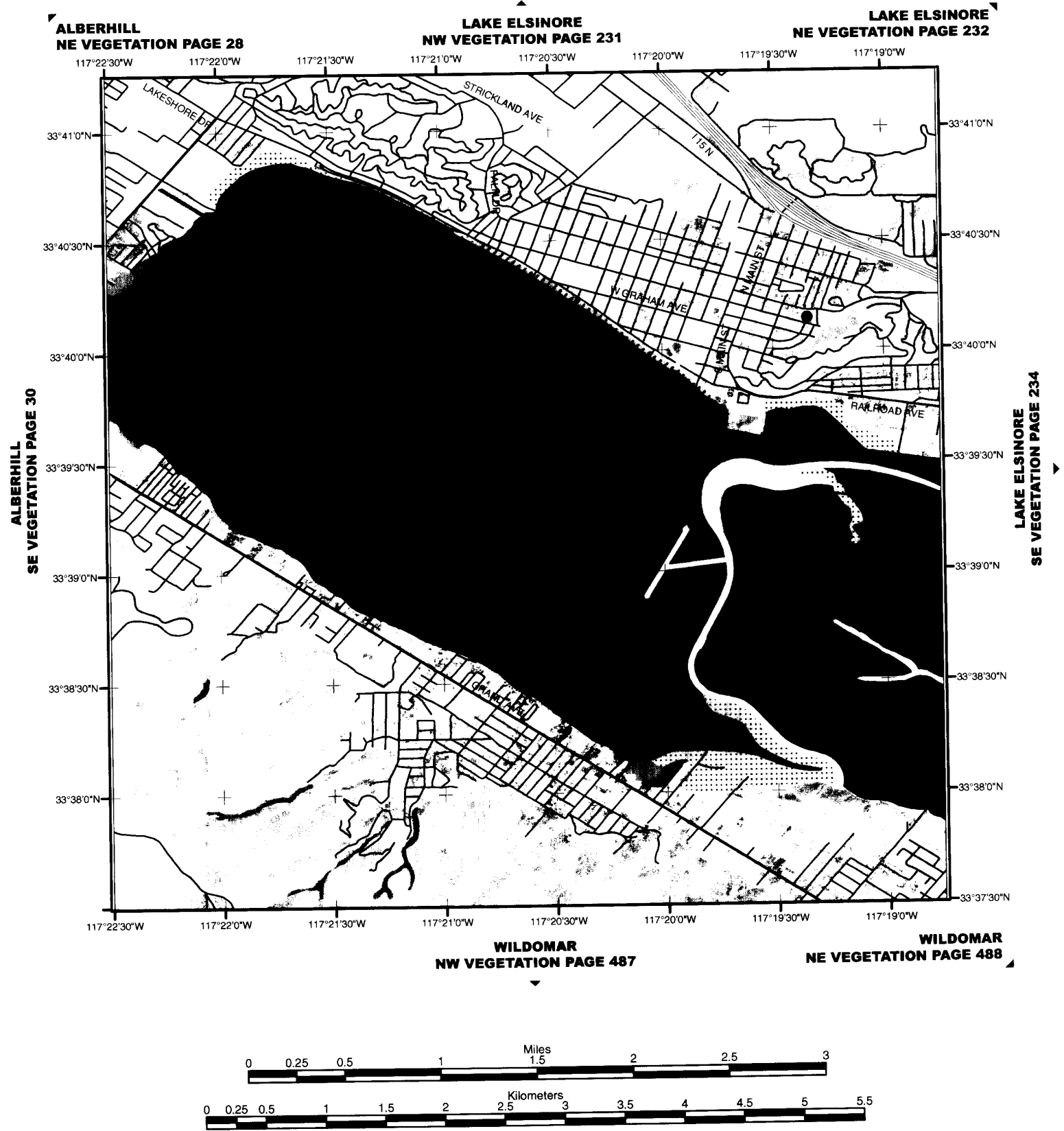


Lake Elsinore North East Quarter-Quadrangle

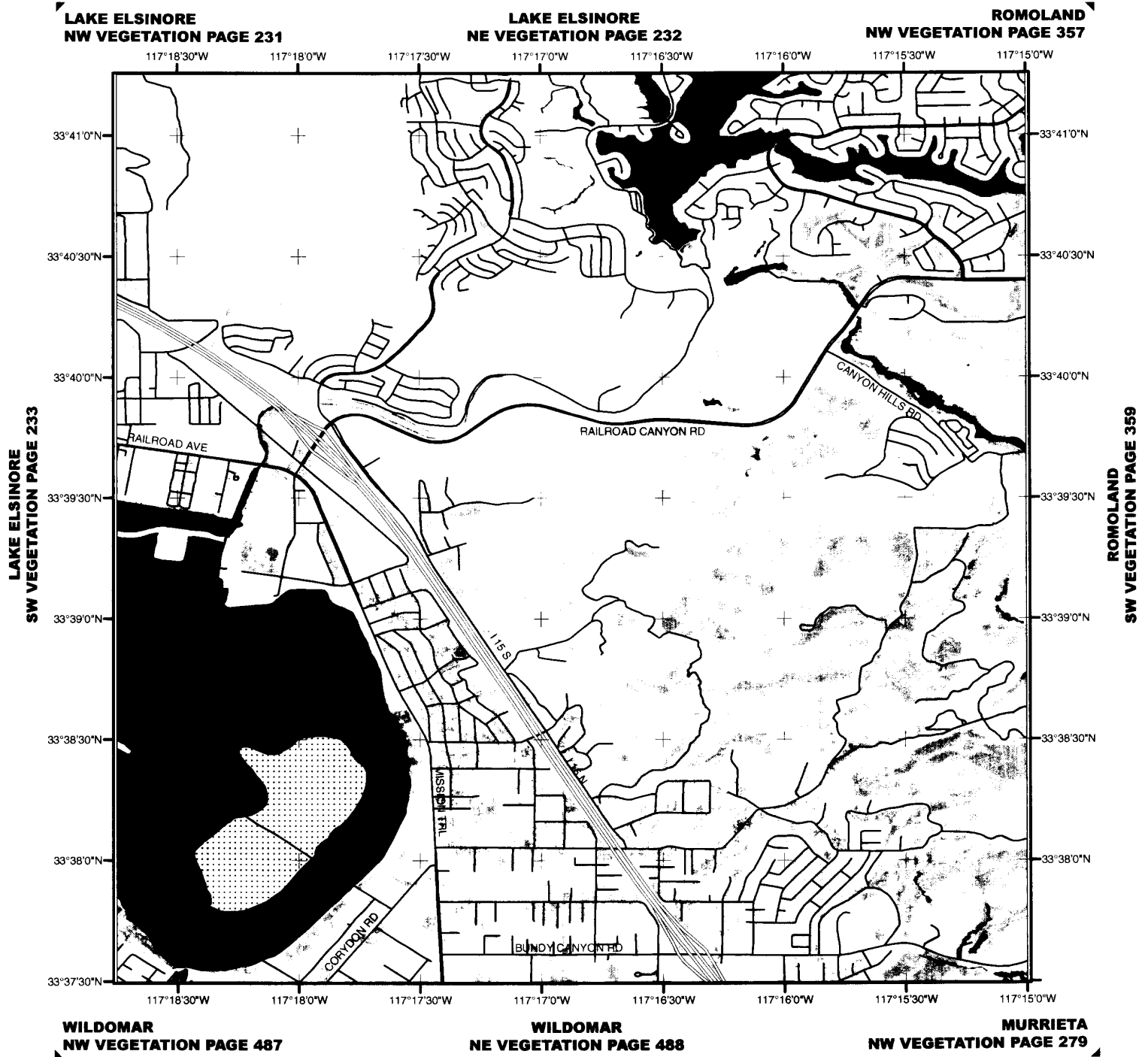
Vegetation Species Association Units for Aquatic Resources



Lake Elsinore South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



Lake Elsinore South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



Lake Elsinore Quadrangle

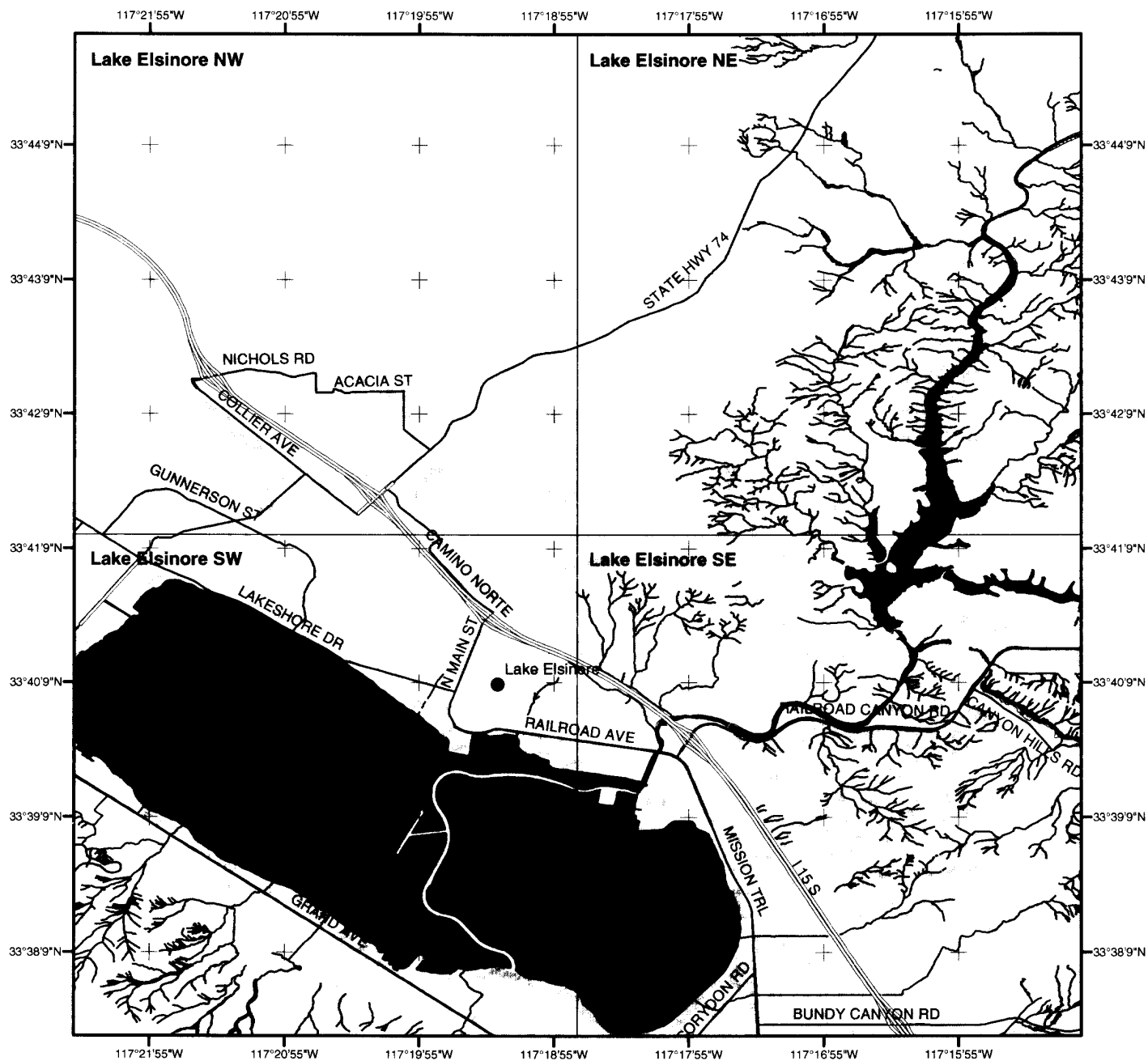
Hydrogeomorphic Floodplain Units for Aquatic Resources

STEELE PEAK
QUAD FLOODPLAIN PAGE 423

PERRIS
QUAD FLOODPLAIN PAGE 335

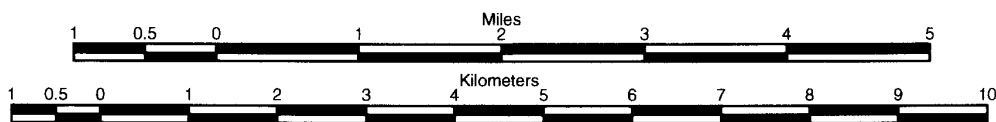
ALBERHILL
QUAD FLOODPLAIN PAGE 31

ROMOLAND
QUAD FLOODPLAIN PAGE 361

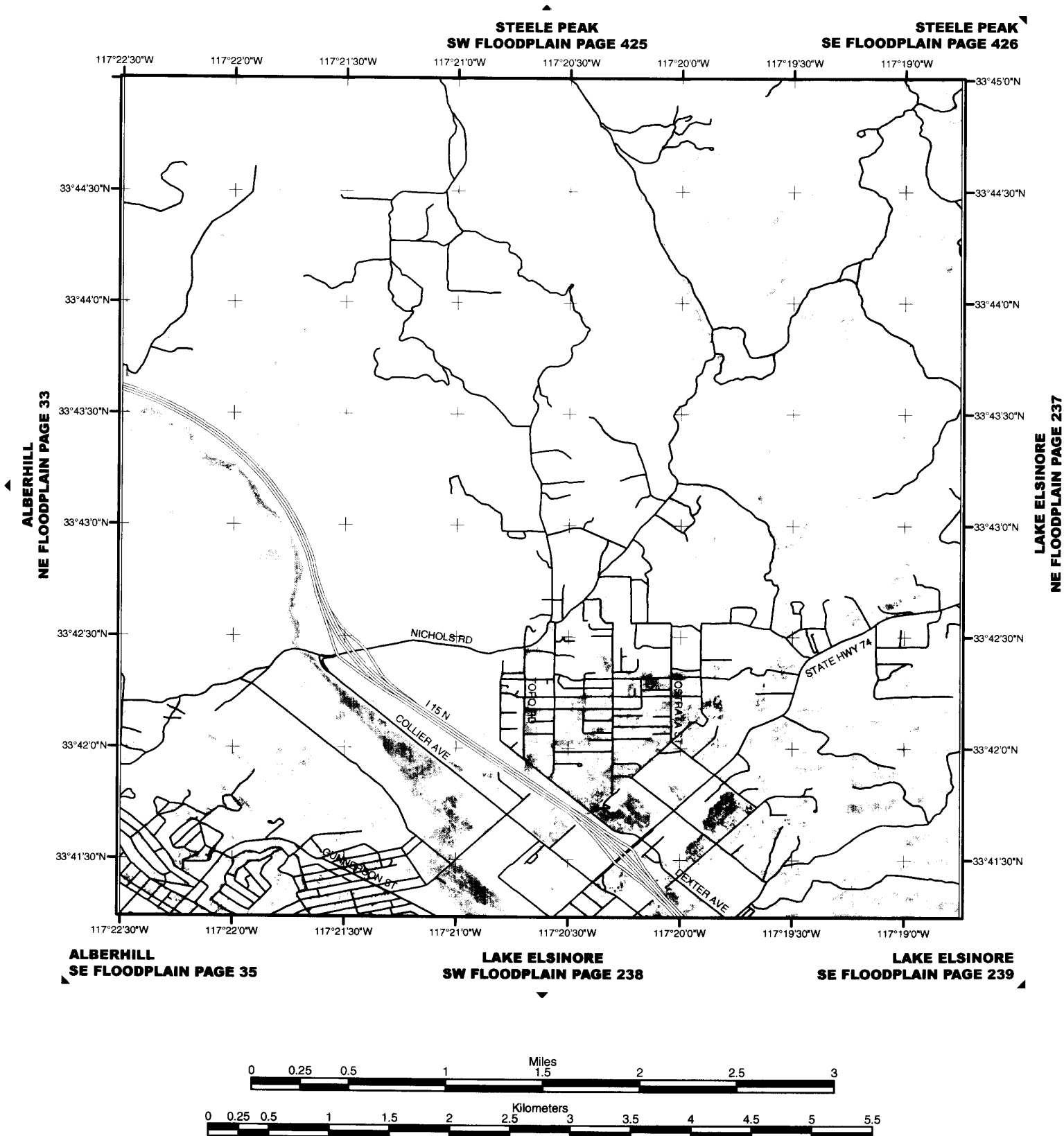


WILDOMAR
QUAD FLOODPLAIN PAGE 491

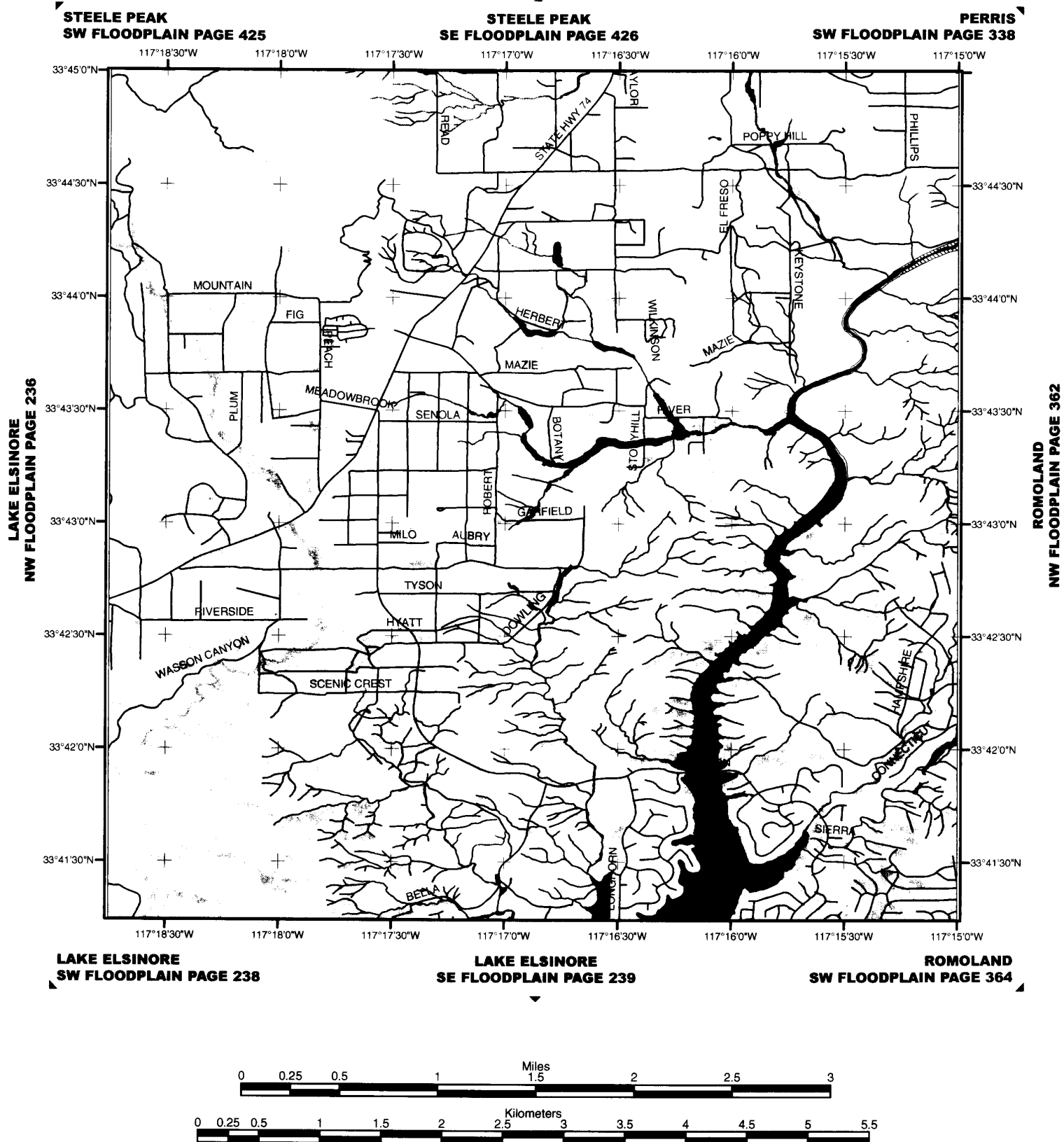
MURRIETA
QUAD FLOODPLAIN PAGE 283



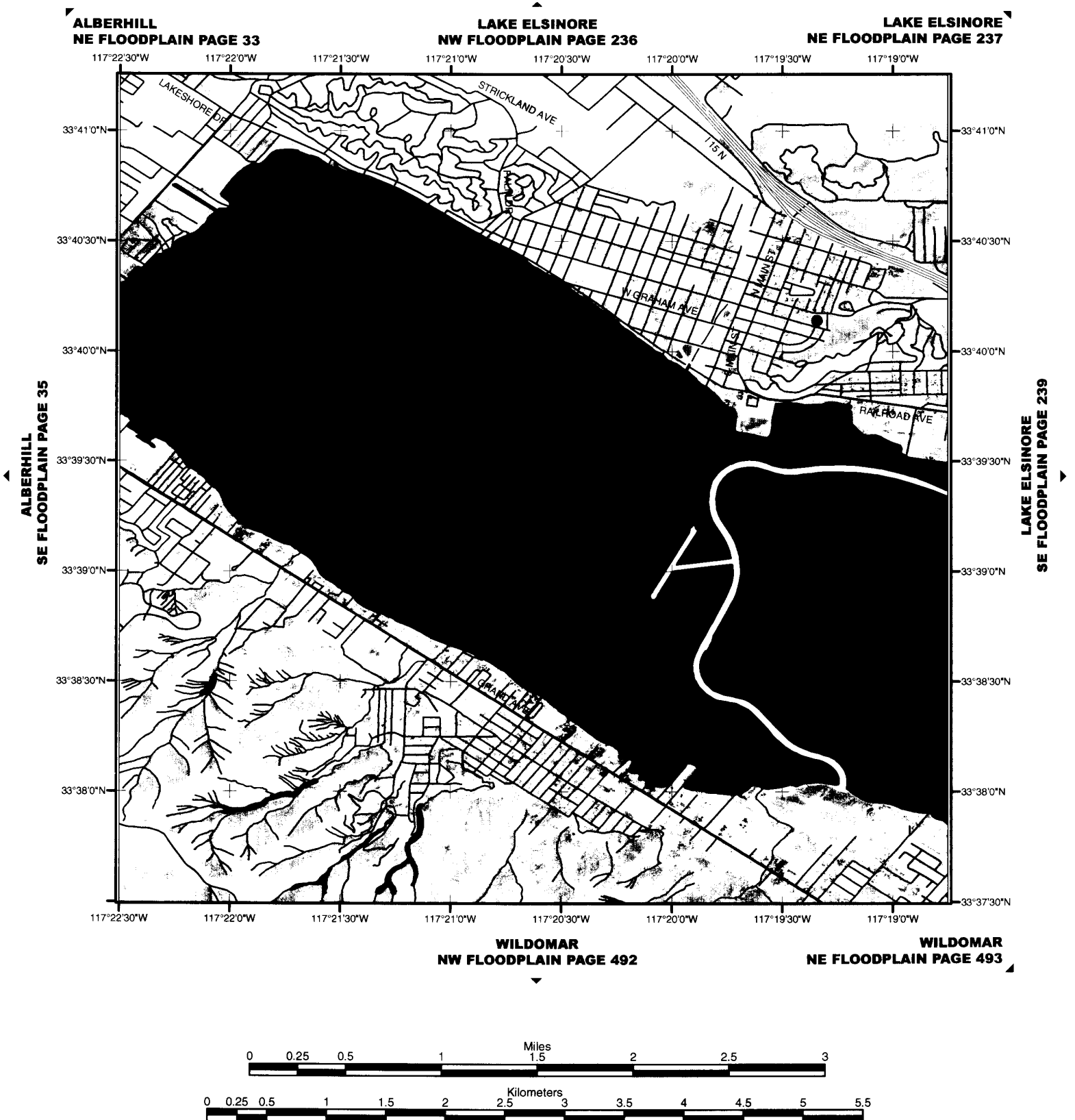
Lake Elsinore North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



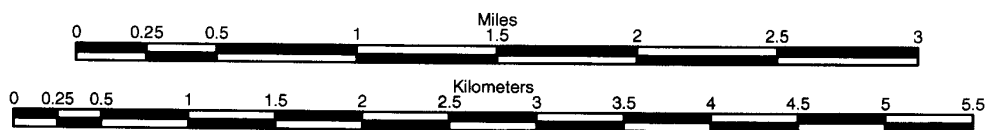
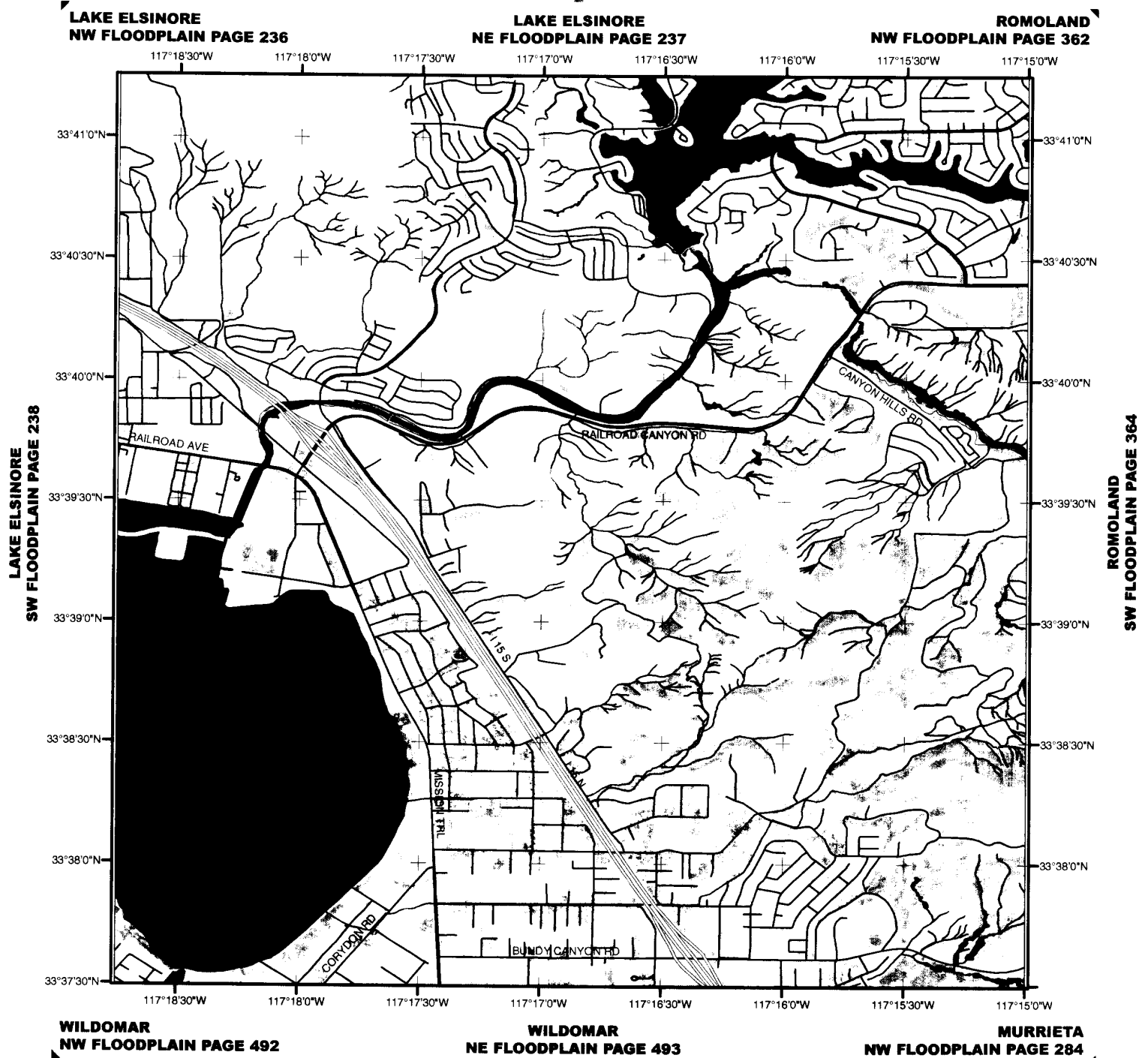
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Lake Elsinore South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

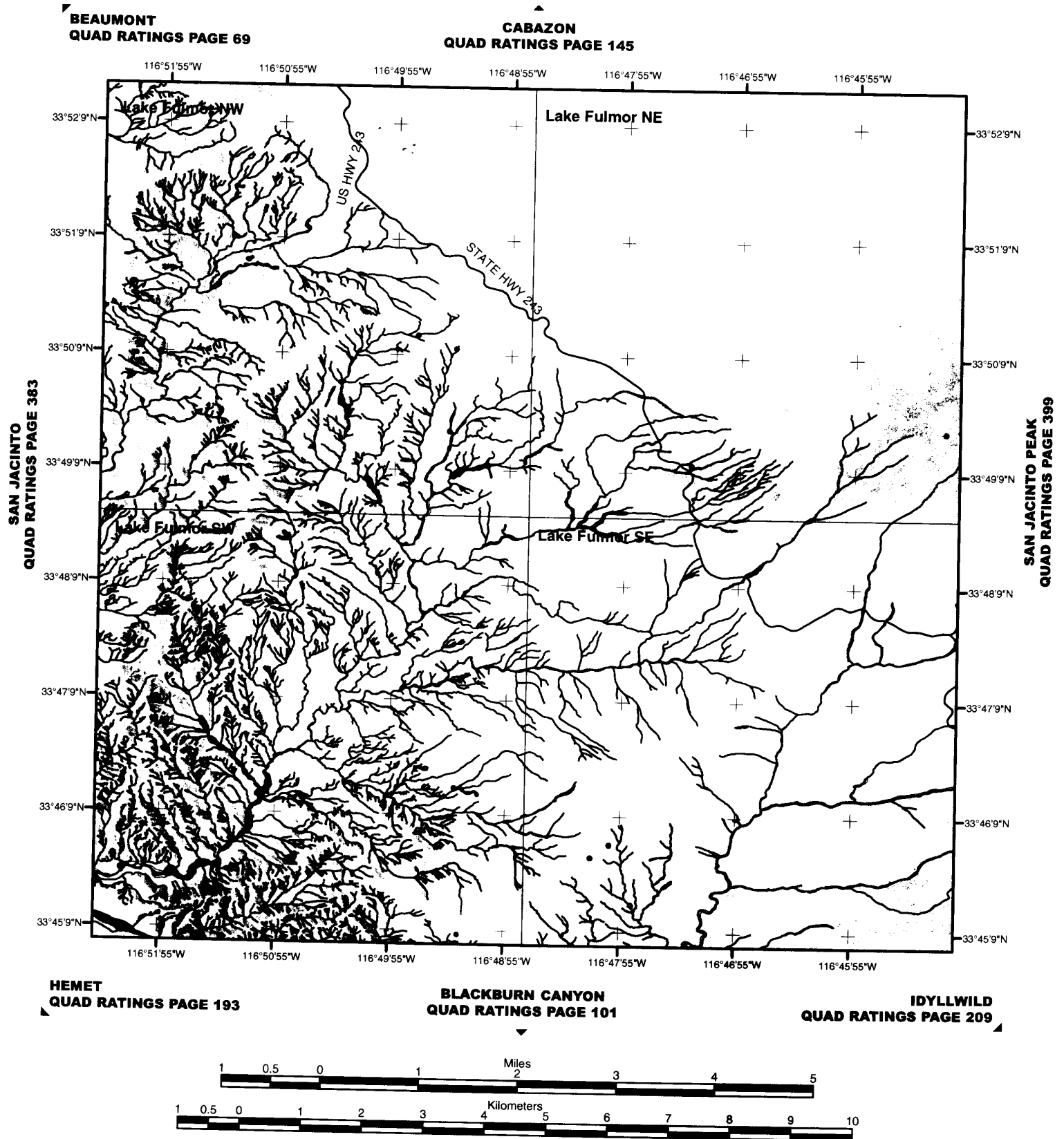


Lake Elsinore South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

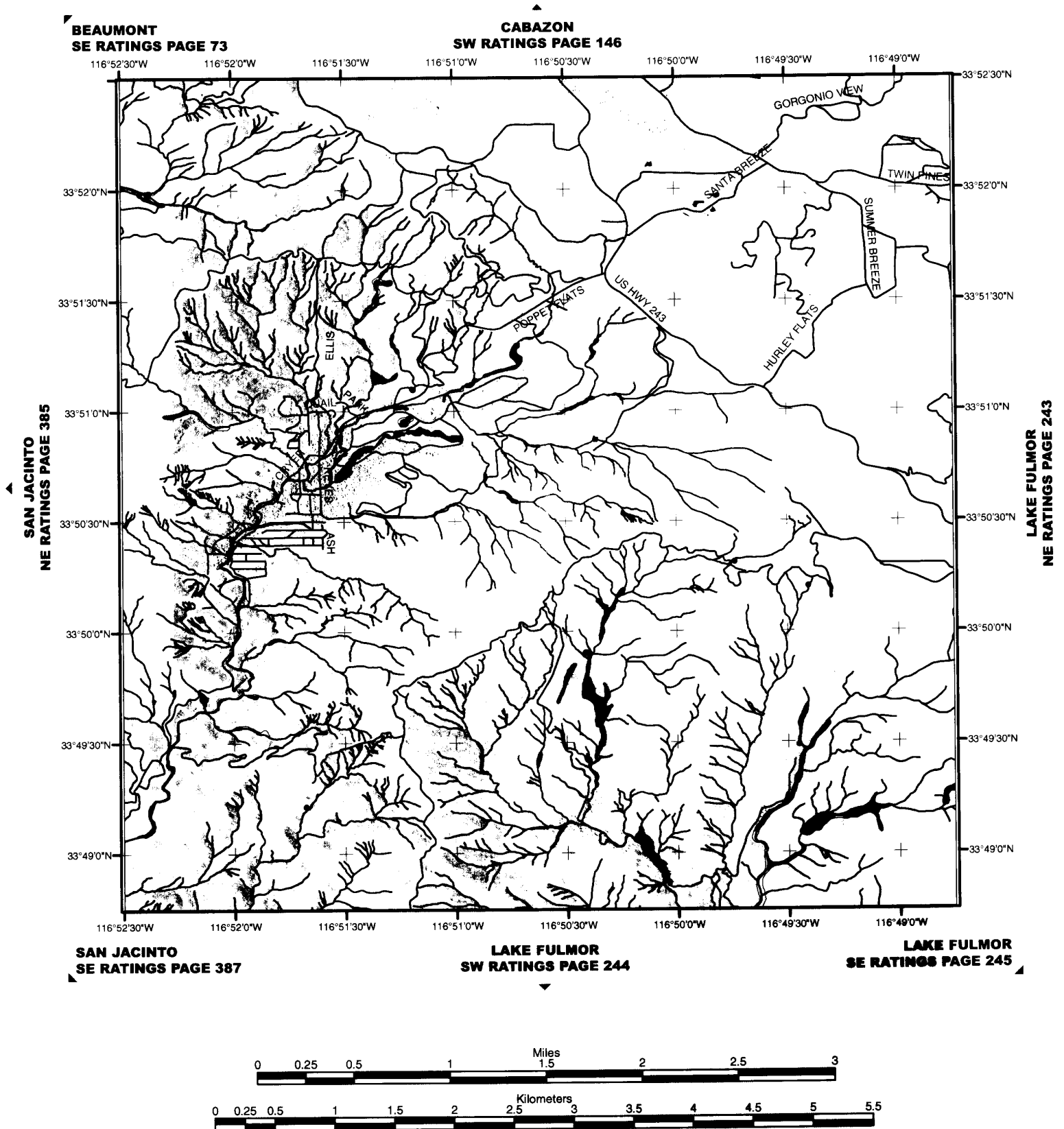


Lake Fulmor Quadrangle

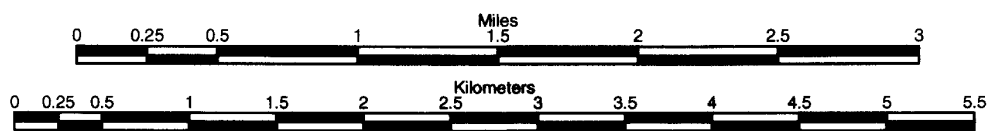
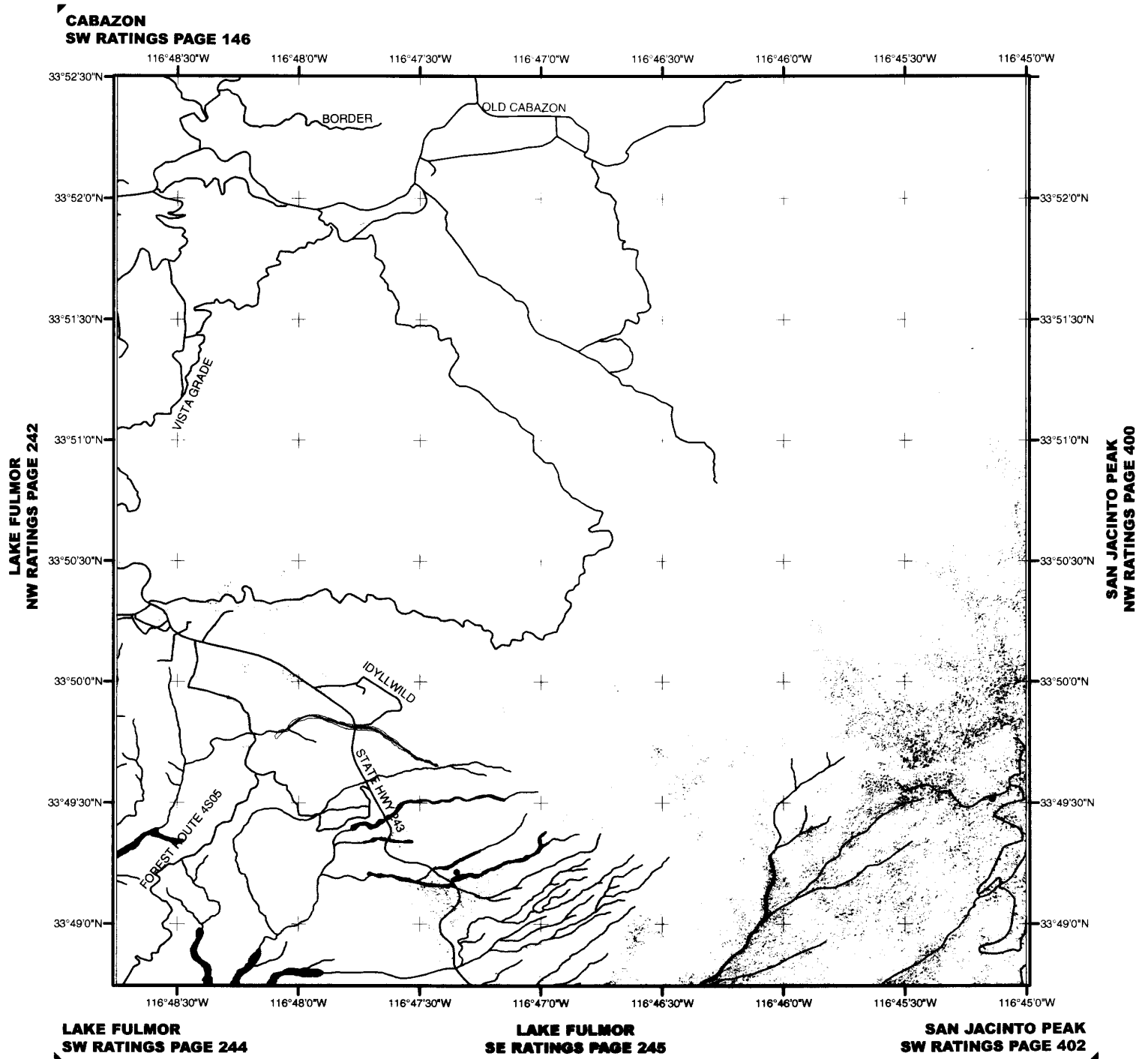
Regulatory Probability Ratings for Aquatic Resources



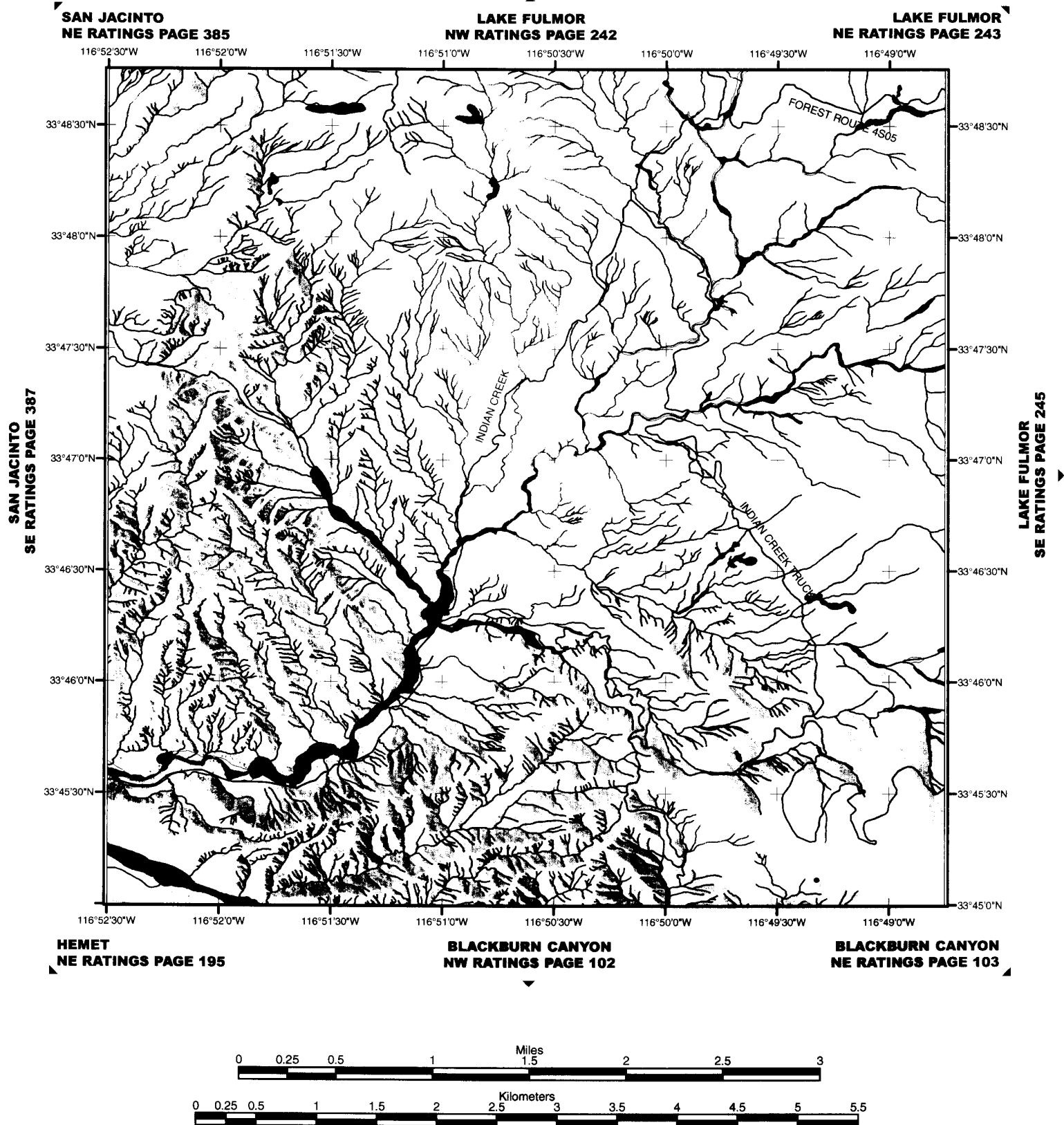
Lake Fulmor North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



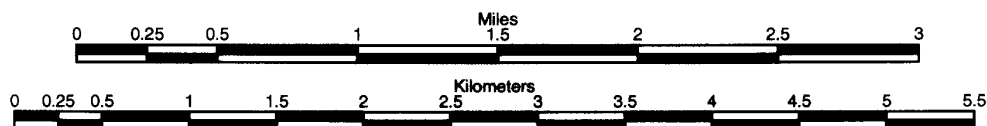
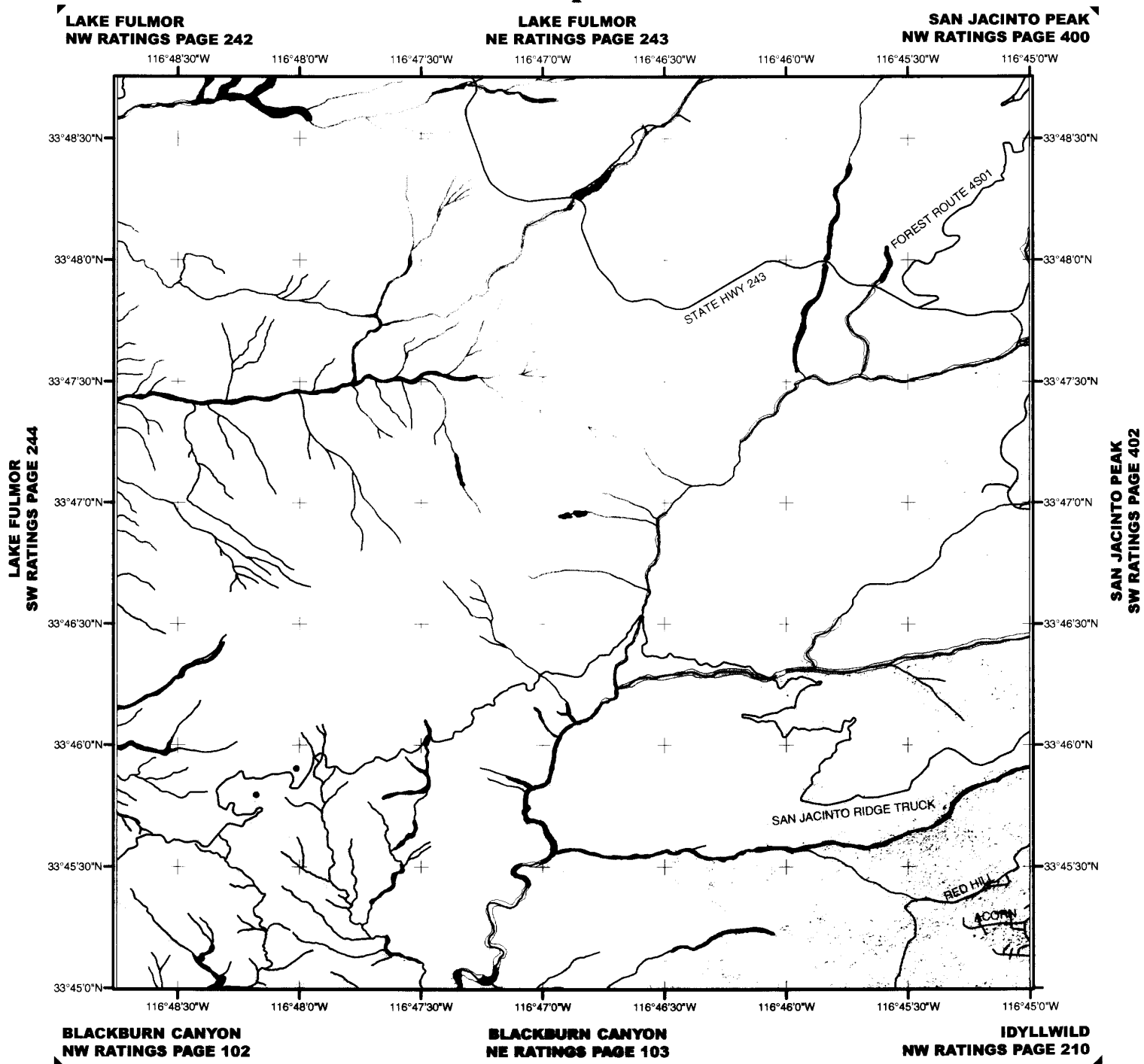
Lake Fulmor North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



Lake Fulmor South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

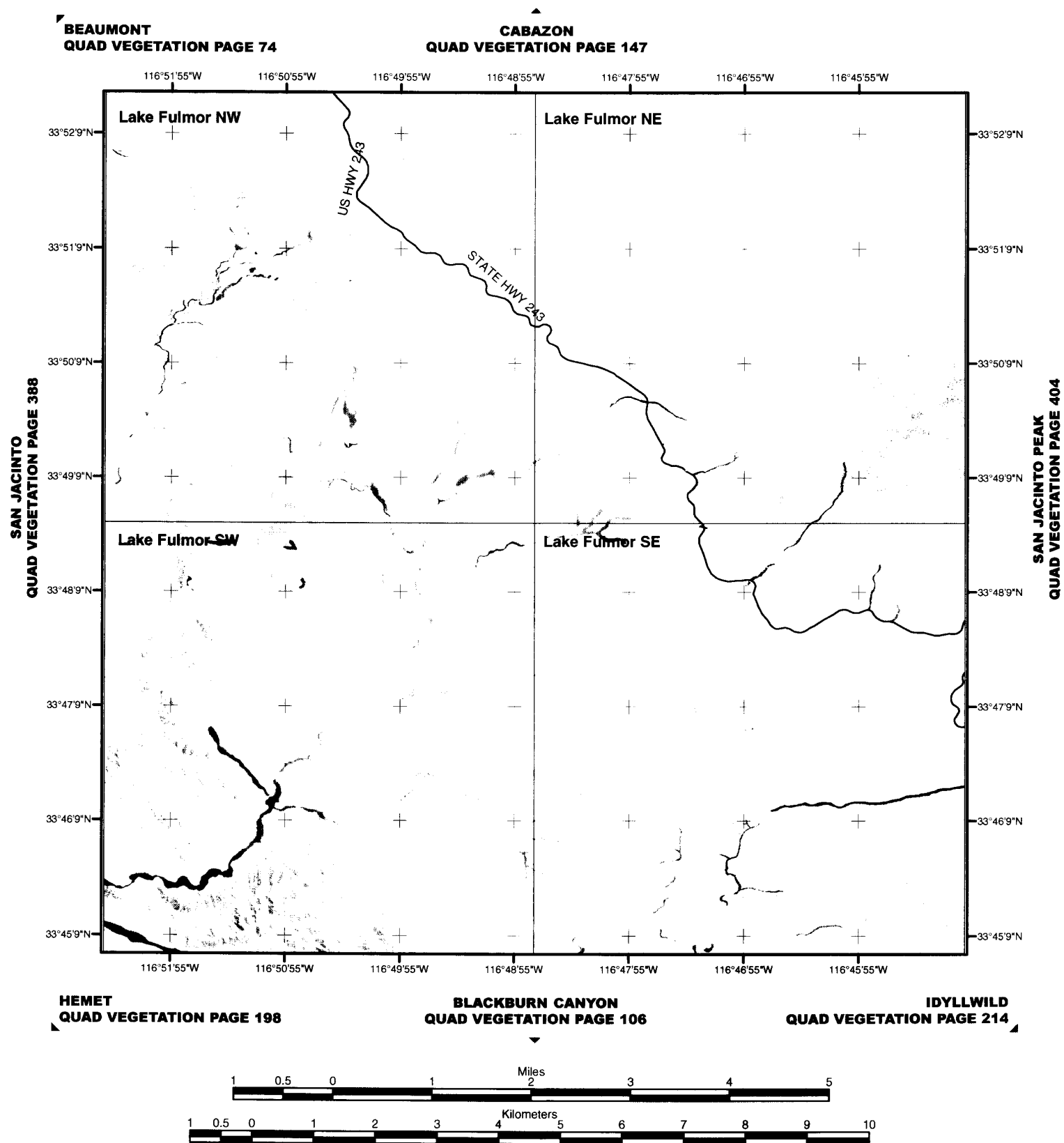


Lake Fulmor South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

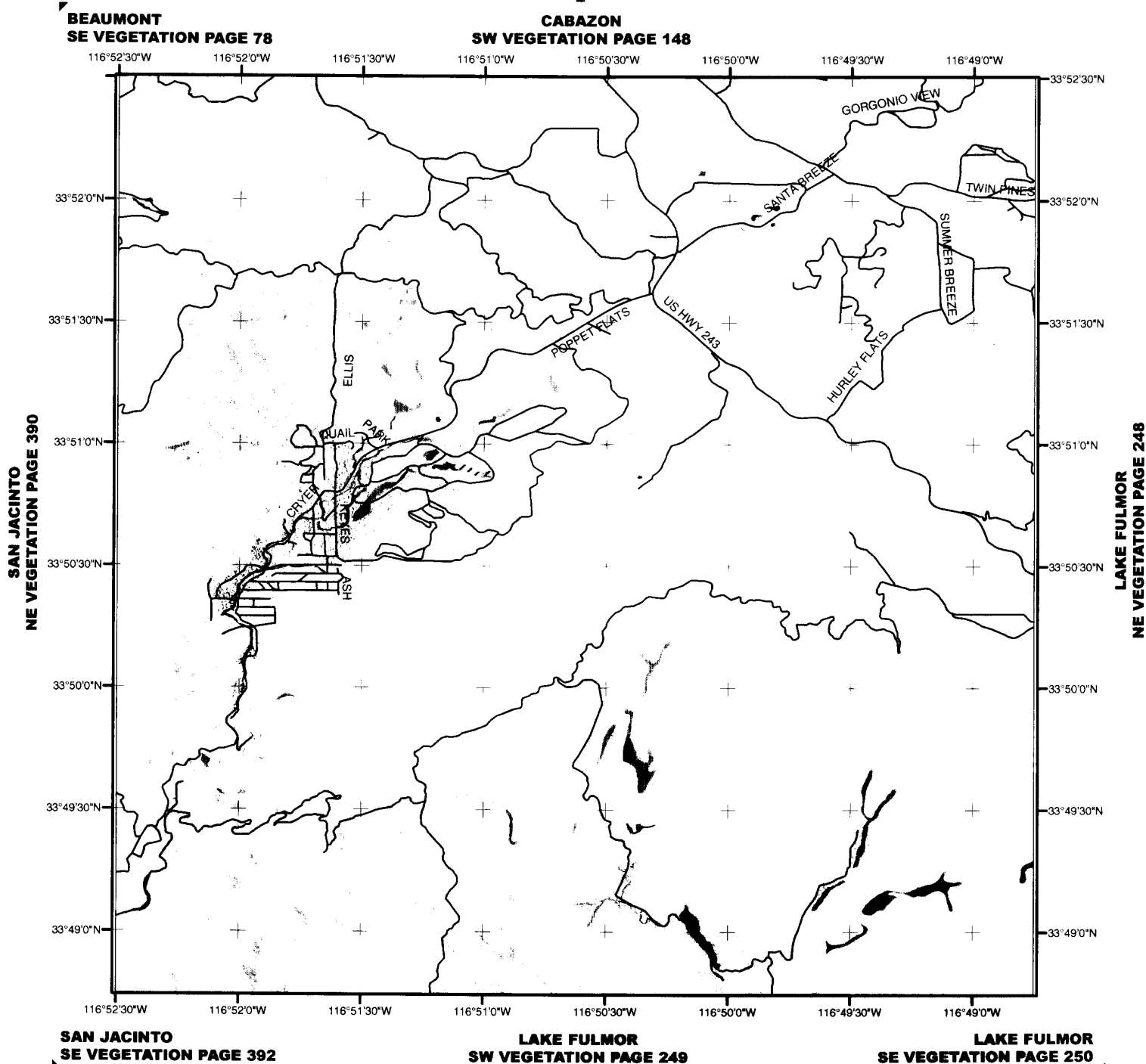


Lake Fulmor Quadrangle

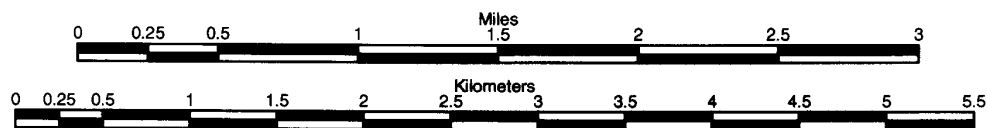
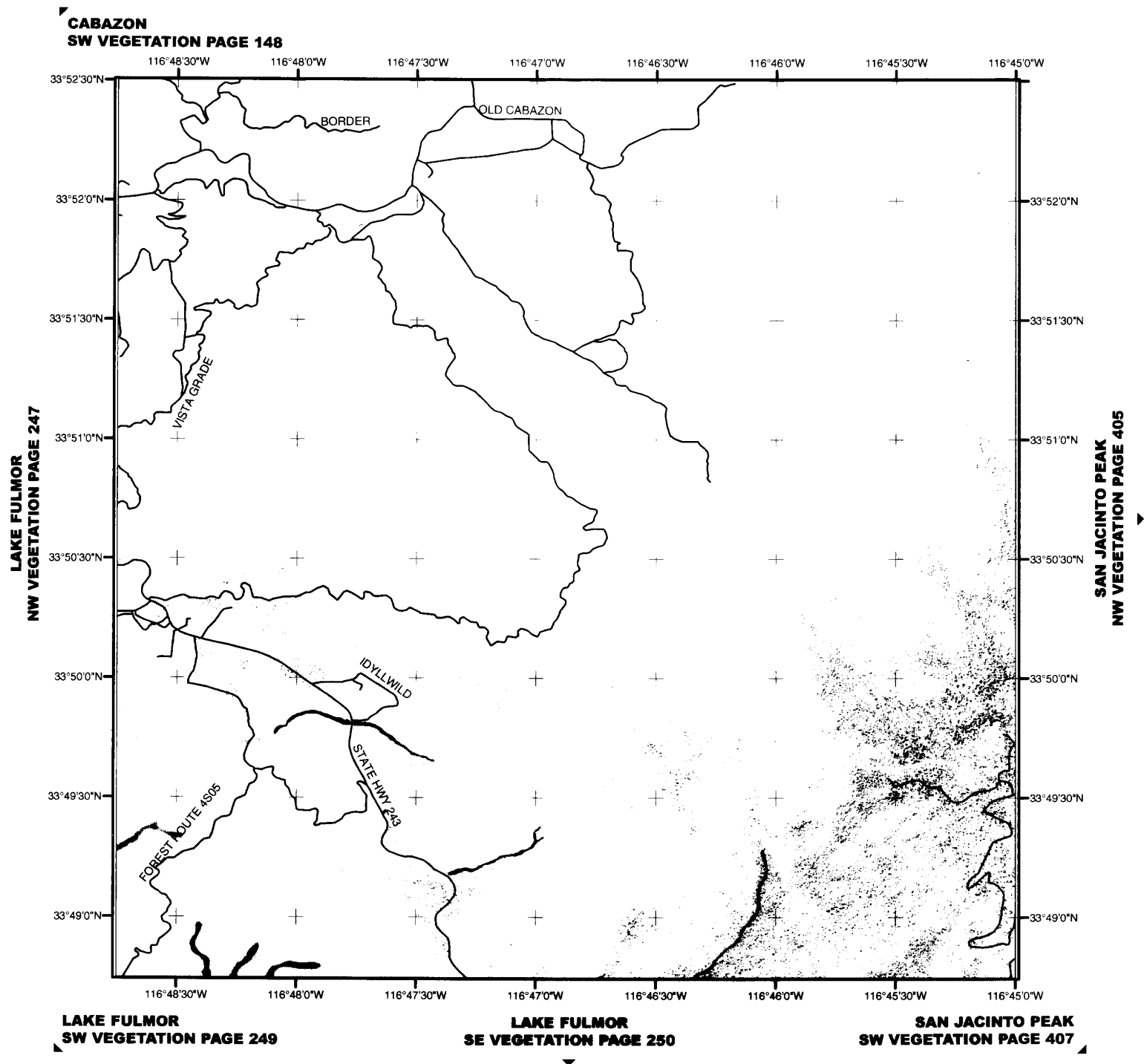
Vegetation Species Association Units for Aquatic Resources



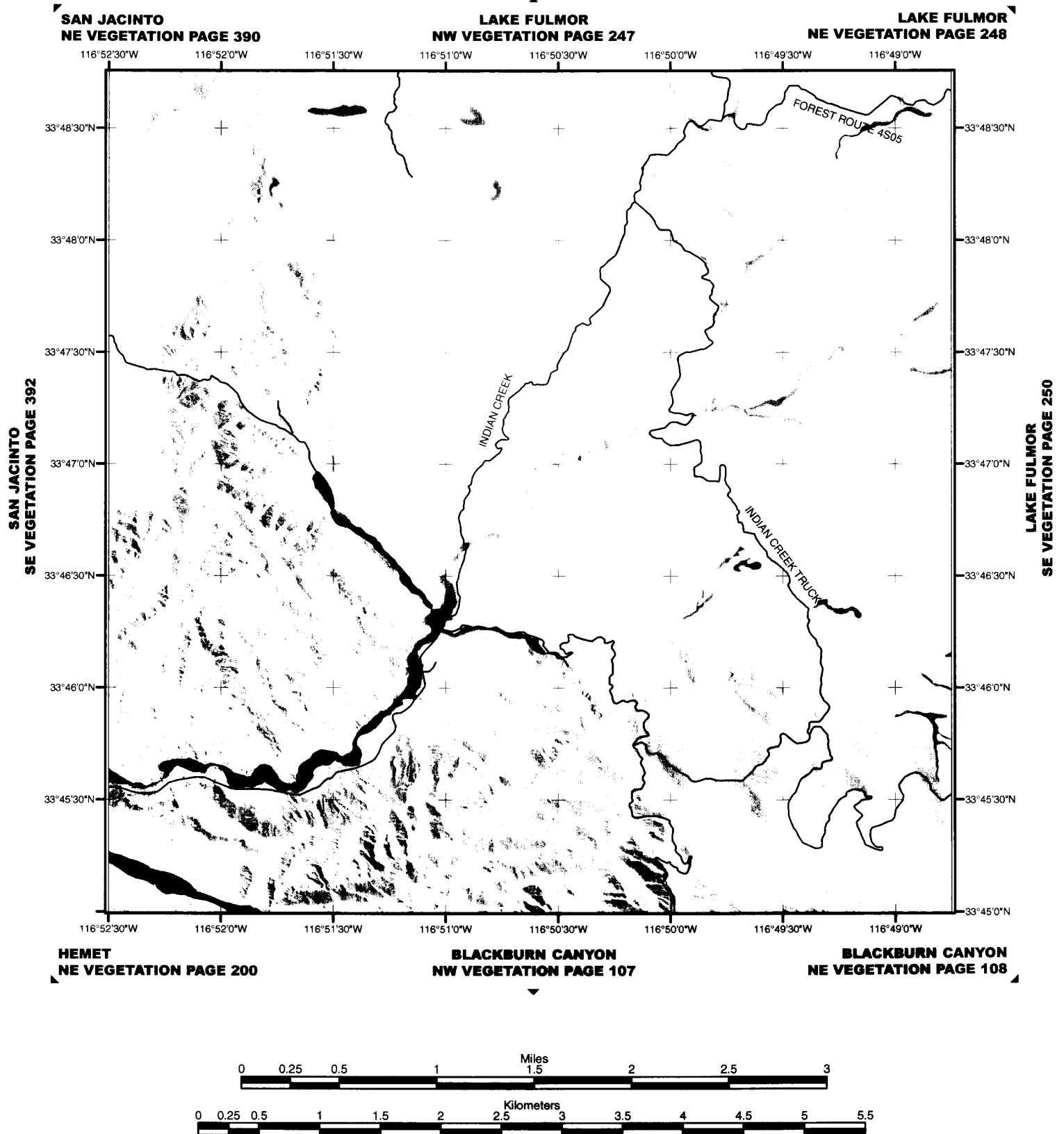
Lake Fulmor North West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



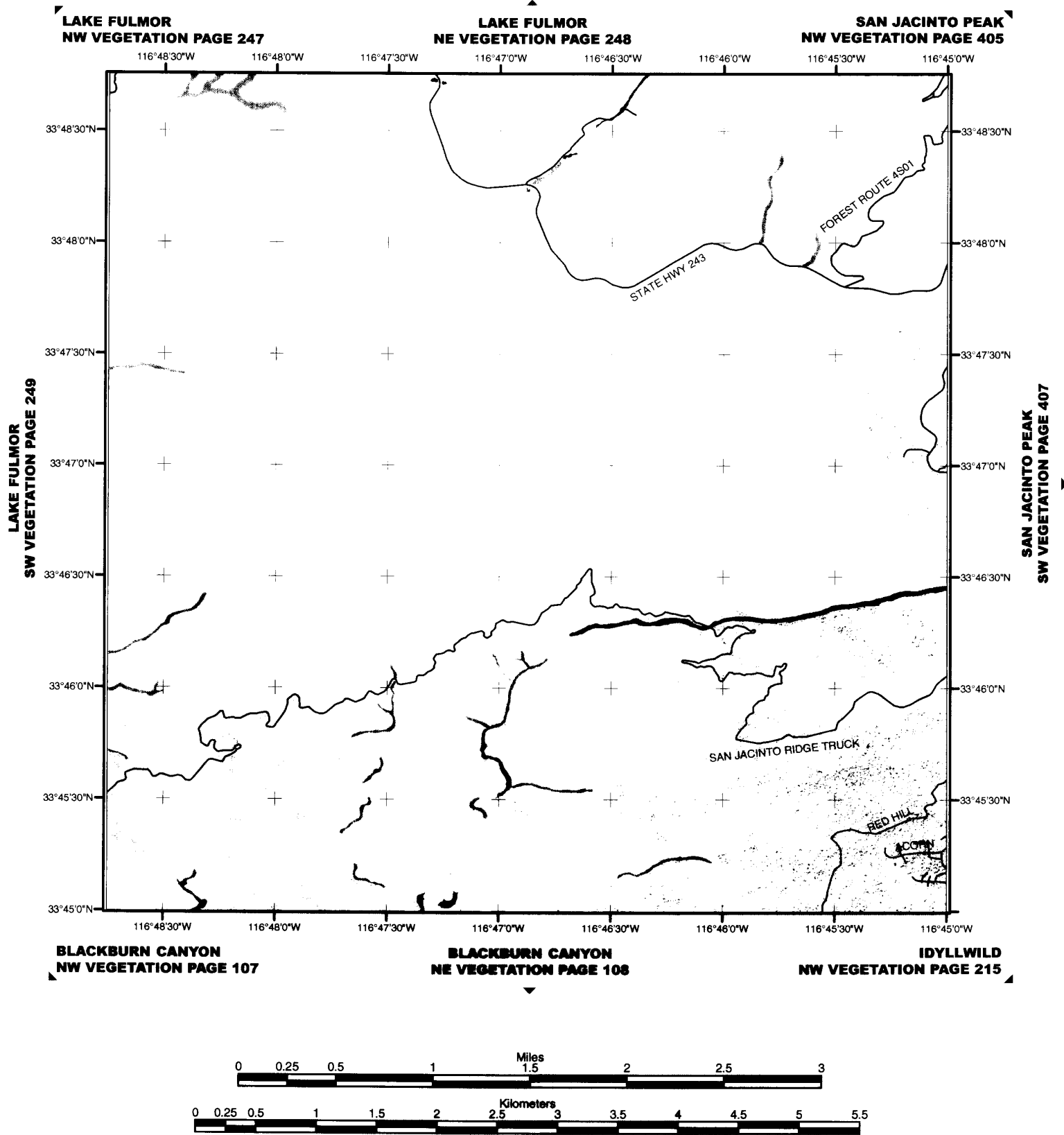
Lake Fulmor North East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



Lake Fulmor South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

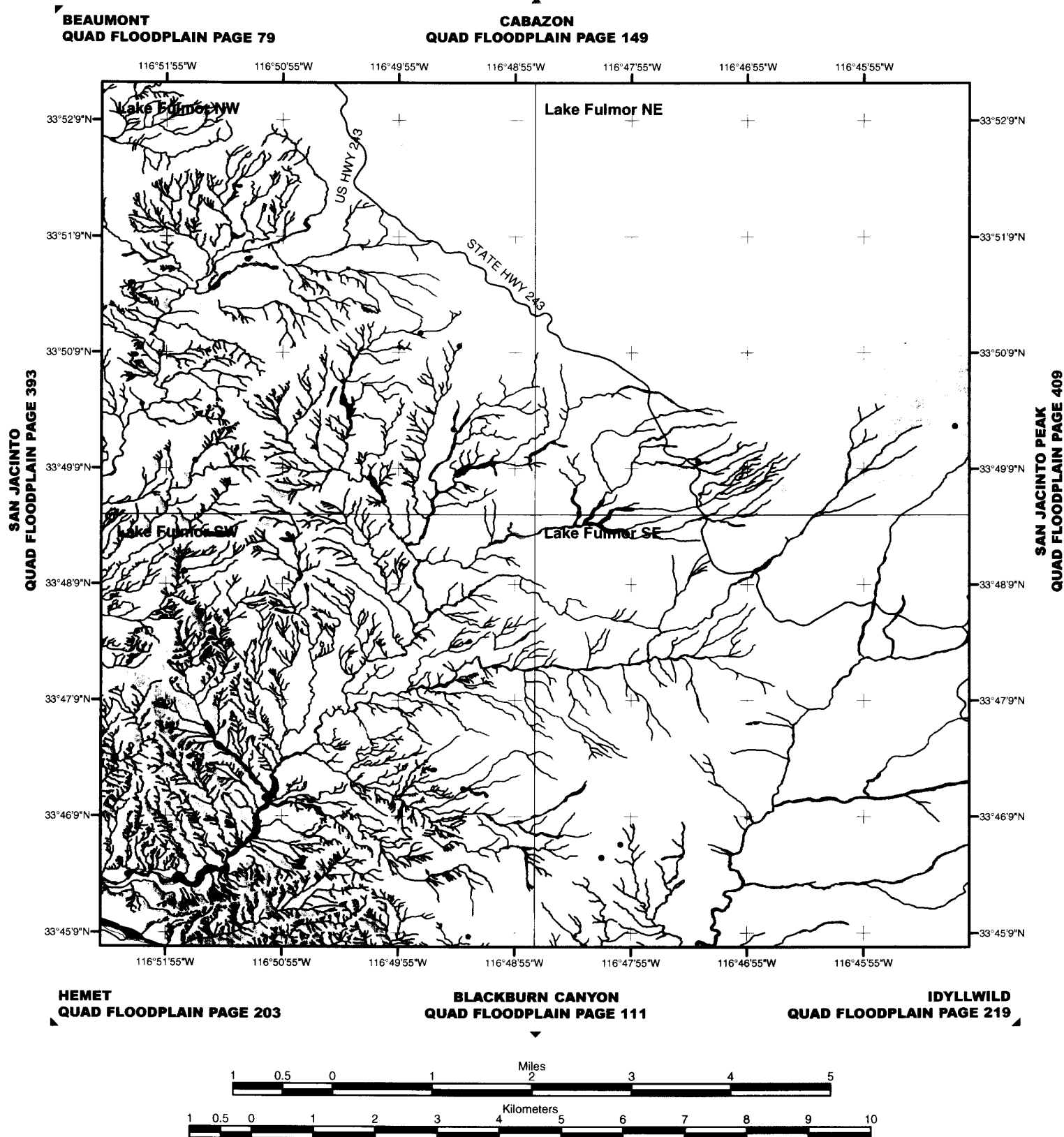


Lake Fulmor South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

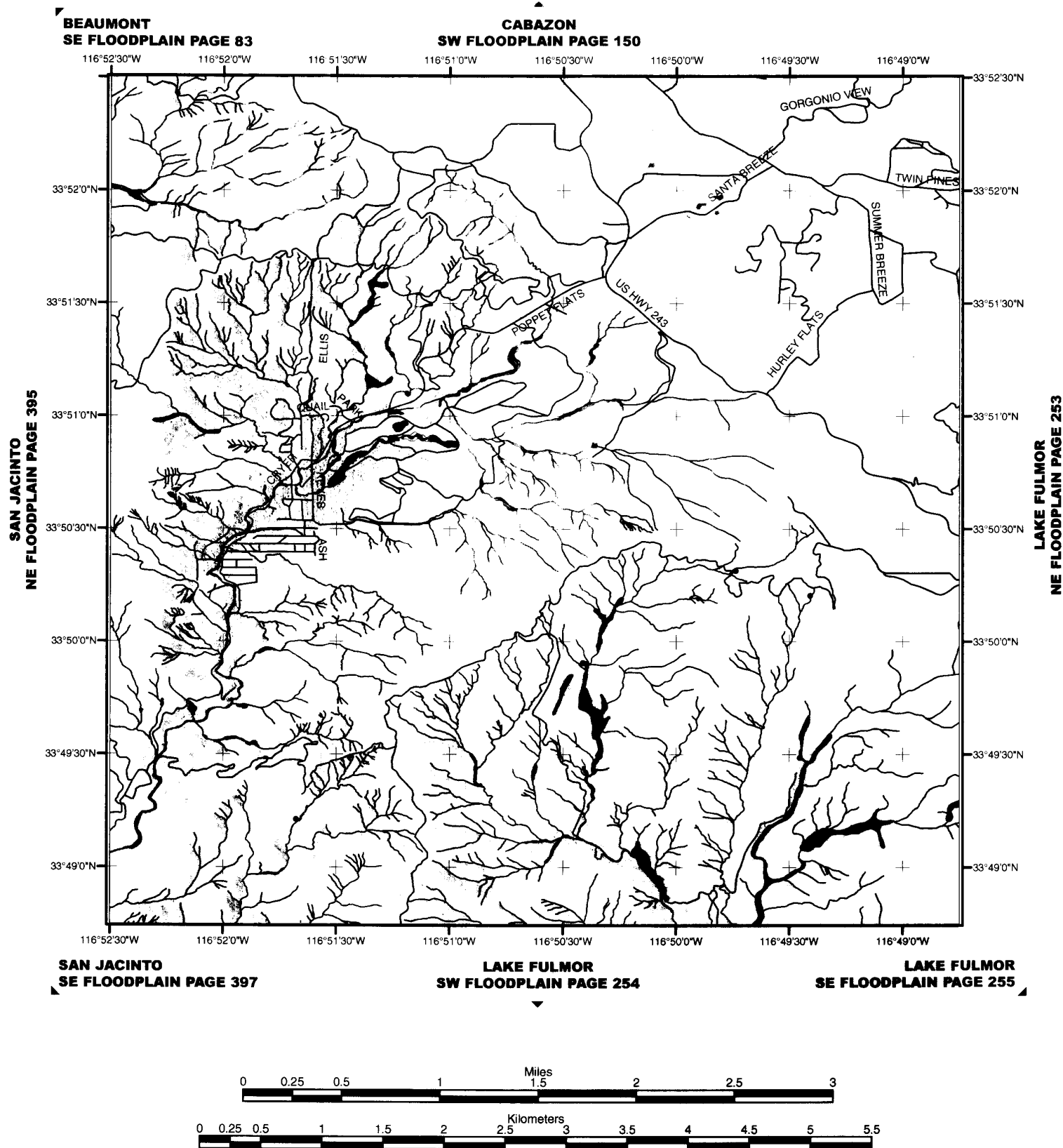


Lake Fulmor Quadrangle

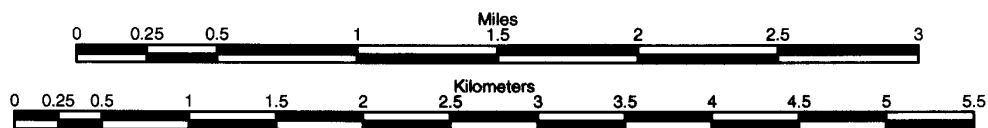
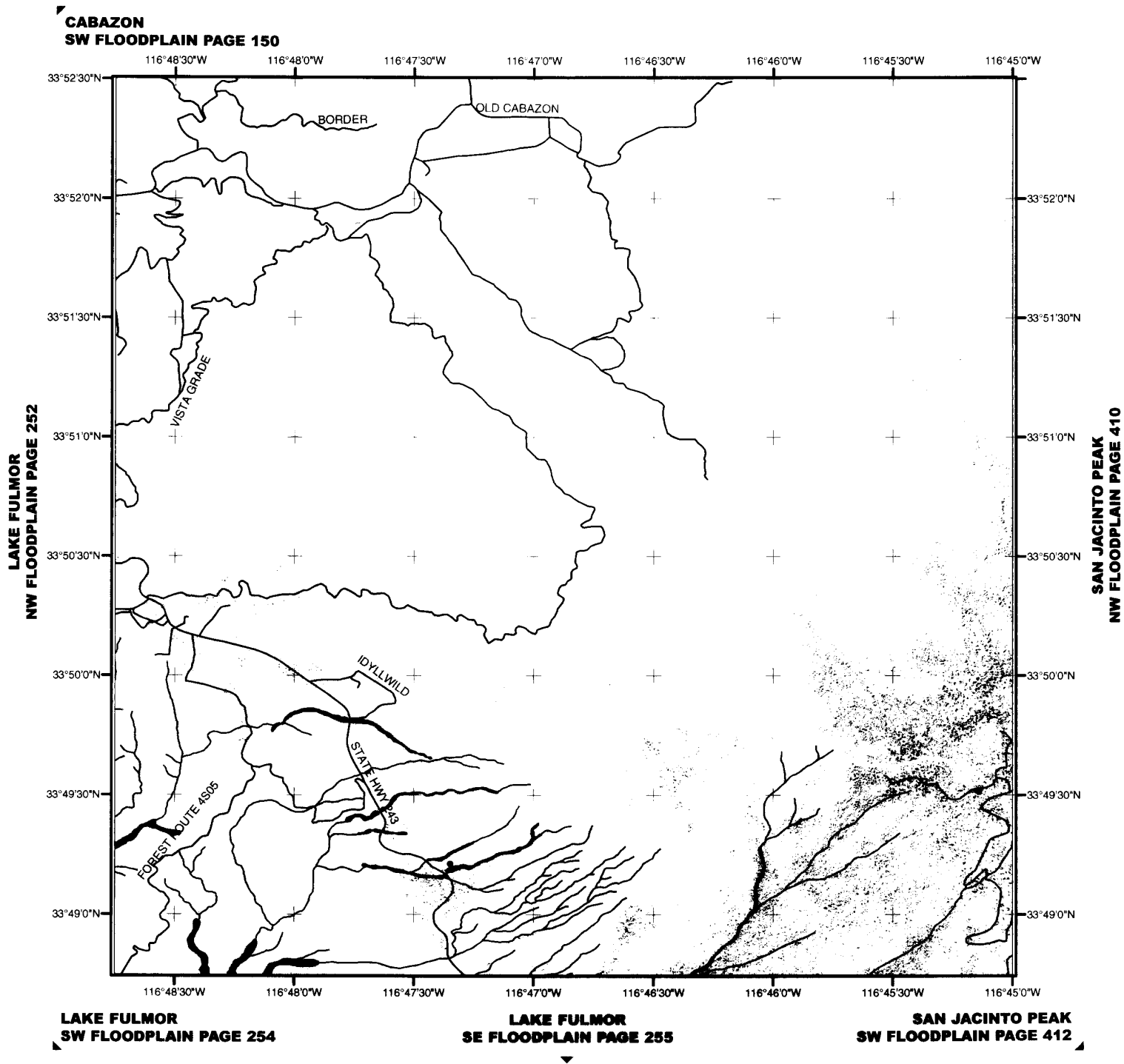
Hydrogeomorphic Floodplain Units for Aquatic Resources



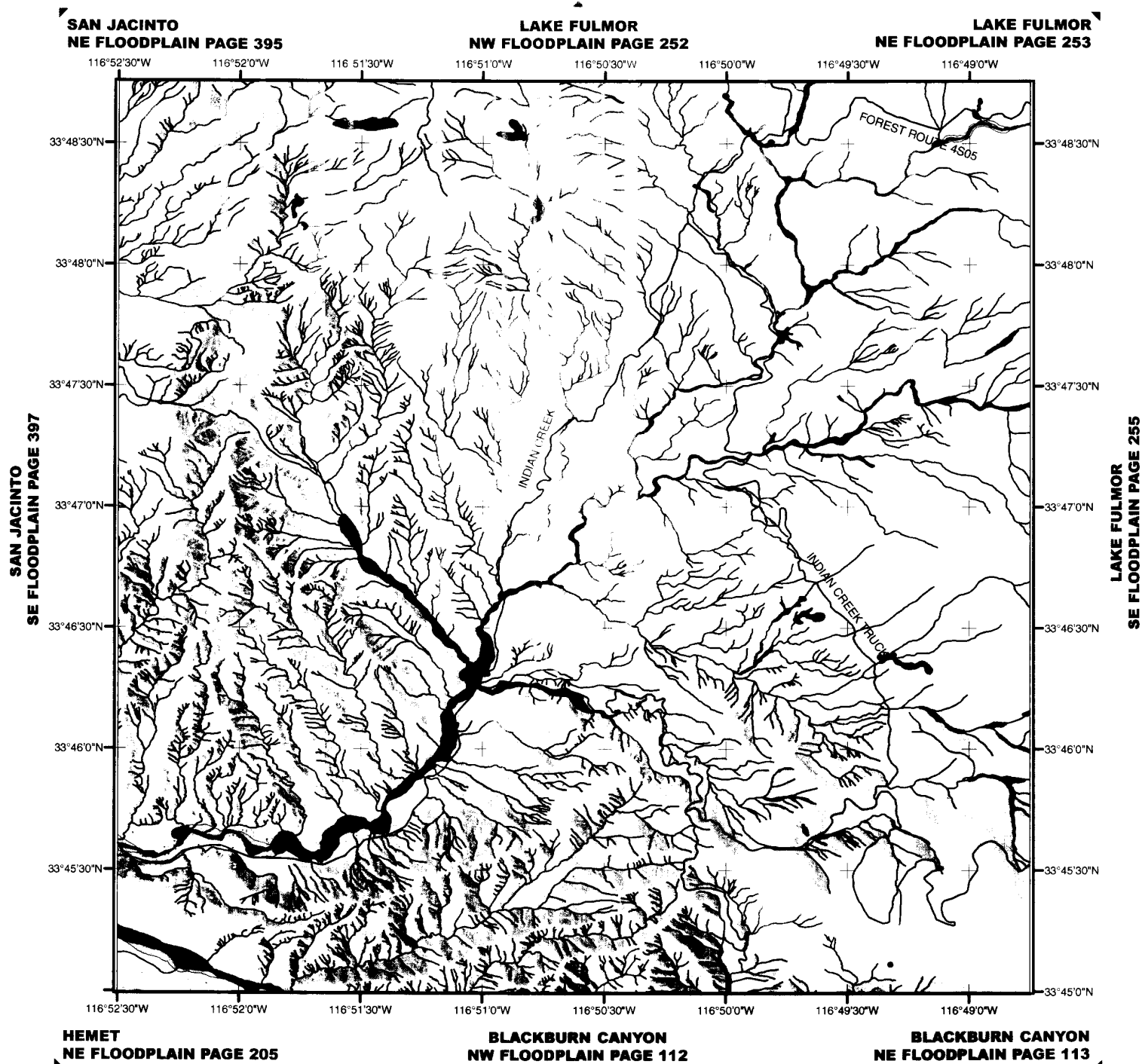
Lake Fulmor North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



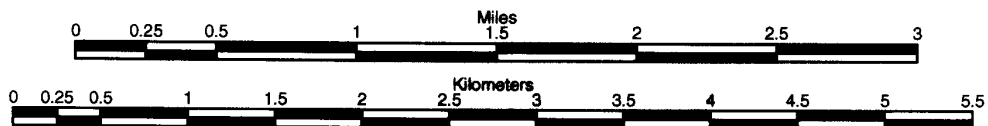
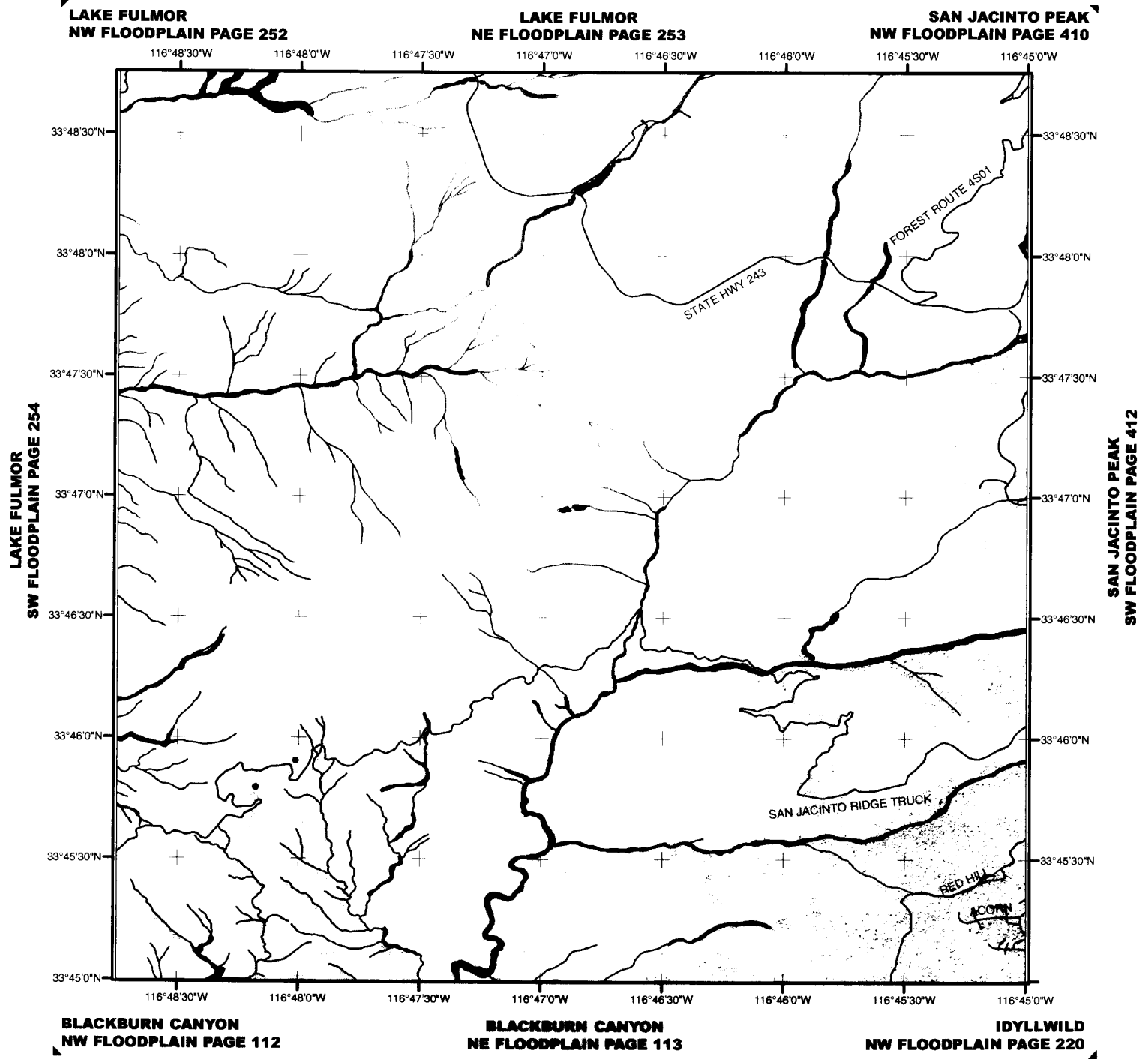
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Lake Fulmor South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

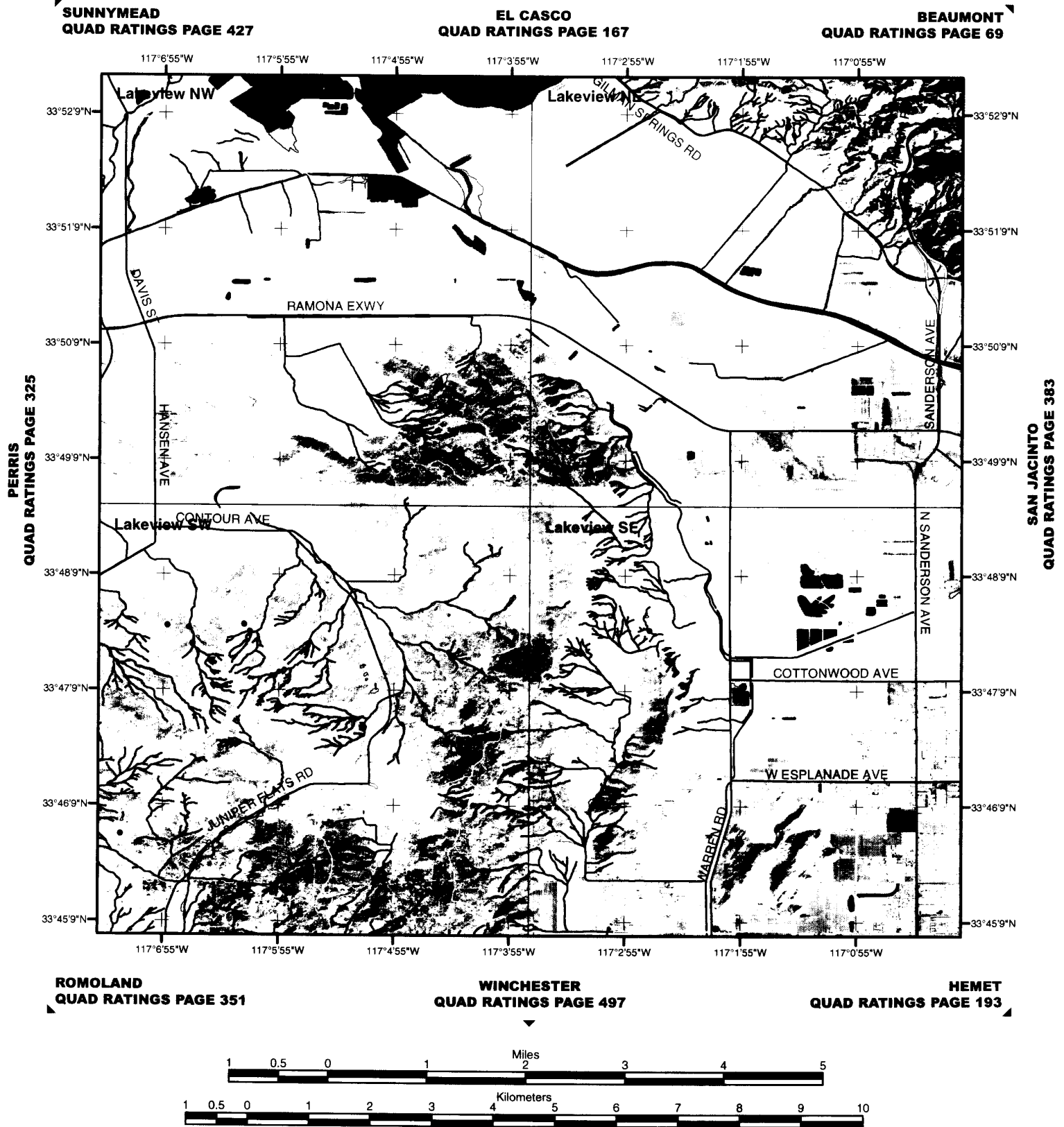


Lake Fulmor South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

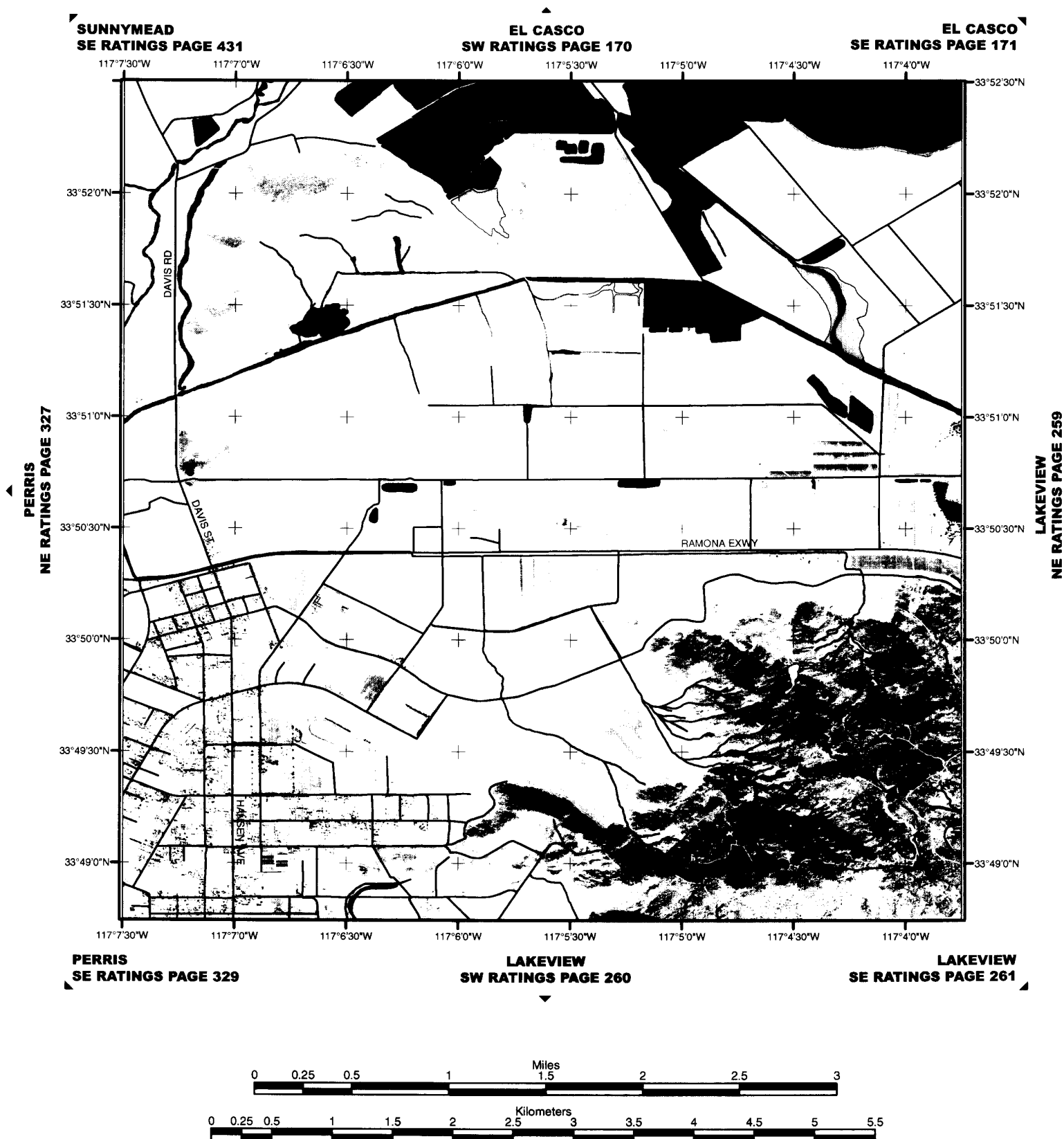


Lakeview Quadrangle

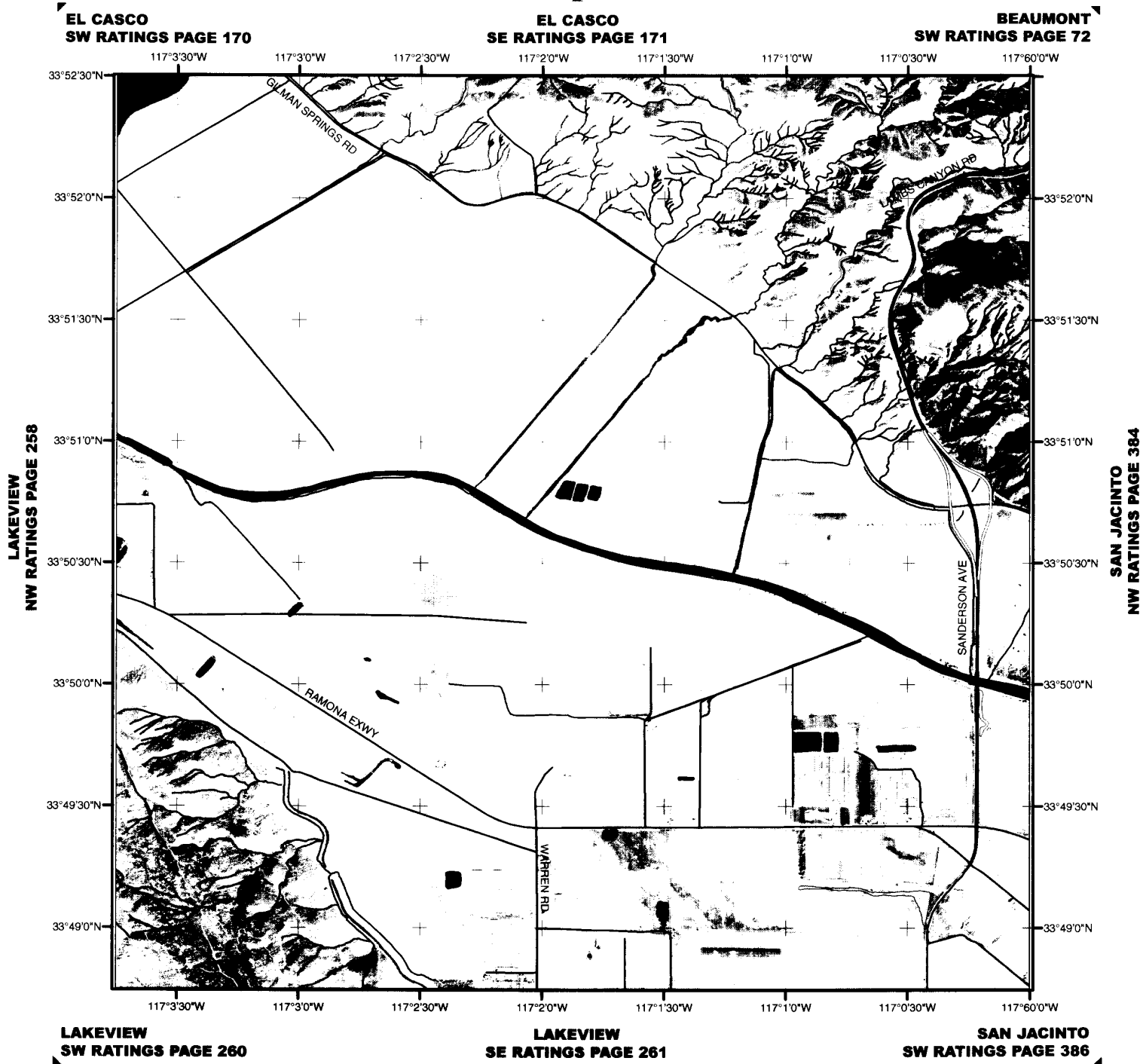
Regulatory Probability Ratings for Aquatic Resources



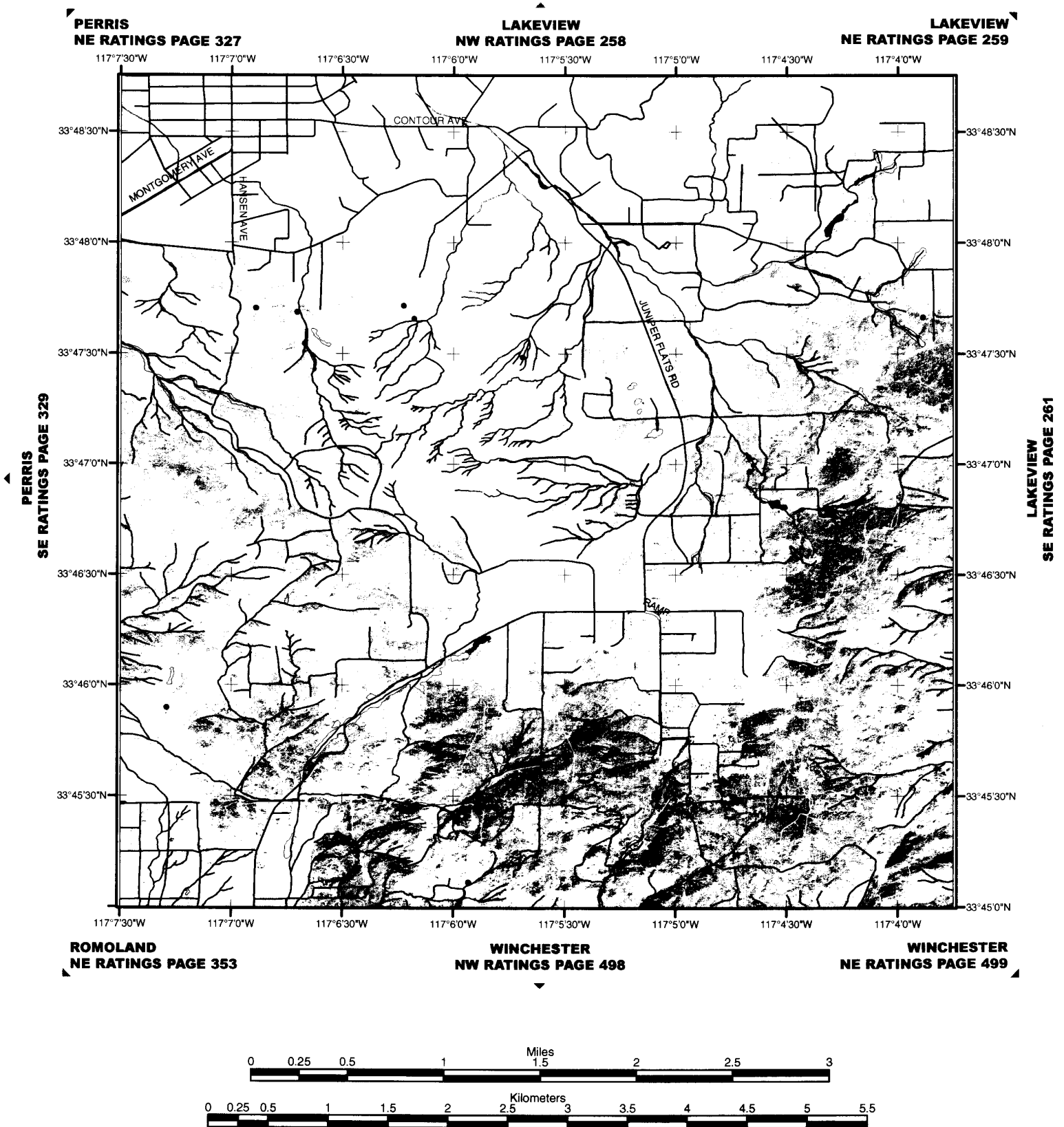
Lakeview North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



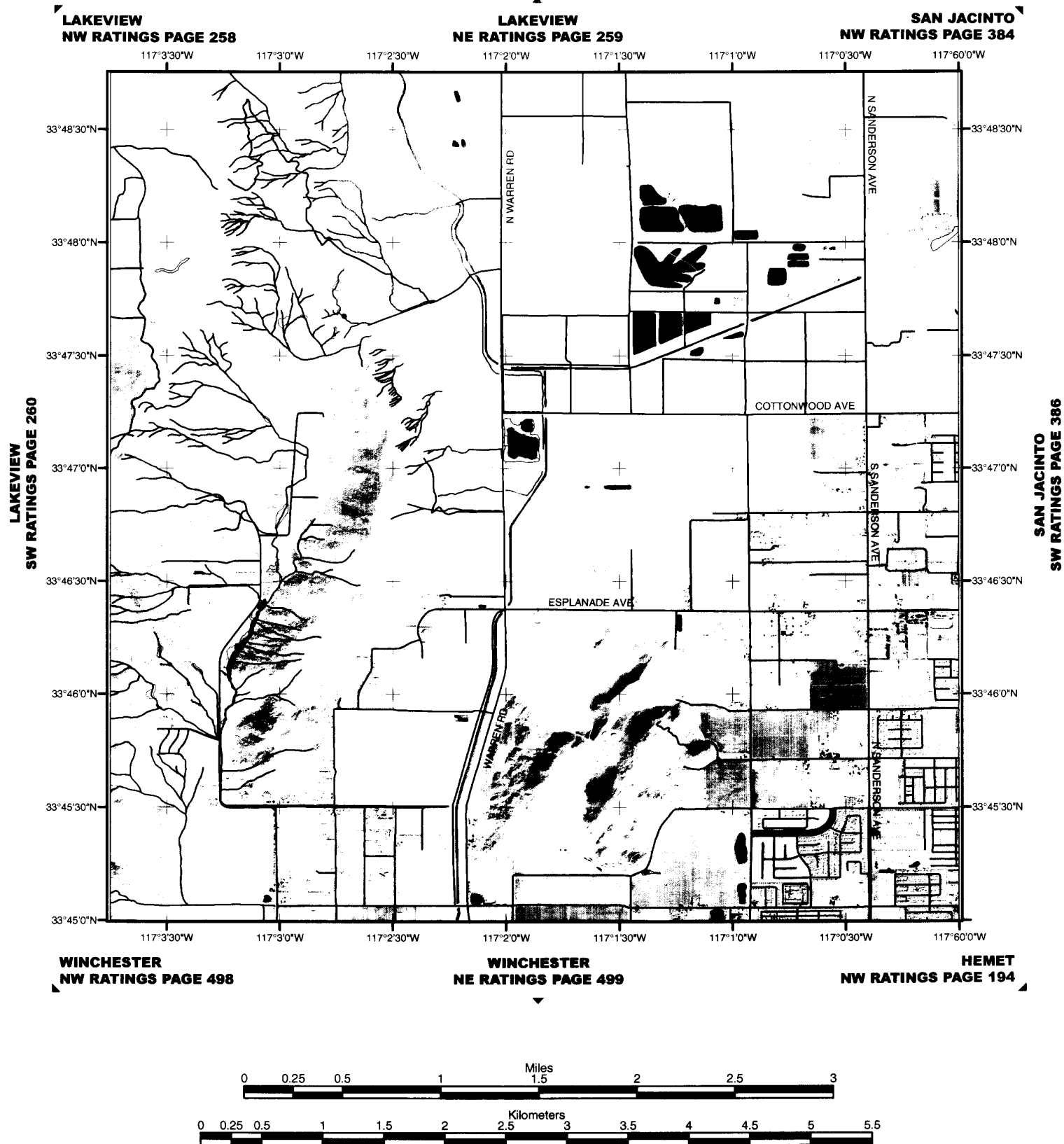
Lakeview North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



Lakeview South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

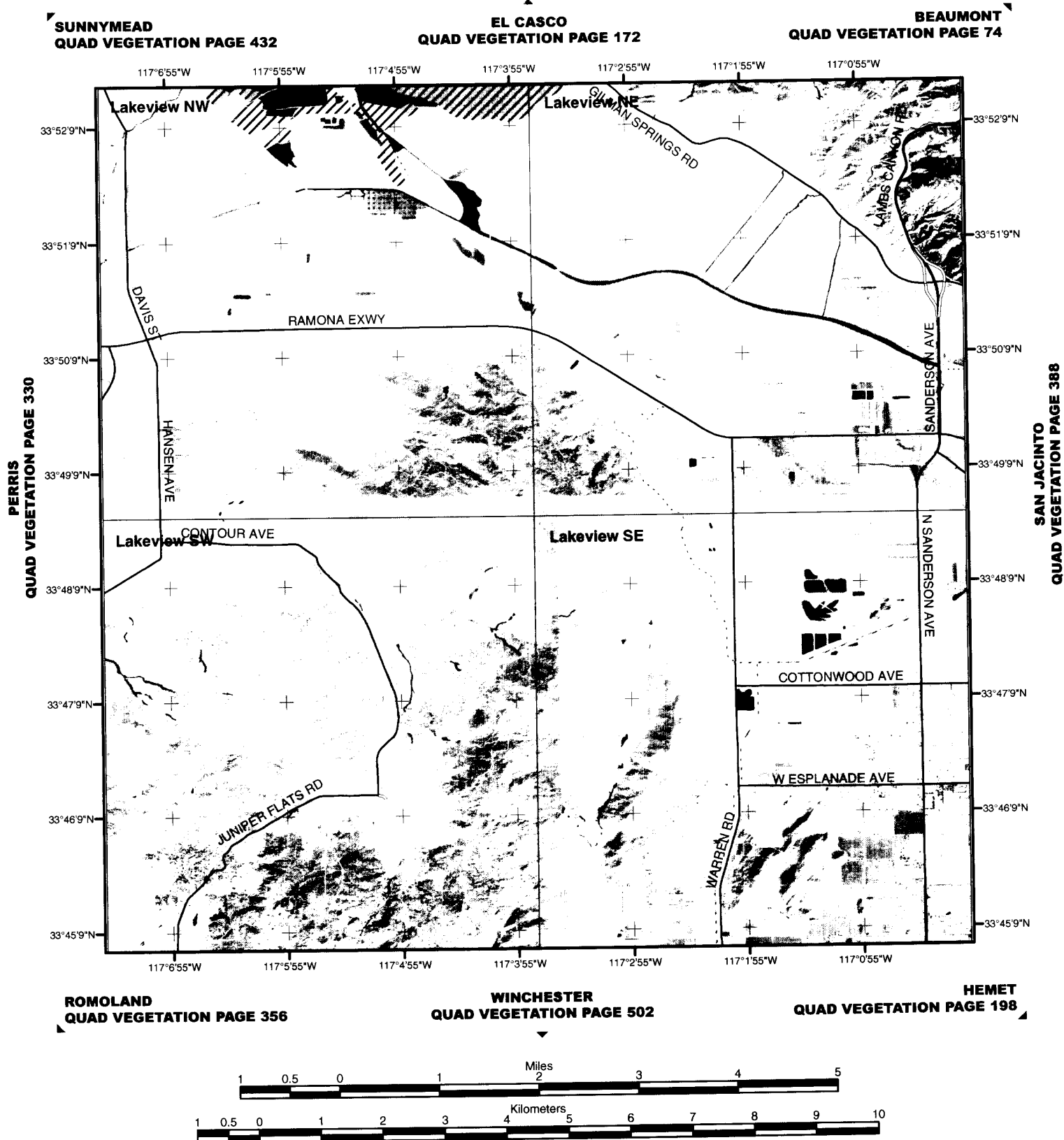


Lakeview South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

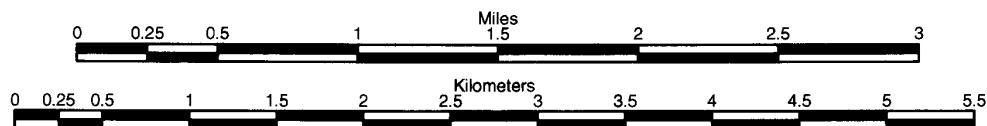
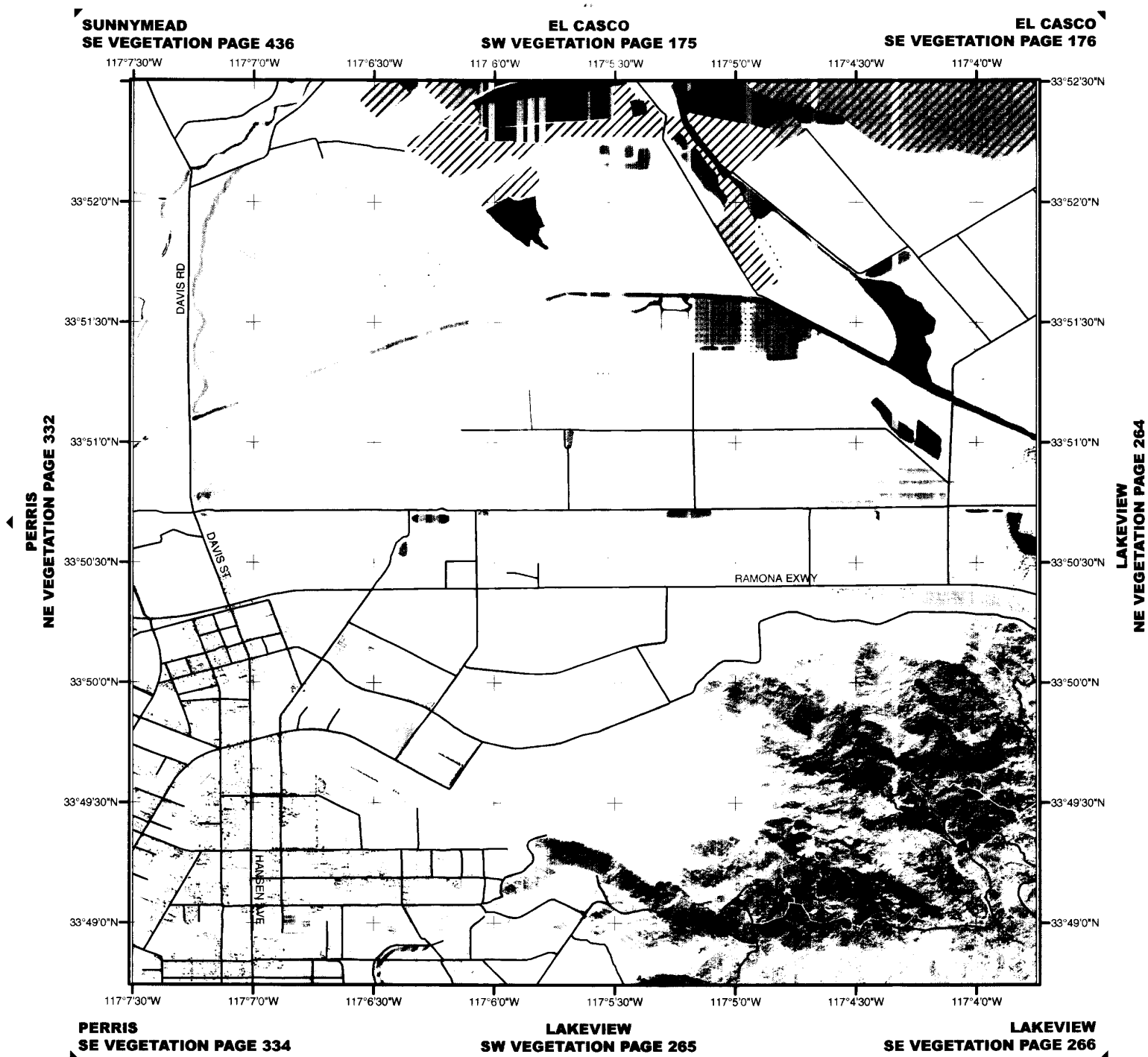


Lakeview Quadrangle

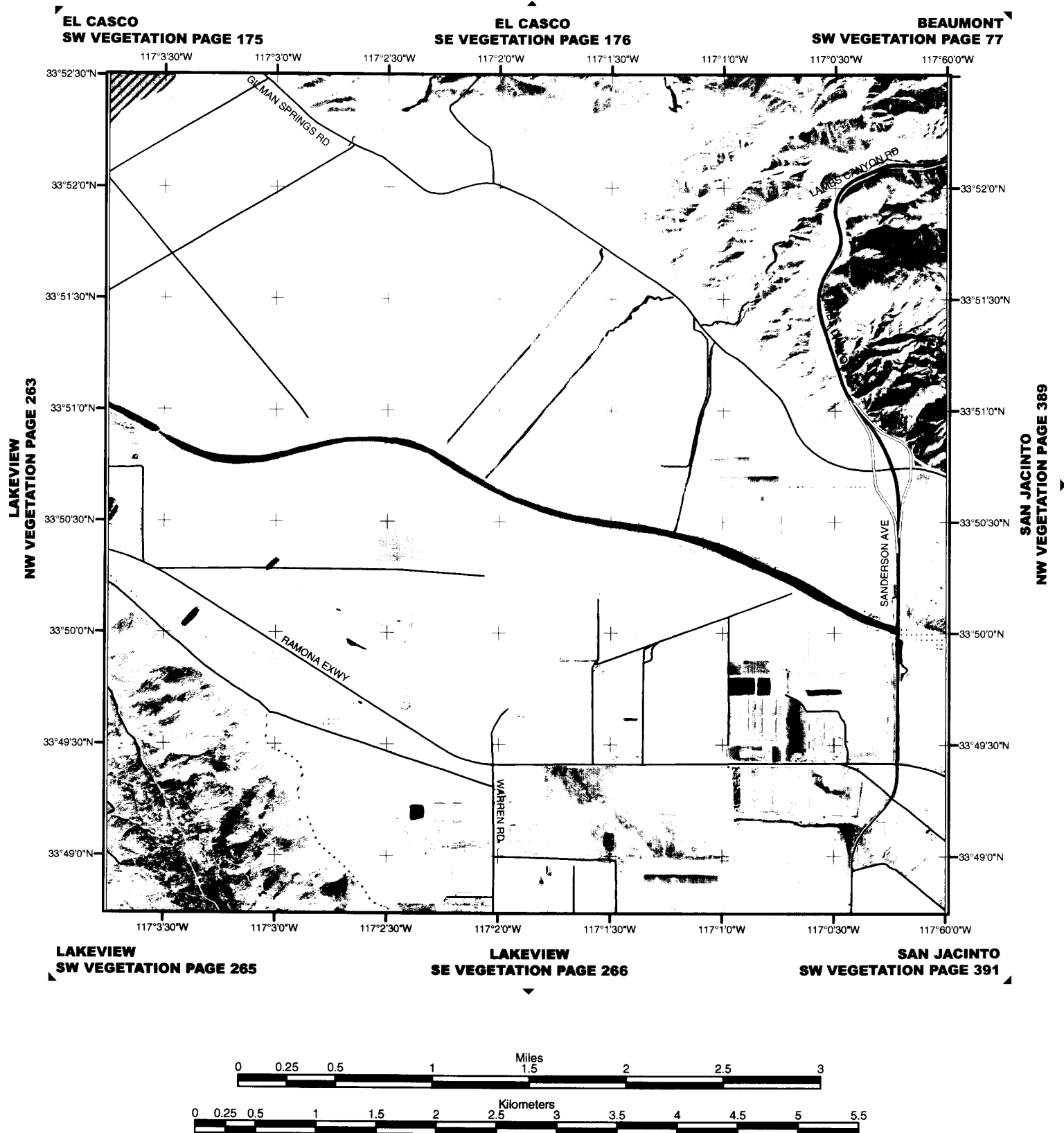
Vegetation Species Association Units for Aquatic Resources



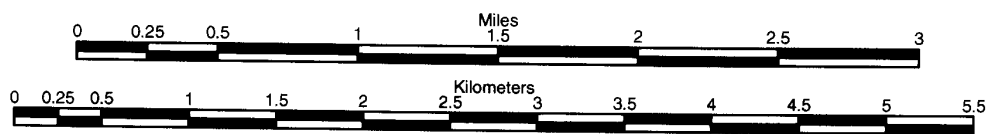
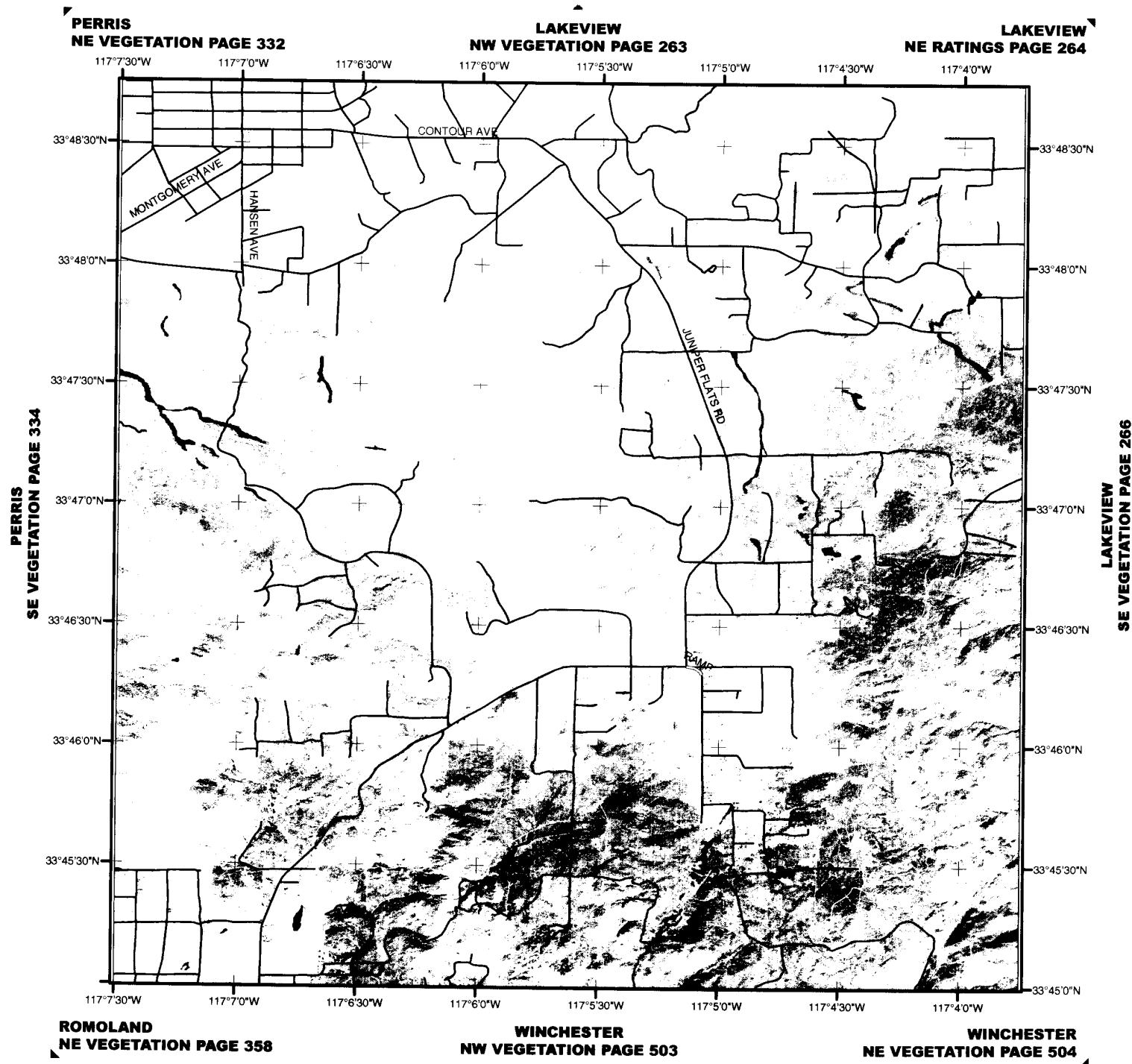
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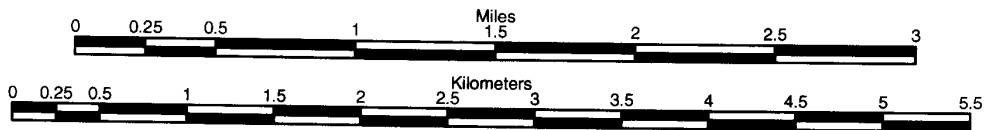
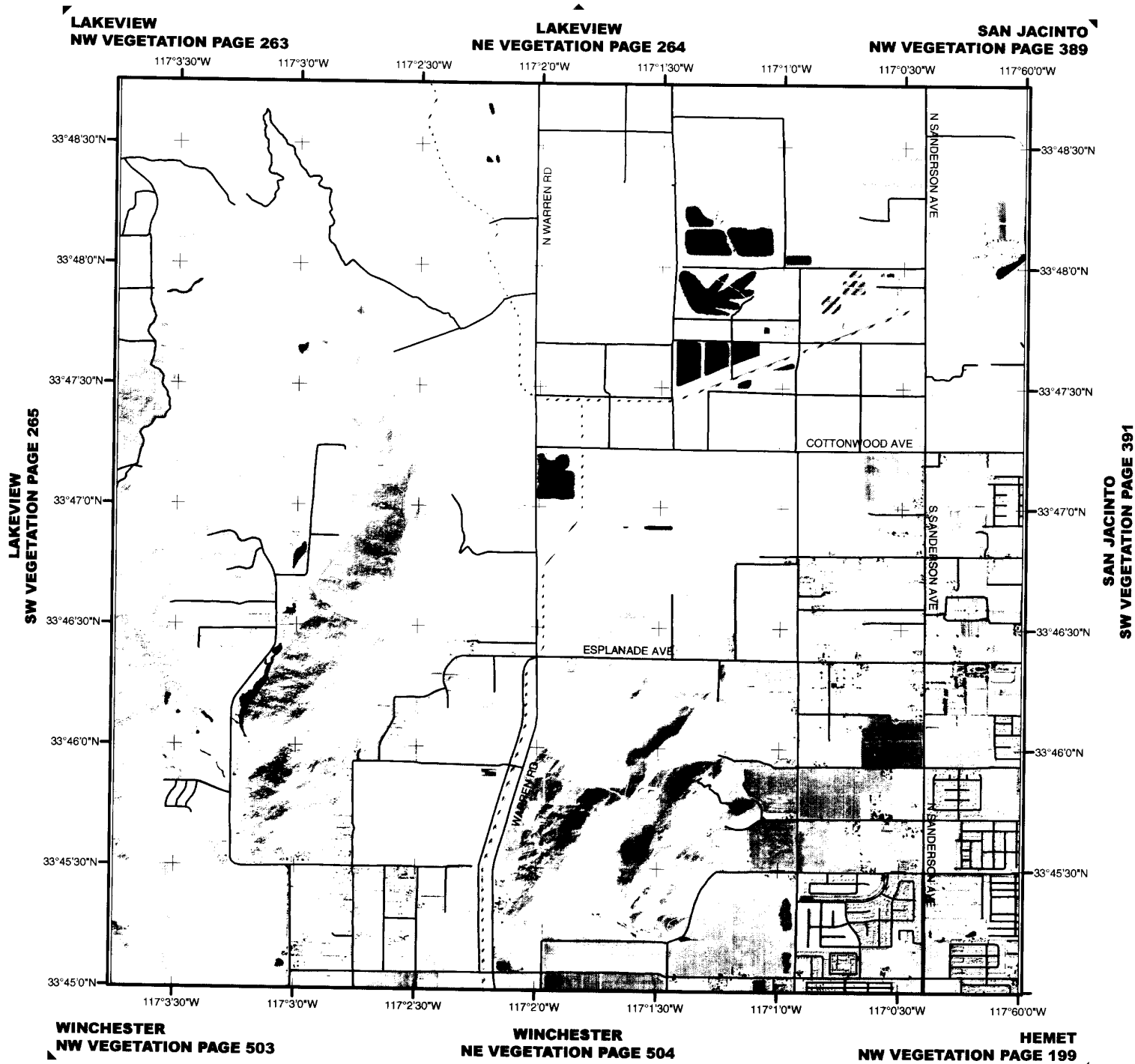
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Lakeview South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

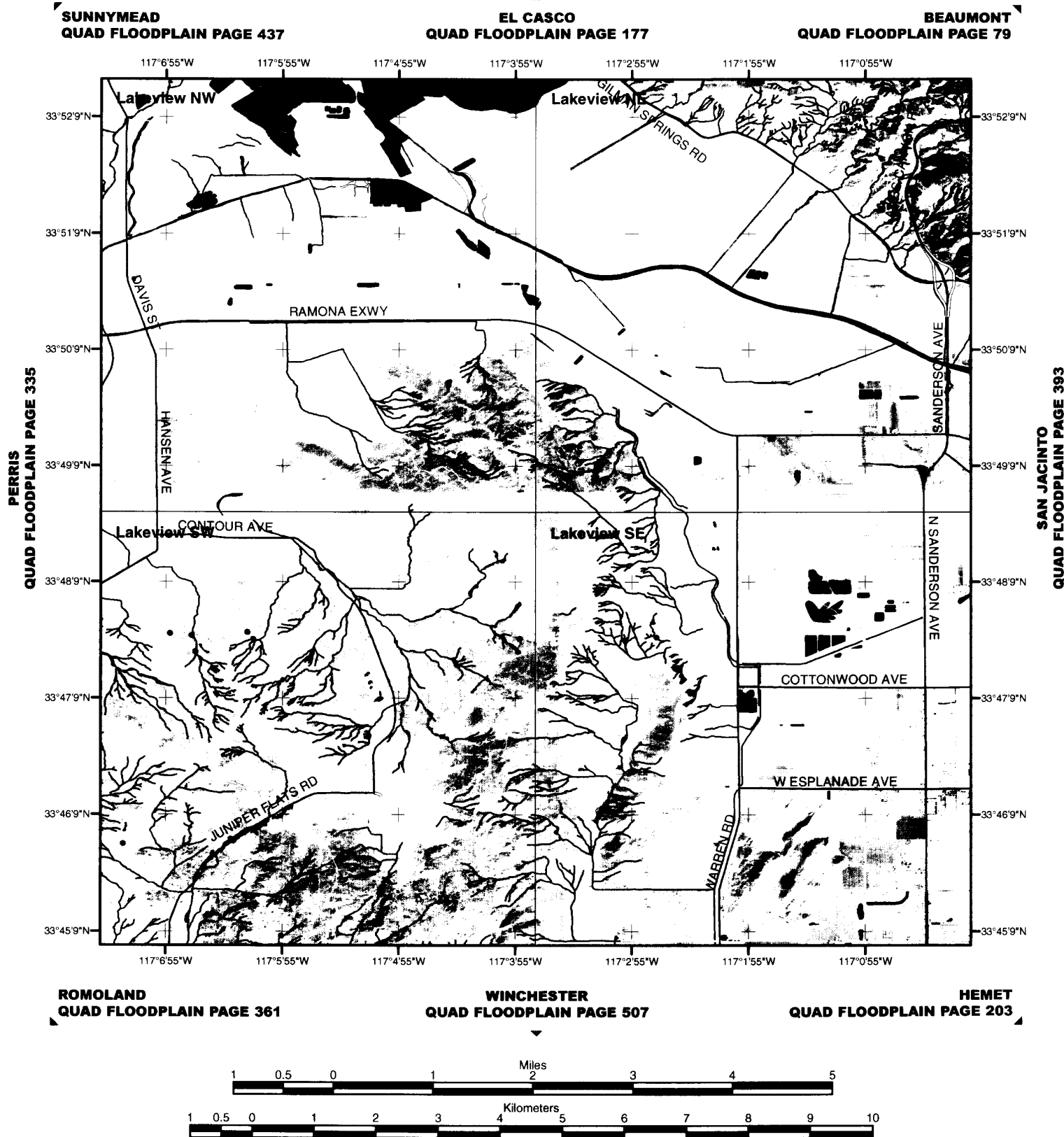


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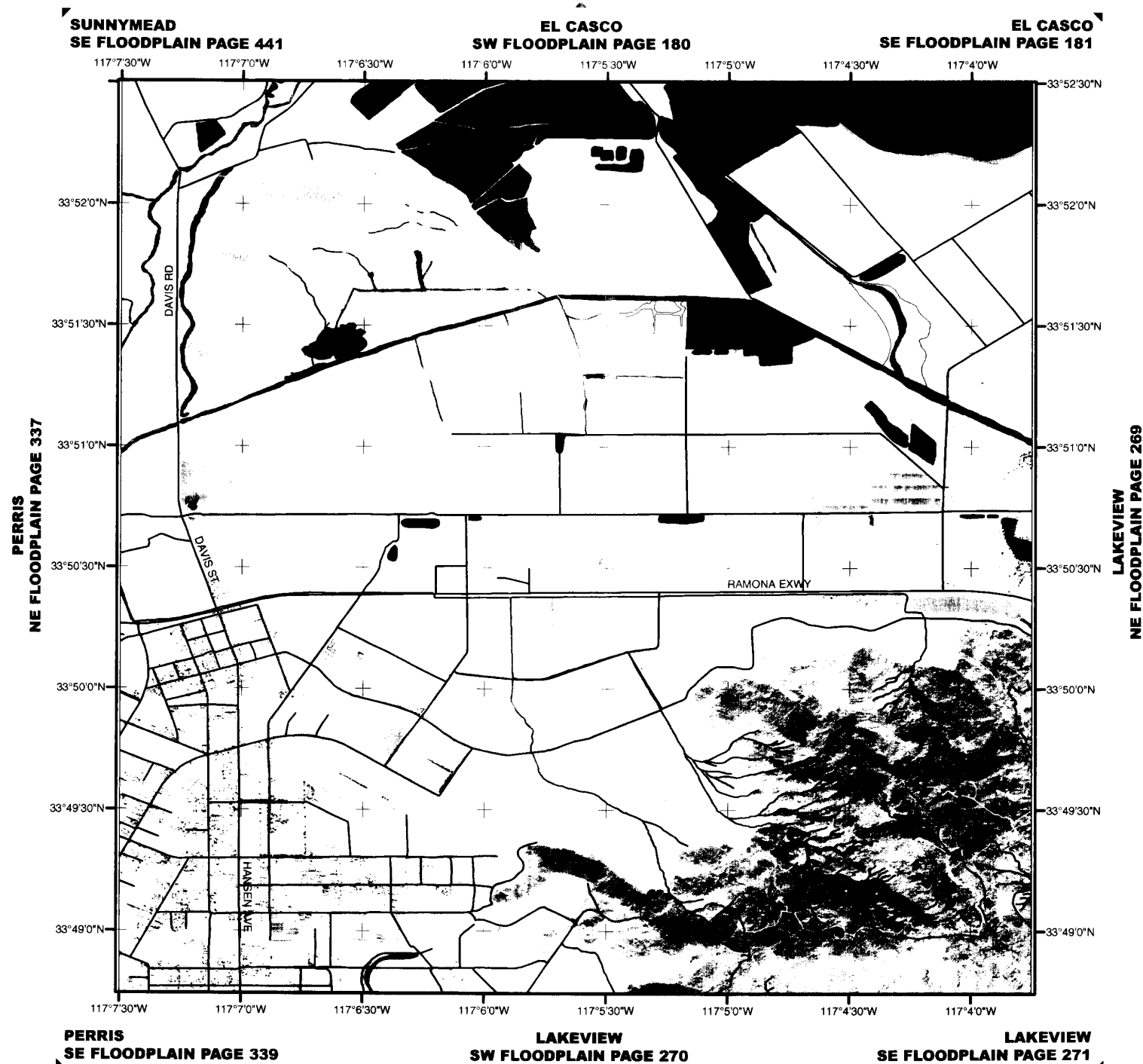


Lakeview Quadrangle

Hydrogeomorphic Floodplain Units for Aquatic Resources

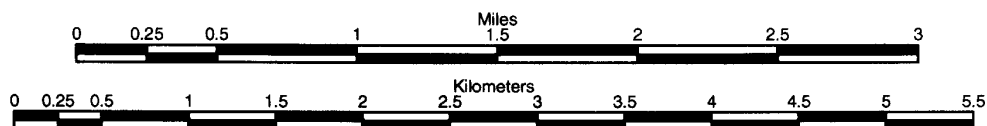
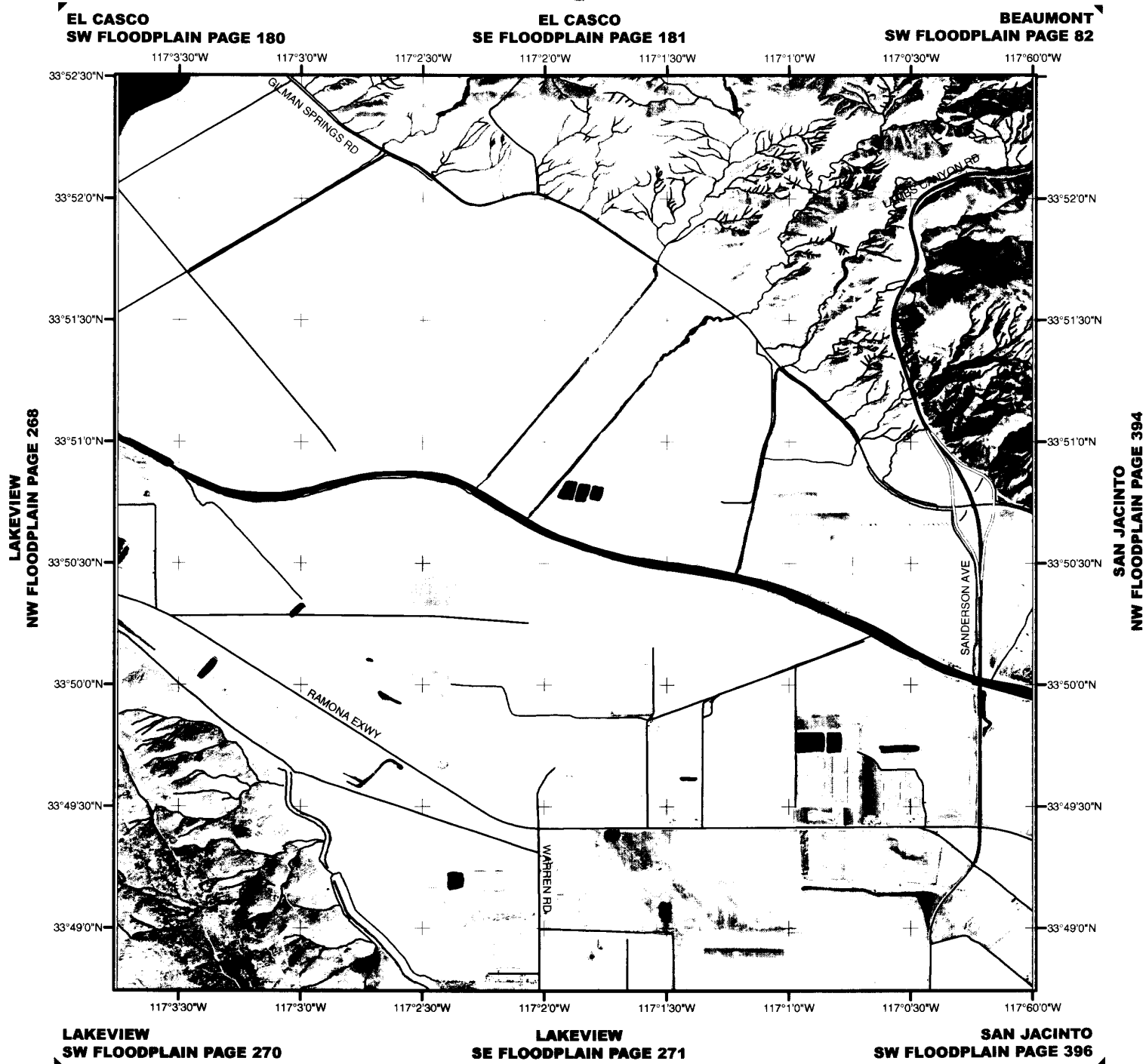


Lakeview North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

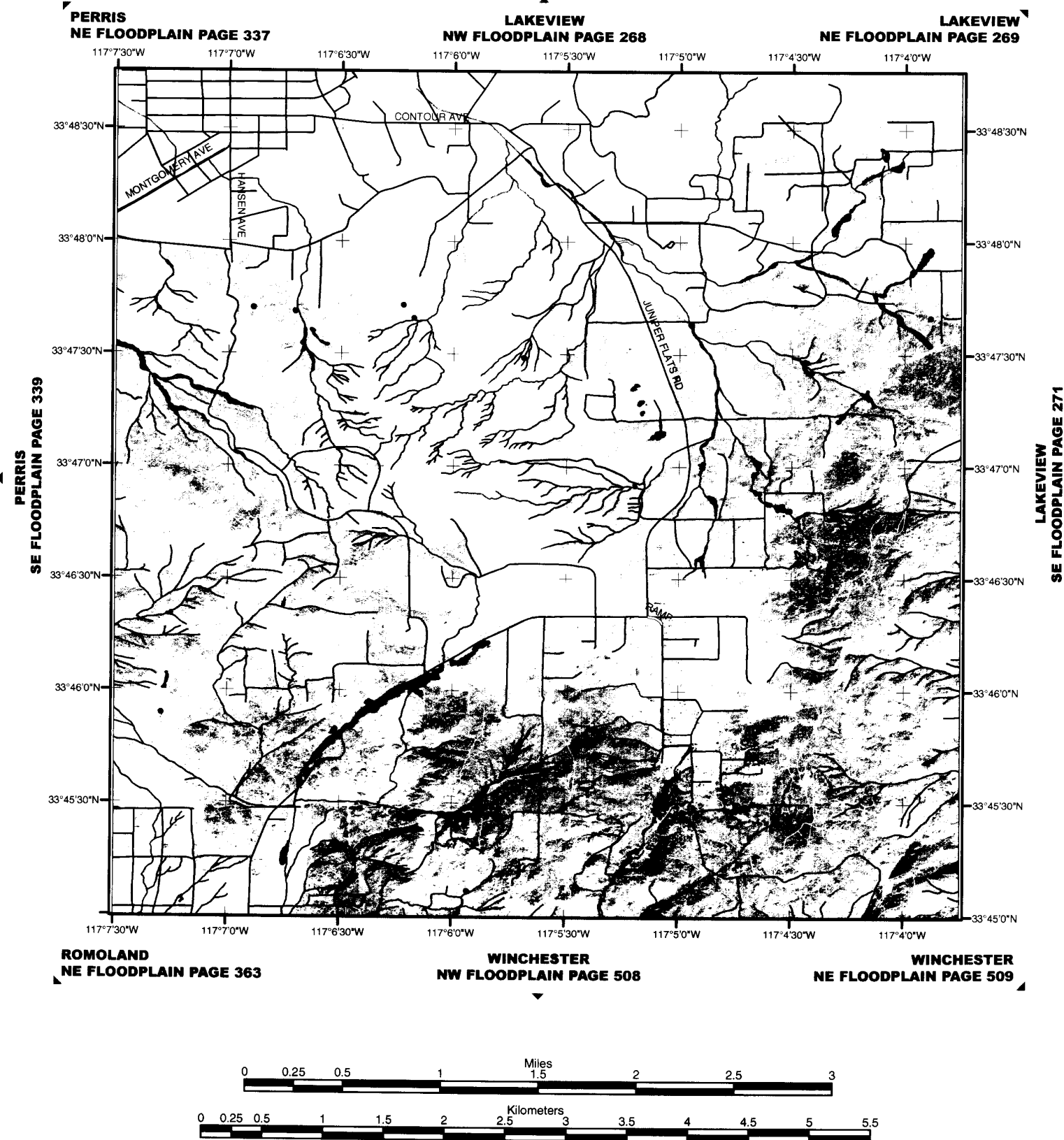


Lakeview North East Quarter-Quadrangle

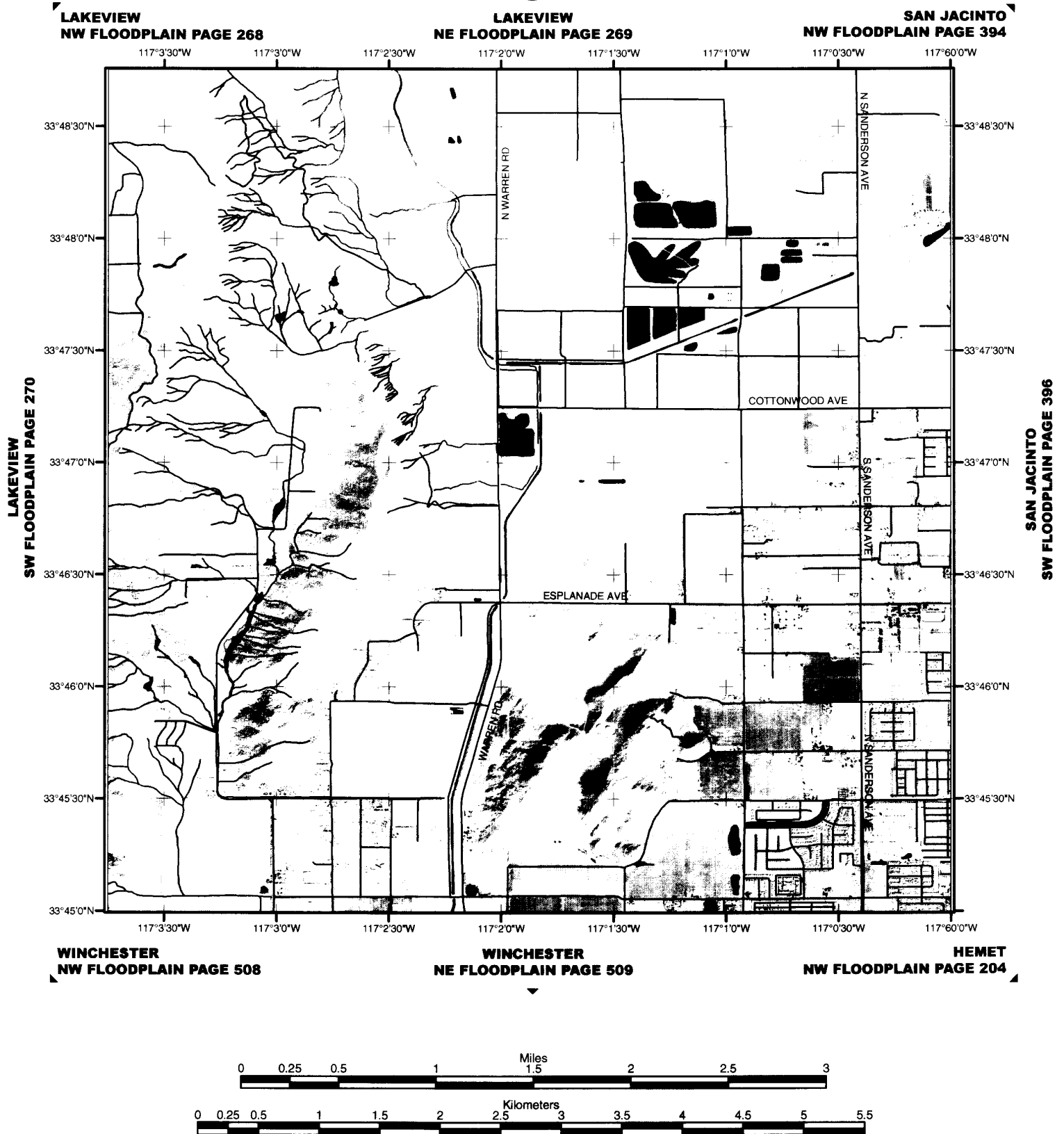
Hydrogeomorphic Floodplain Units for Aquatic Resources



Lakeview South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

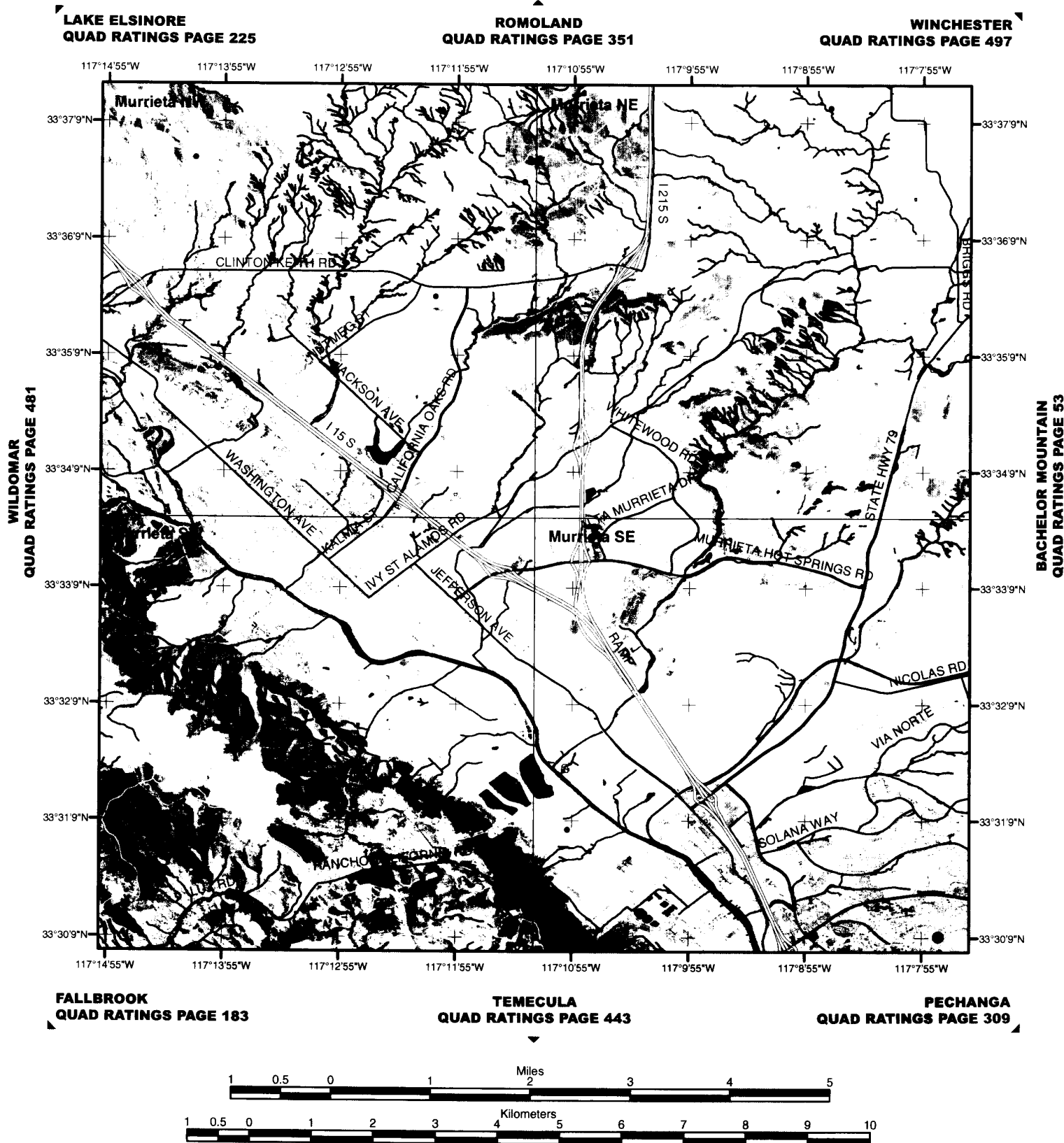


Lakeview South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

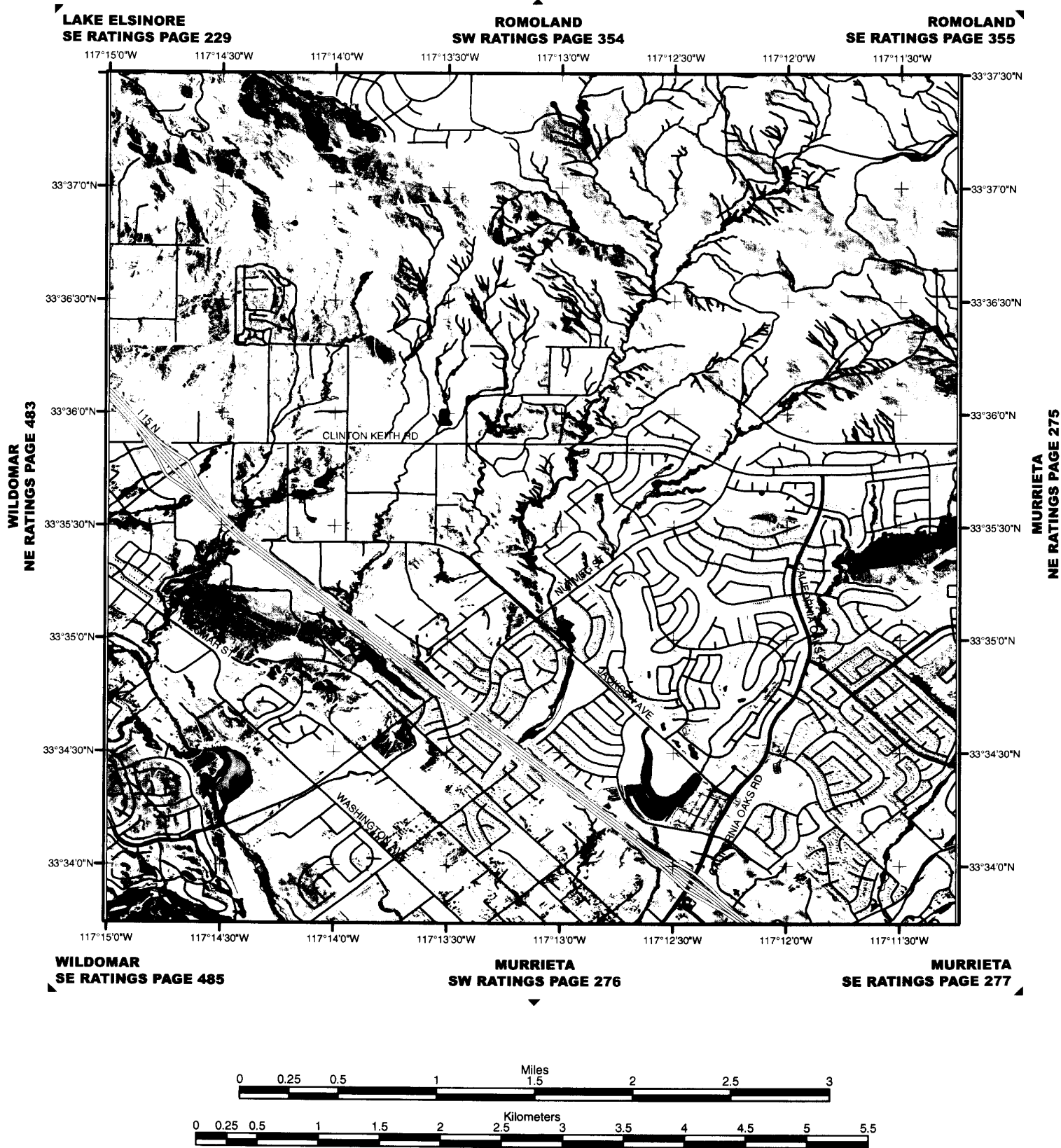


Murrieta Quadrangle

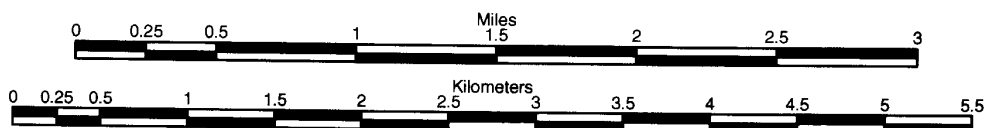
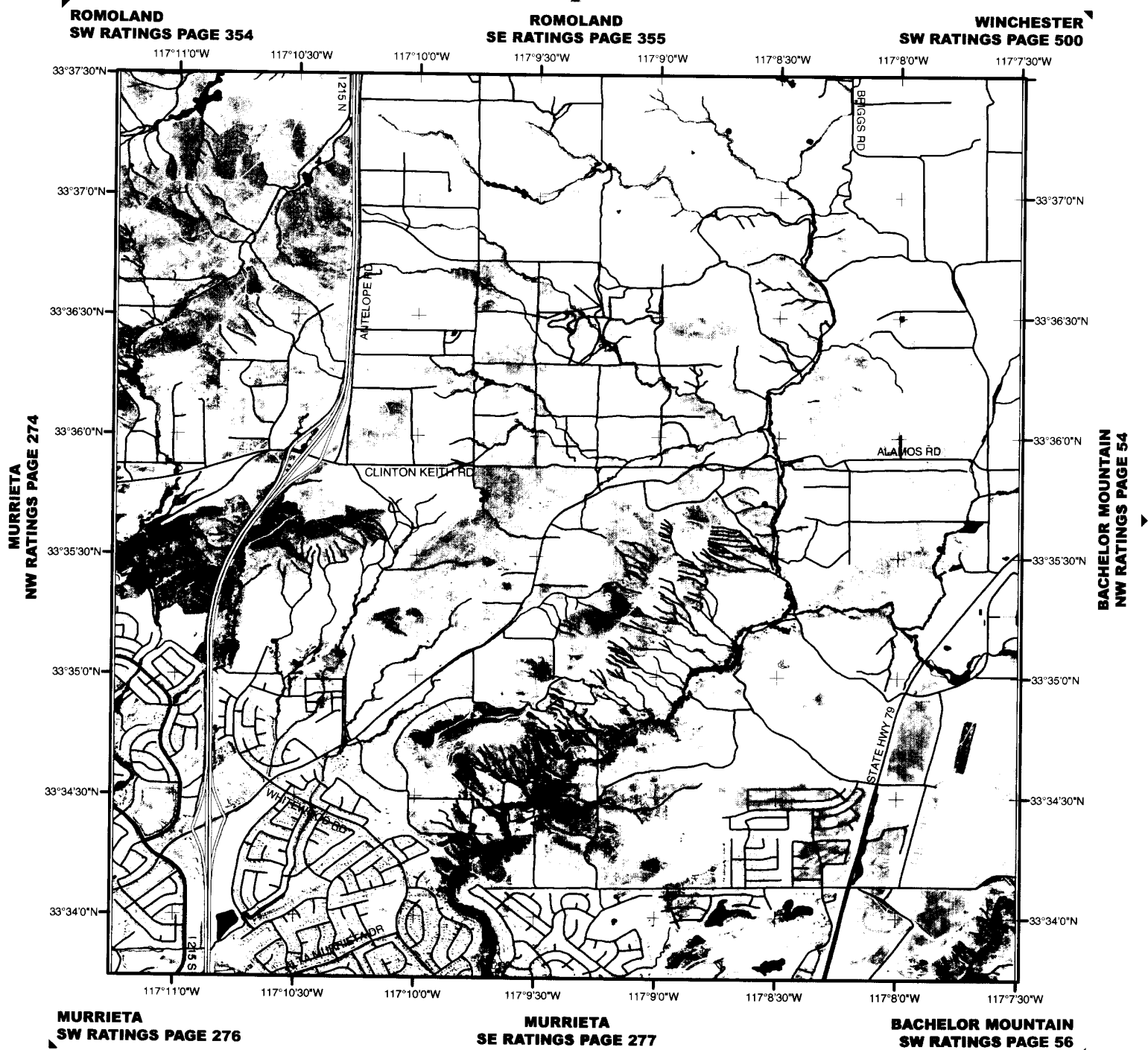
Regulatory Probability Ratings for Aquatic Resources



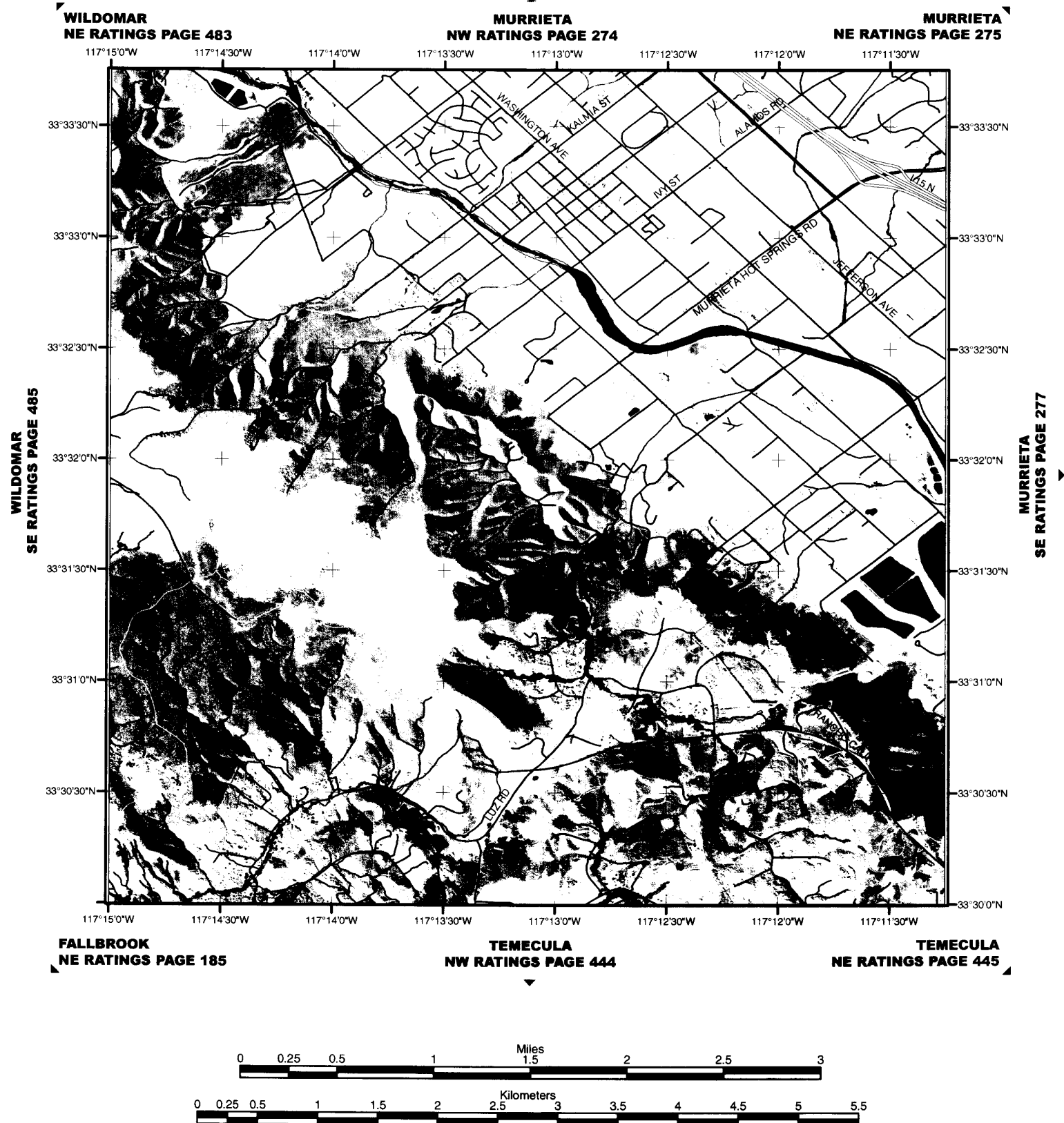
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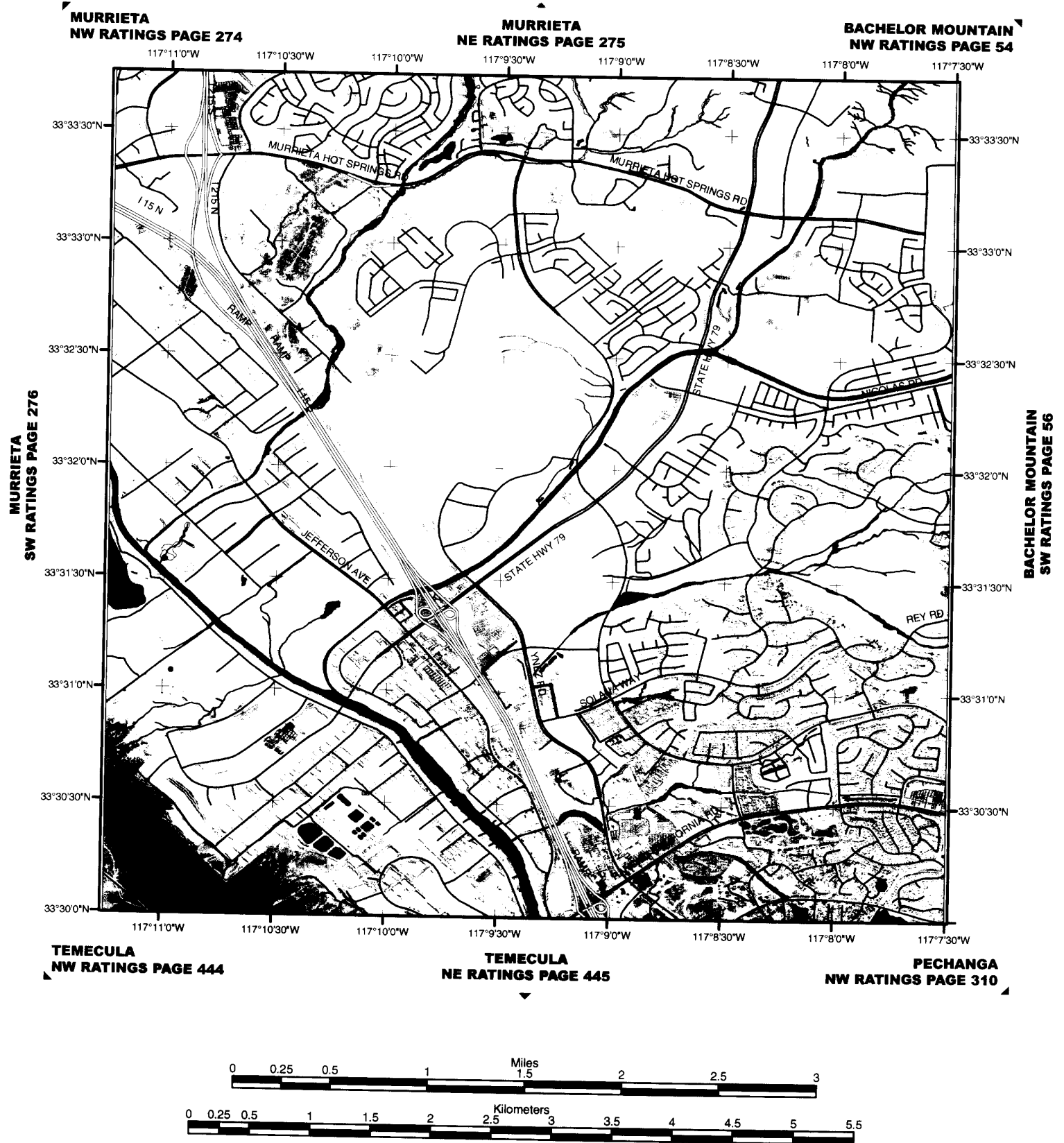
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Murrieta South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

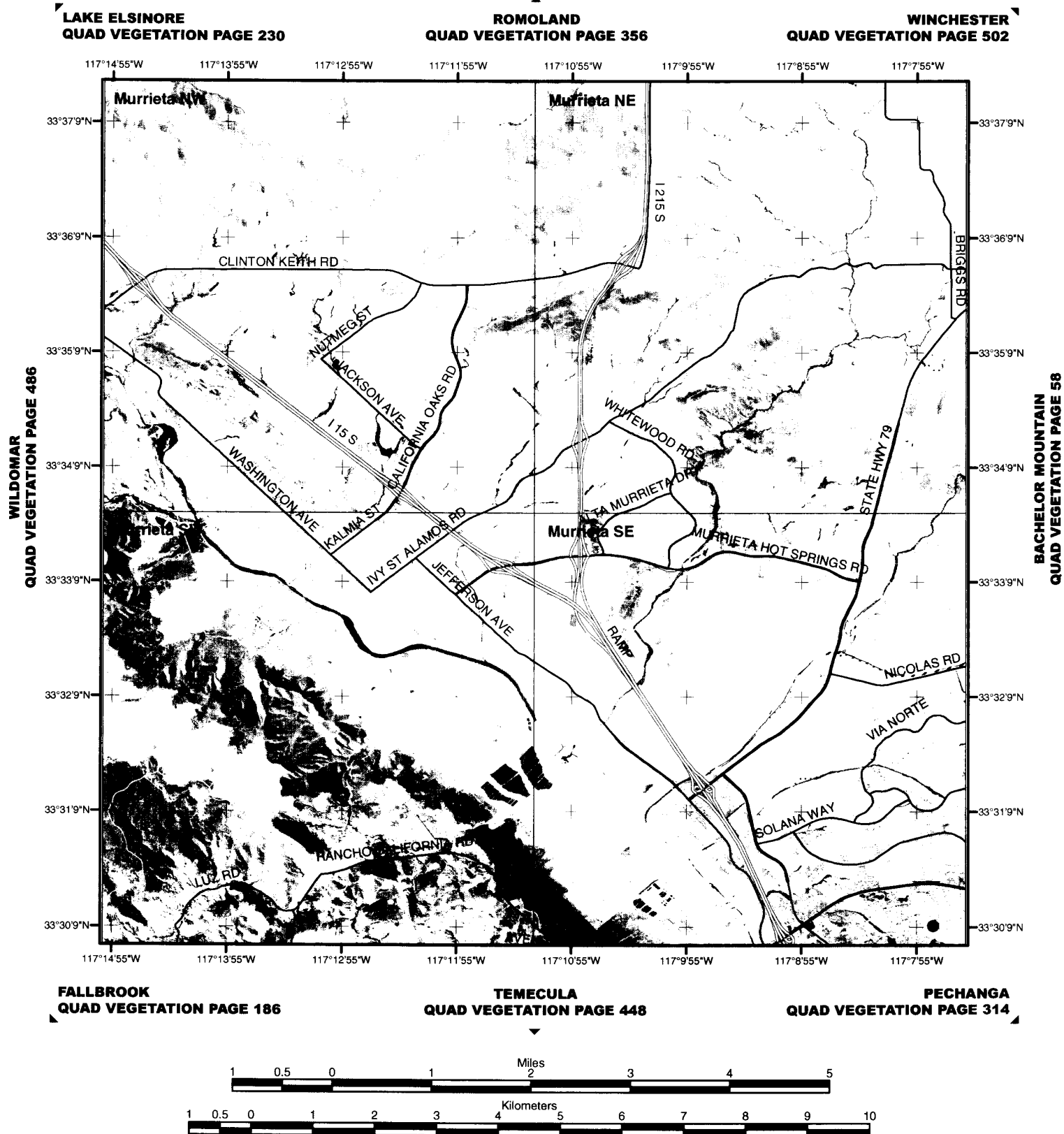


Murrieta South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

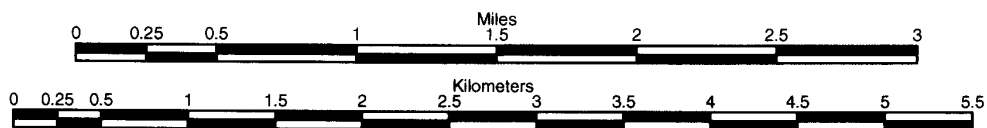
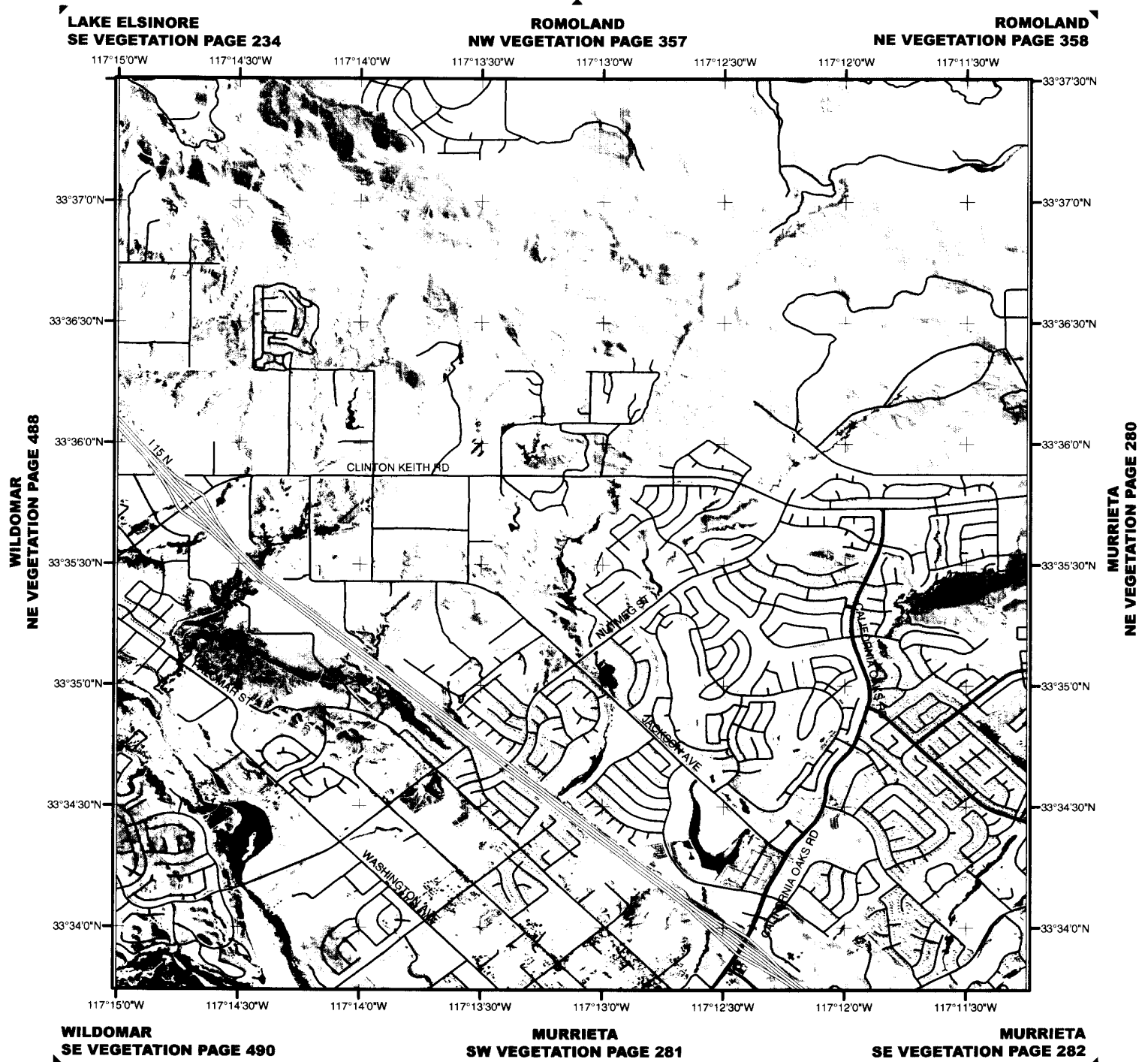


Murrieta Quadrangle

Vegetation Species Association Units for Aquatic Resources

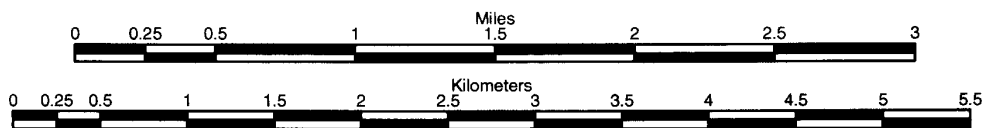
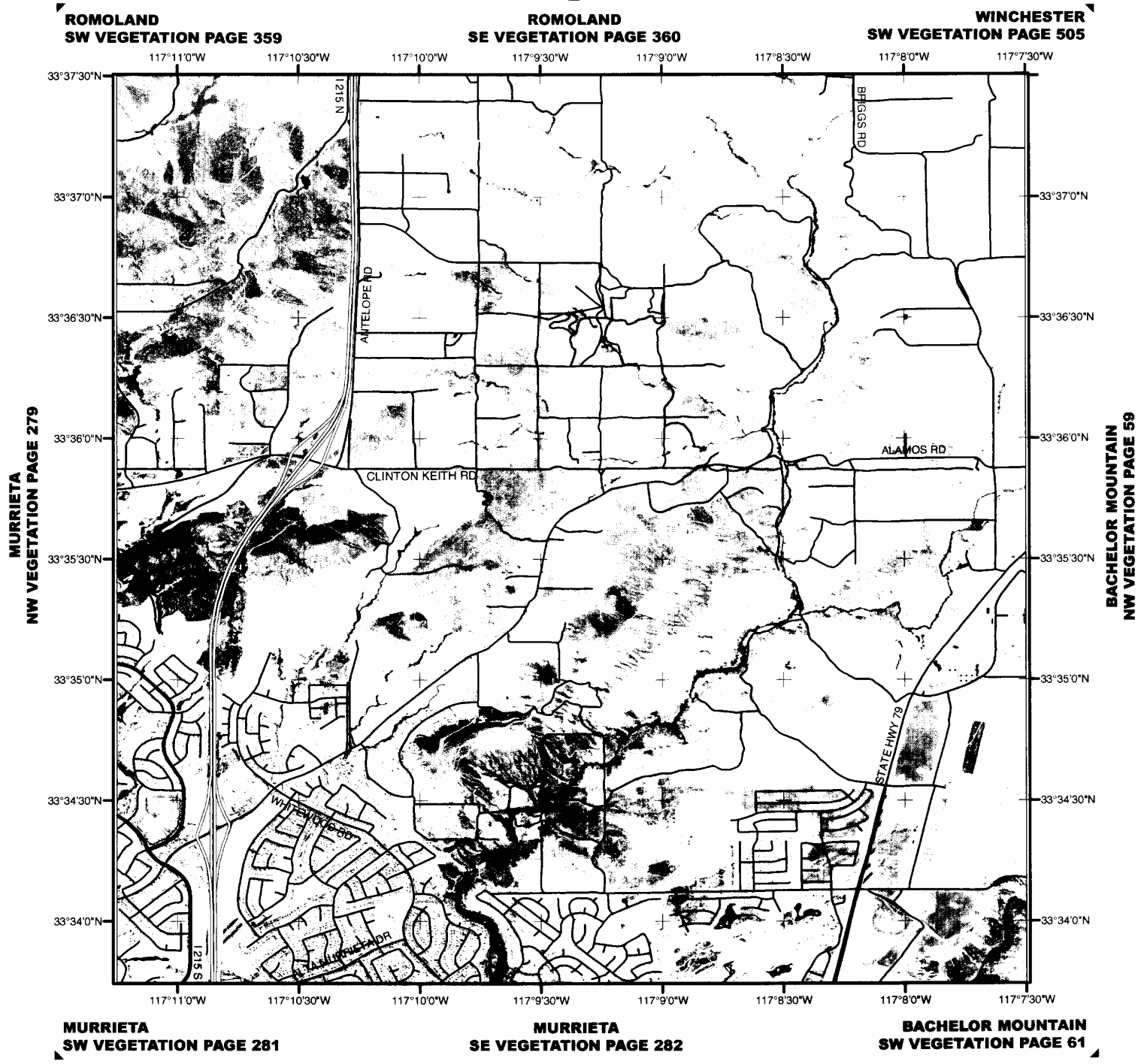


Murrieta North West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

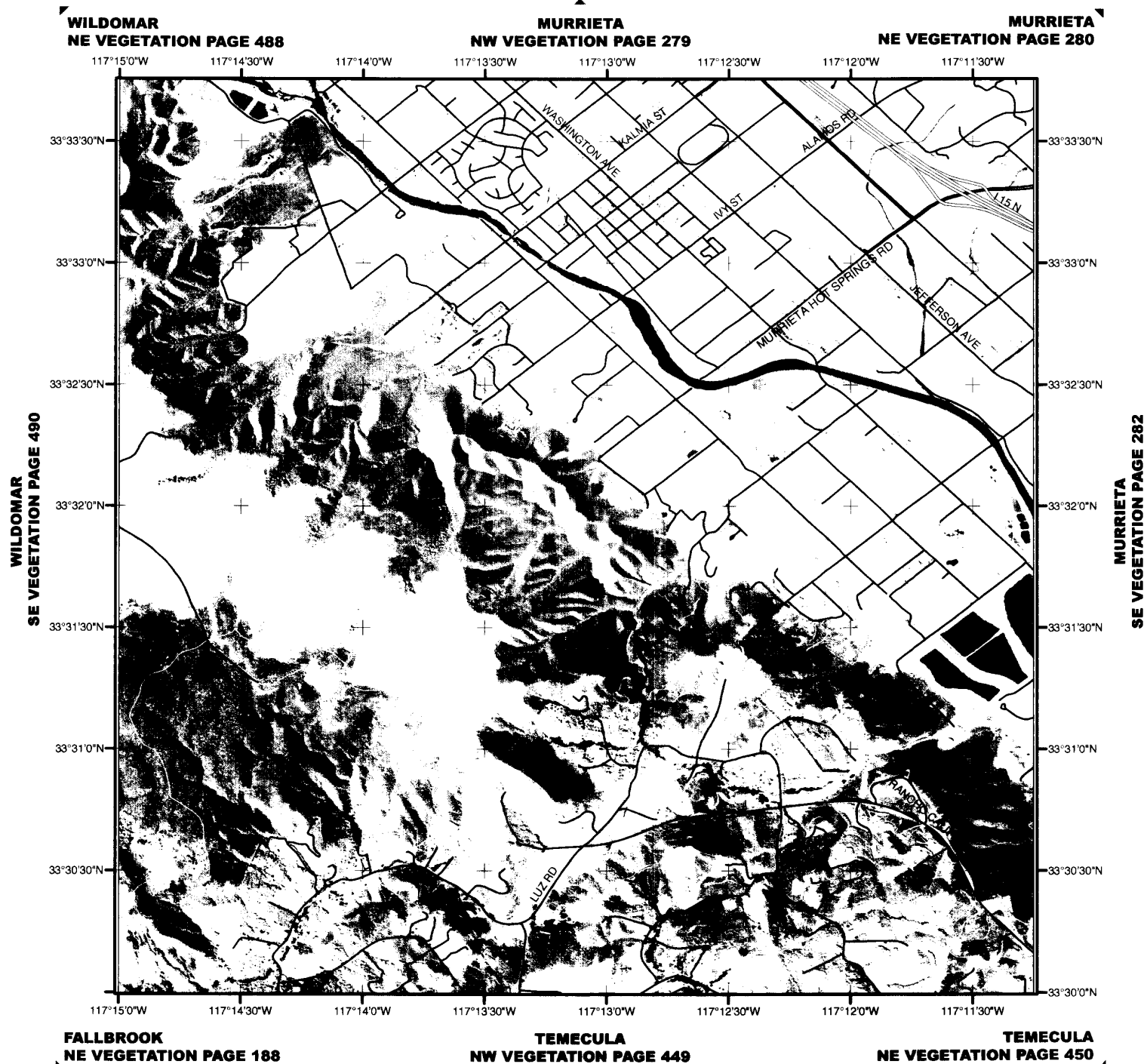


Murrieta North East Quarter-Quadrangle

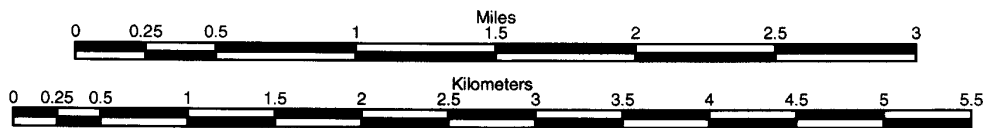
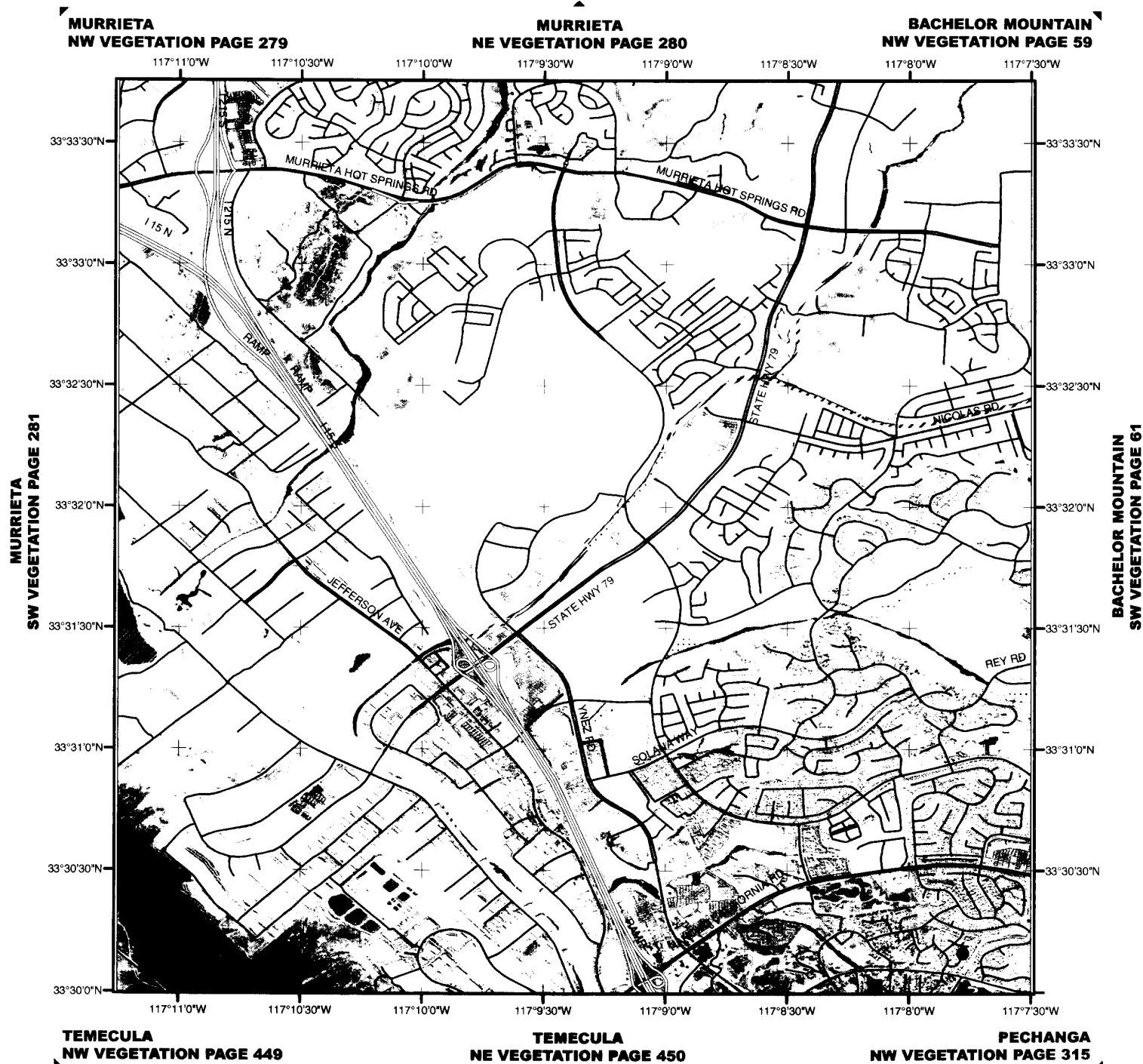
Vegetation Species Association Units for Aquatic Resources



Murrieta South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

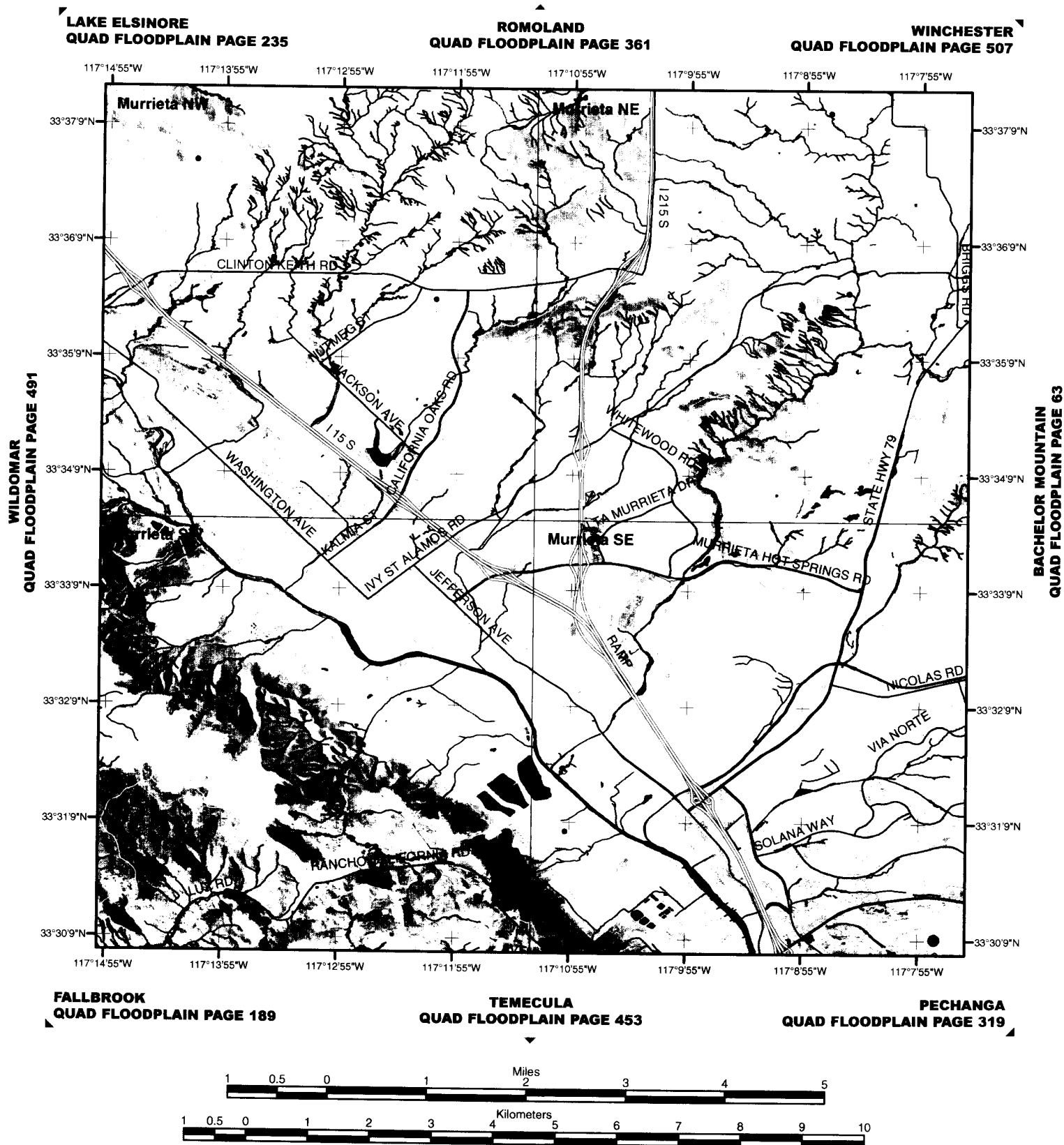


Murrieta South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

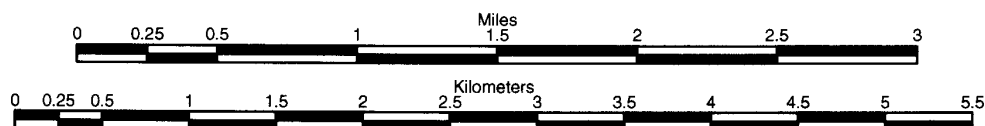
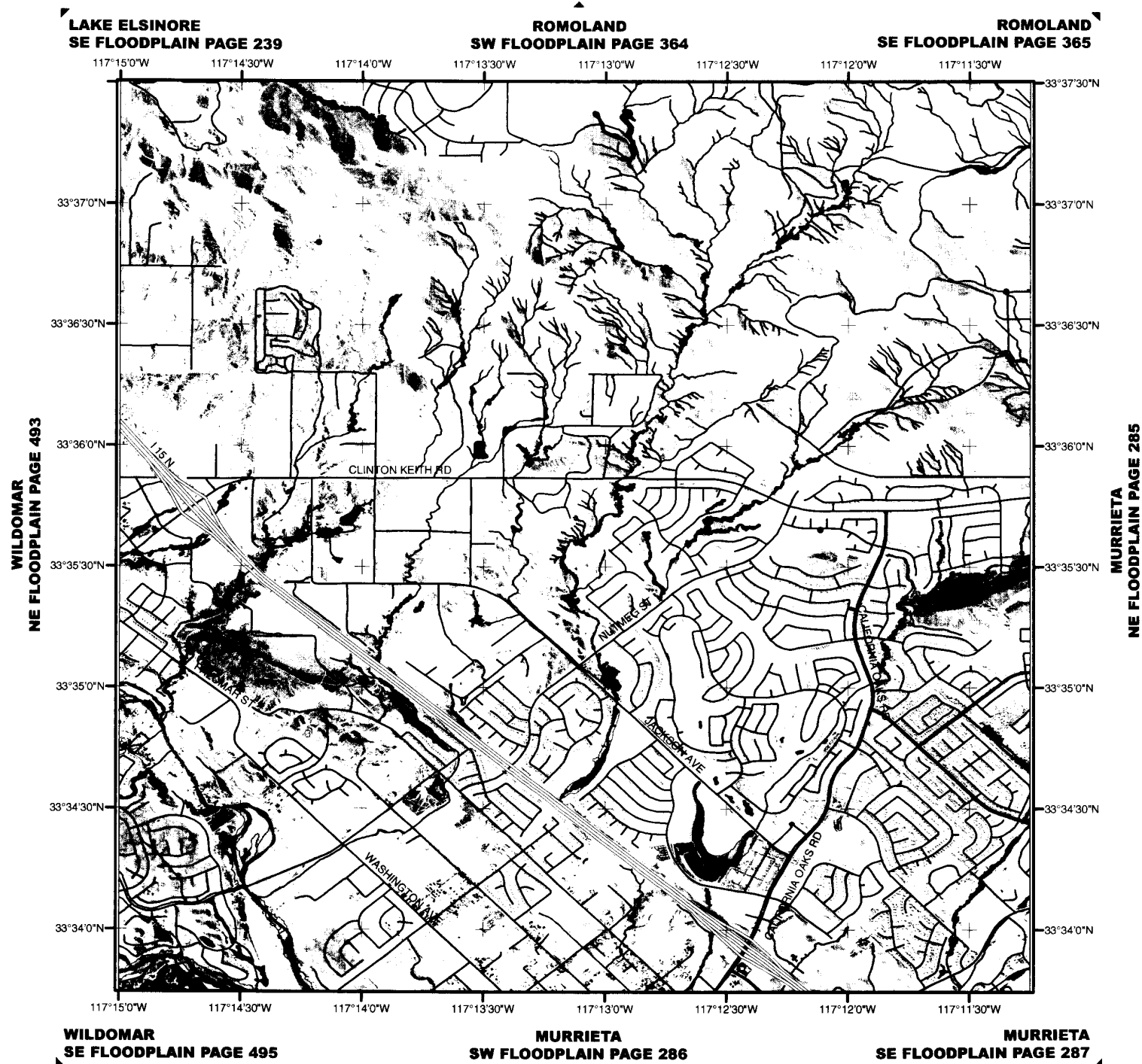


Murrieta Quadrangle

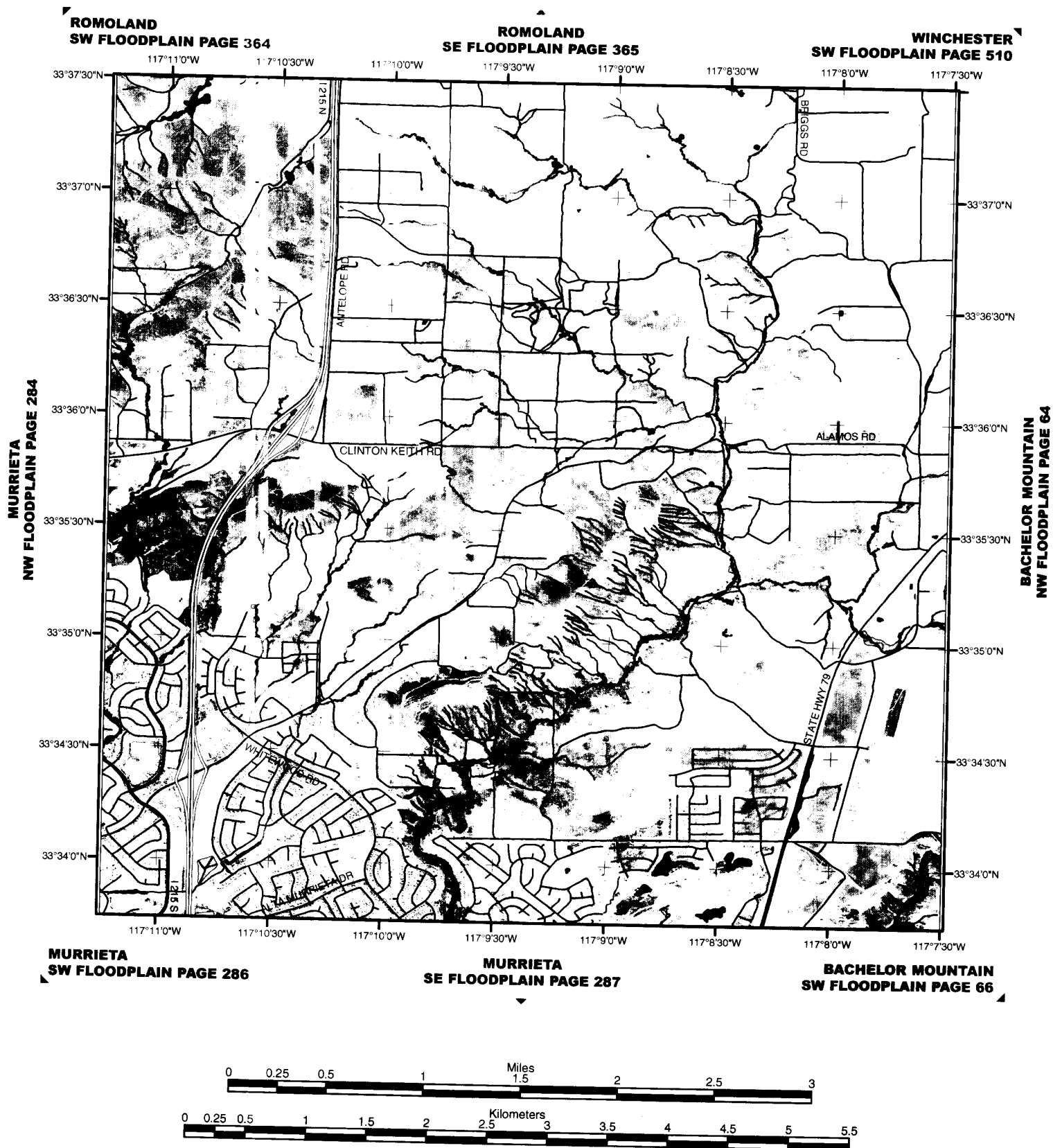
Hydrogeomorphic Floodplain Units for Aquatic Resources



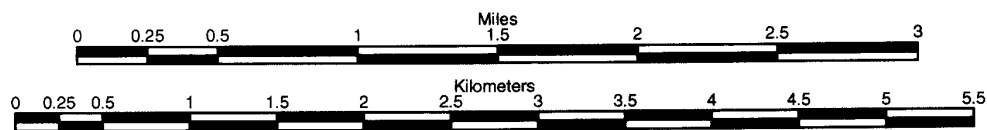
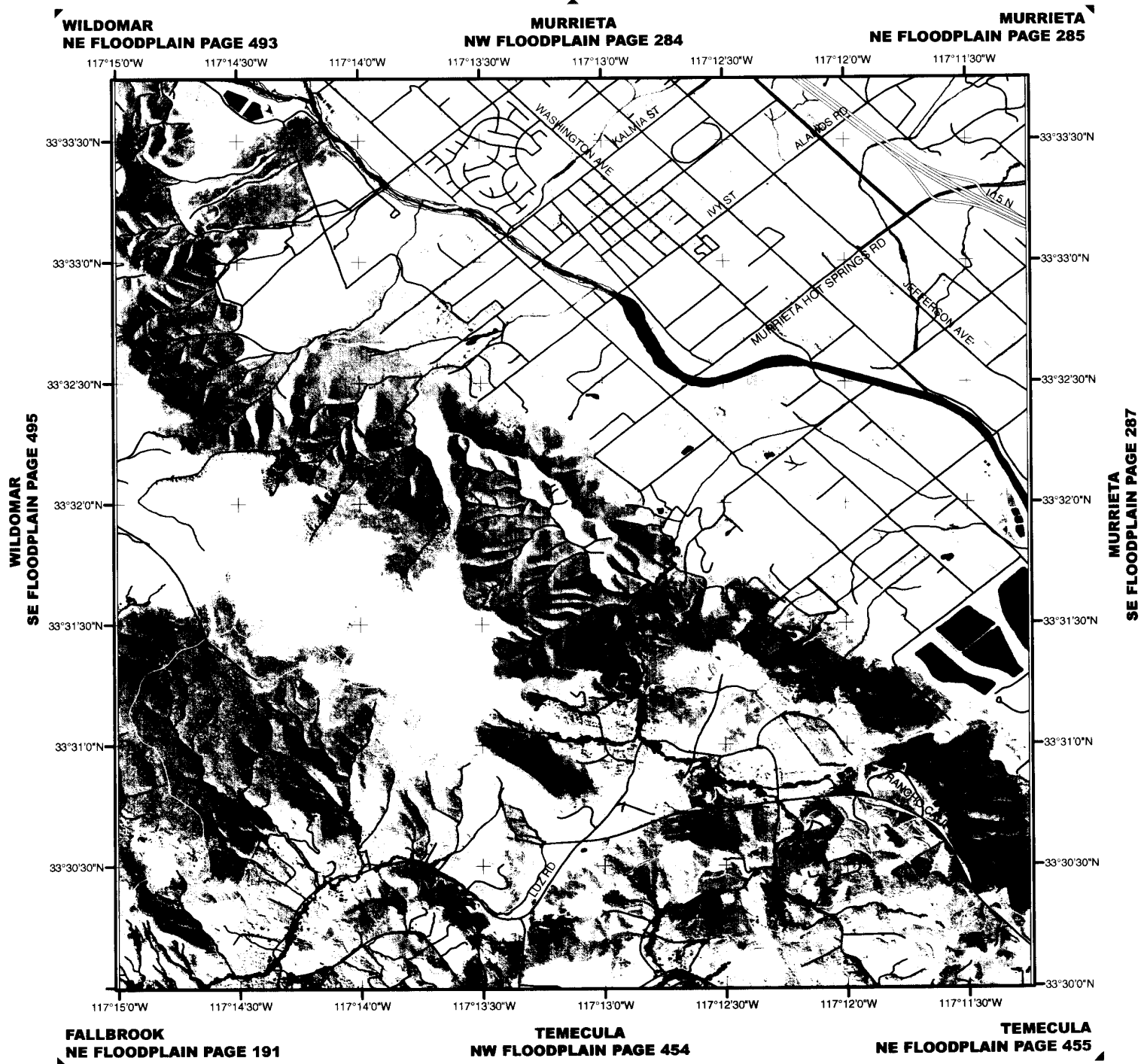
Murrieta North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



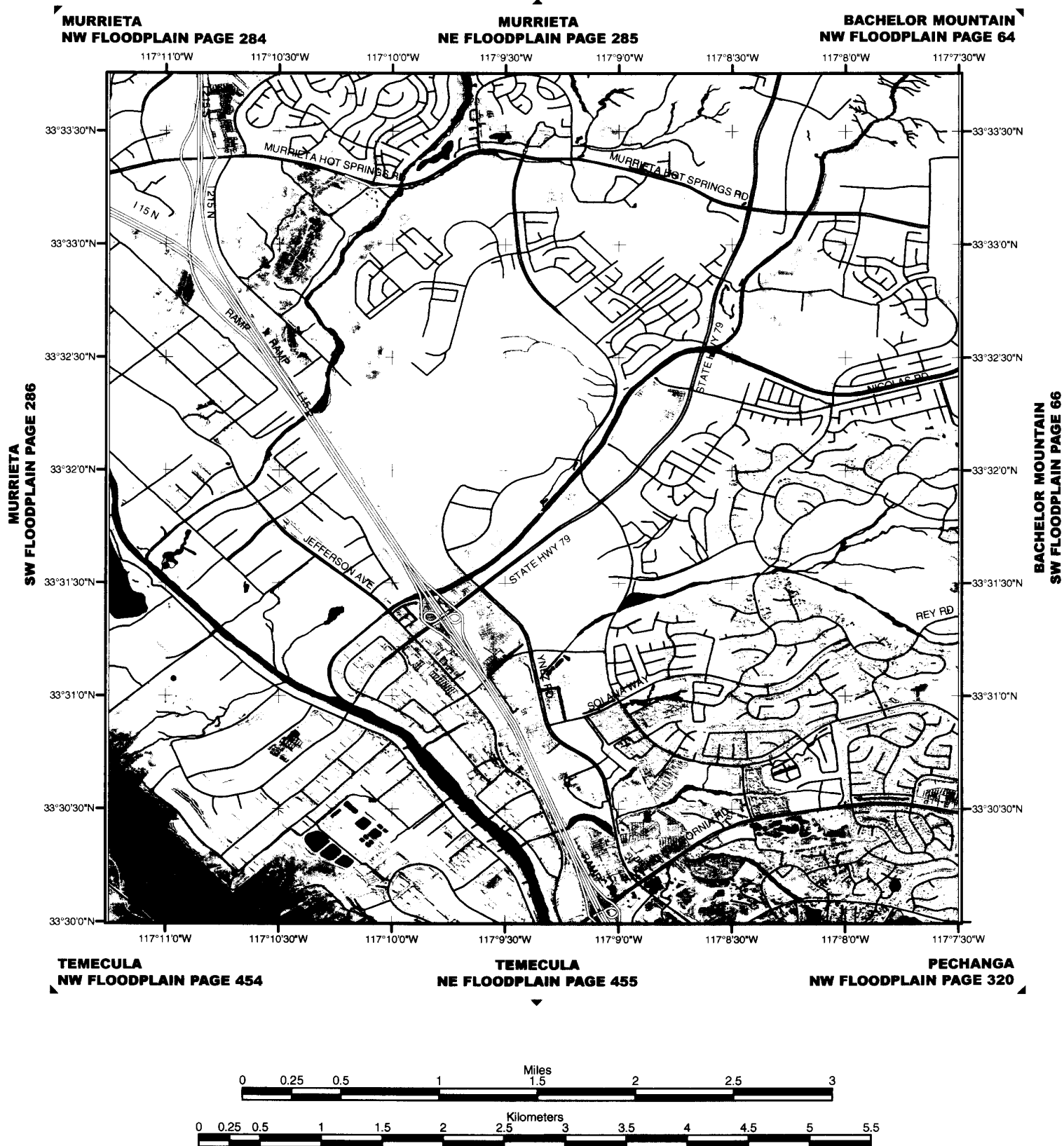
Murrieta North East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



Murrieta South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

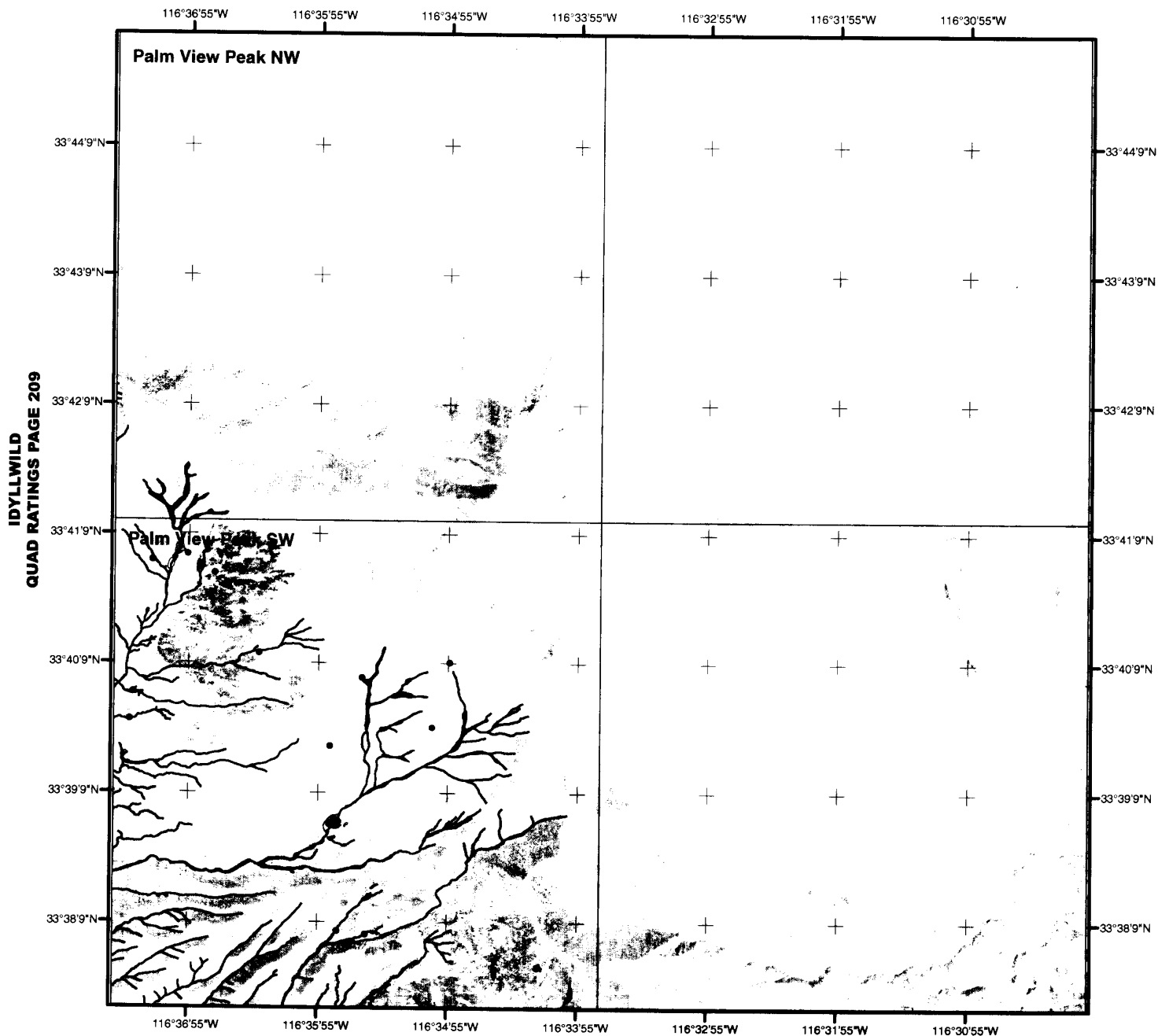


Murrieta South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



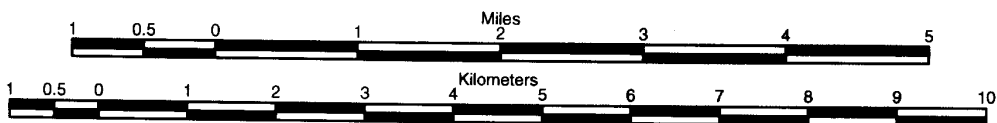
Palm View Peak Quadrangle Regulatory Probability Ratings for Aquatic Resources

**SAN JACINTO PEAK
QUAD RATINGS PAGE 399**

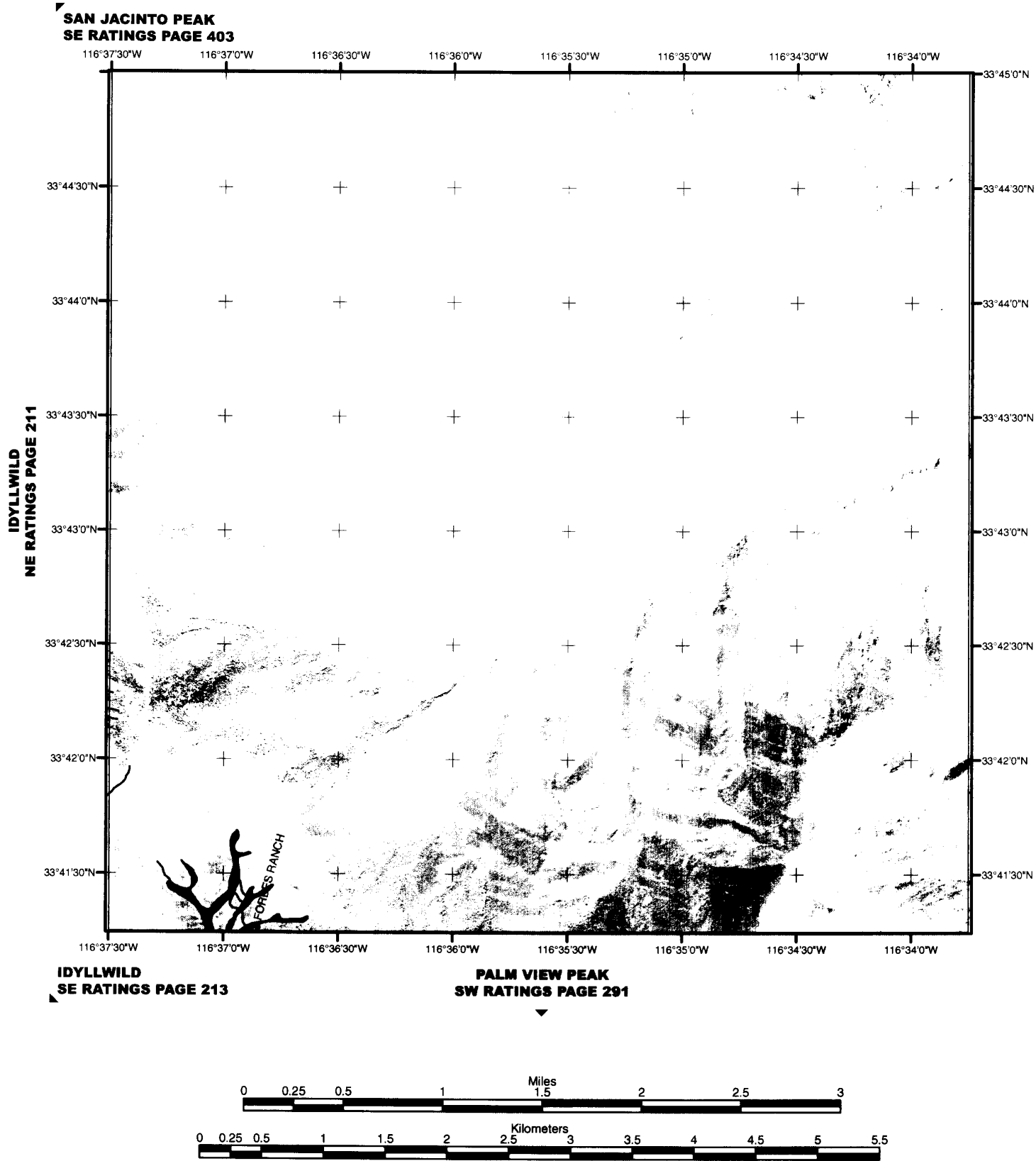


**ANZA
QUAD RATINGS PAGE 37**

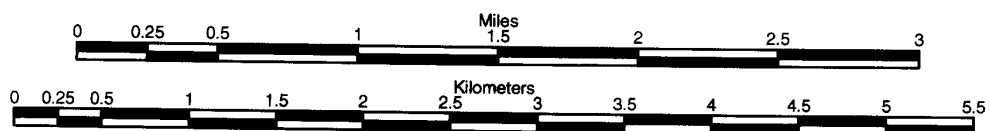
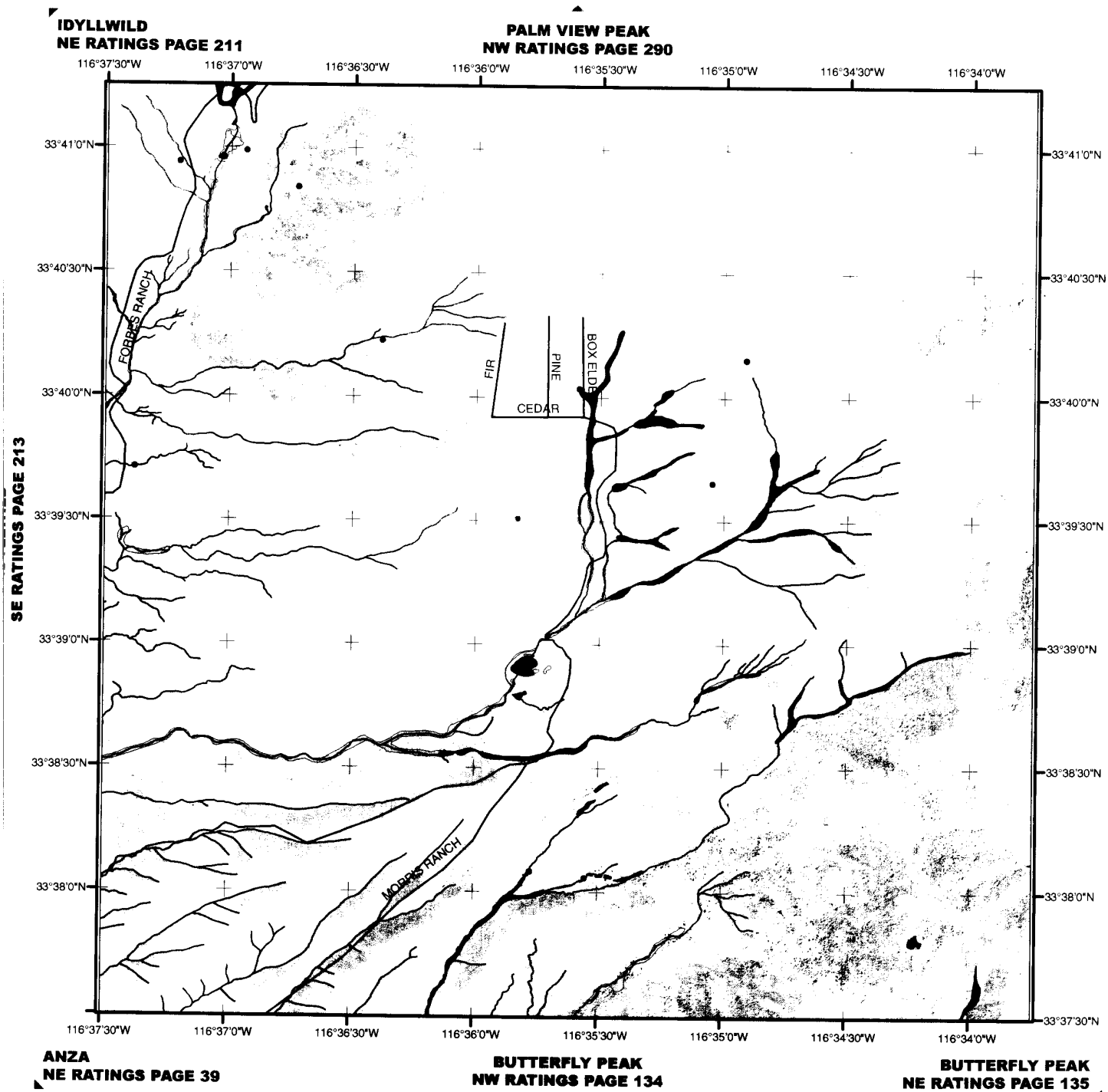
**BUTTERFLY PEAK
QUAD RATINGS PAGE 133**



Palm View Peak North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



Palm View Peak South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



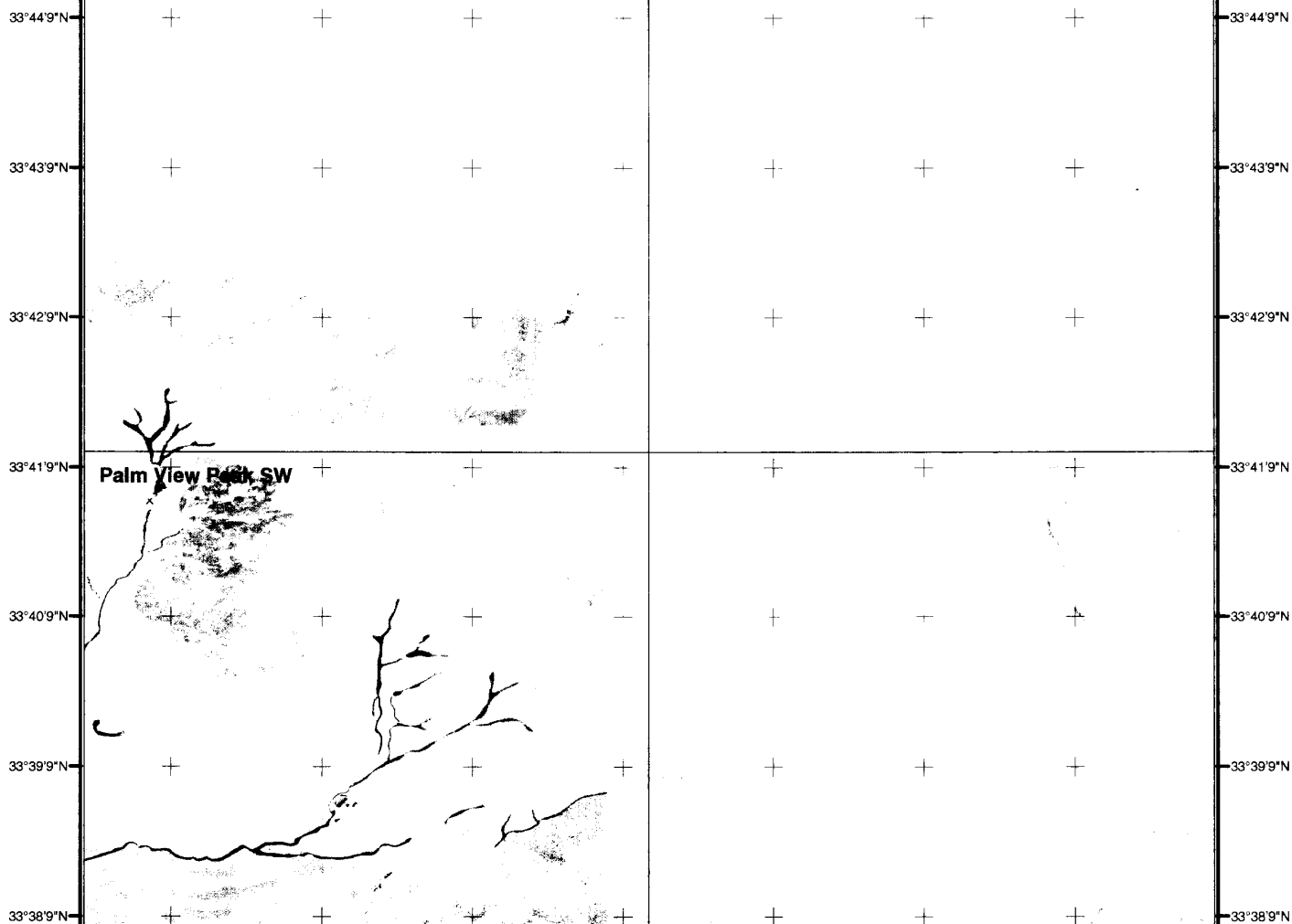
Palm View Peak Quadrangle

Vegetation Species Association Units for Aquatic Resources

SAN JACINTO PEAK
QUAD VEGETATION PAGE 404

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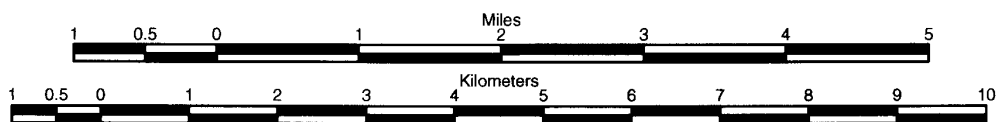
Palm View Peak NW



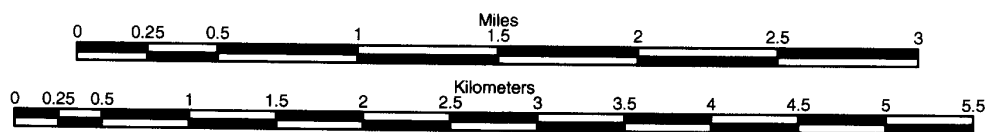
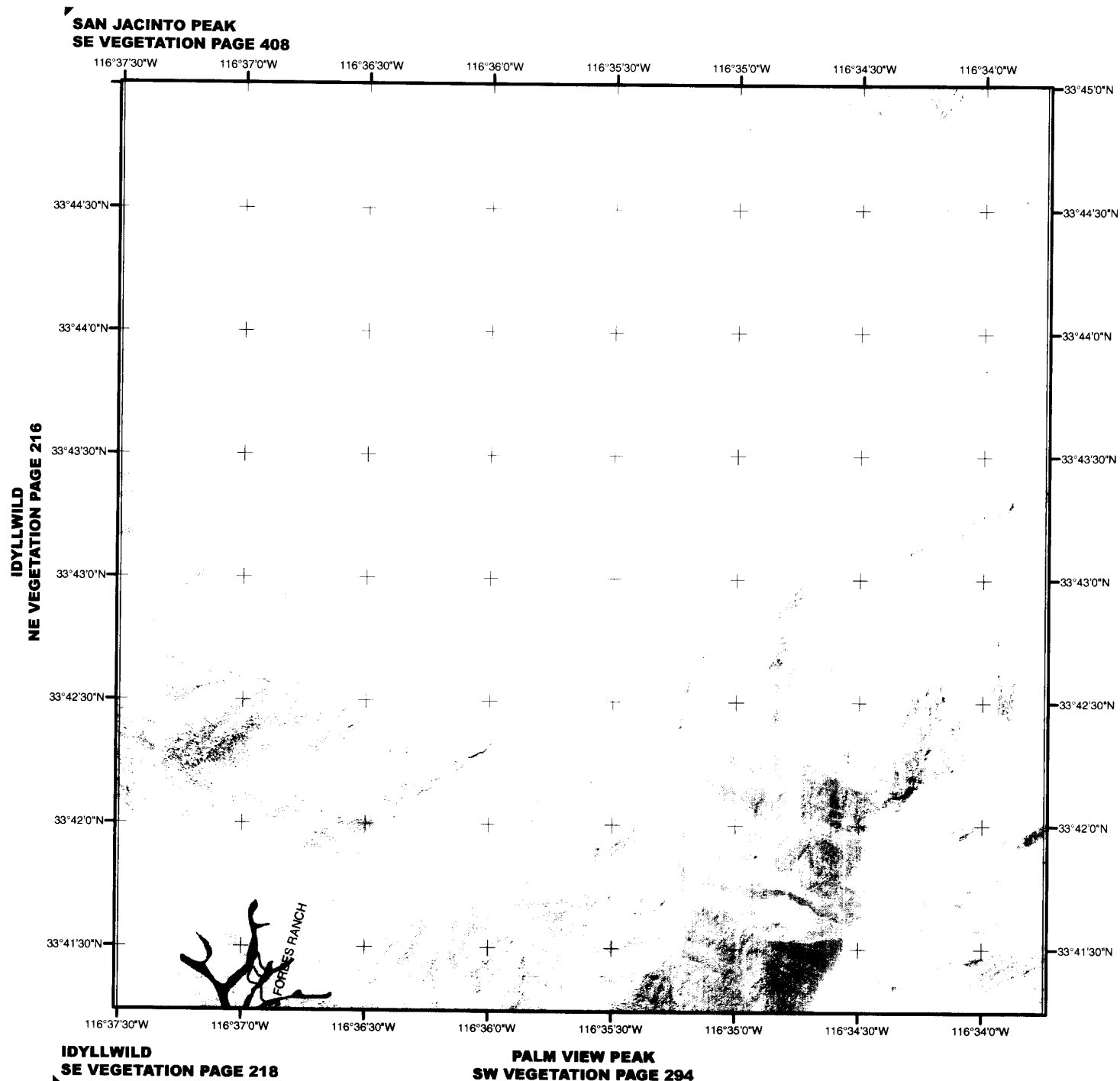
Palm View Peak SW

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QUAD VEGETATION PAGE 42

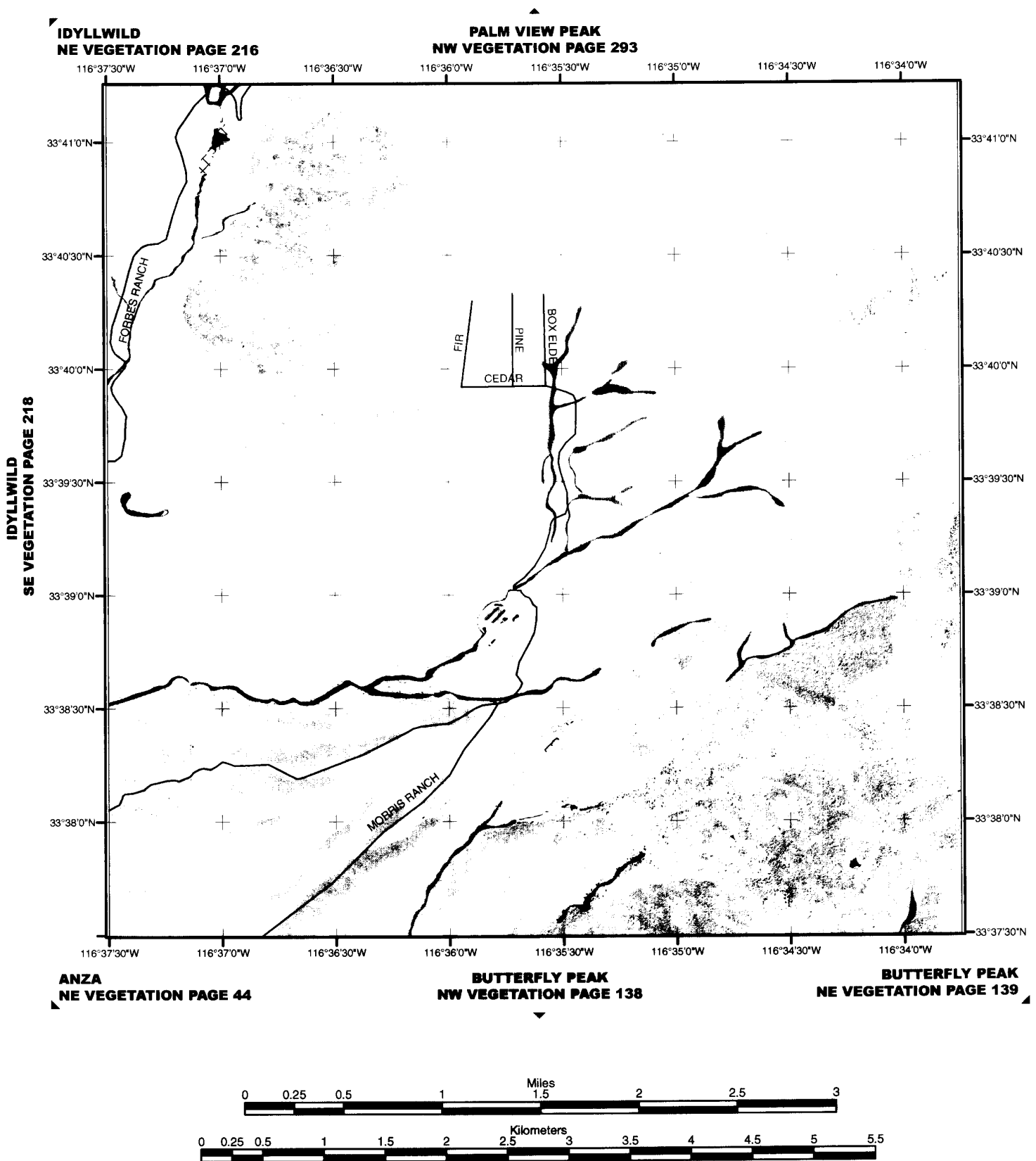
BUTTERFLY PEAK
QUAD VEGETATION PAGE 137



Palm View Peak North West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



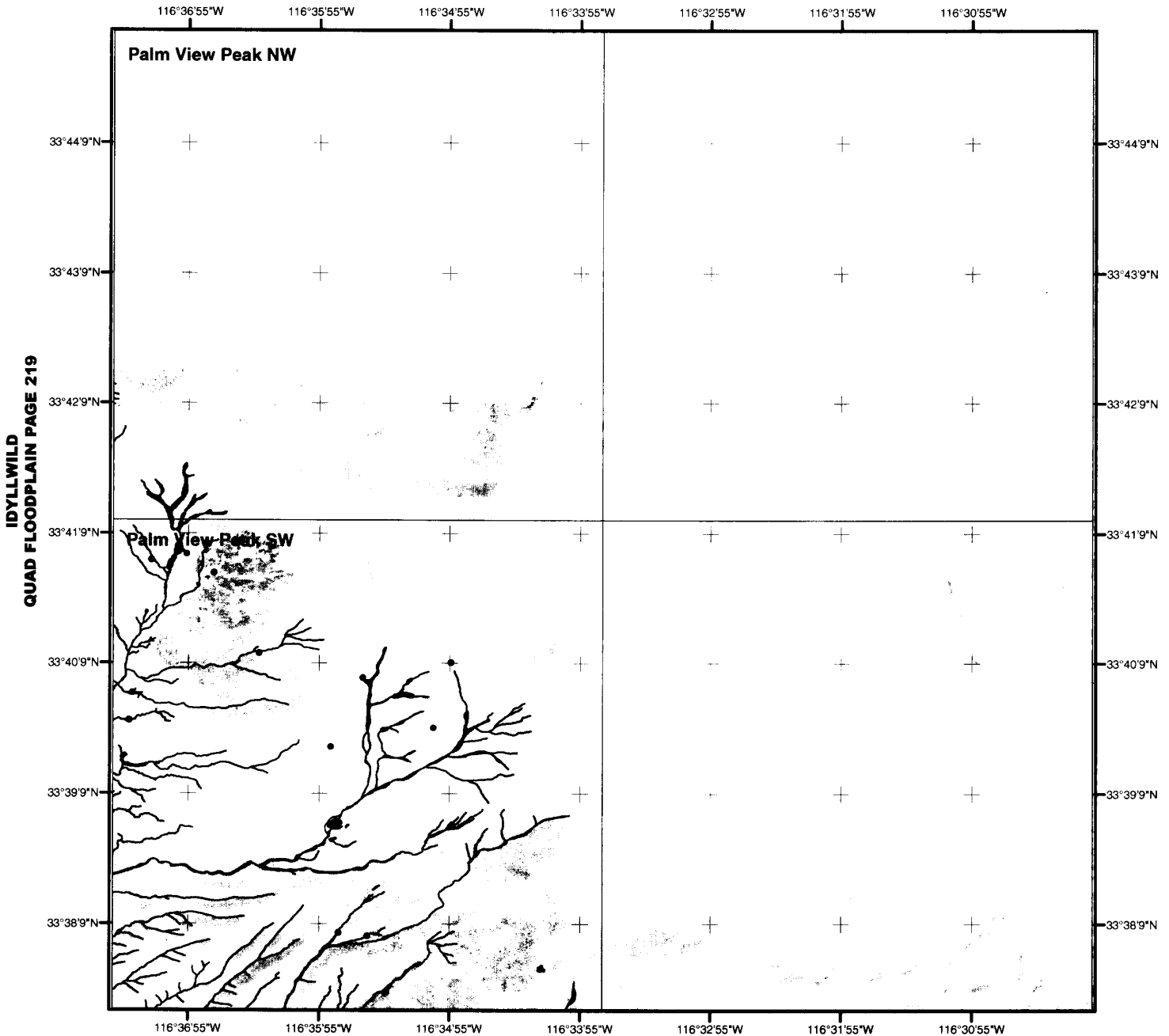
Palm View Peak South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



Palm View Peak Quadrangle

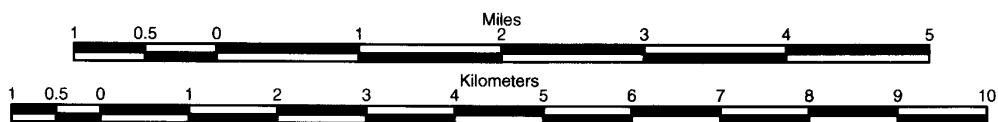
Hydrogeomorphic Floodplain Units for Aquatic Resources

SAN JACINTO PEAK
QUAD FLOODPLAIN PAGE 409

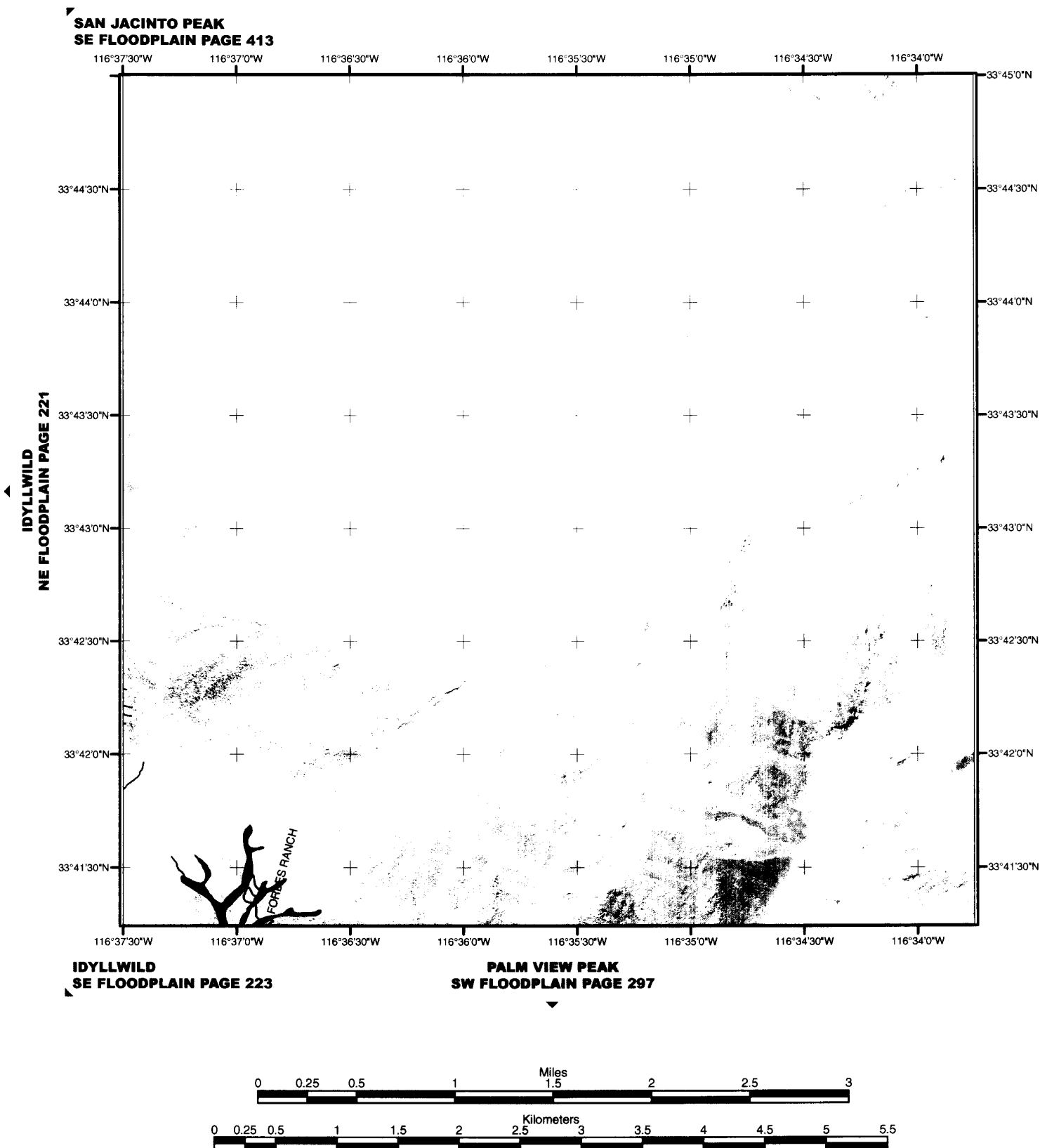


ANZA
QUAD FLOODPLAIN PAGE 47

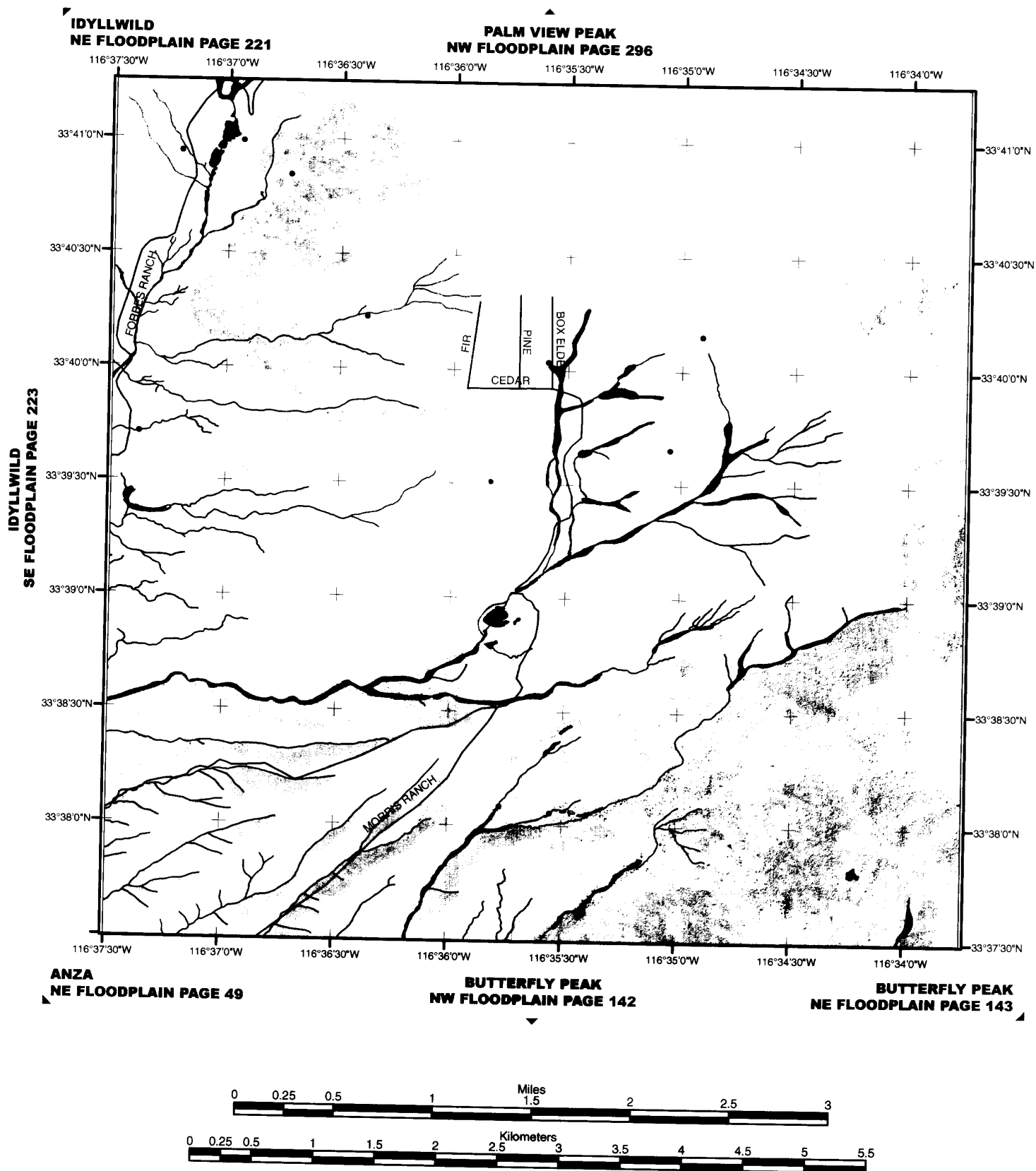
BUTTERFLY PEAK
QUAD FLOODPLAIN PAGE 141



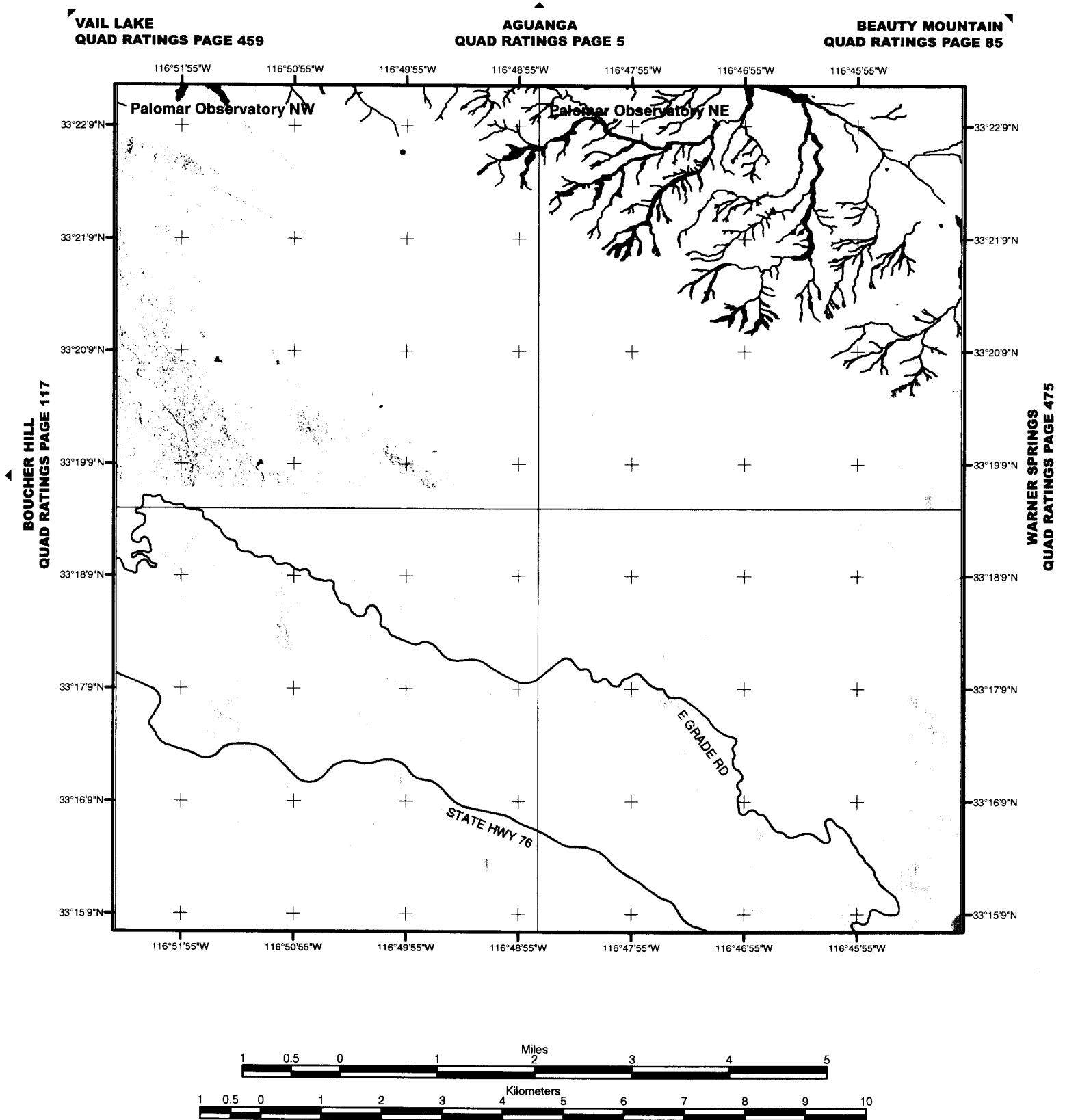
Palm View Peak North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



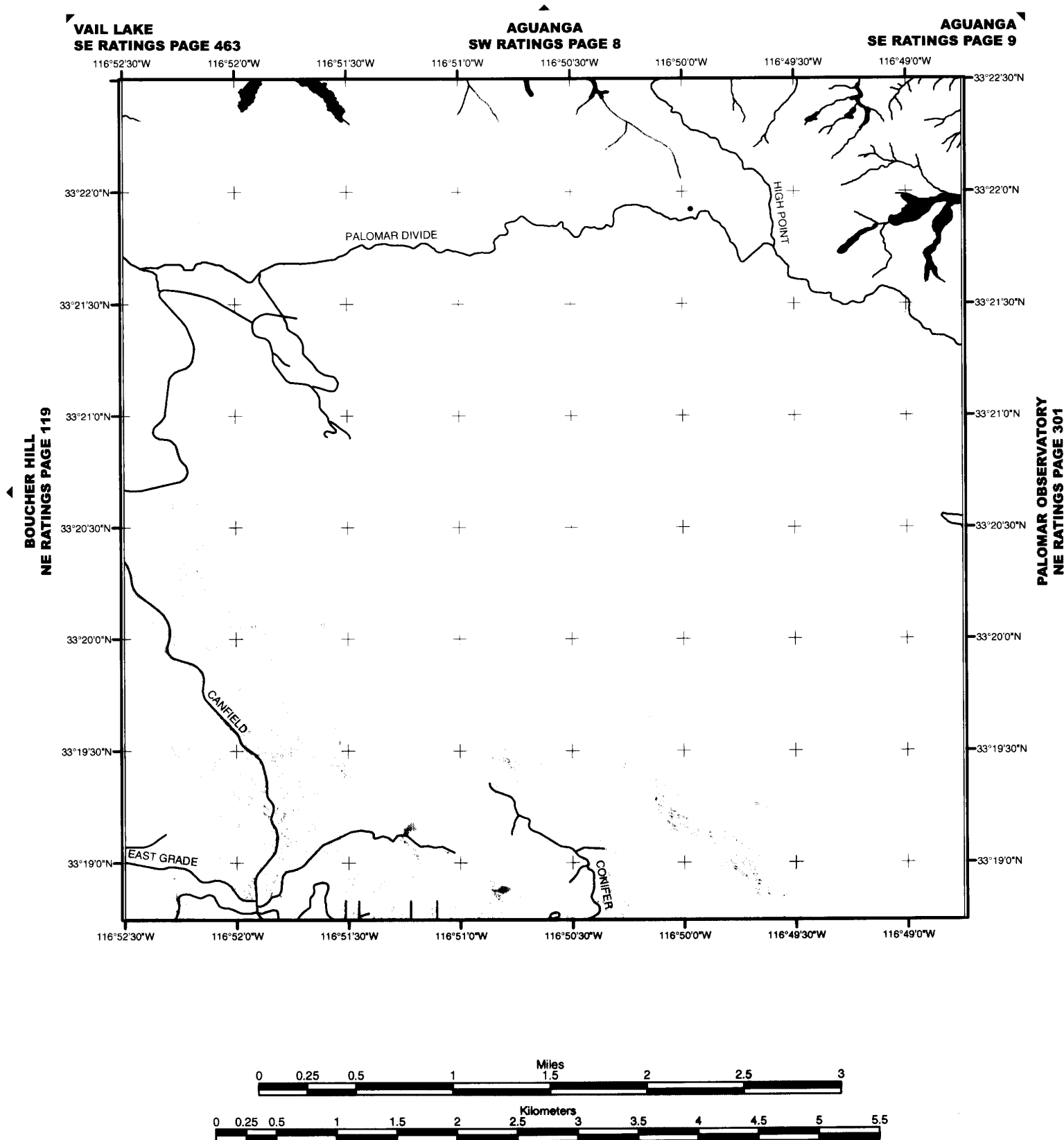
Palm View Peak South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



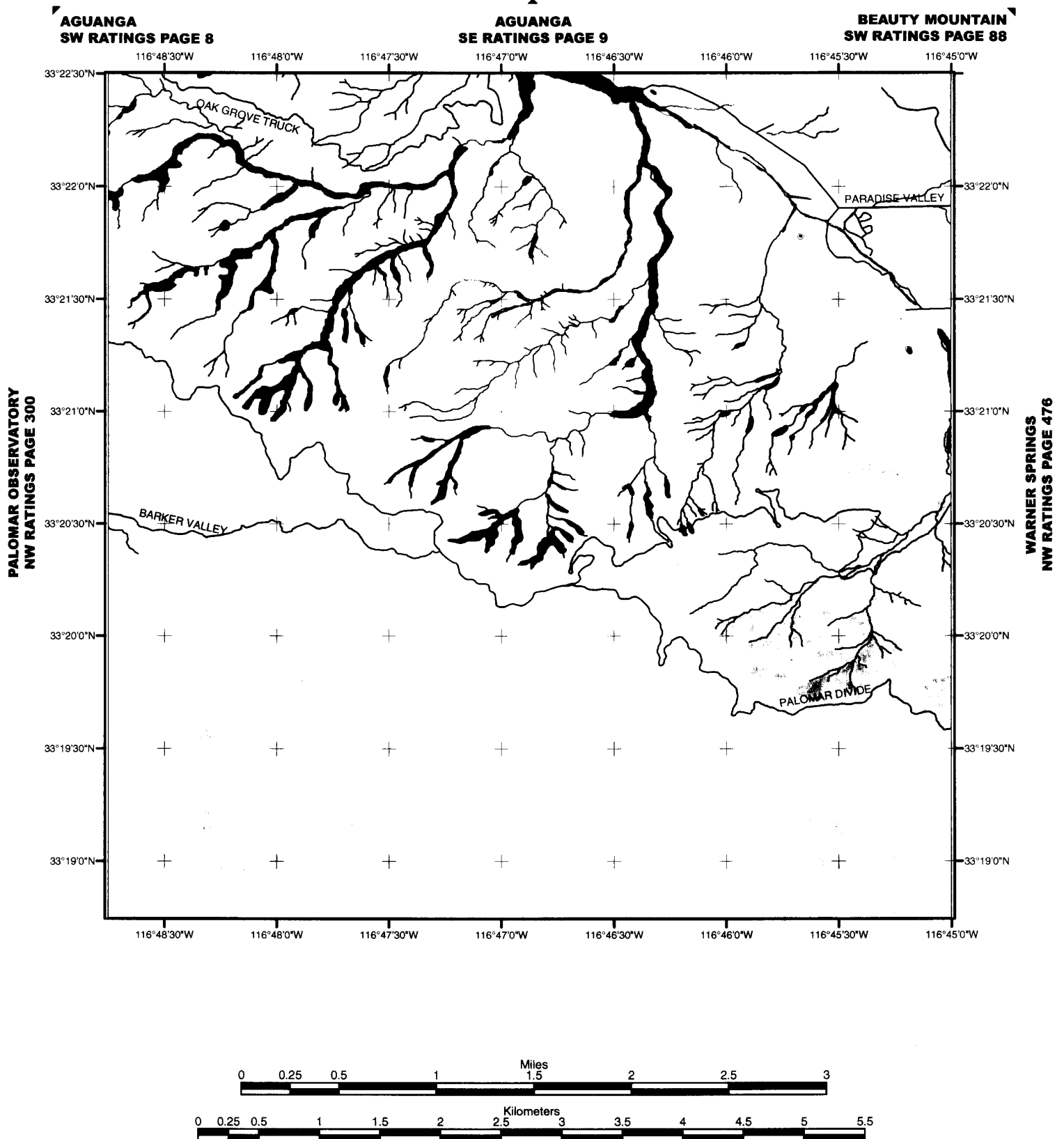
Palomar Observatory Quadrangle Regulatory Probability Ratings for Aquatic Resources



Palomar Observatory North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

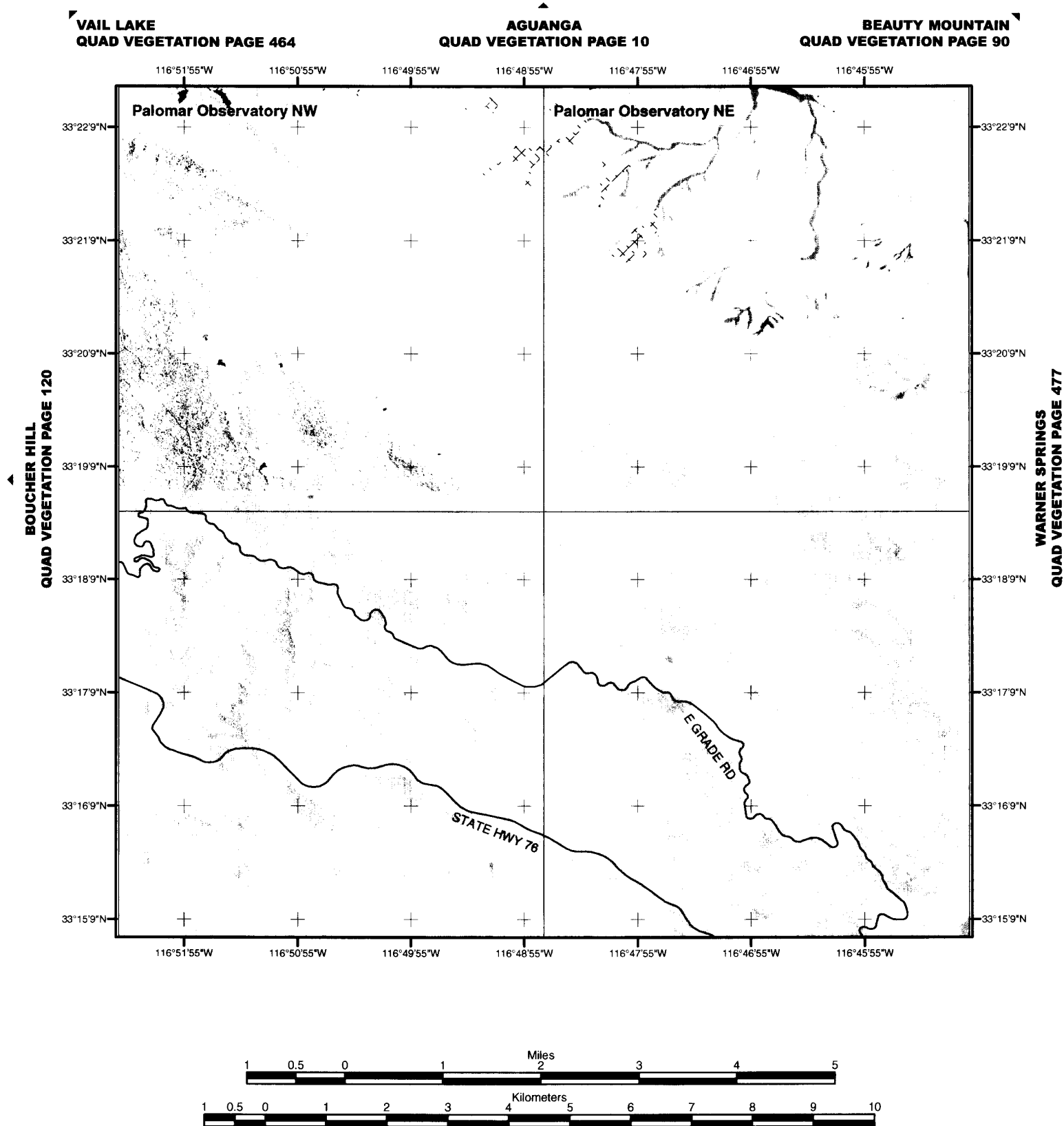


Palomar Observatory North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

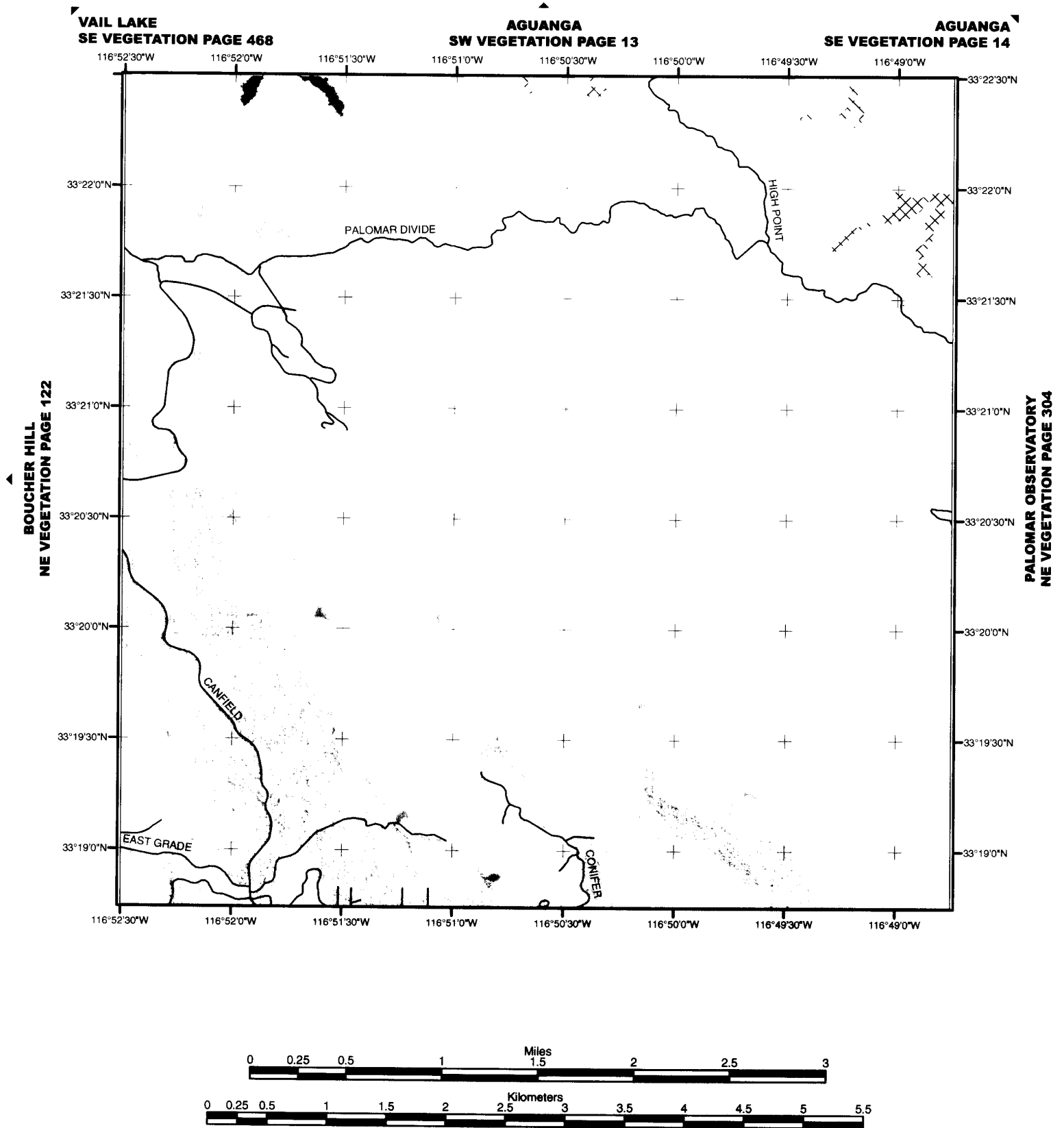


Palomar Observatory Quadrangle

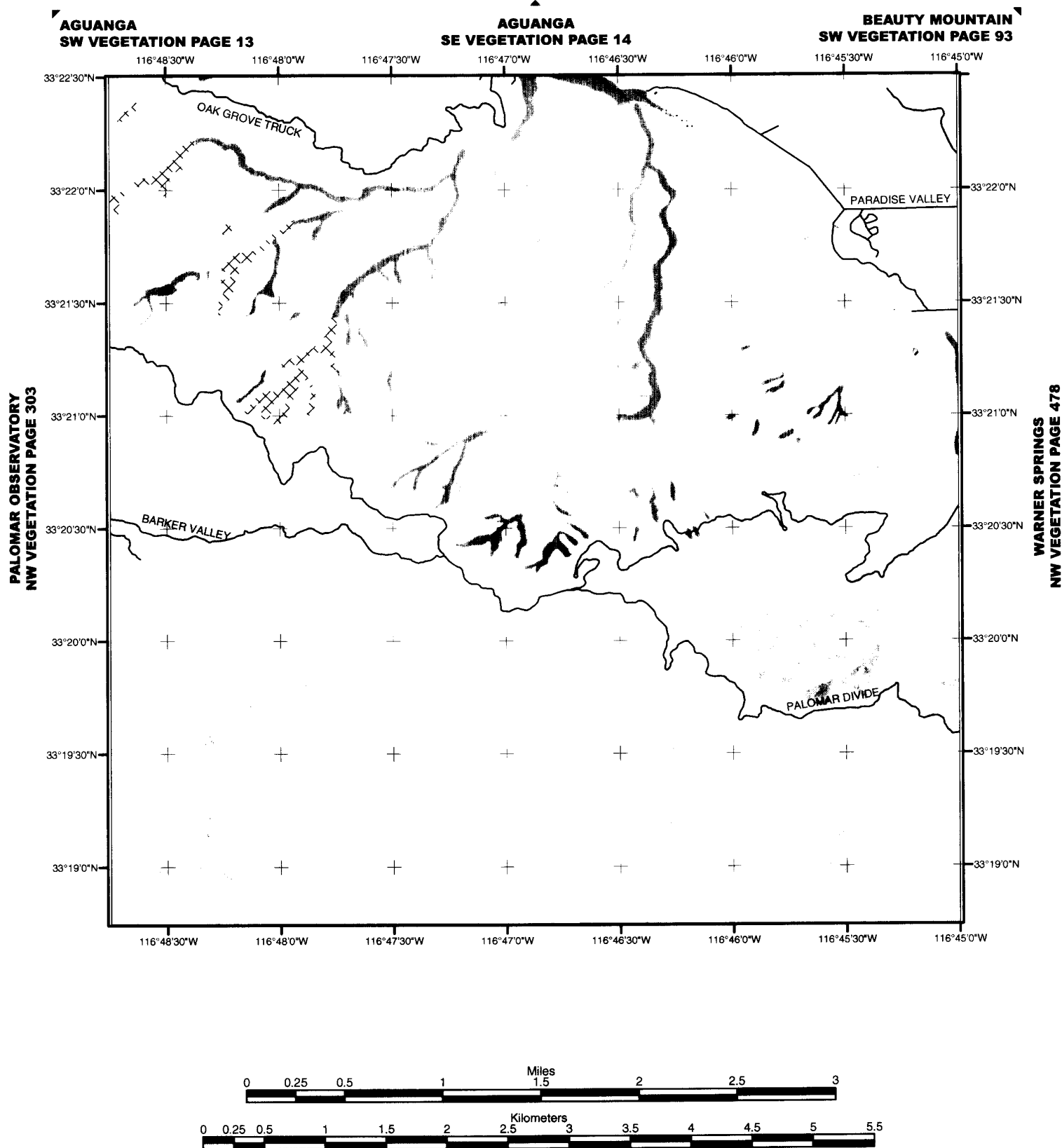
Vegetation Species Association Units for Aquatic Resources



Palomar Observatory North West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

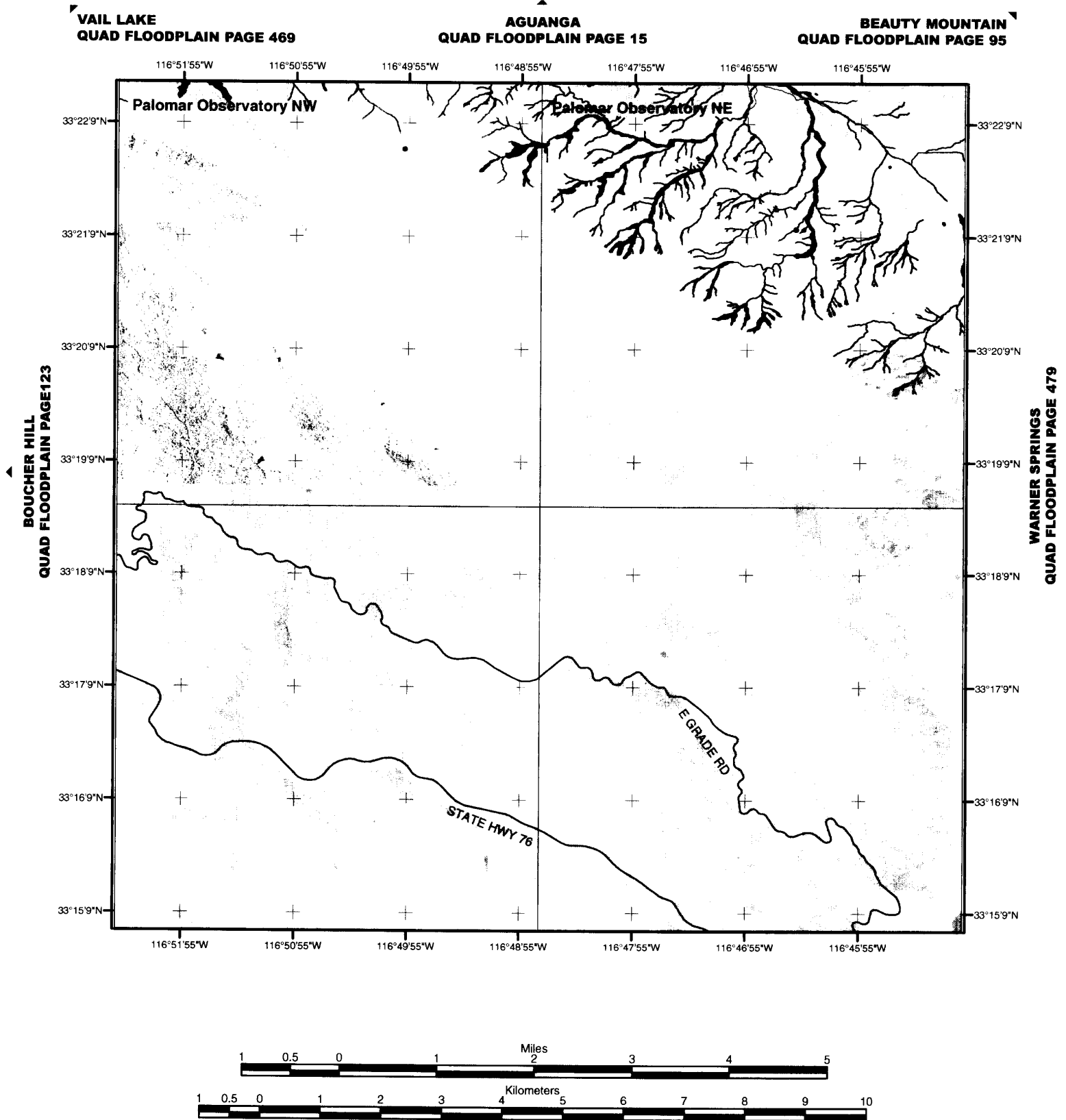


Palomar Observatory North East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

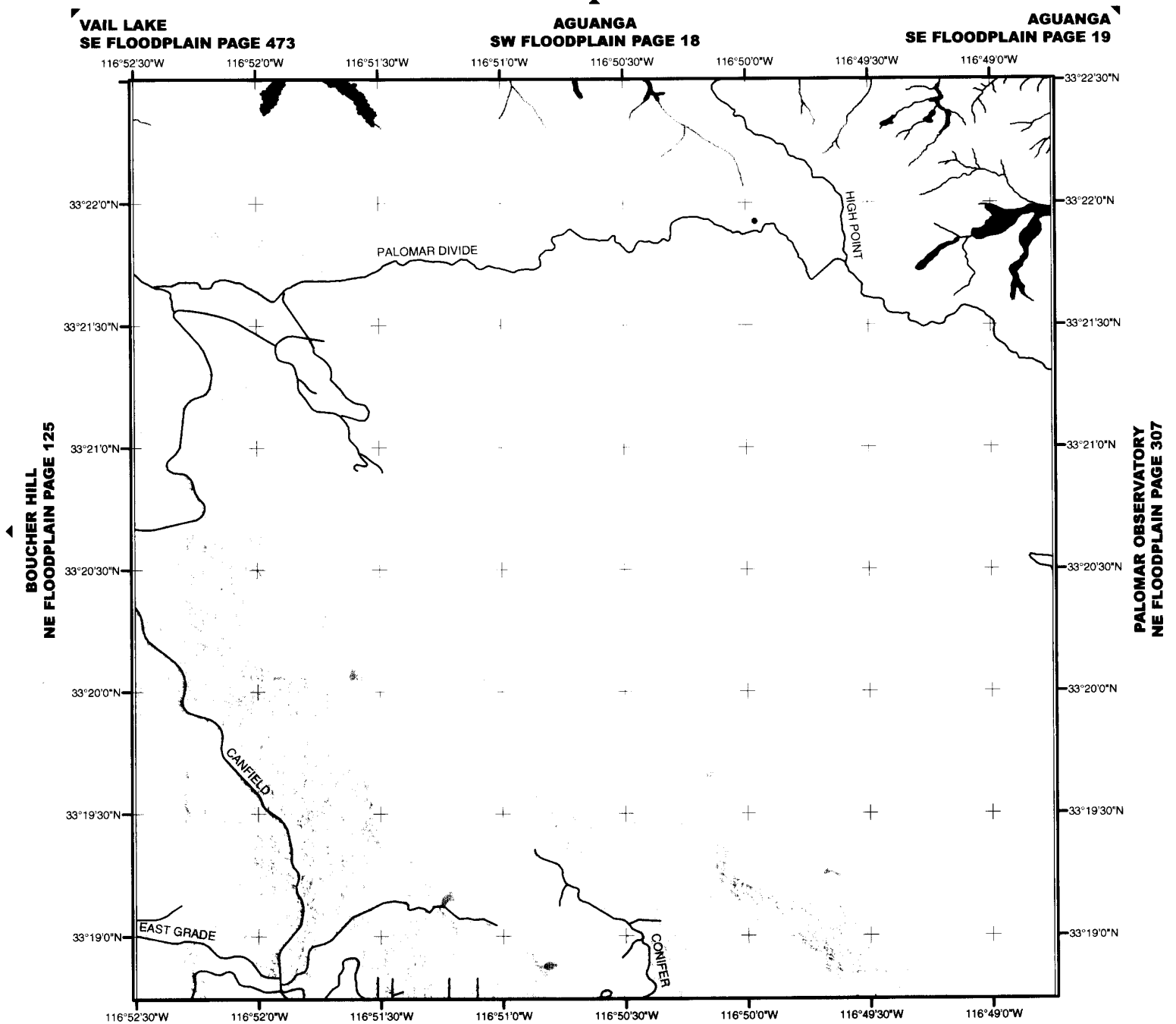


Palomar Observatory Quadrangle

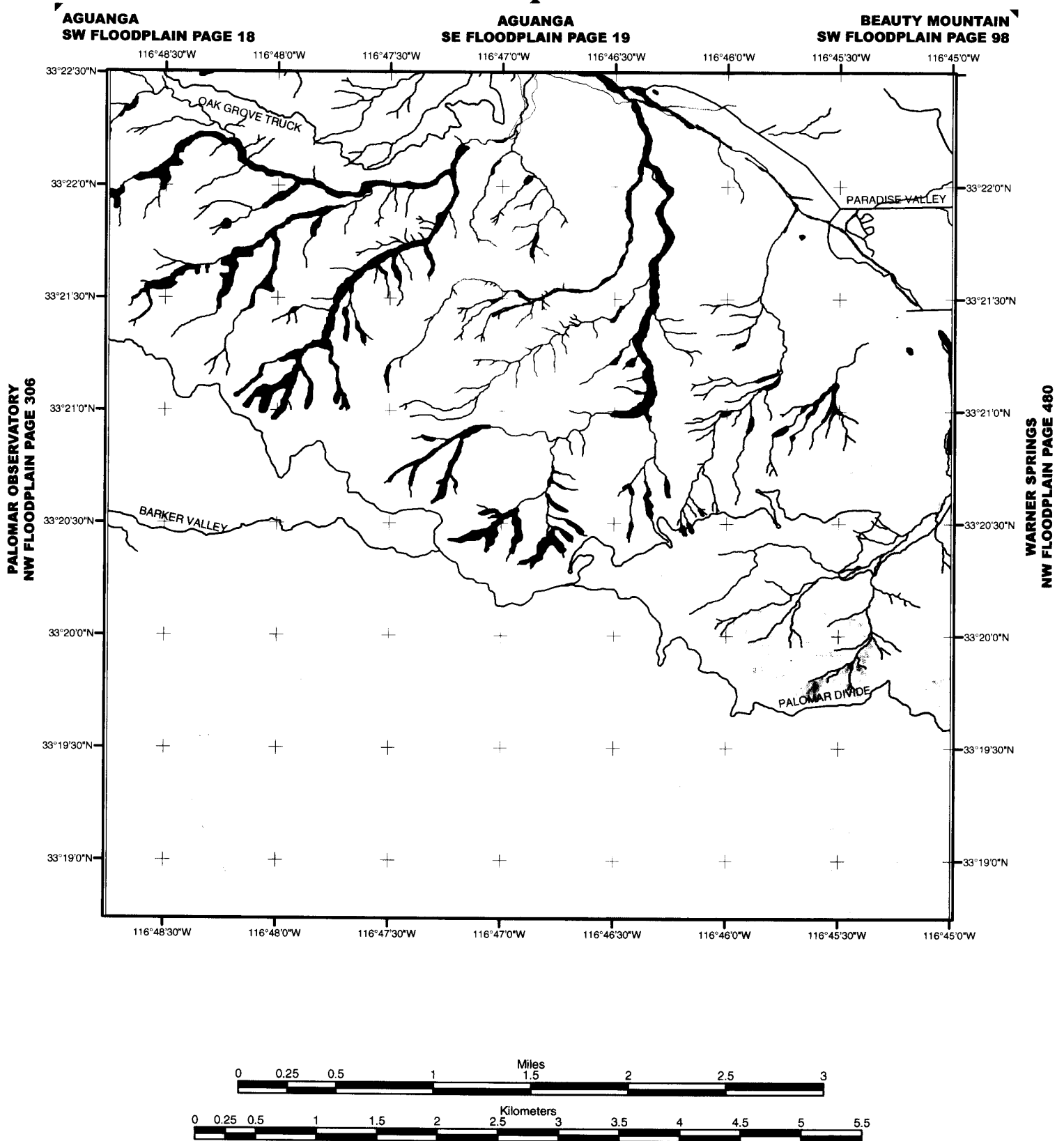
Hydrogeomorphic Floodplain Units for Aquatic Resources



Palomar Observatory North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



Palomar Observatory North East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



Pechanga Quadrangle

Regulatory Probability Ratings for Aquatic Resources

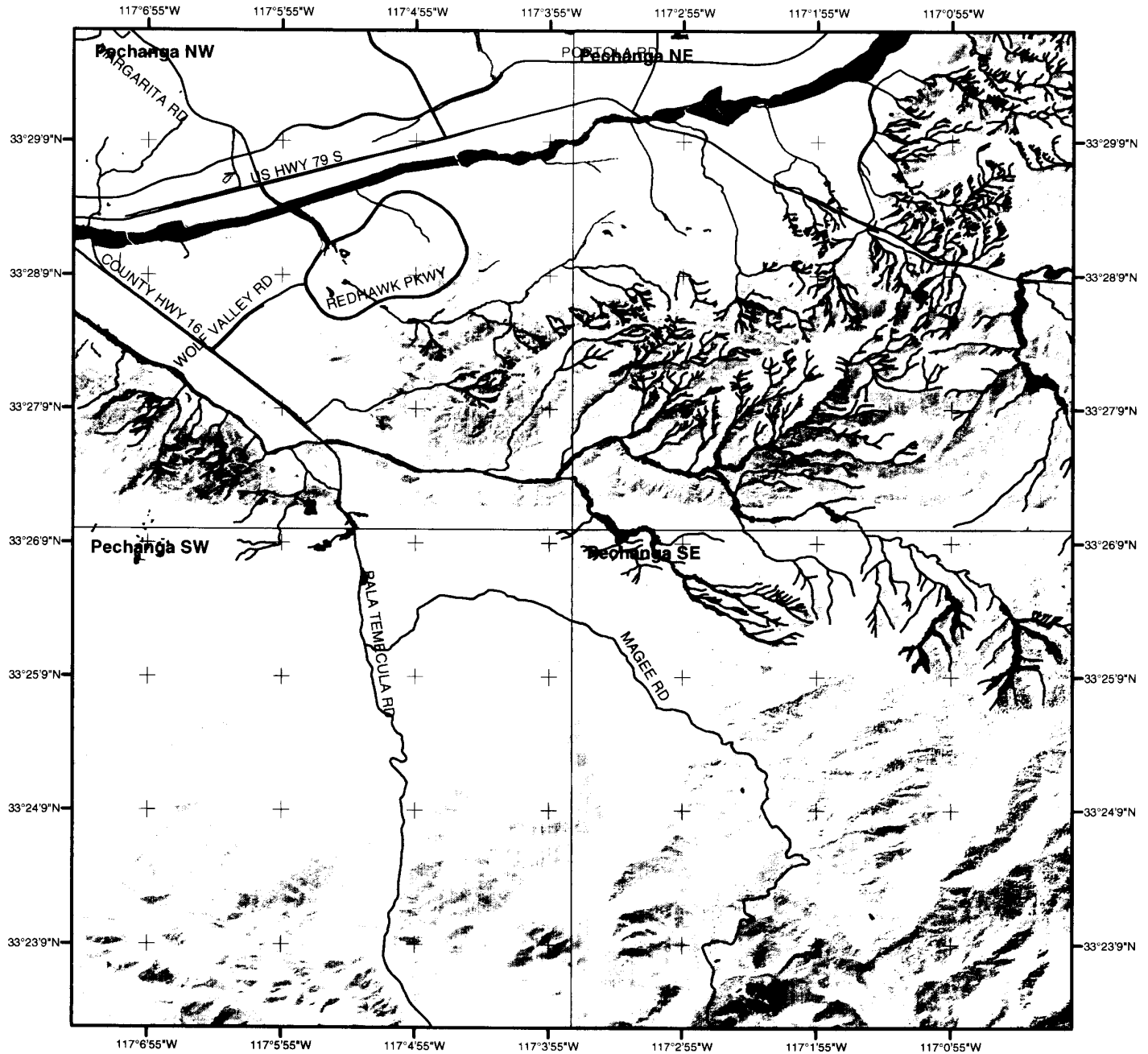
MURRIETA
QUAD RATINGS PAGE 273

BACHELOR MOUNTAIN
QUAD RATINGS PAGE 53

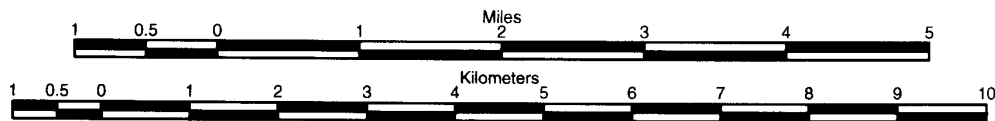
SAGE
QUAD RATINGS PAGE 367

TEMECULA
QUAD RATINGS PAGE 443

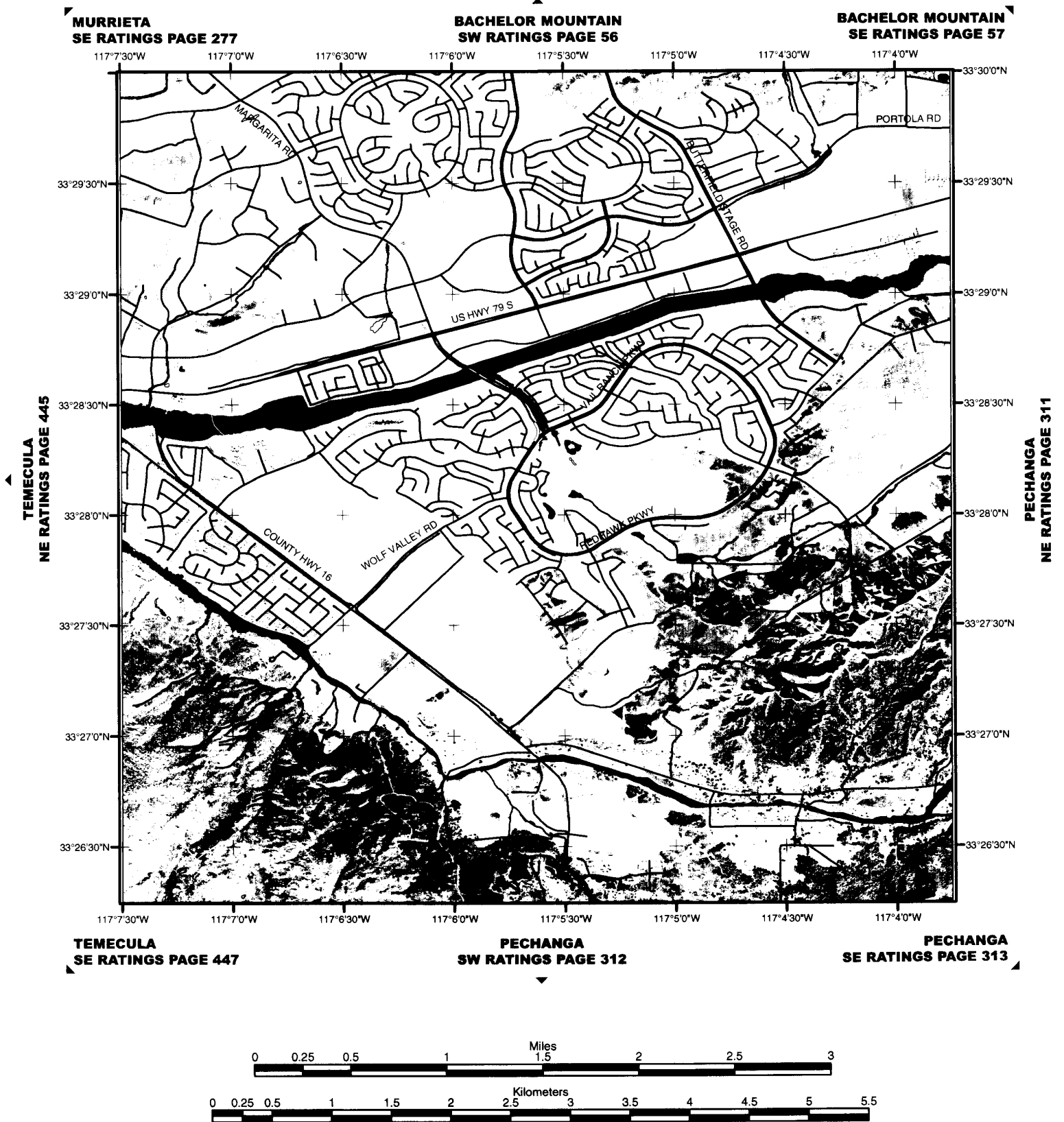
VAIL LAKE
QUAD RATINGS PAGE 459



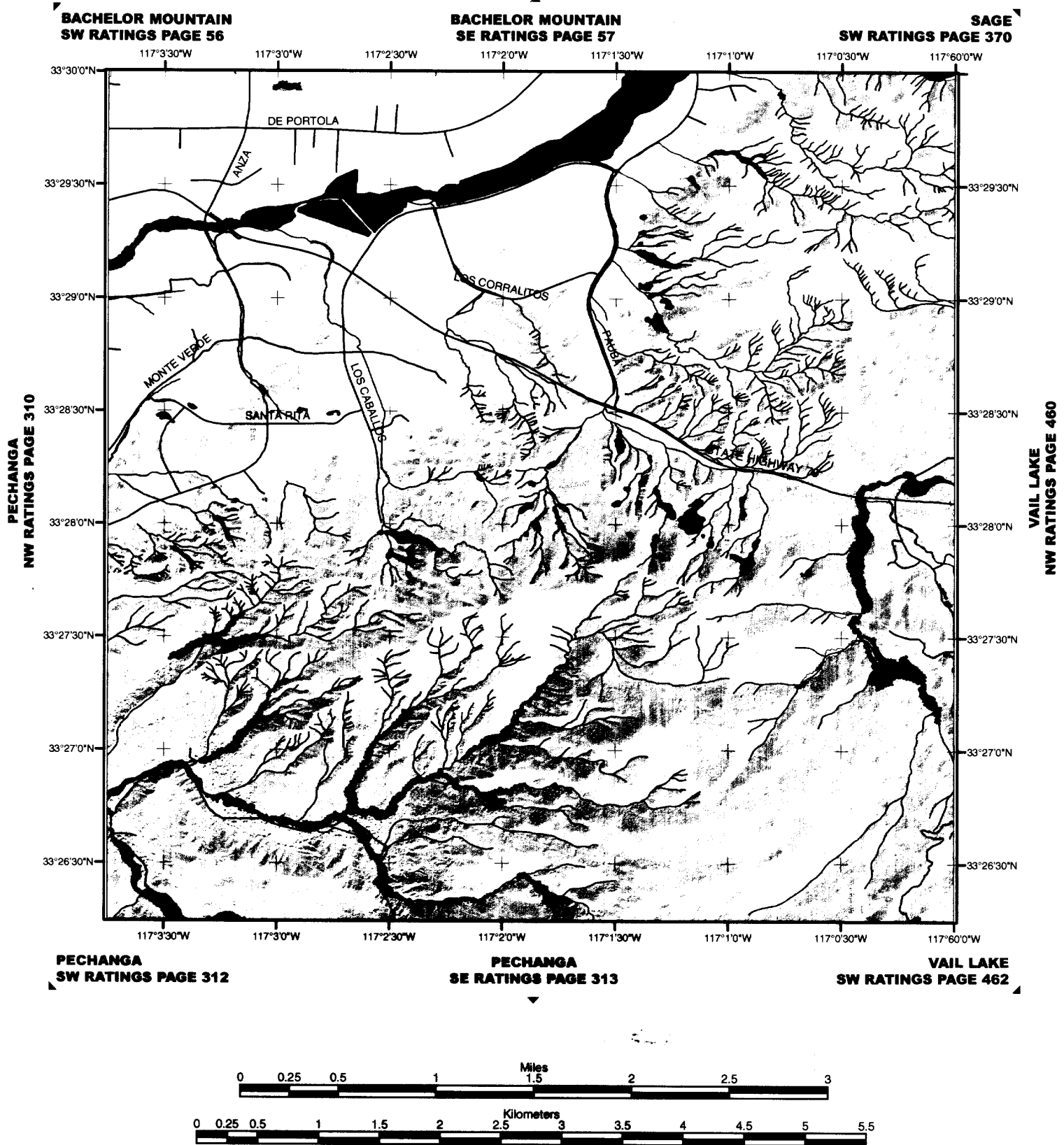
BOUCHER HILL
QUAD RATINGS PAGE 117



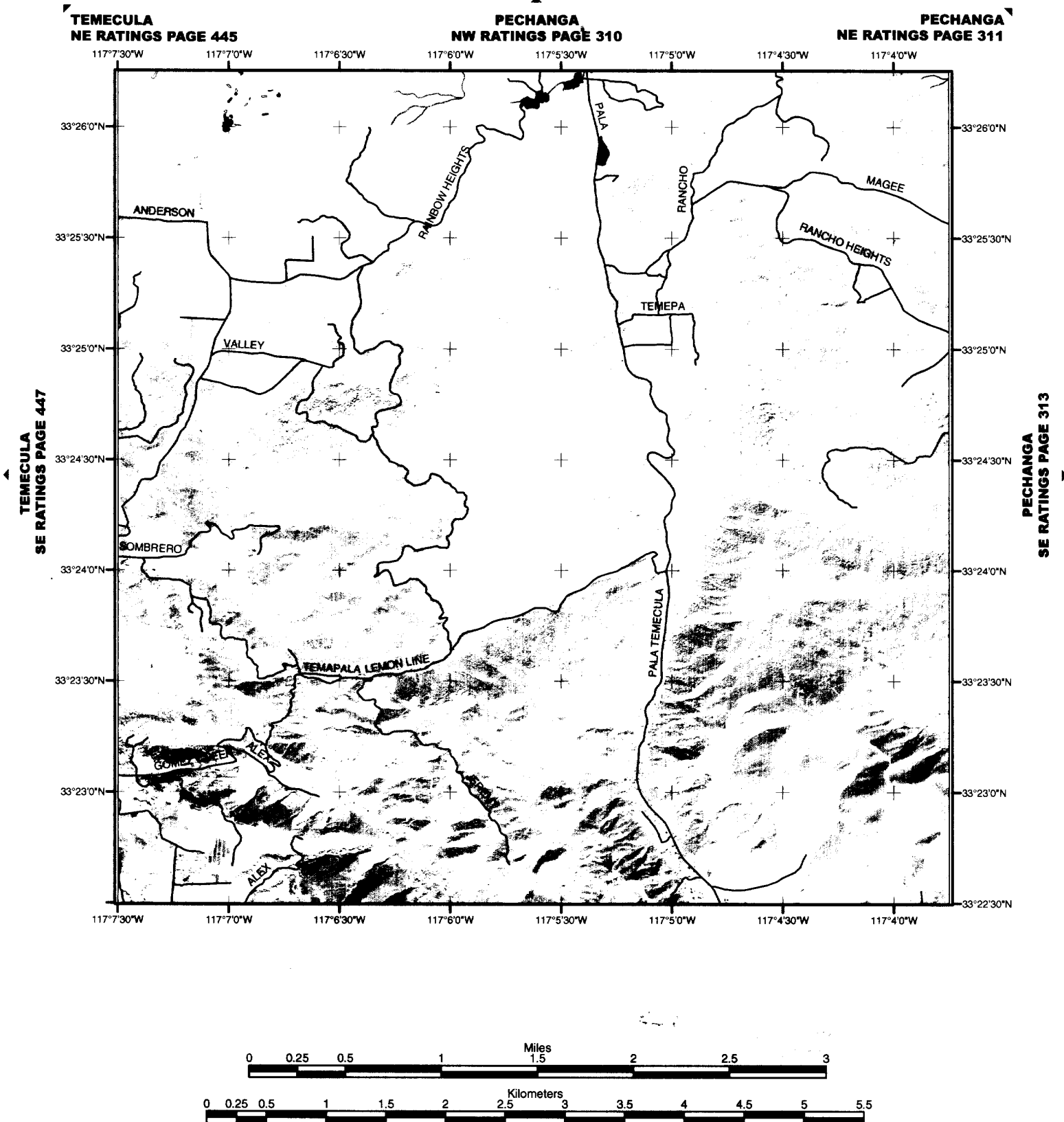
Pechanga North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



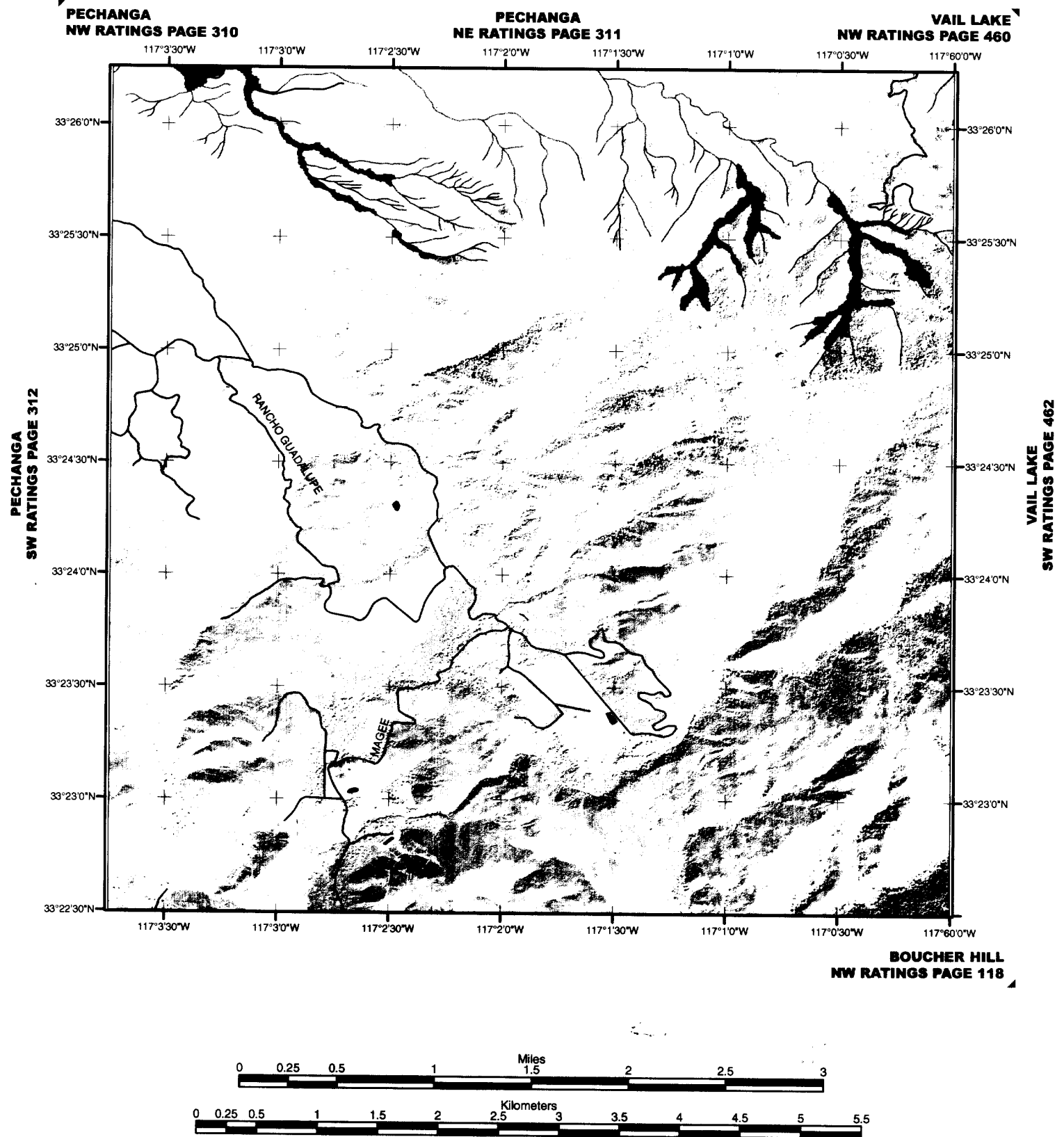
Pechanga North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



Pechanga South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

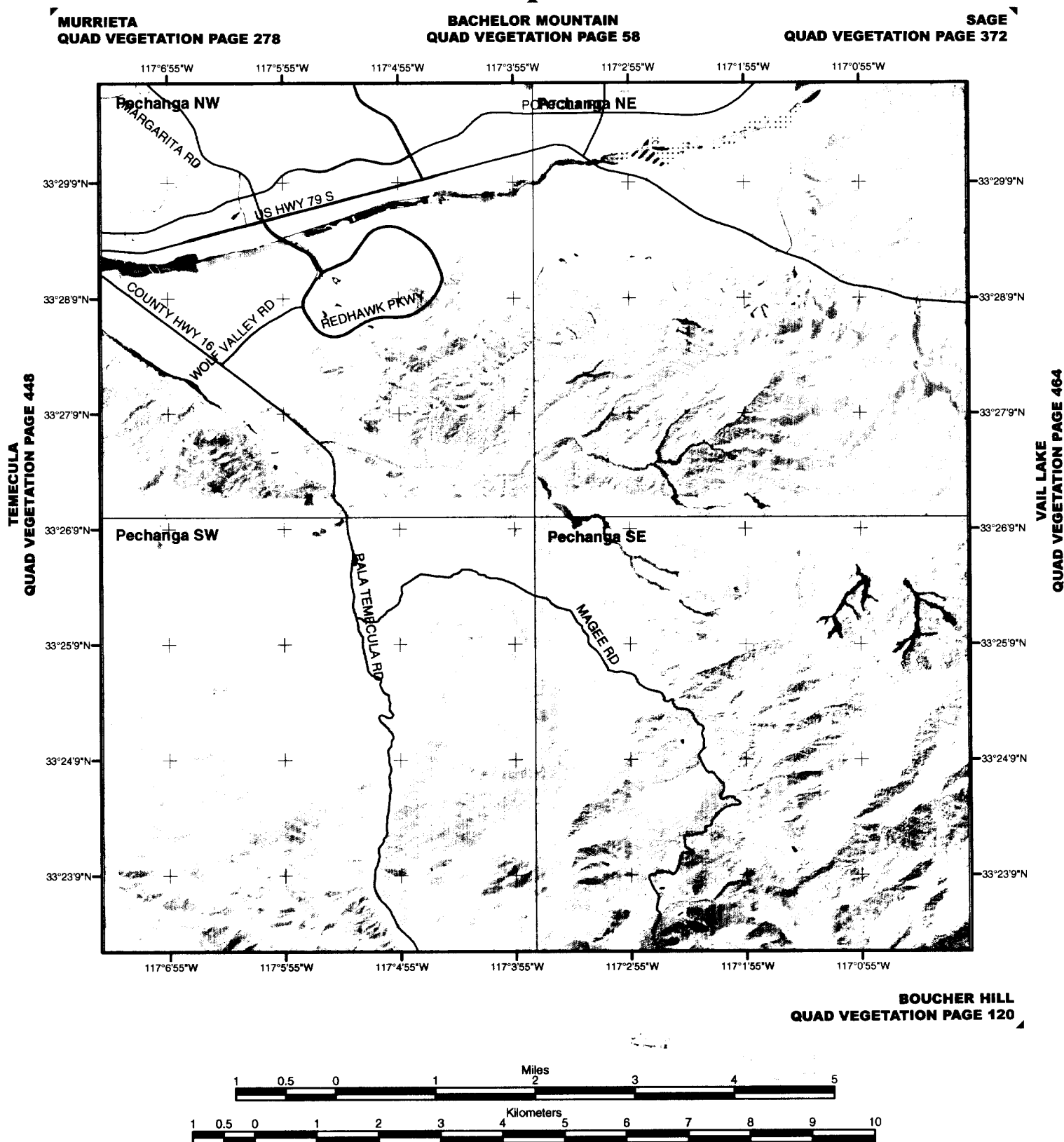


Pechanga South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

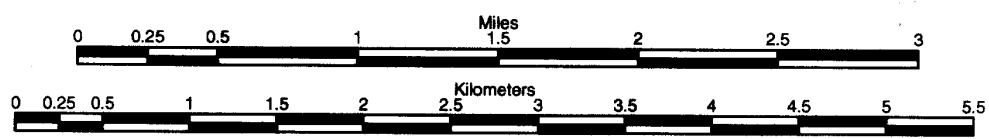
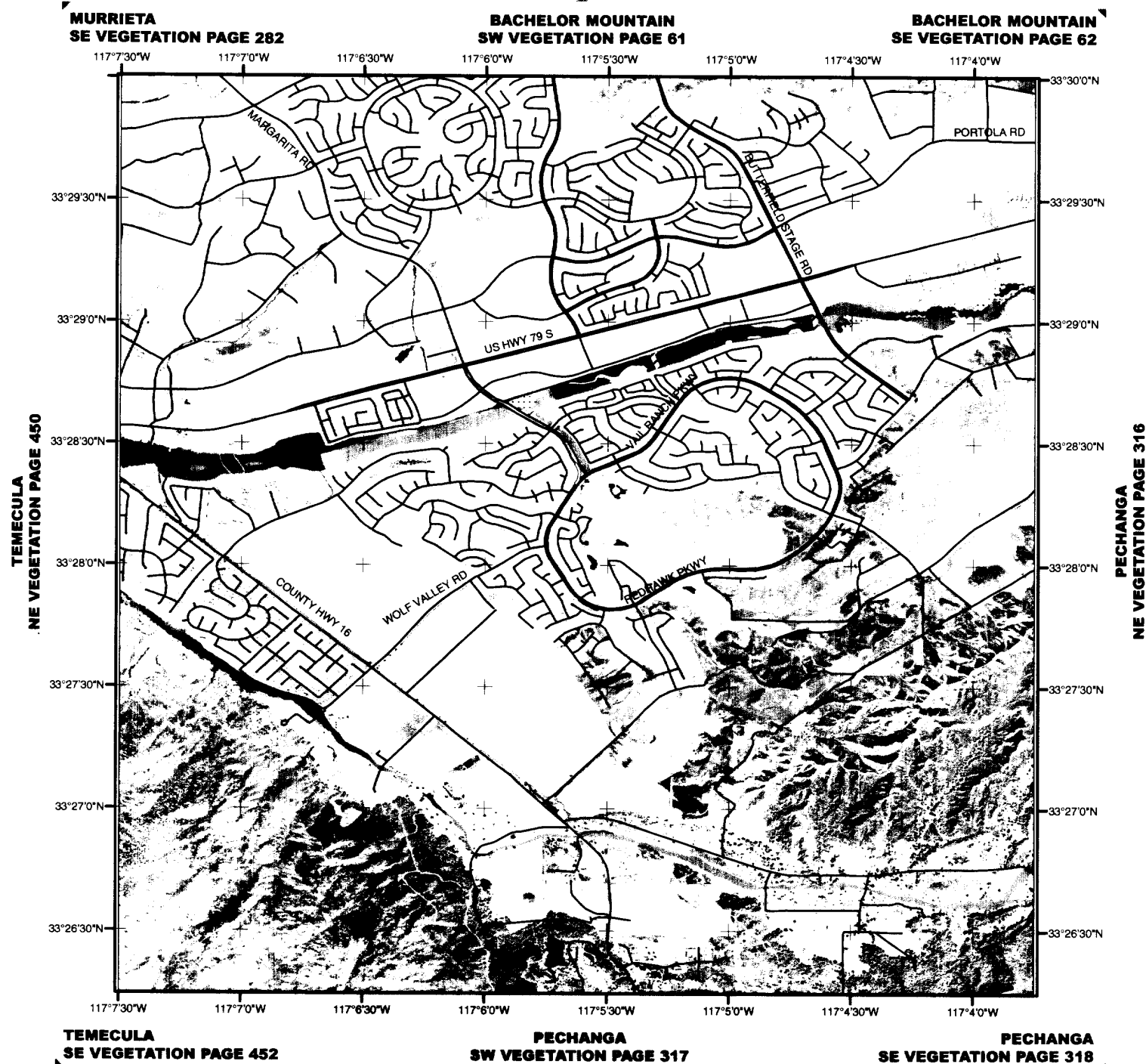


Pechanga Quadrangle

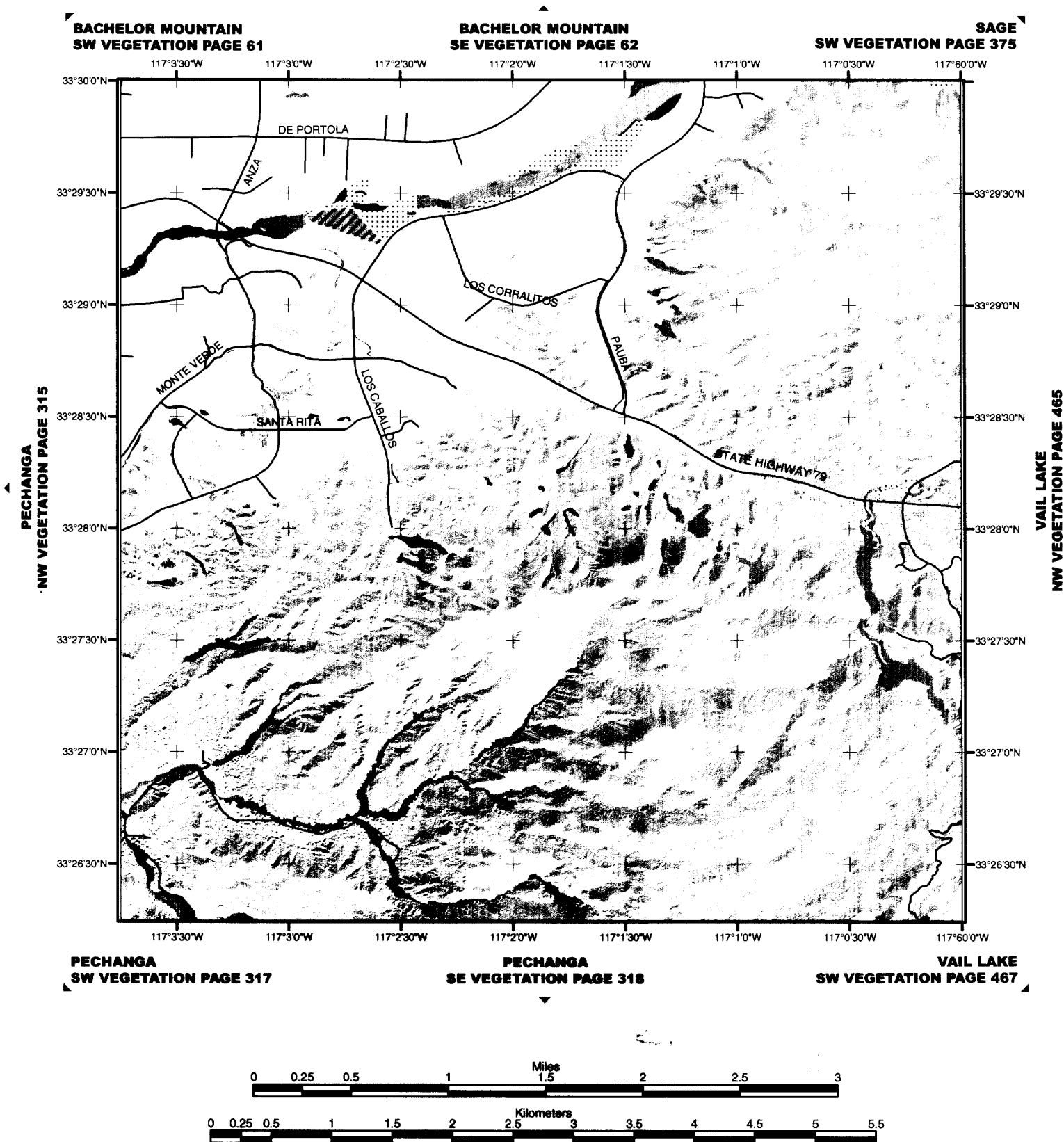
Vegetation Species Association Units for Aquatic Resources



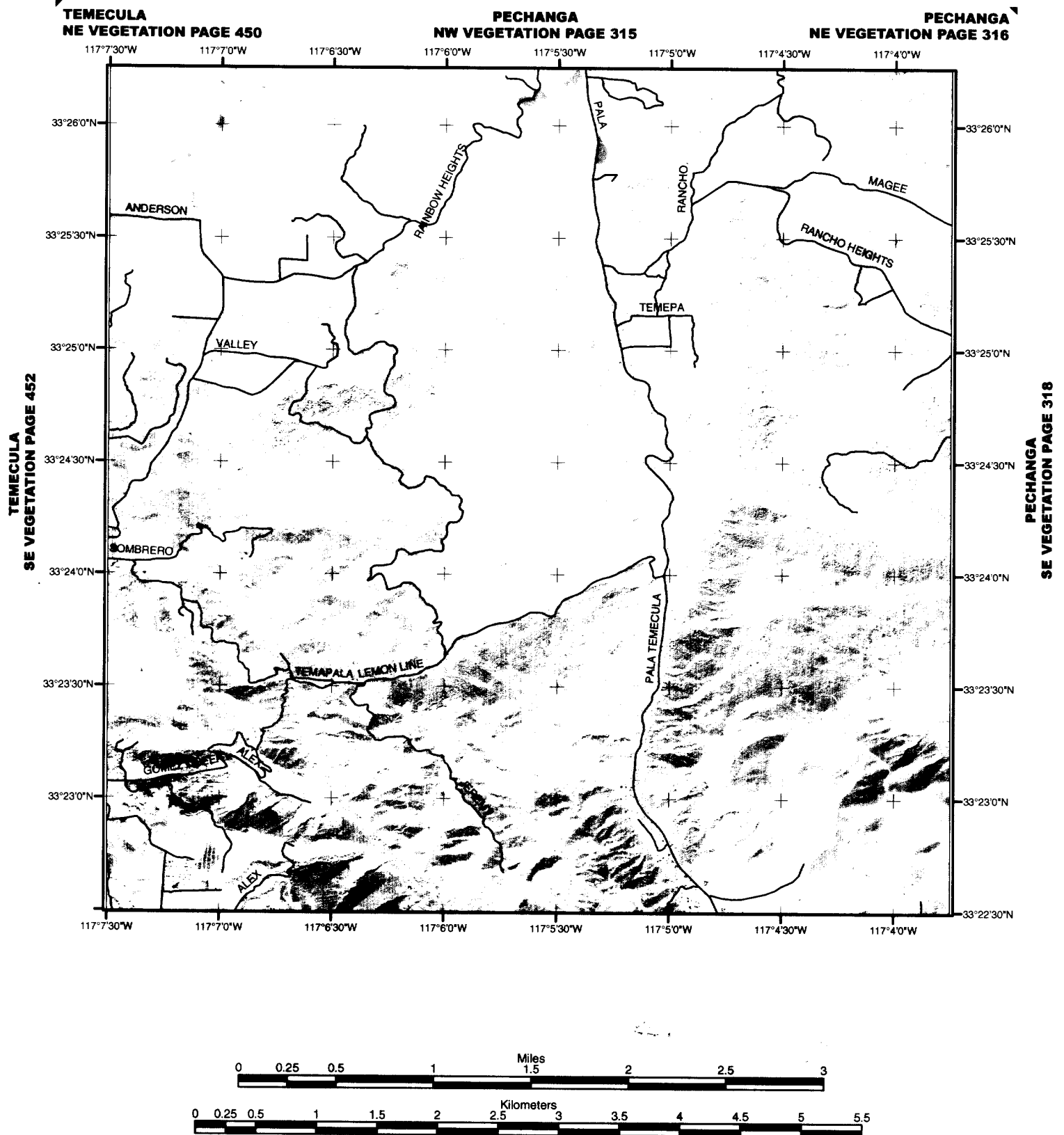
Pechanga North West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



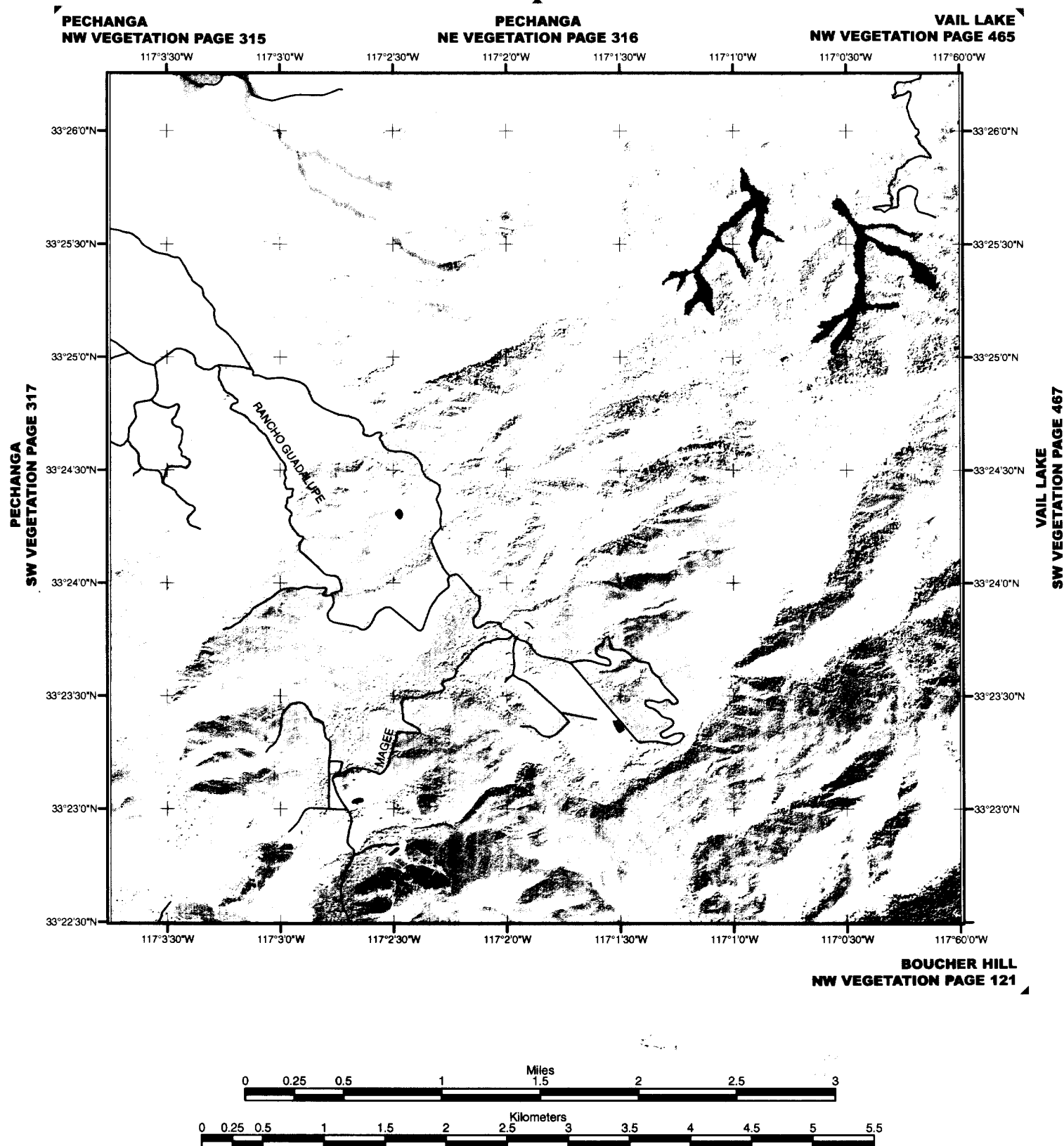
Pechanga North East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



Pechanga South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

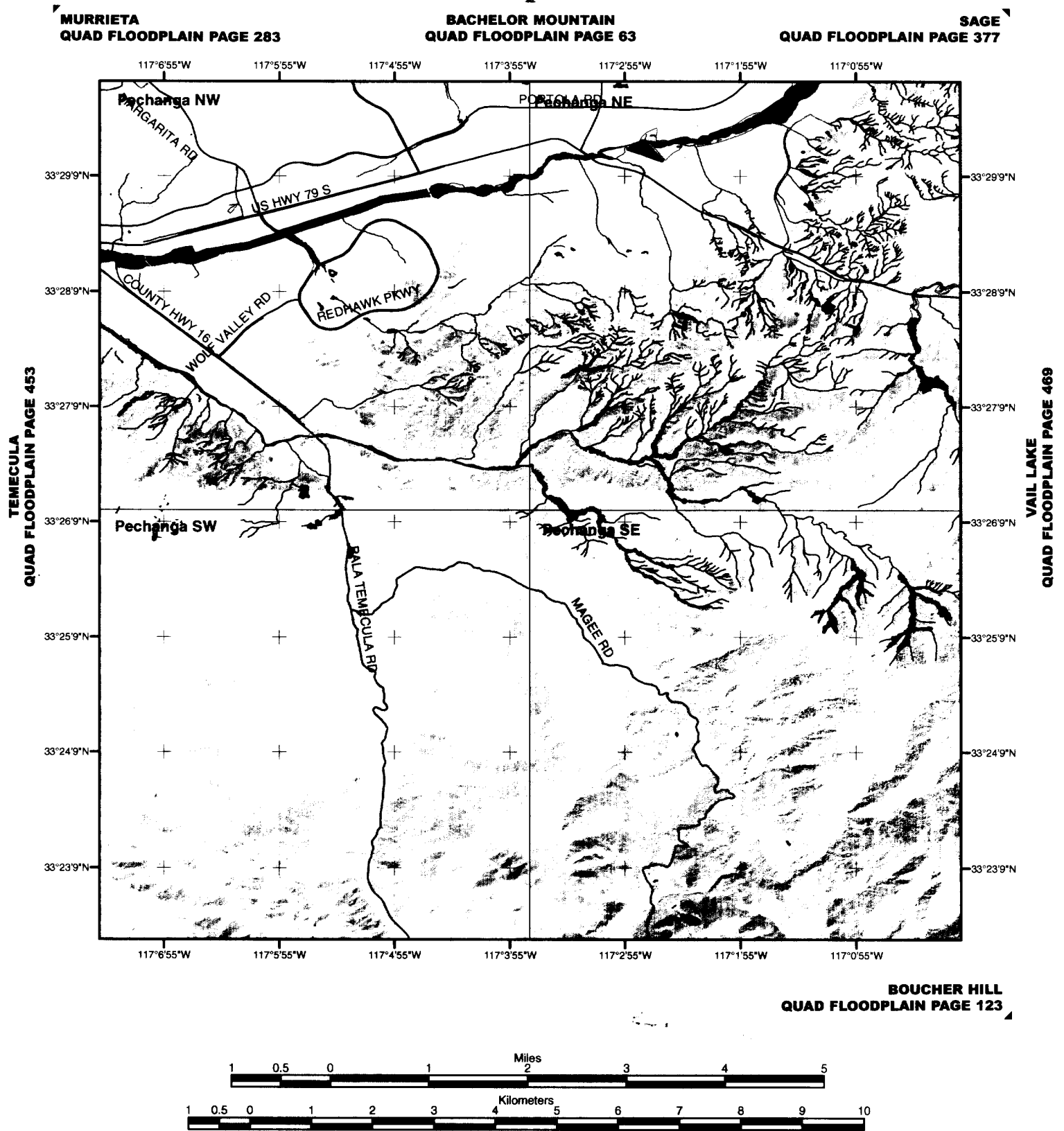


Pechanga South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

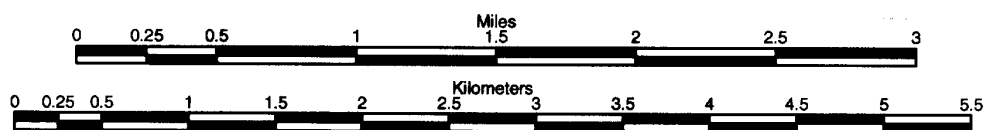
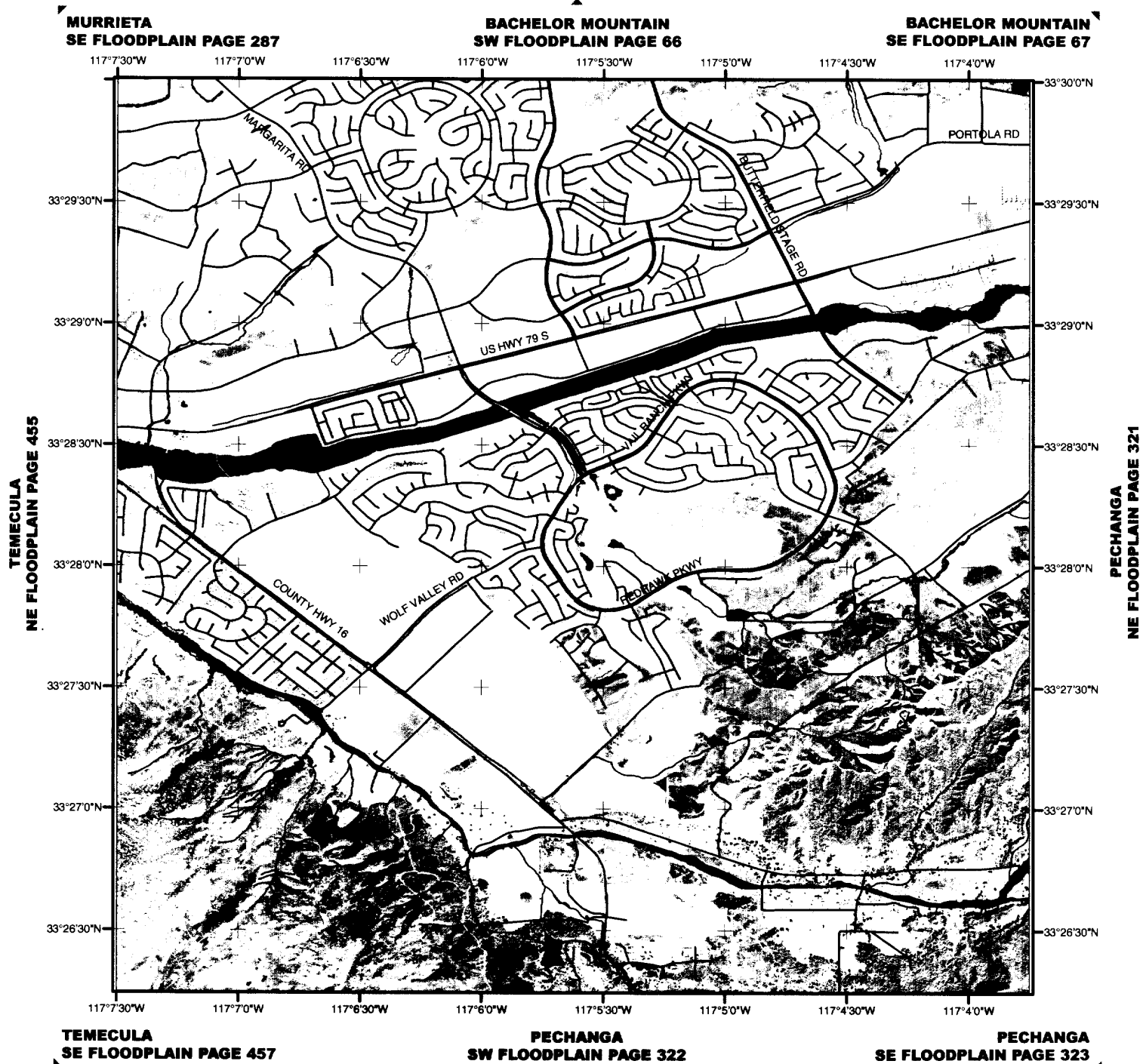


Pechanga Quadrangle

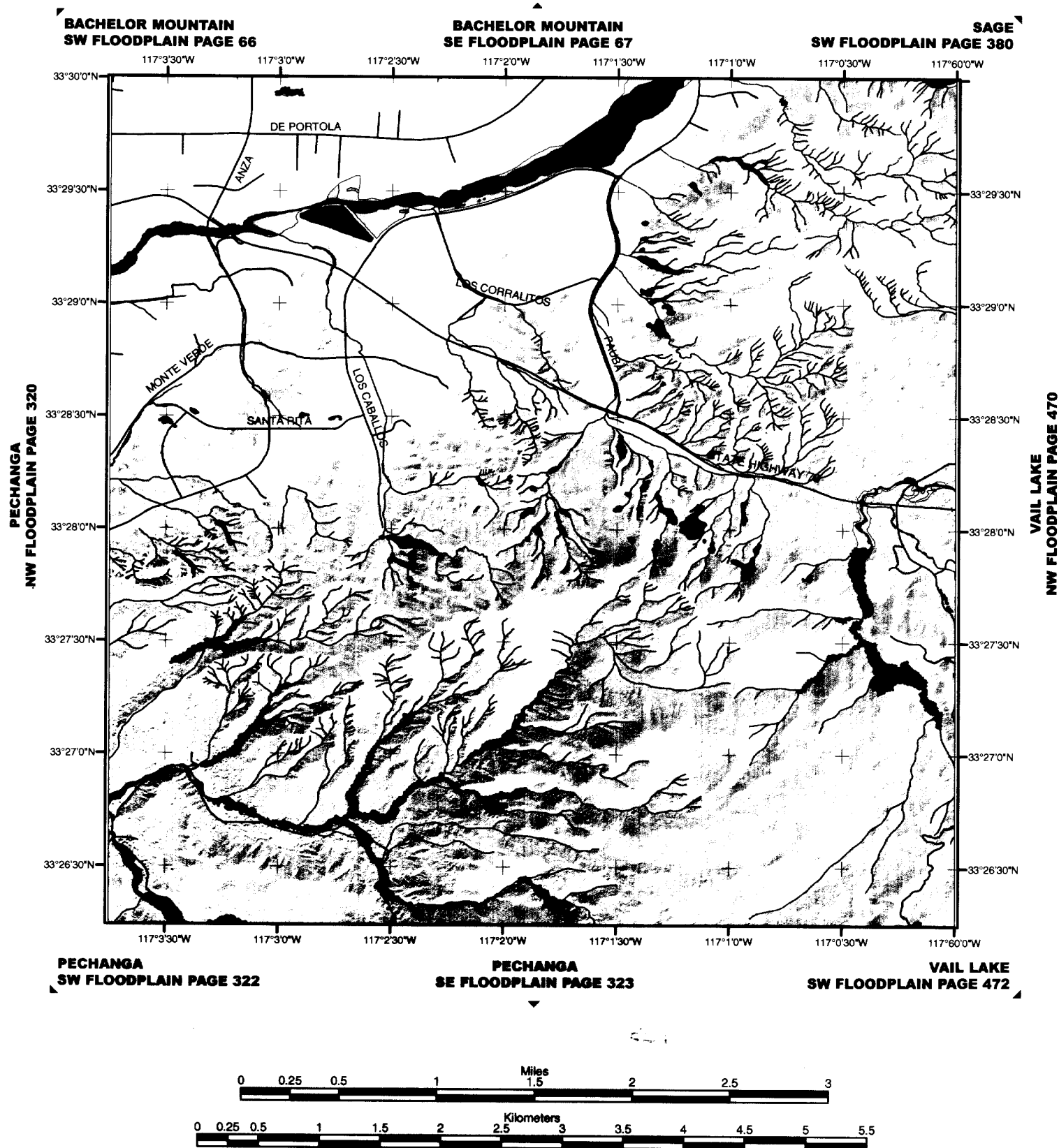
Hydrogeomorphic Floodplain Units for Aquatic Resources



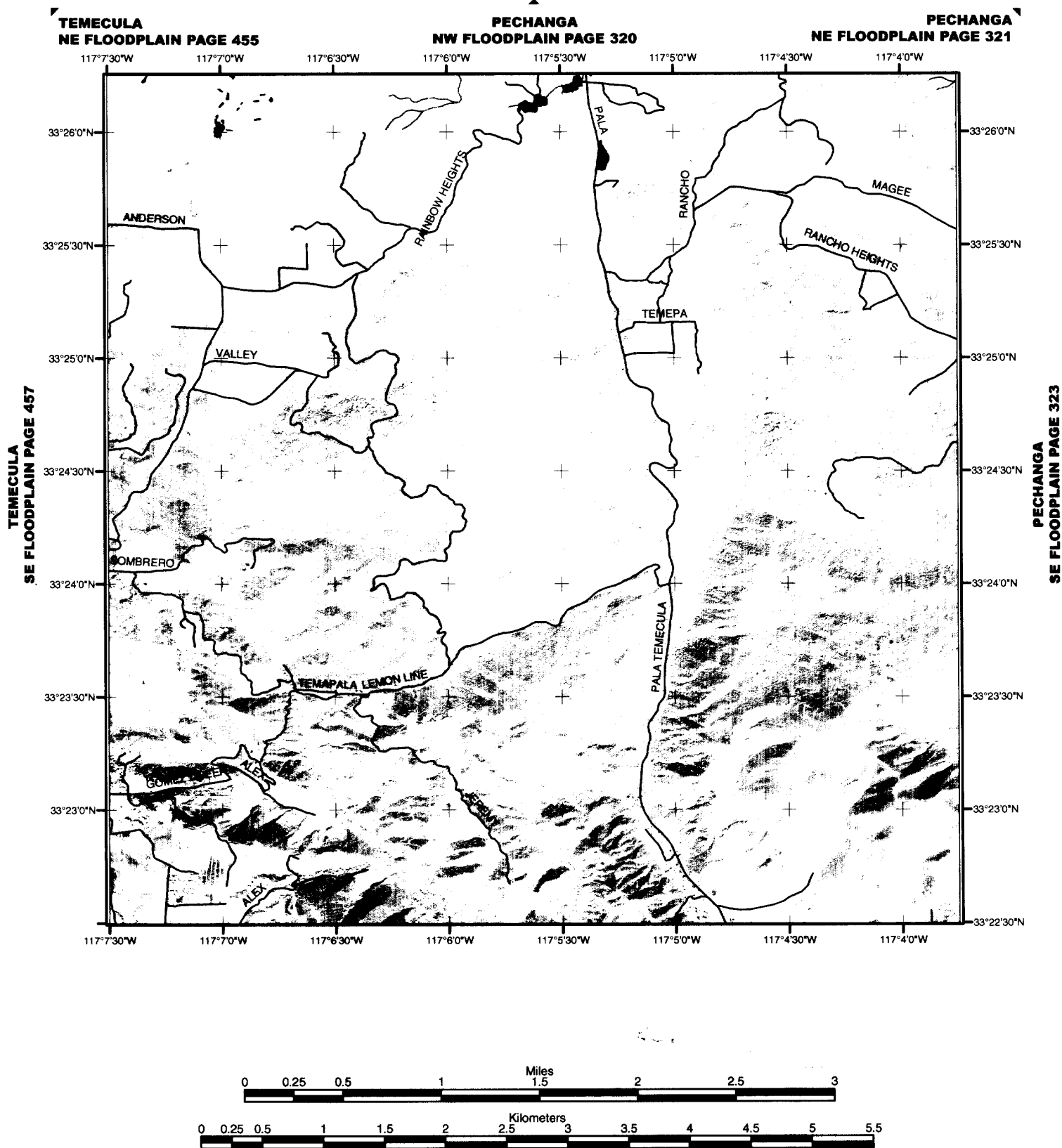
Pechanga North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



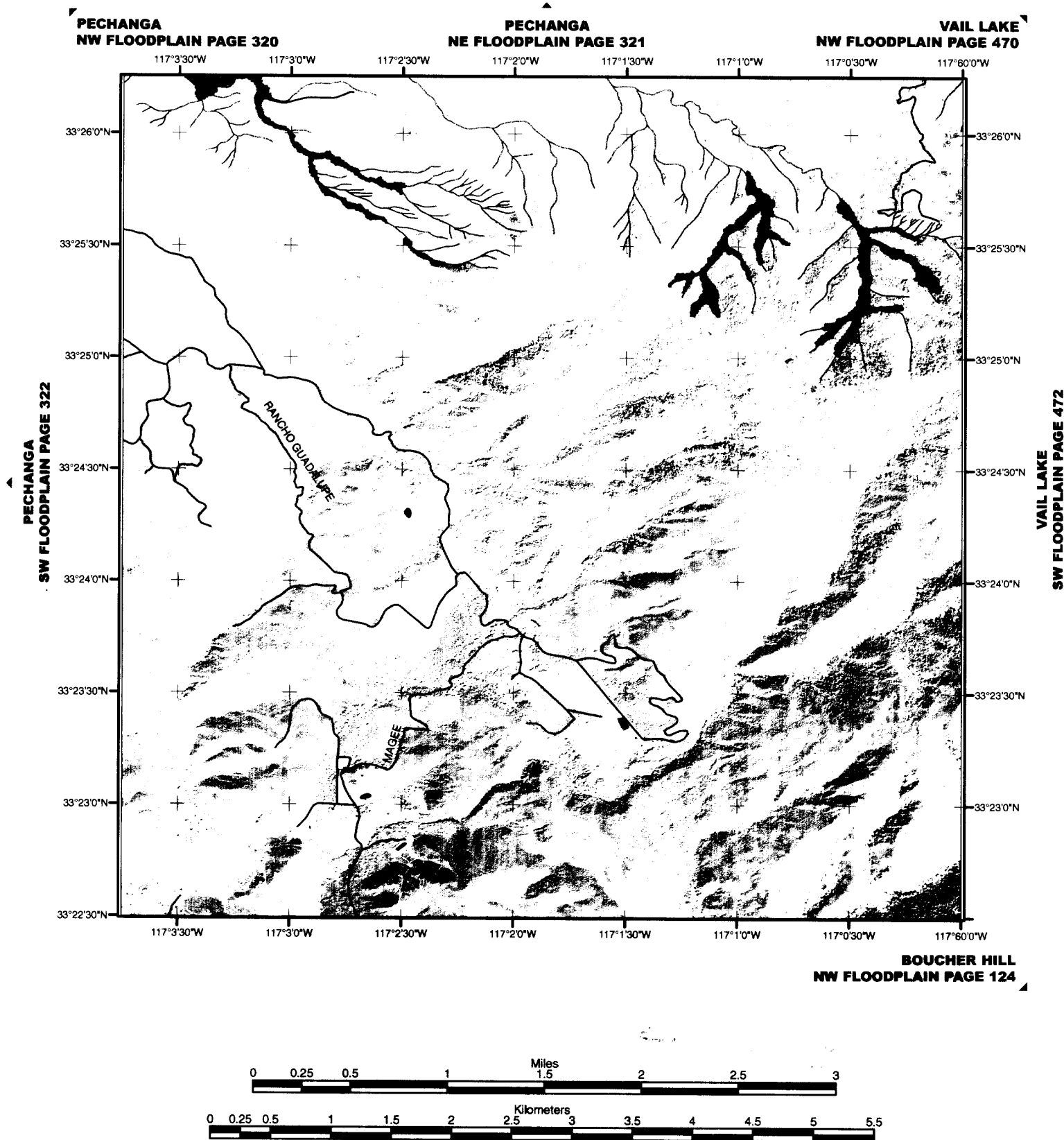
Pechanga North East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



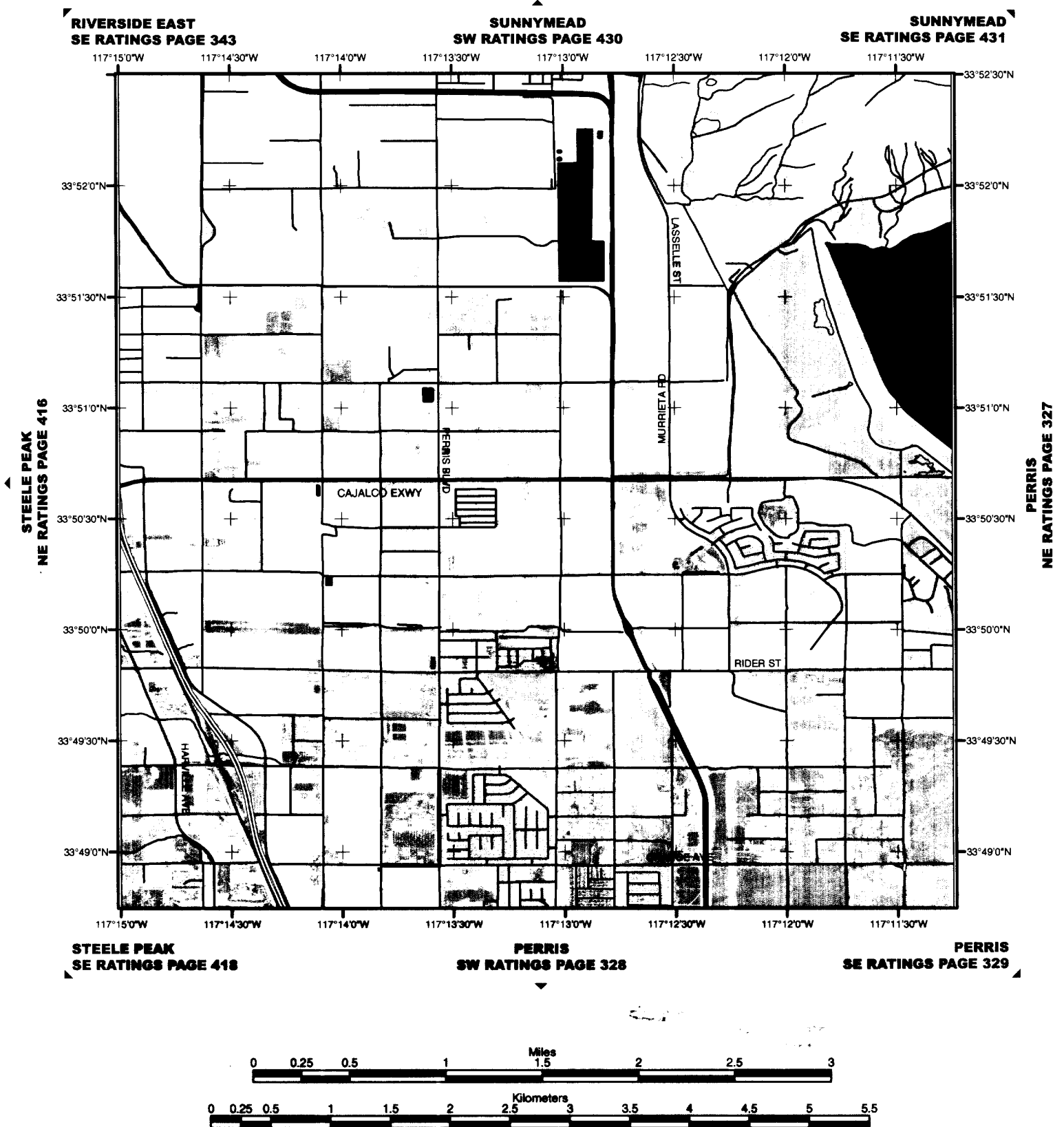
Pechanga South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



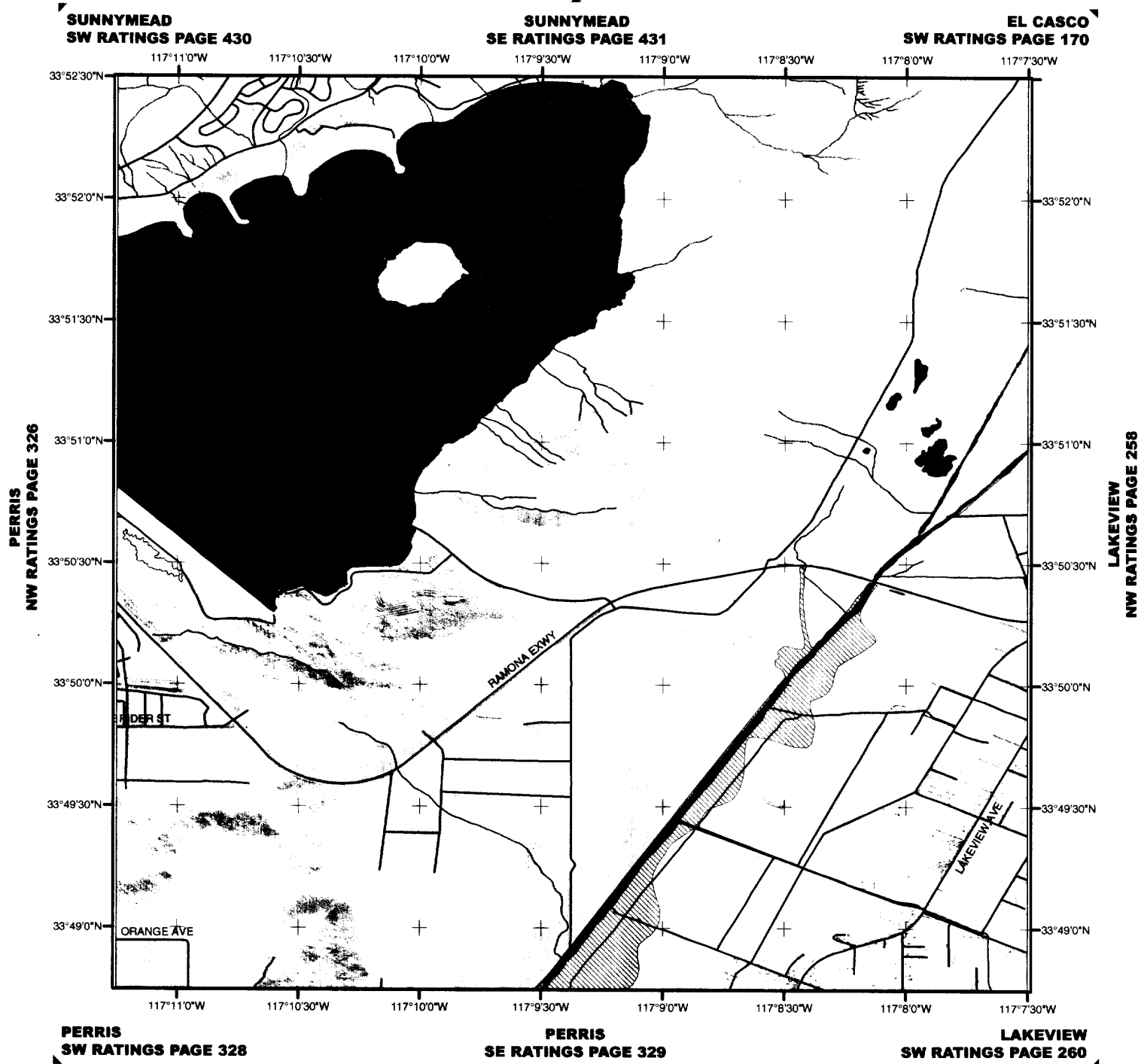
Pechanga South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



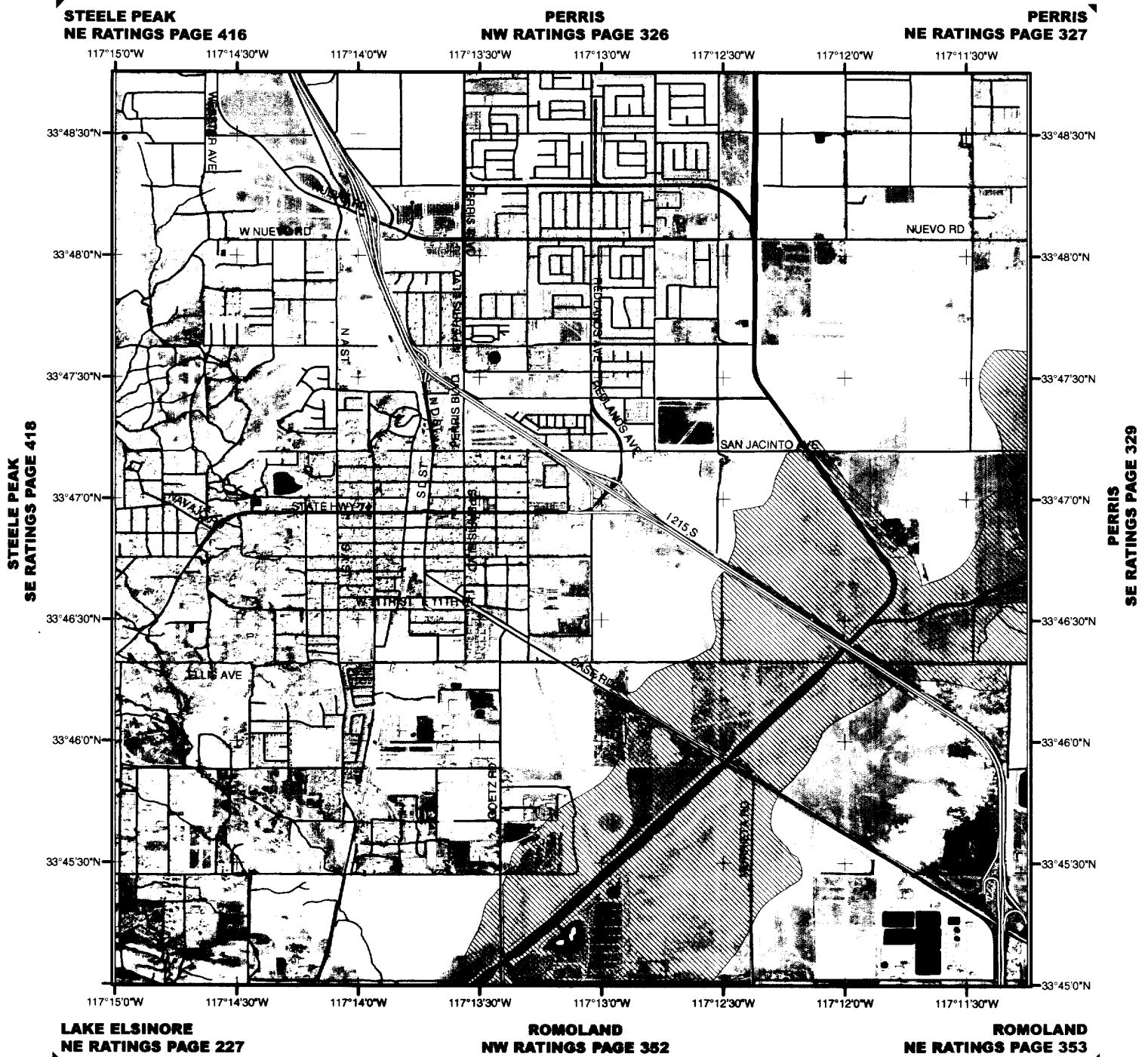
Perris North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



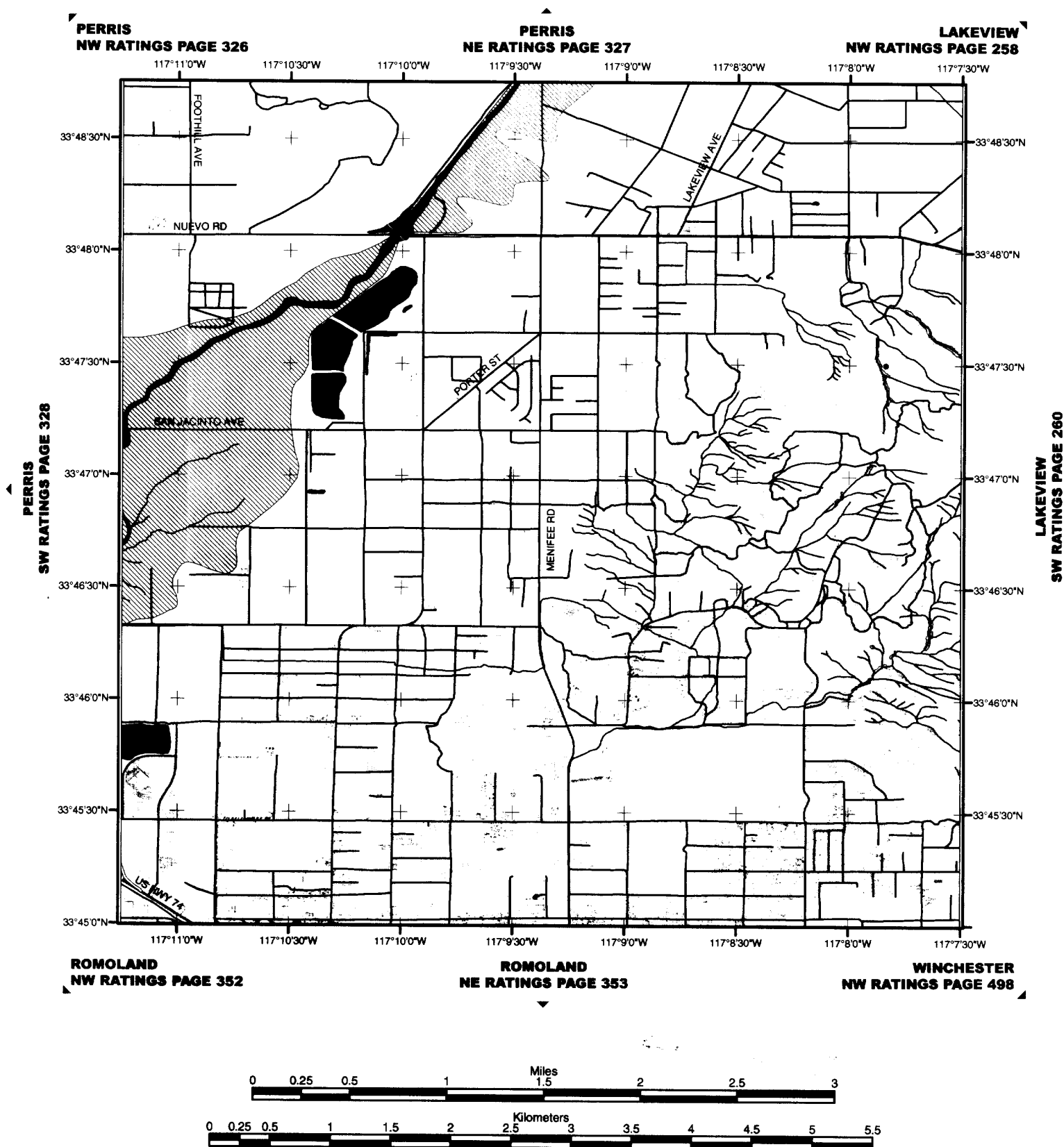
Perris North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



Perris South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

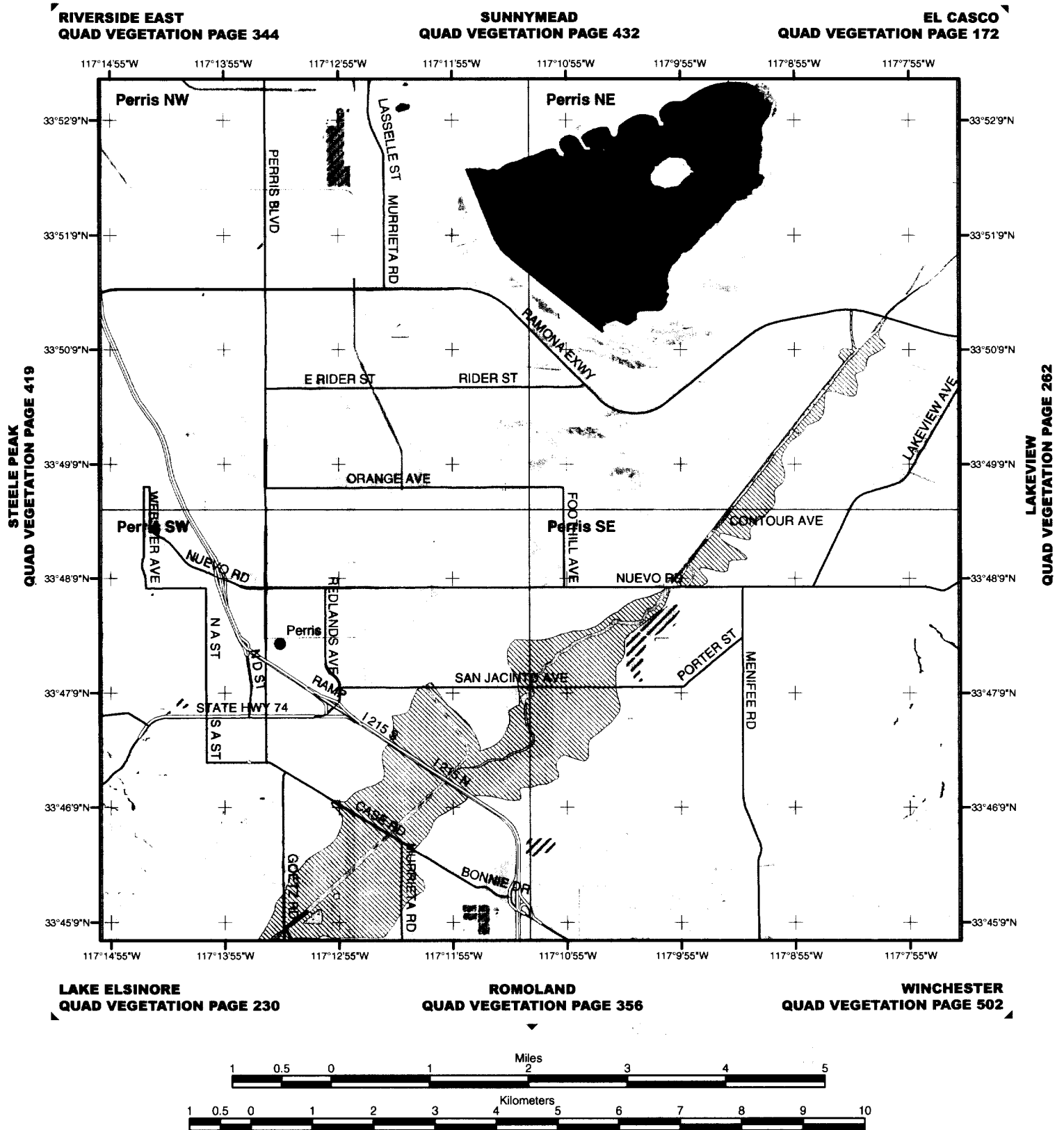


Perris South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

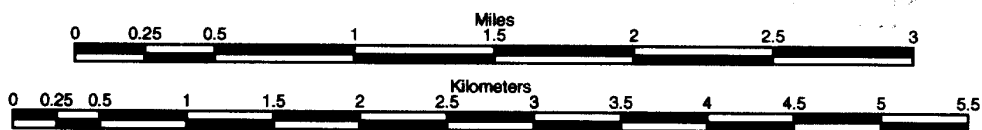
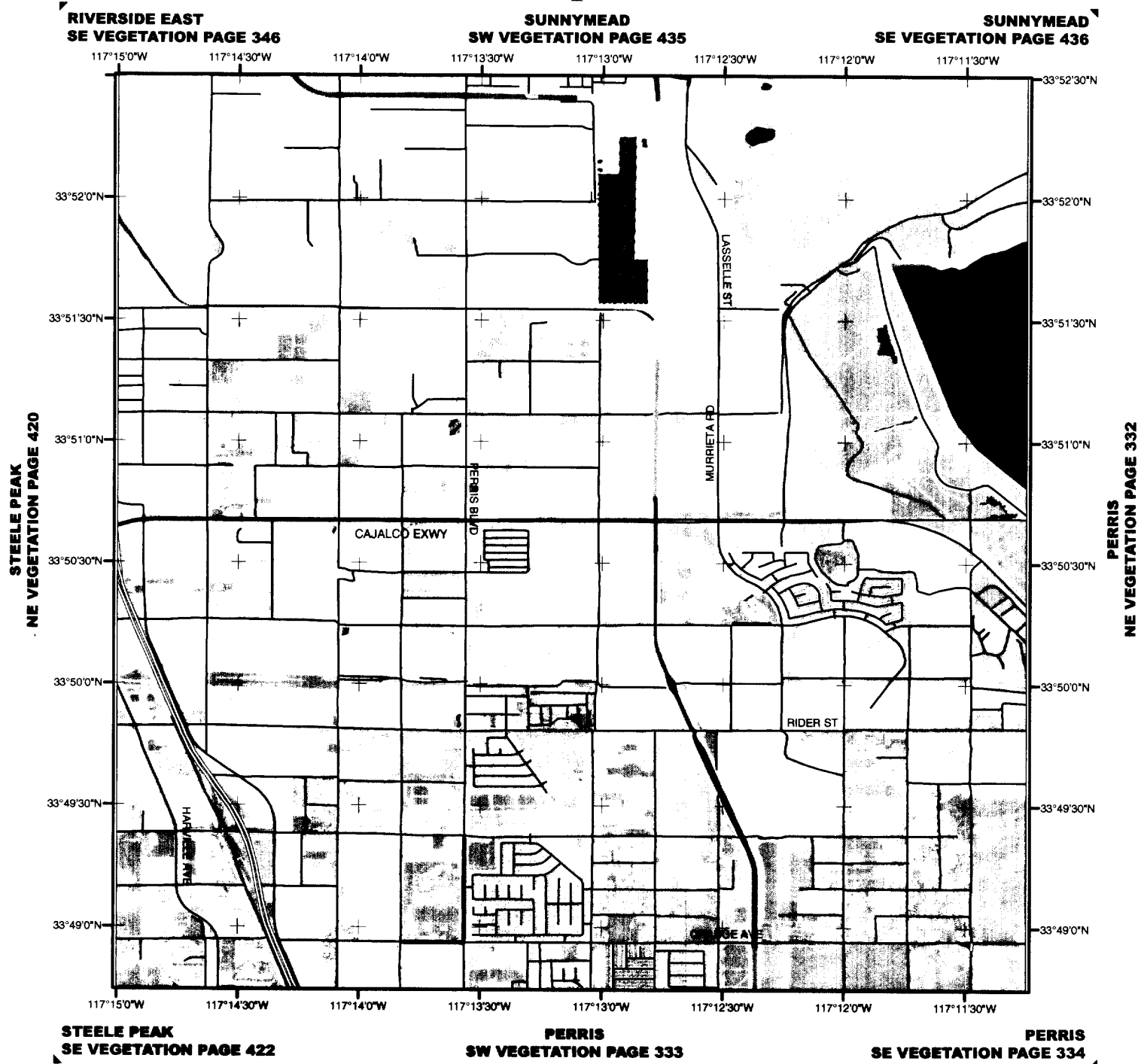


Perris Quadrangle

Vegetation Species Association Units for Aquatic Resources

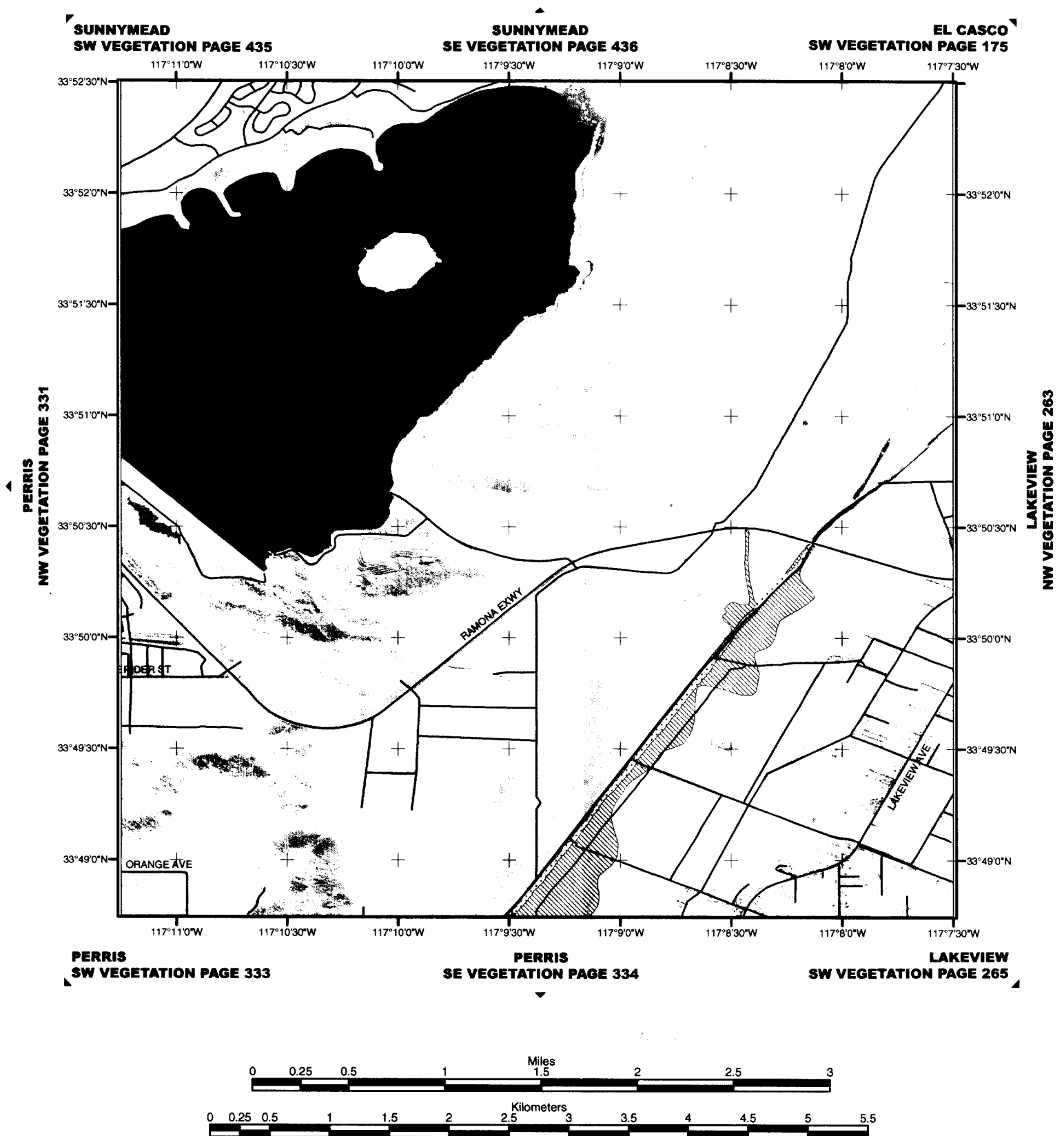


Perris North West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

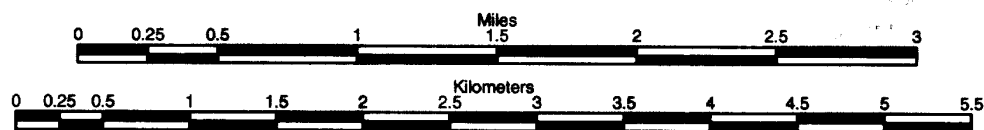
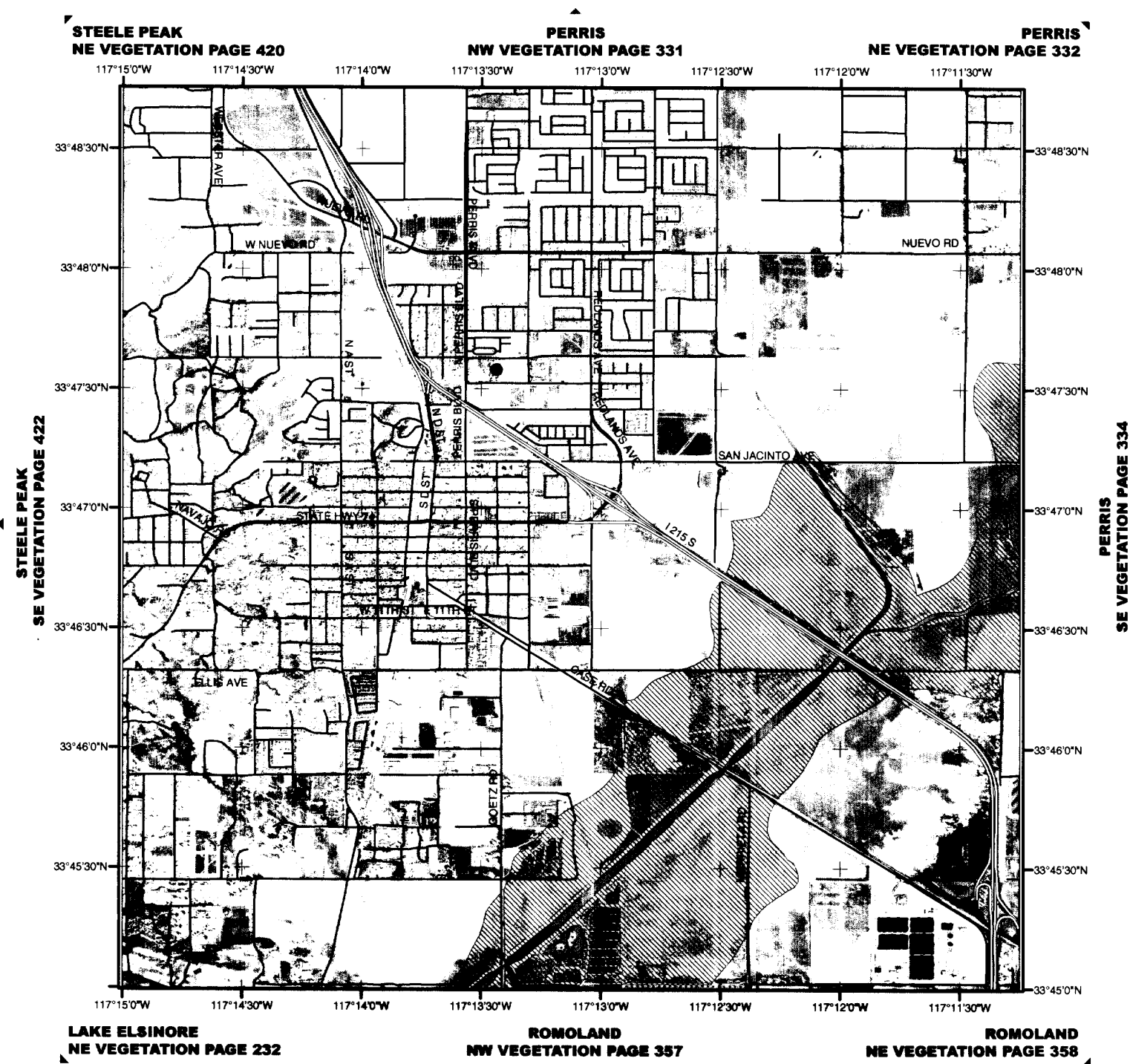


Perris North East Quarter-Quadrangle

Vegetation Species Association Units for Aquatic Resources

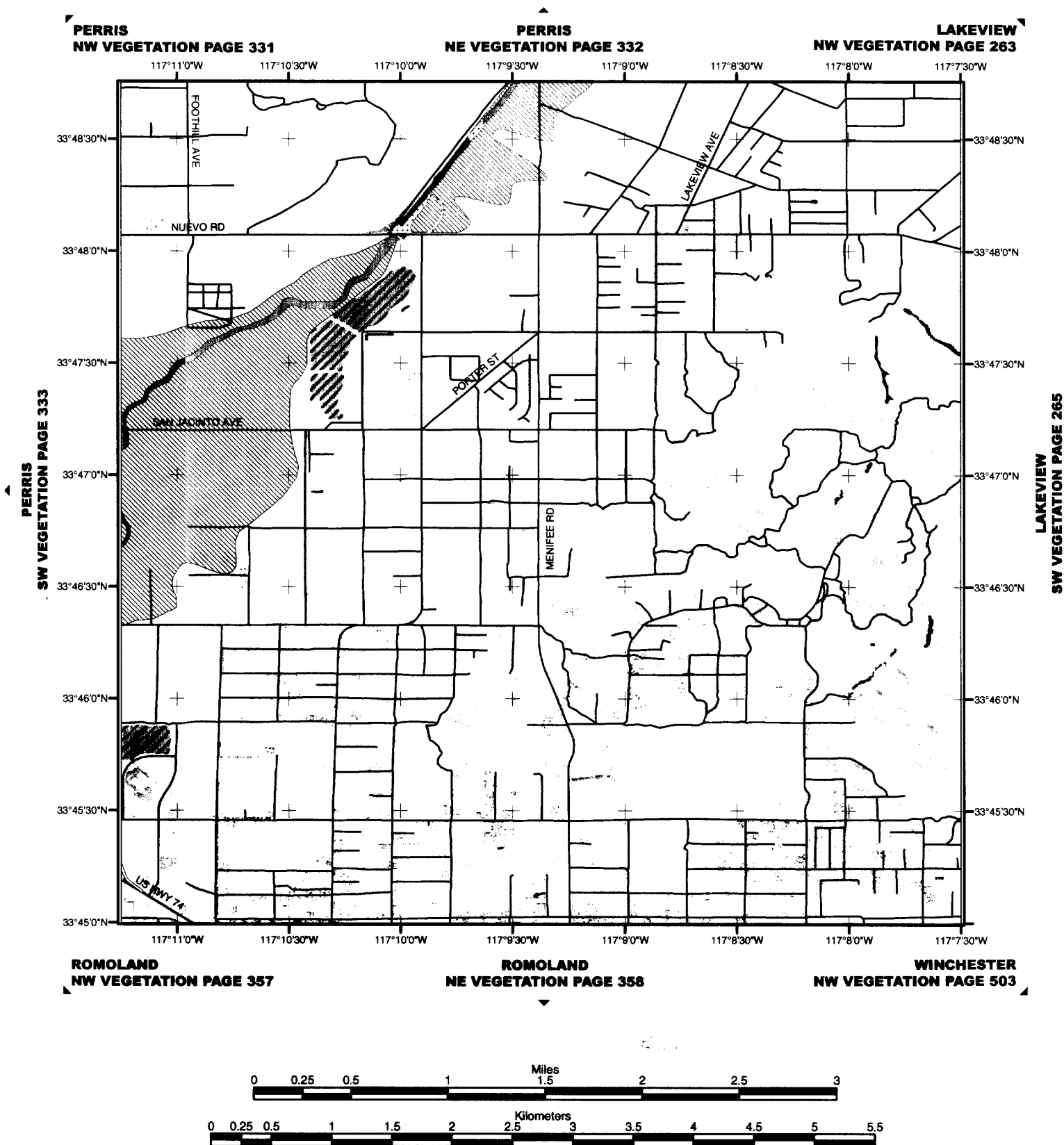


Perris South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



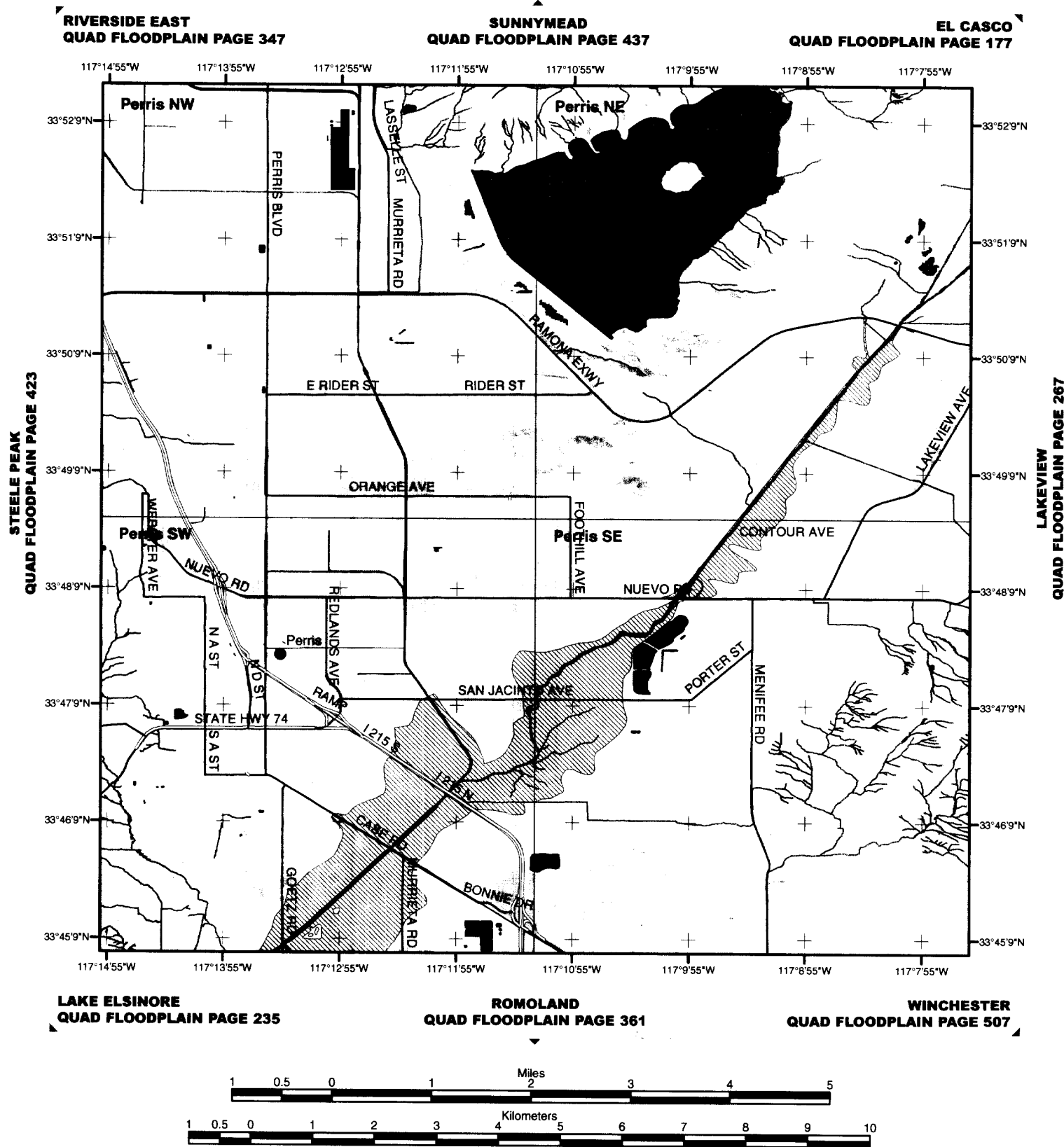
Perris South East Quarter-Quadrangle

Vegetation Species Association Units for Aquatic Resources

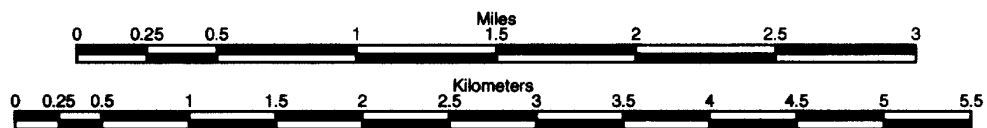
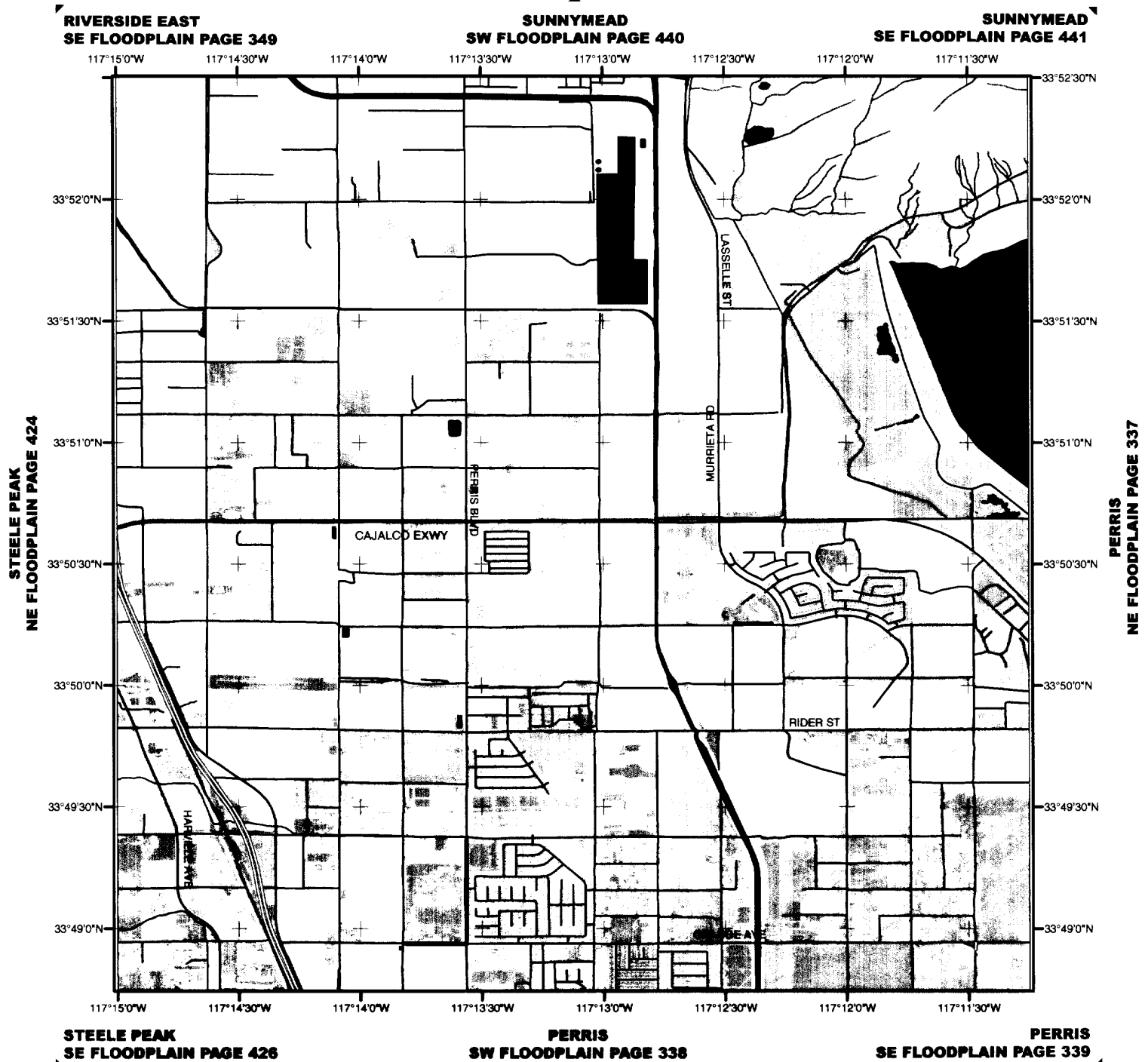


Perris Quadrangle

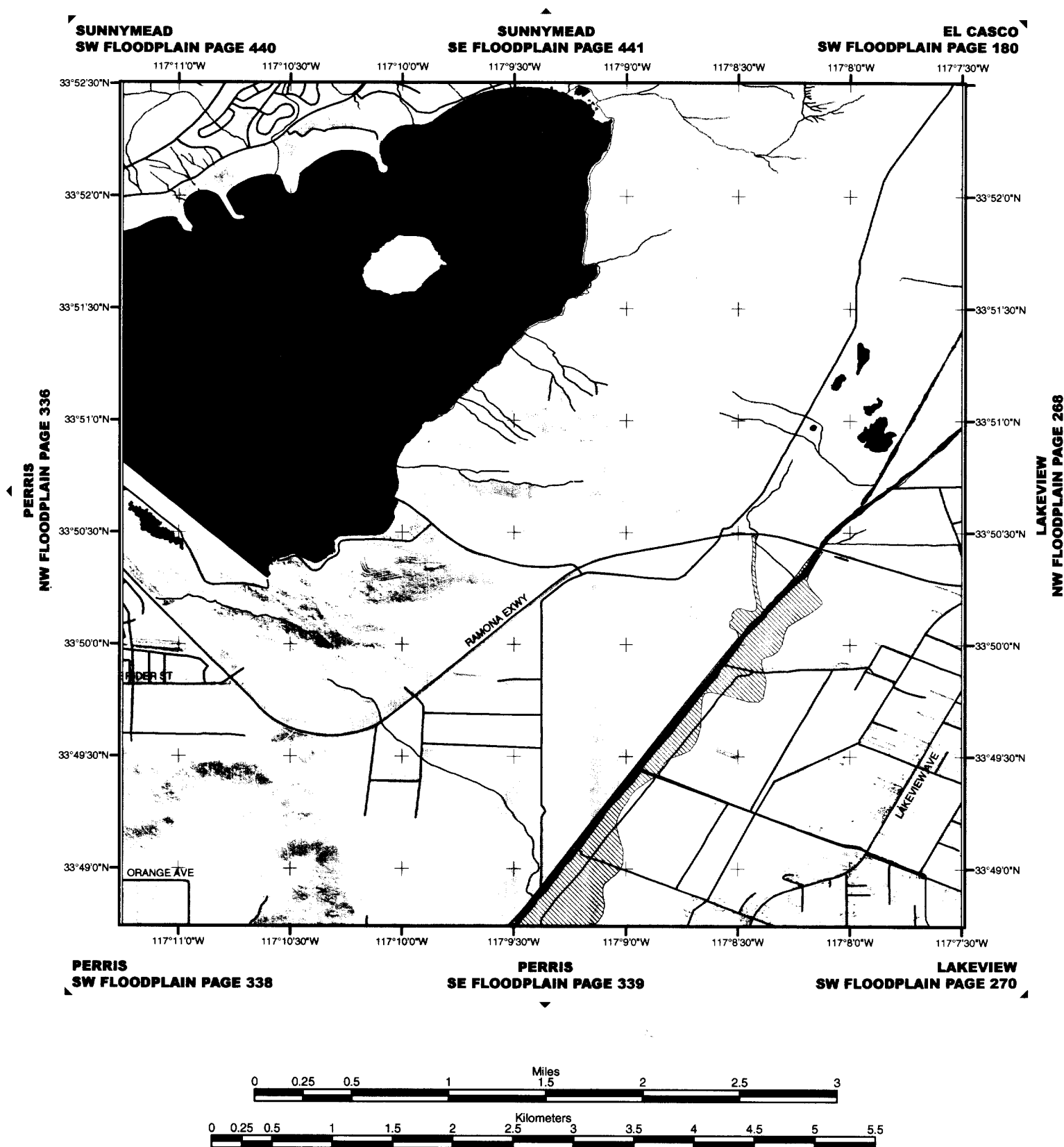
Hydrogeomorphic Floodplain Units for Aquatic Resources



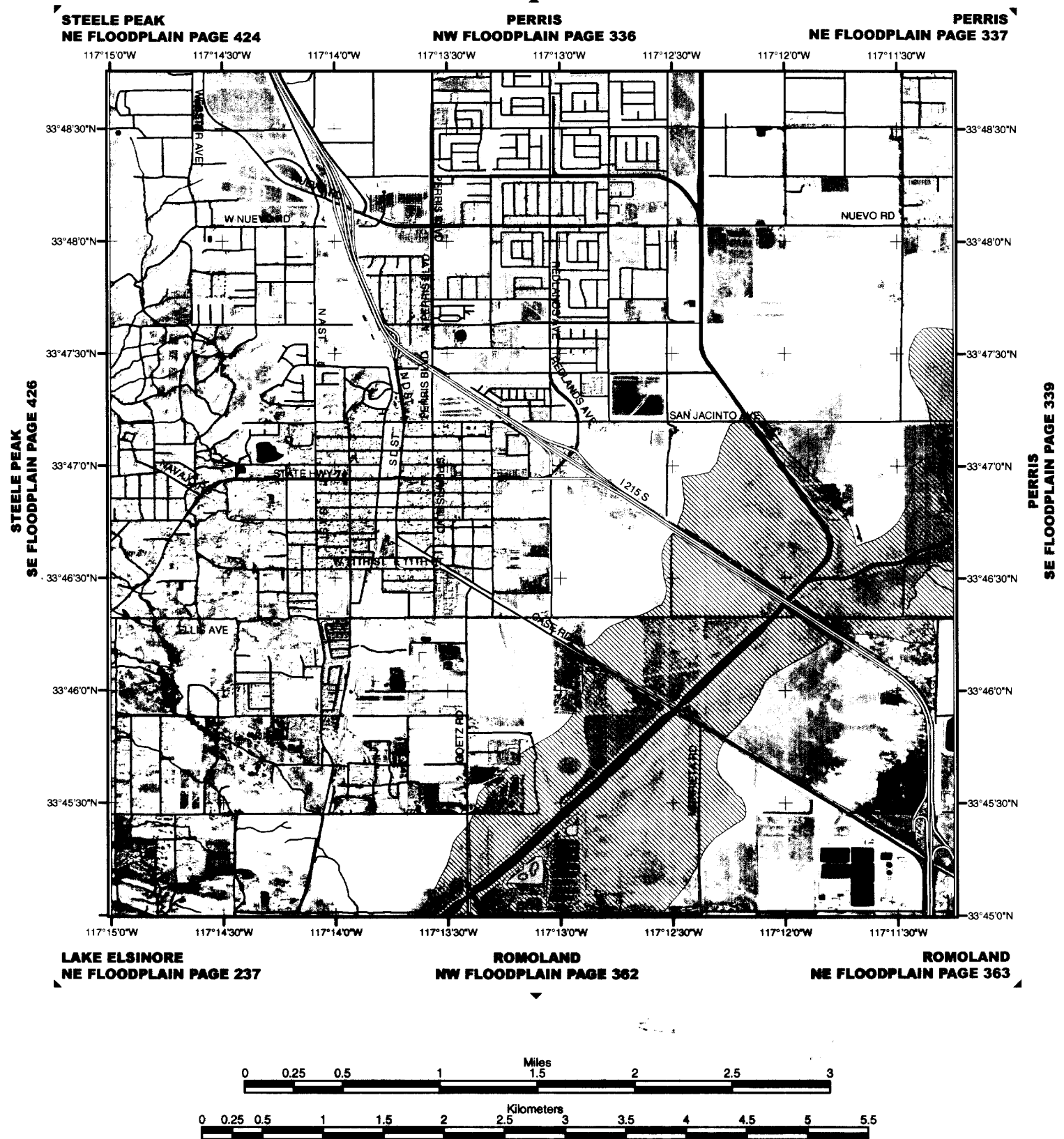
Perris North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



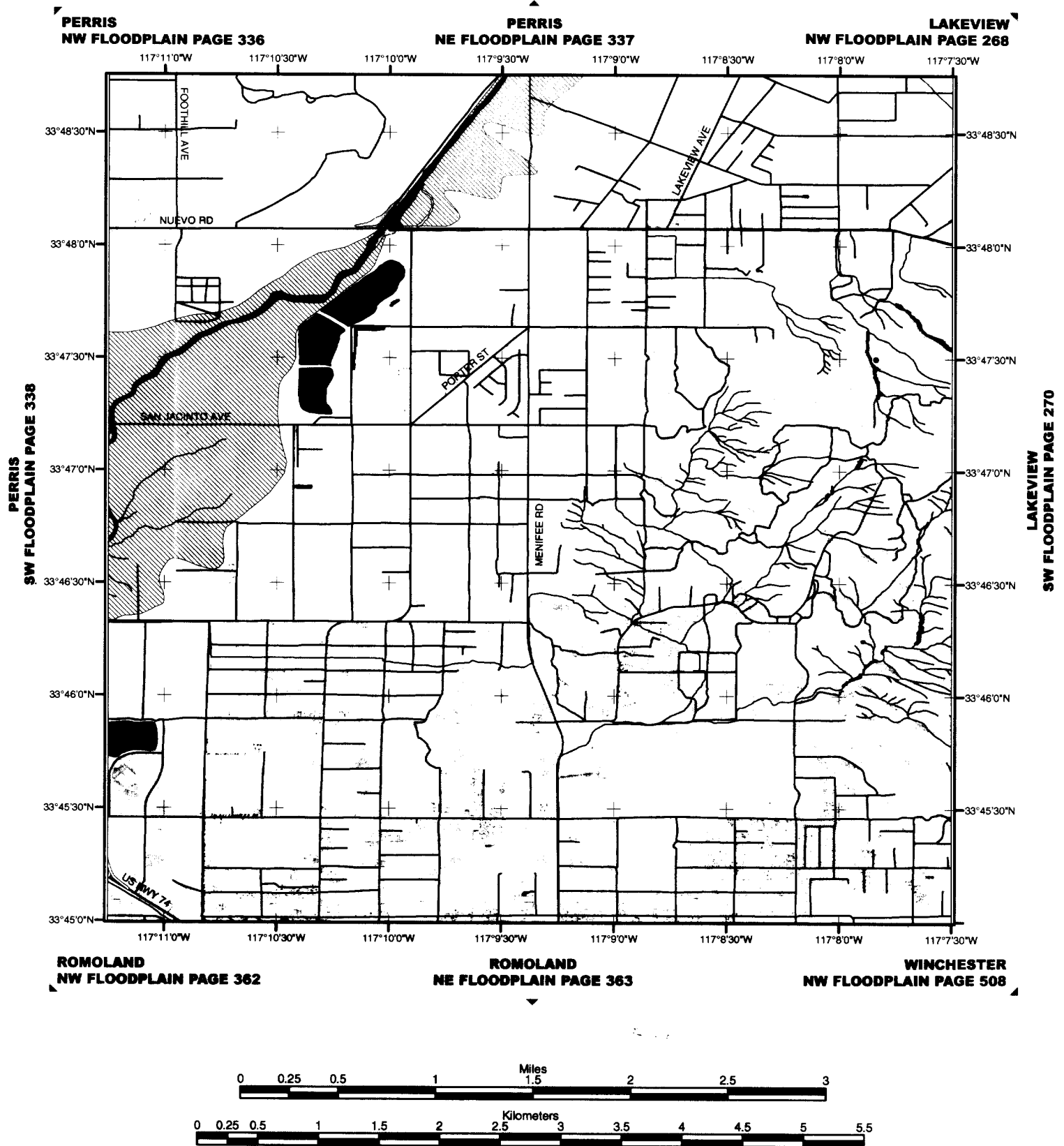
Perris North East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



Perris South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

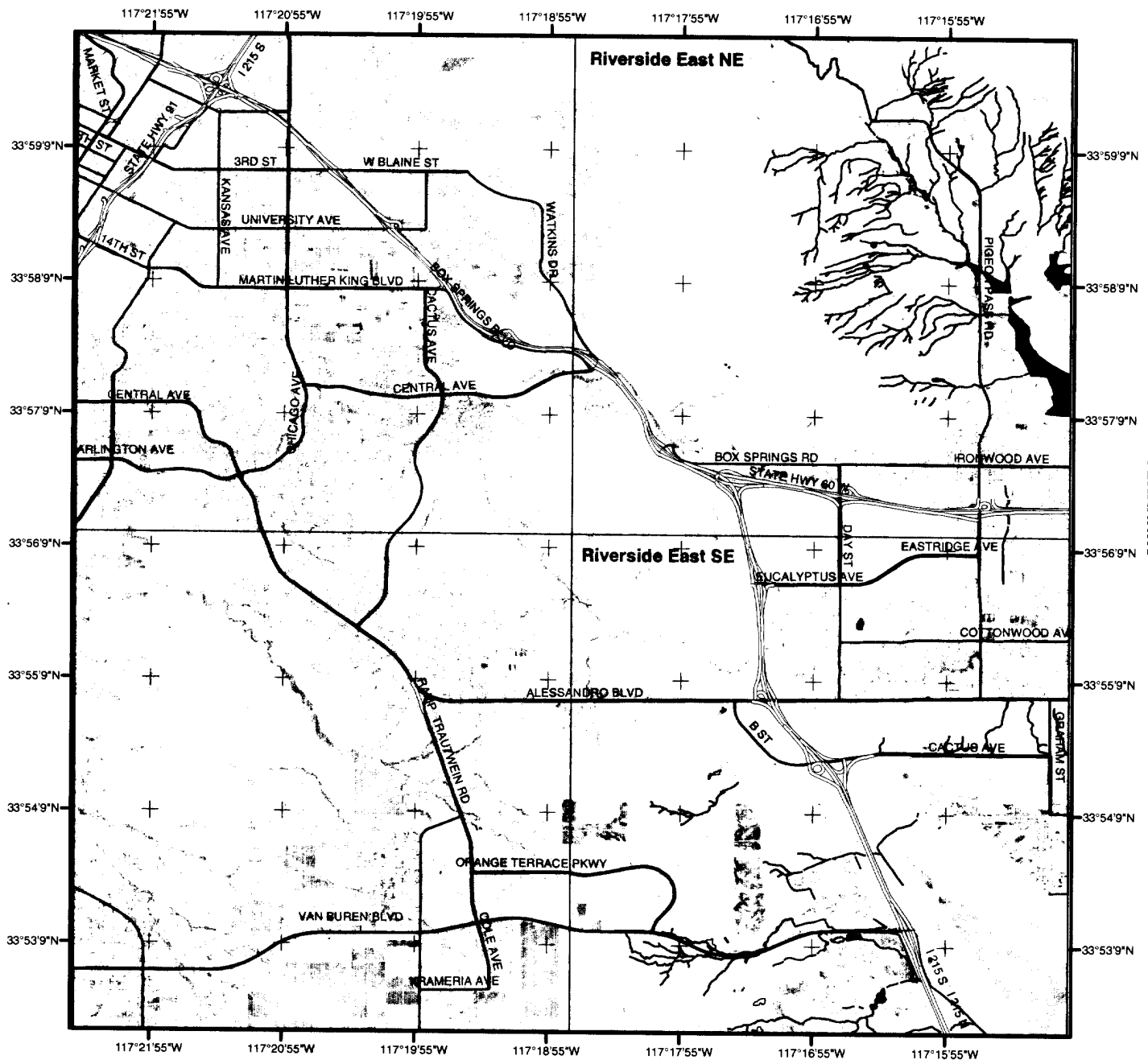


Perris South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



Riverside East Quadrangle

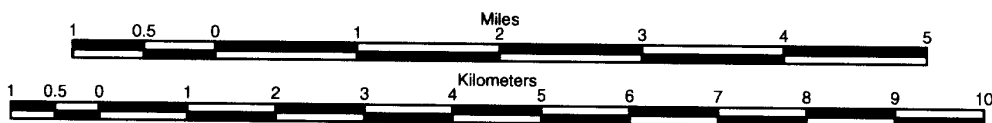
Regulatory Probability Ratings for Aquatic Resources



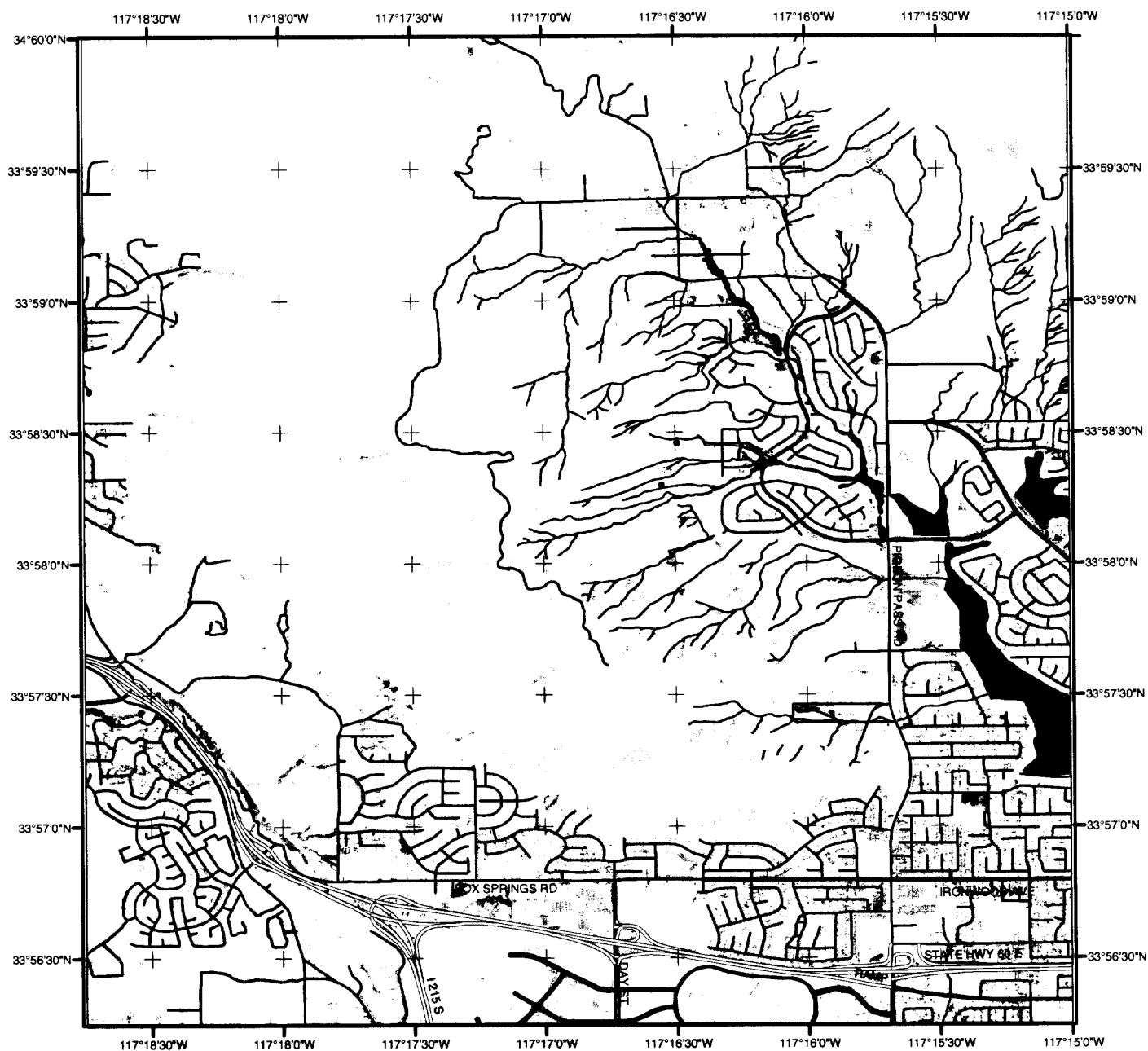
SUNNYMEAD
QUAD RATINGS PAGE 427

STEELE PEAK
QUAD RATINGS PAGE 415

PERRIS
QUAD RATINGS PAGE 325



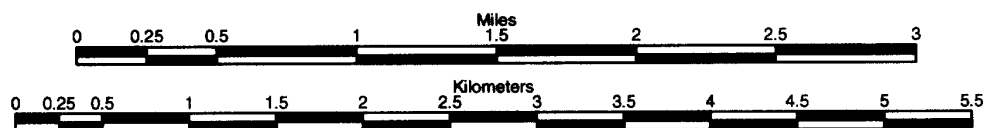
Riverside East North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



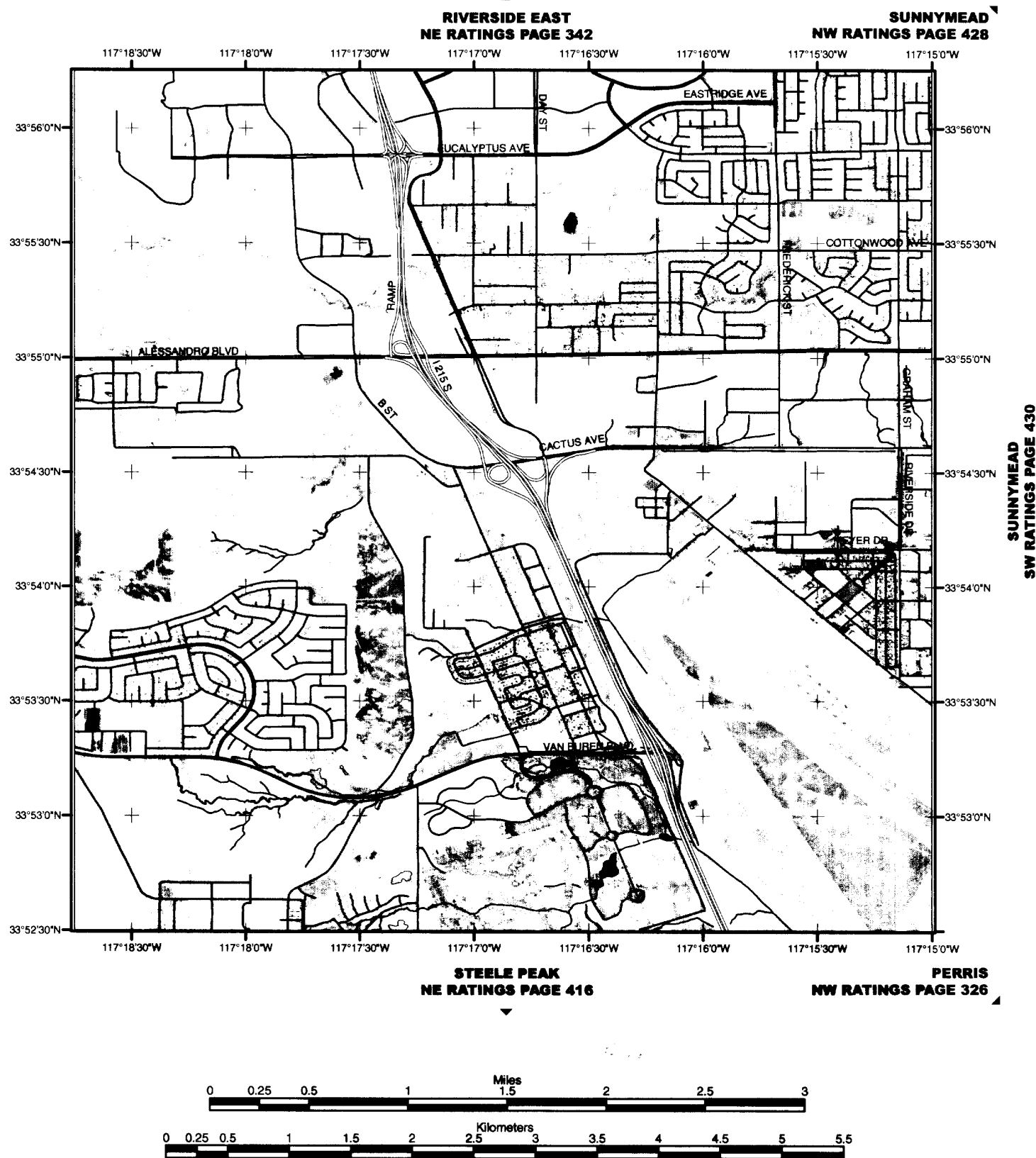
RIVERSIDE EAST
SE RATINGS PAGE 343

SUNNYMEAD
SW RATINGS PAGE 430

SUNNYMEAD
NW RATINGS PAGE 428

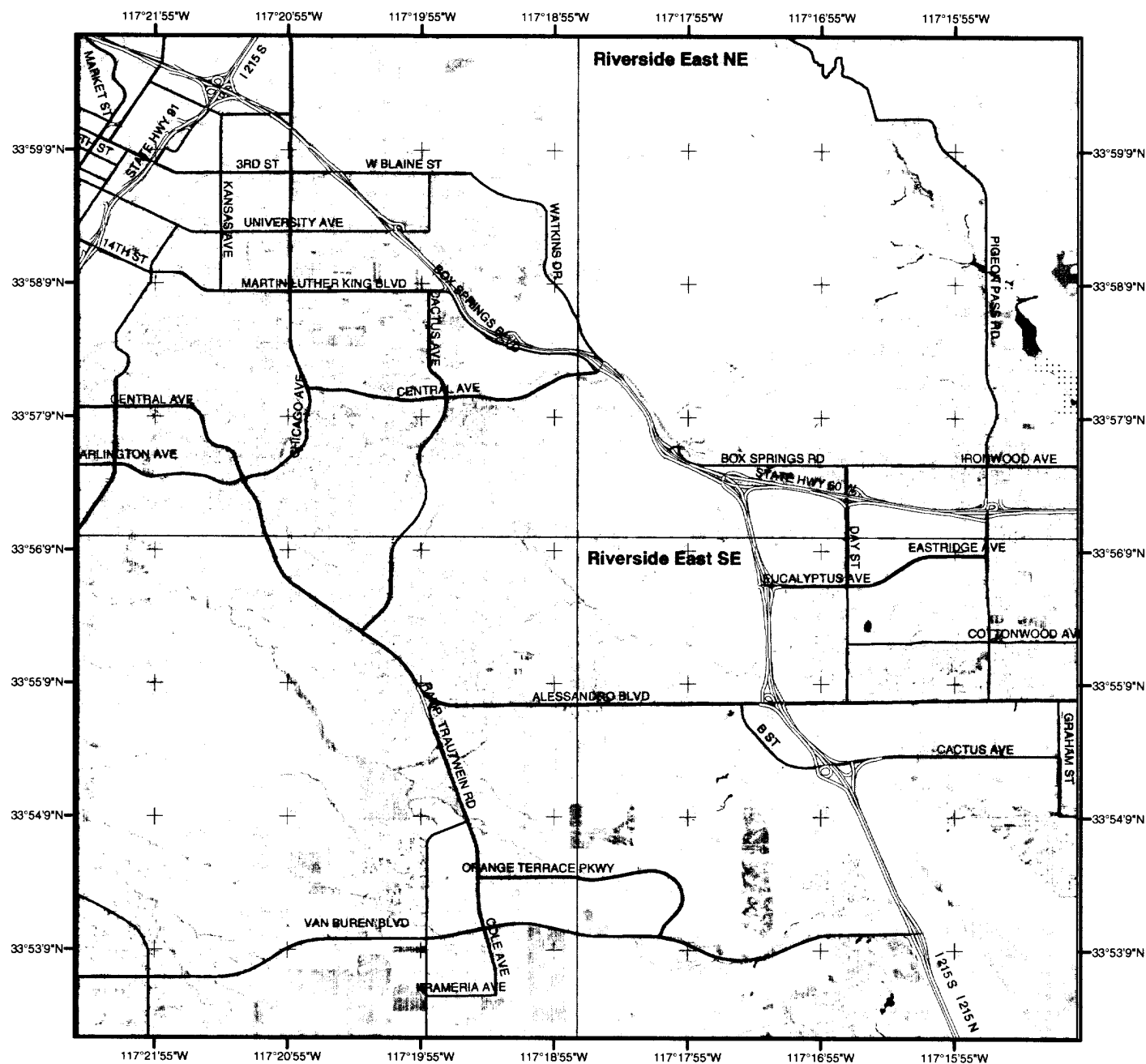


Riverside East South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



Riverside East Quadrangle

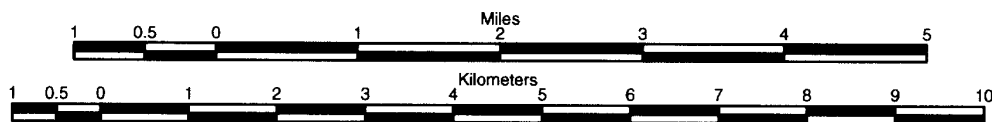
Vegetation Species Association Units for Aquatic Resources



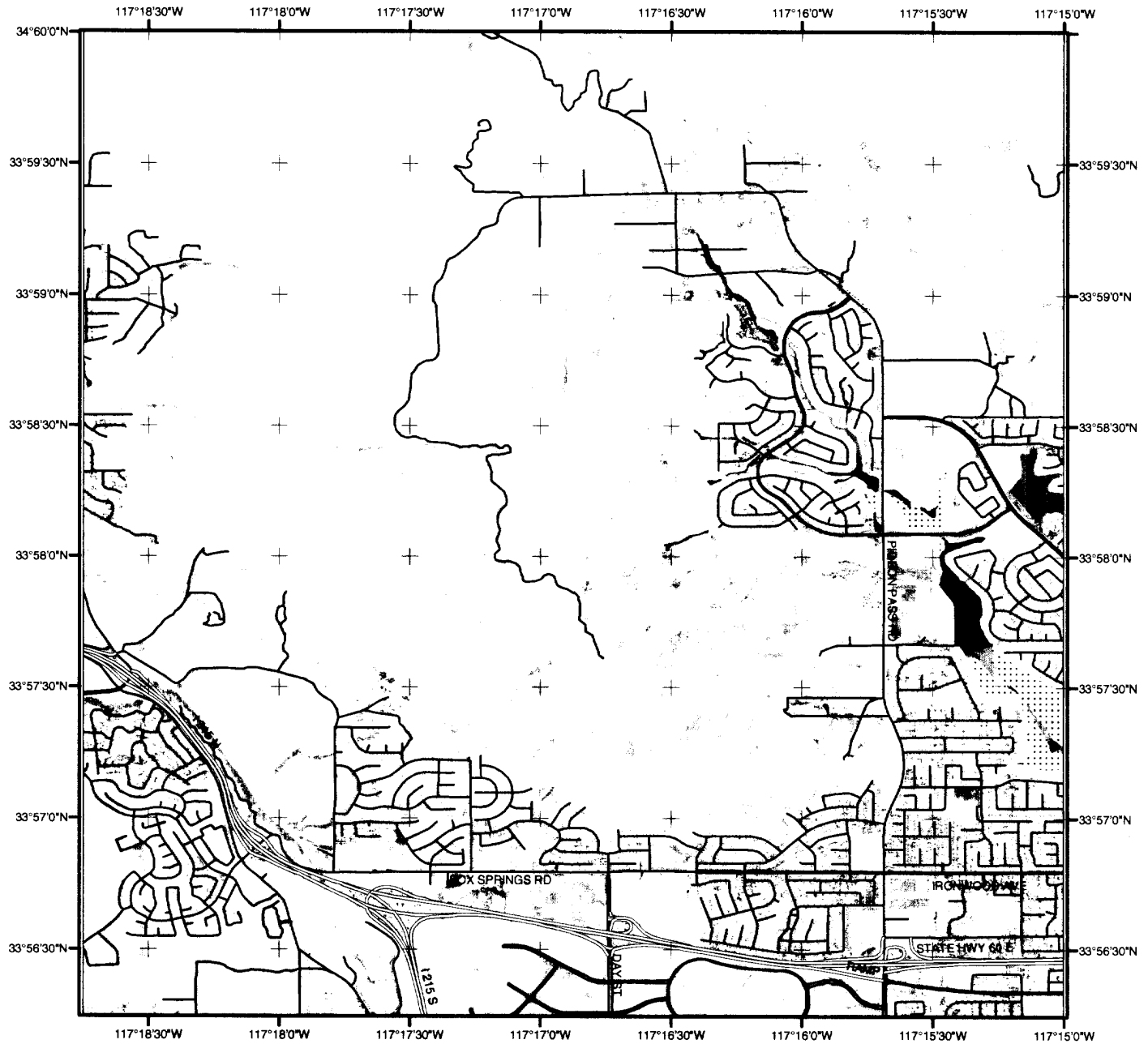
SUNNYMEAD
QUAD VEGETATION PAGE 432

STEELE PEAK
QUAD VEGETATION PAGE 419

PERRIS
QUAD VEGETATION PAGE 330



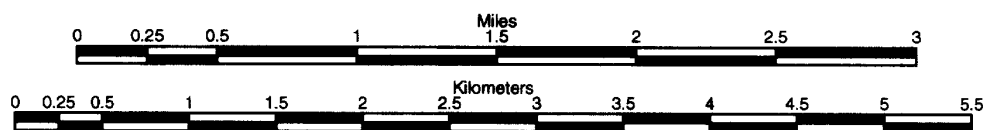
Riverside East North East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



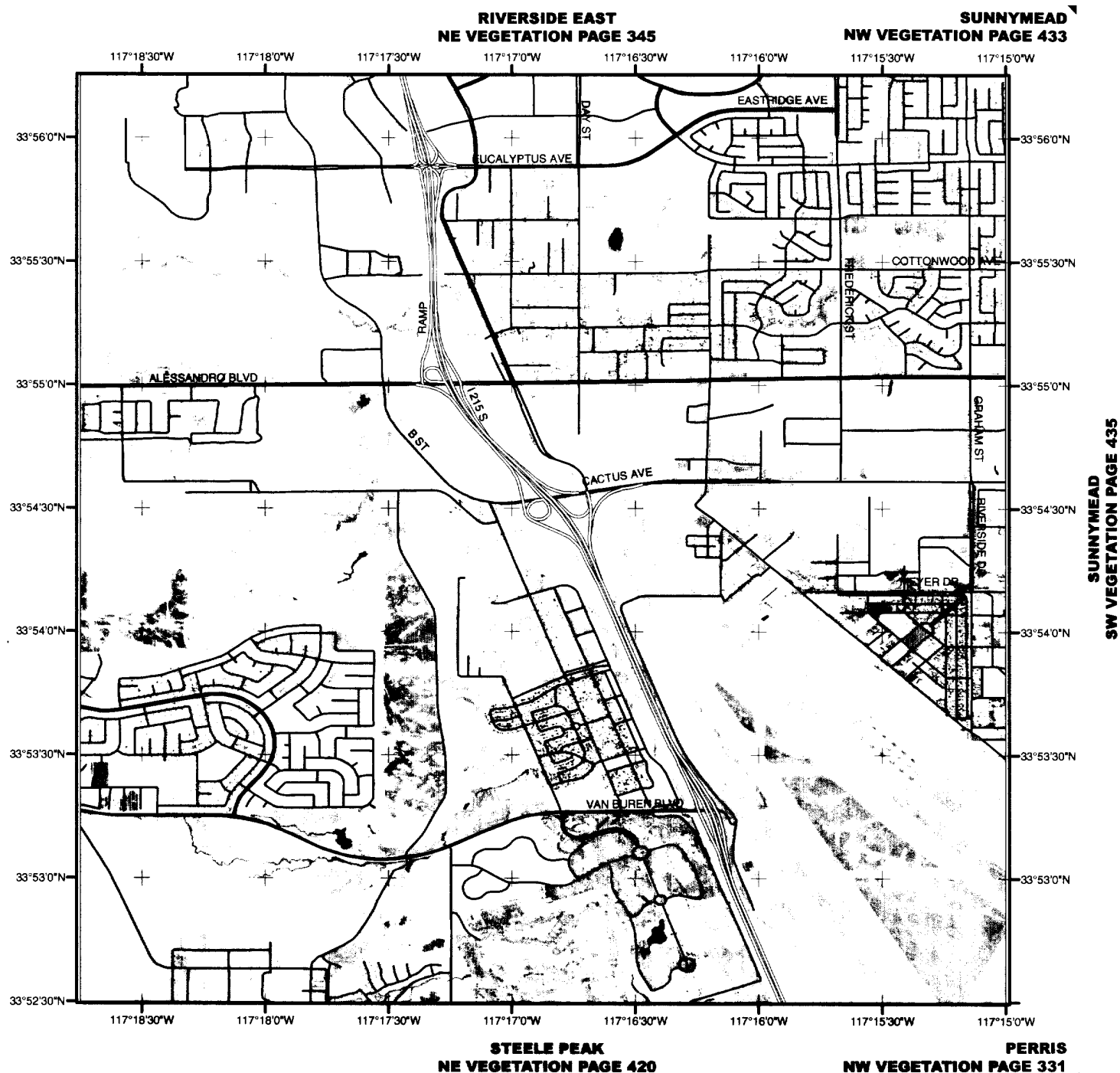
RIVERSIDE EAST
SE VEGETATION PAGE 346

SUNNYMEAD
SW VEGETATION PAGE 435

SUNNYMEAD
NW VEGETATION PAGE 433

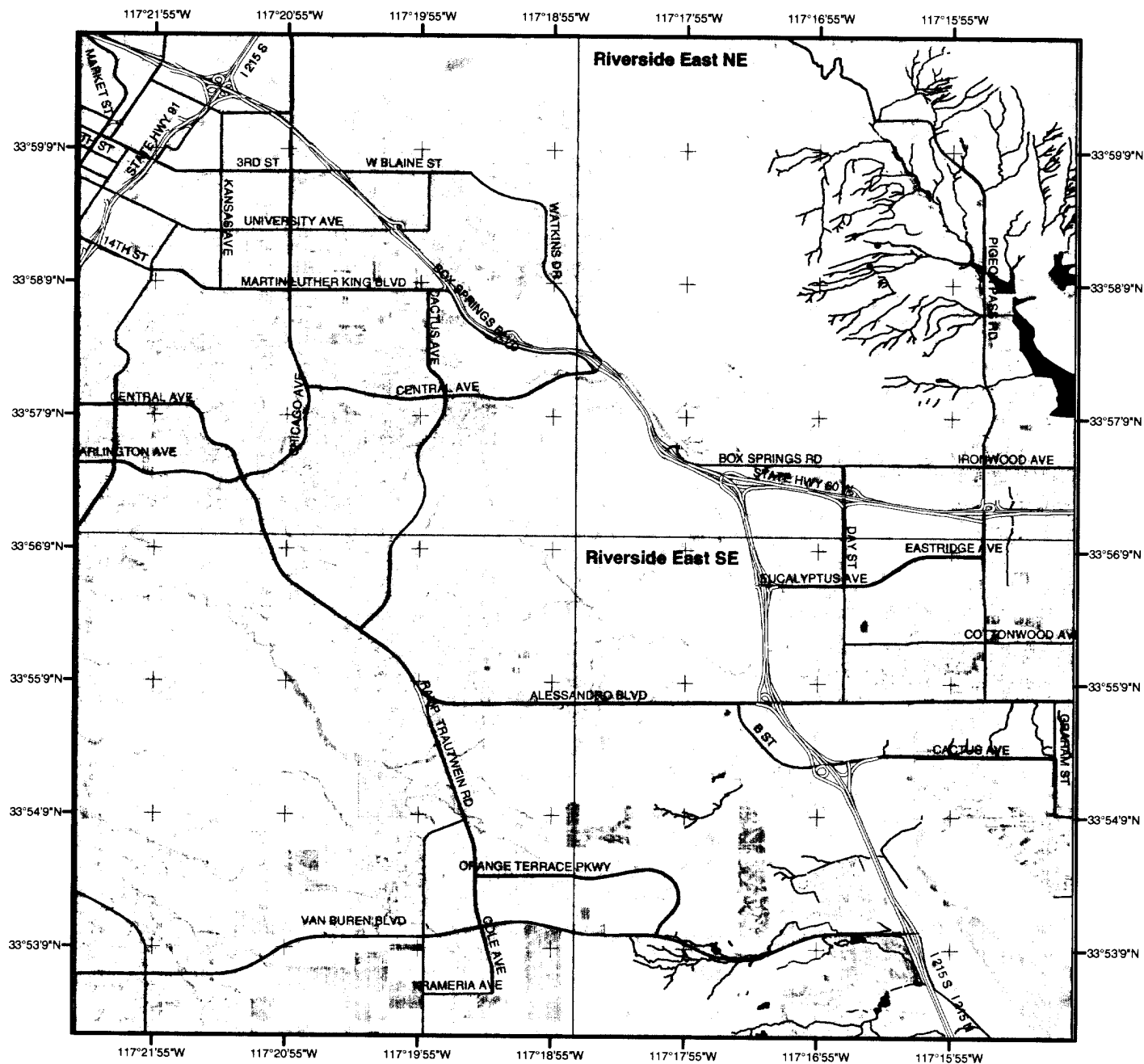


Riverside East South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



Riverside East Quadrangle

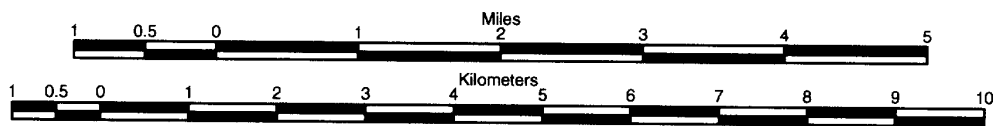
Hydrogeomorphic Floodplain Units for Aquatic Resources



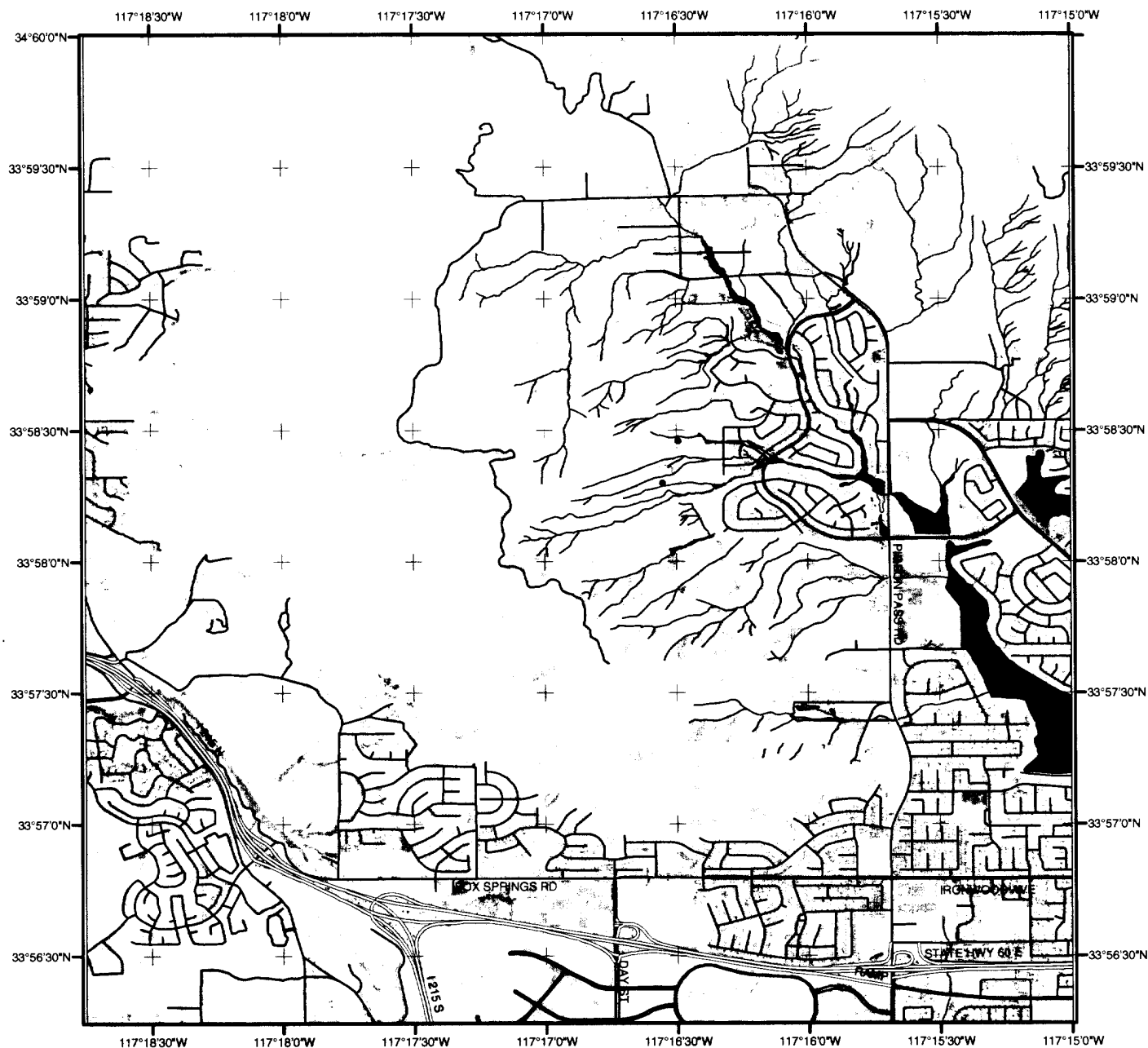
SUNNYMEAD
QUAD FLOODPLAIN PAGE 437

STEELE PEAK
QUAD FLOODPLAIN PAGE 423

PERRIS
QUAD FLOODPLAIN PAGE 335



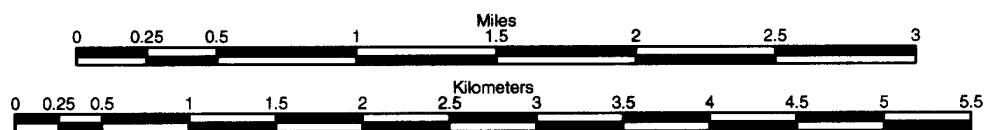
Riverside East North East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



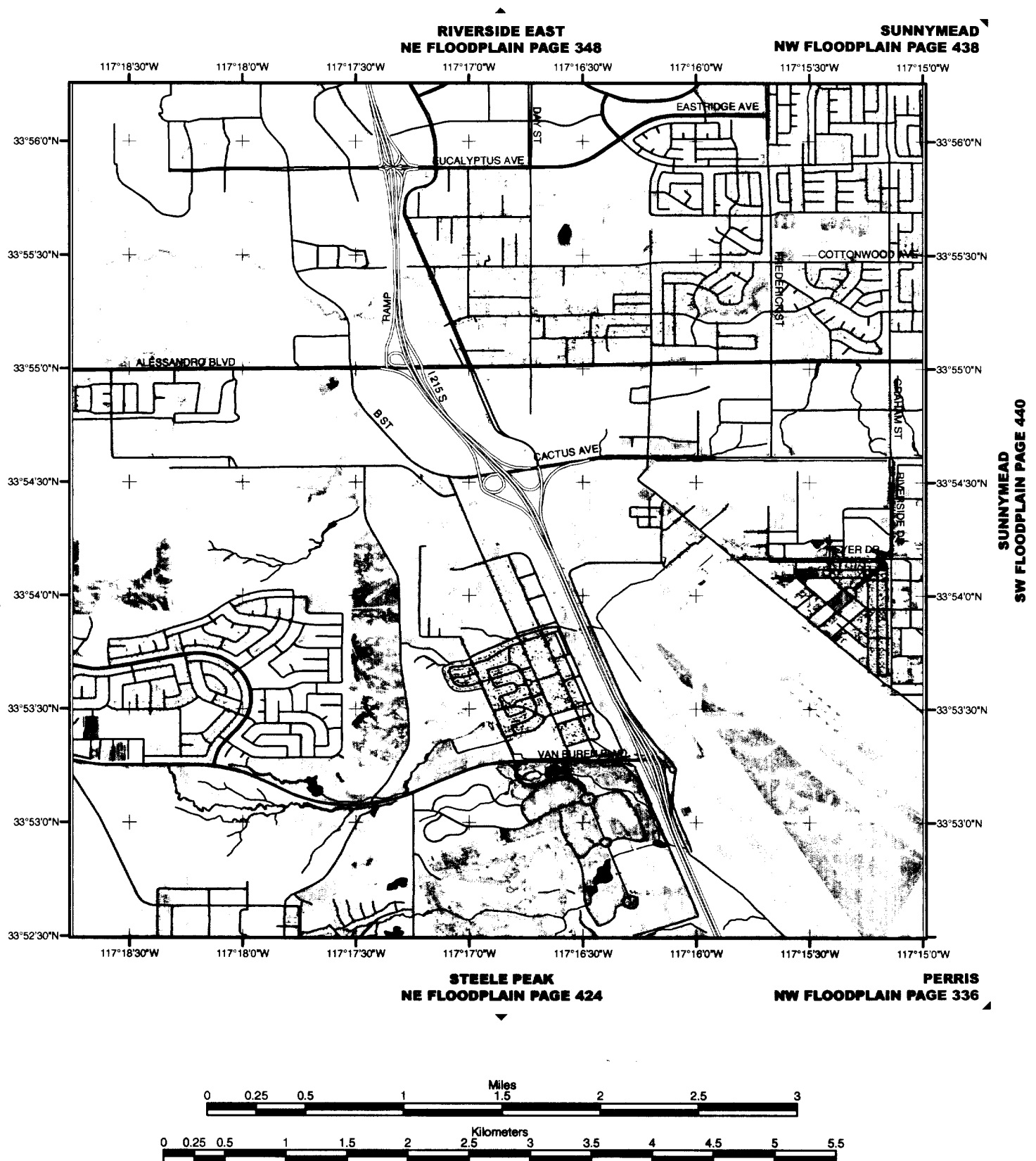
**RIVERSIDE EAST
SE FLOODPLAIN PAGE 349**

**SUNNYMEAD
SW FLOODPLAIN PAGE 440**

**SUNNYMEAD
NW FLOODPLAIN PAGE 438**

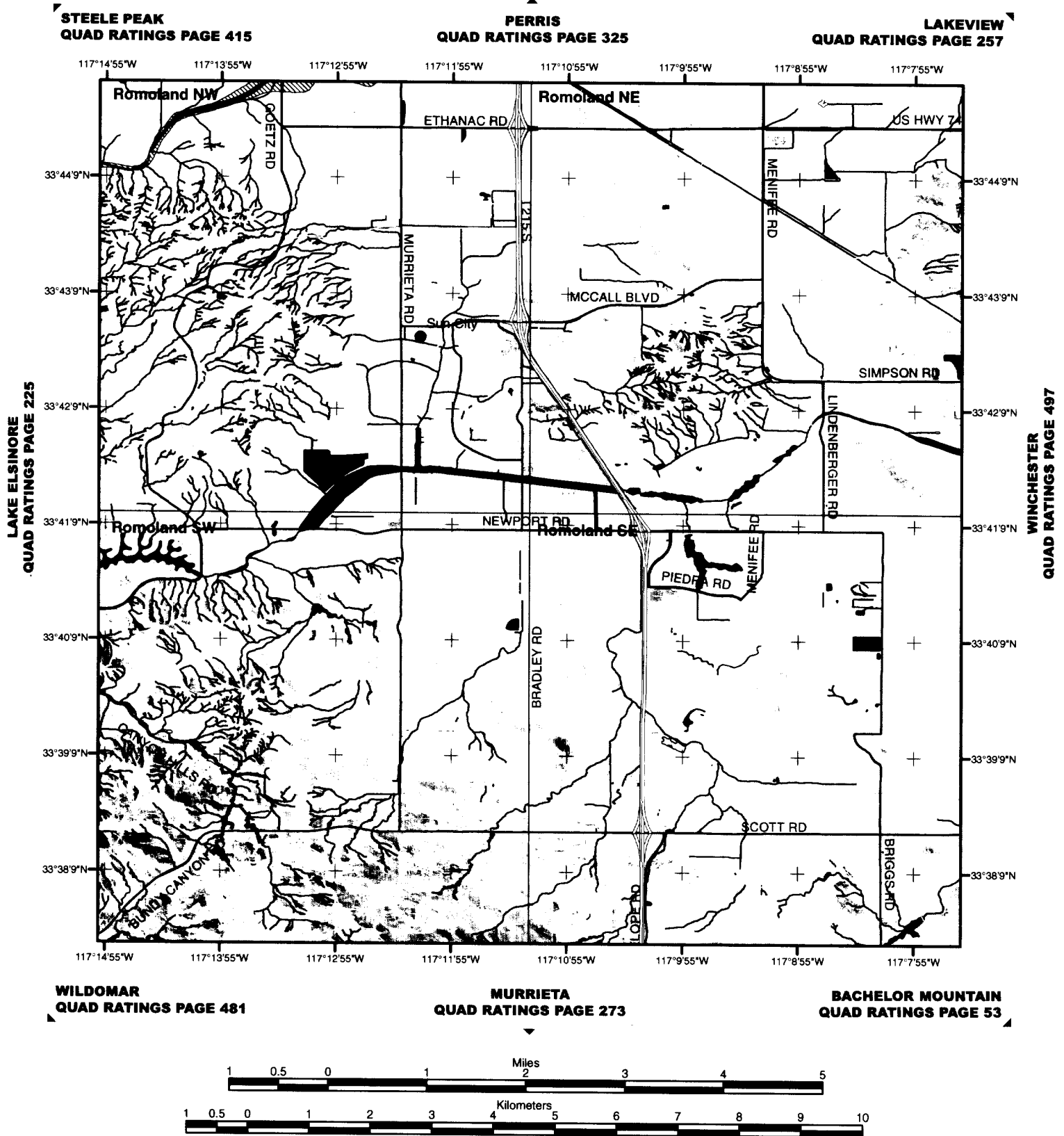


Riverside East South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

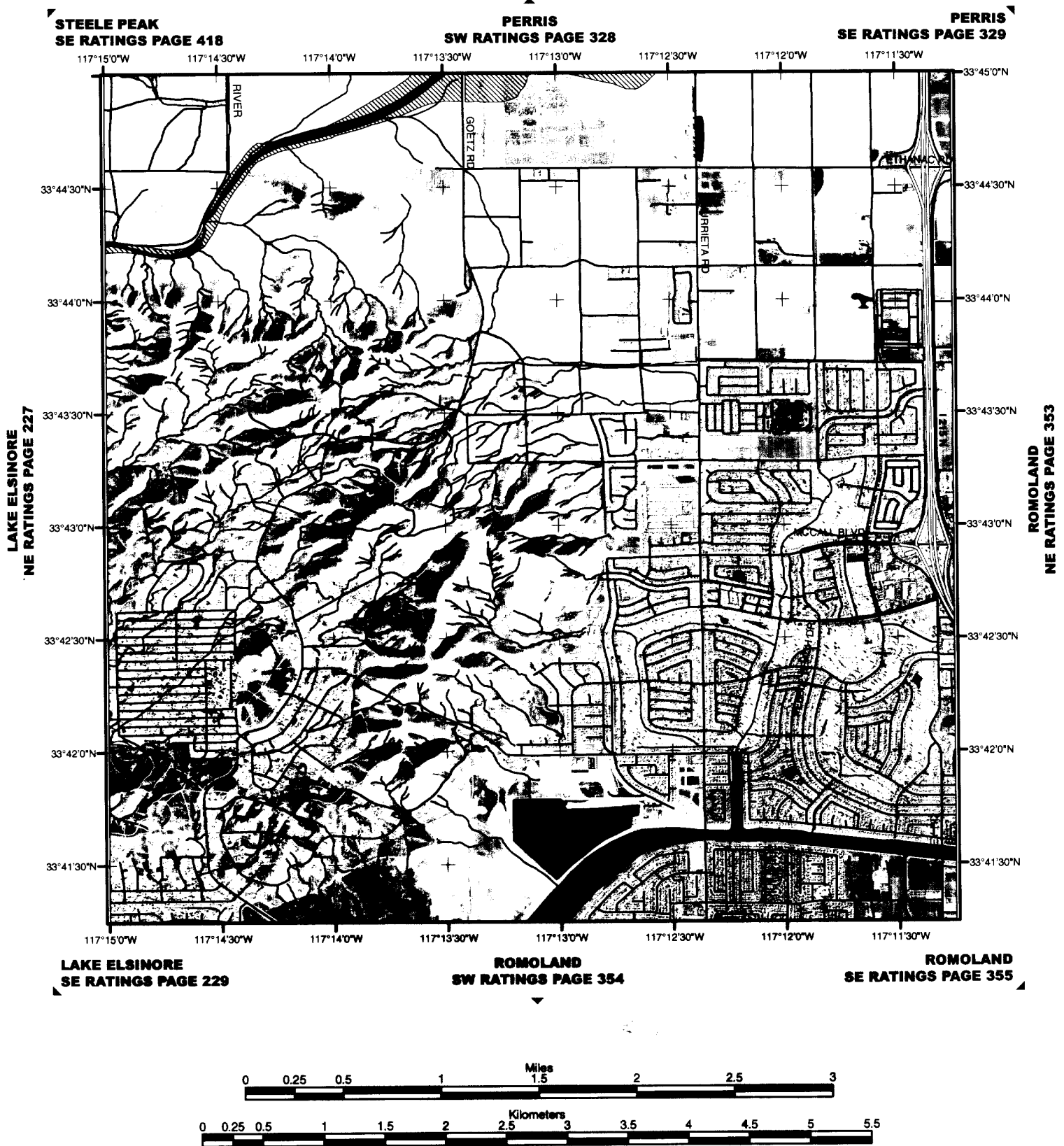


Romoland Quadrangle

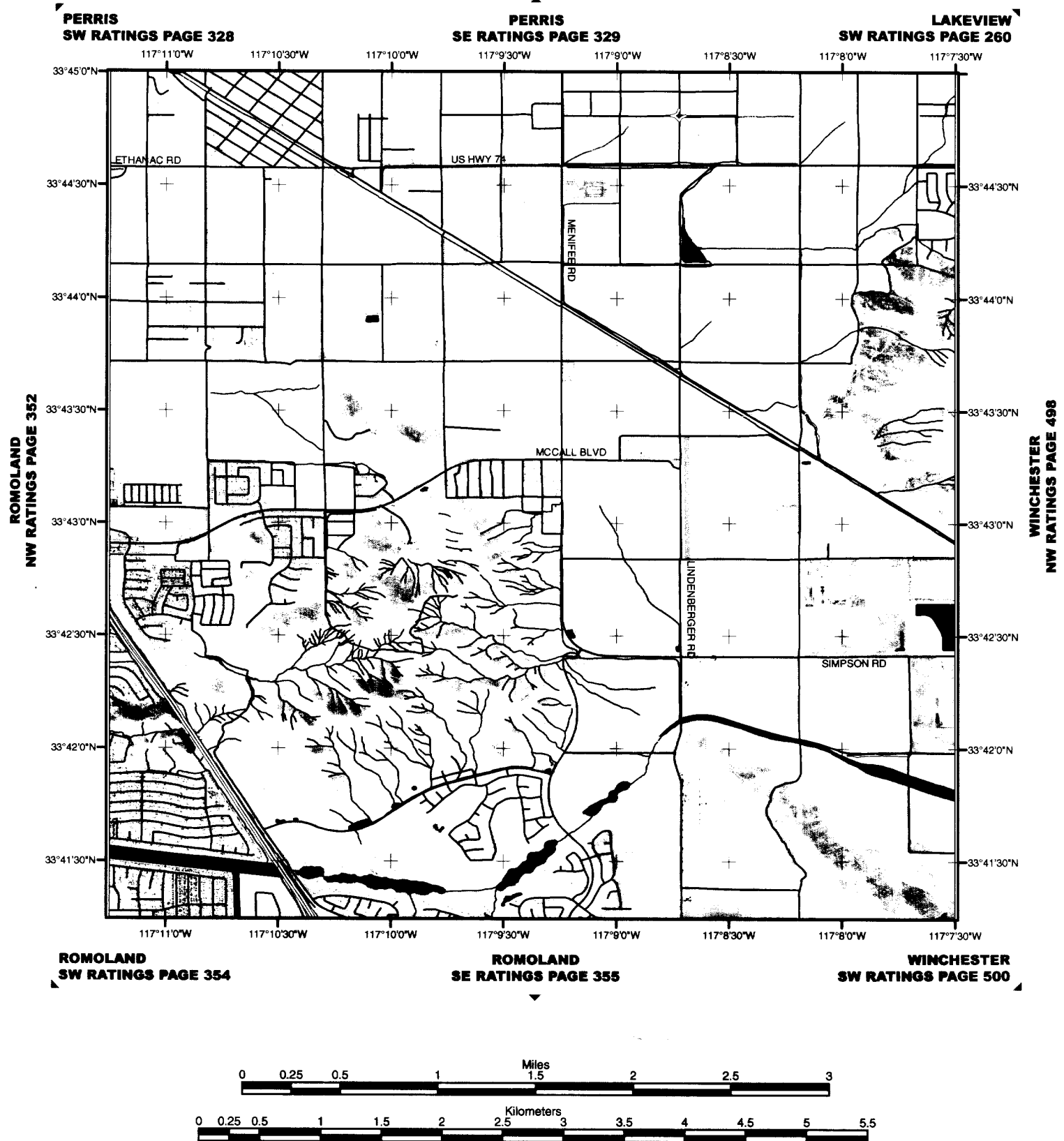
Regulatory Probability Ratings for Aquatic Resources



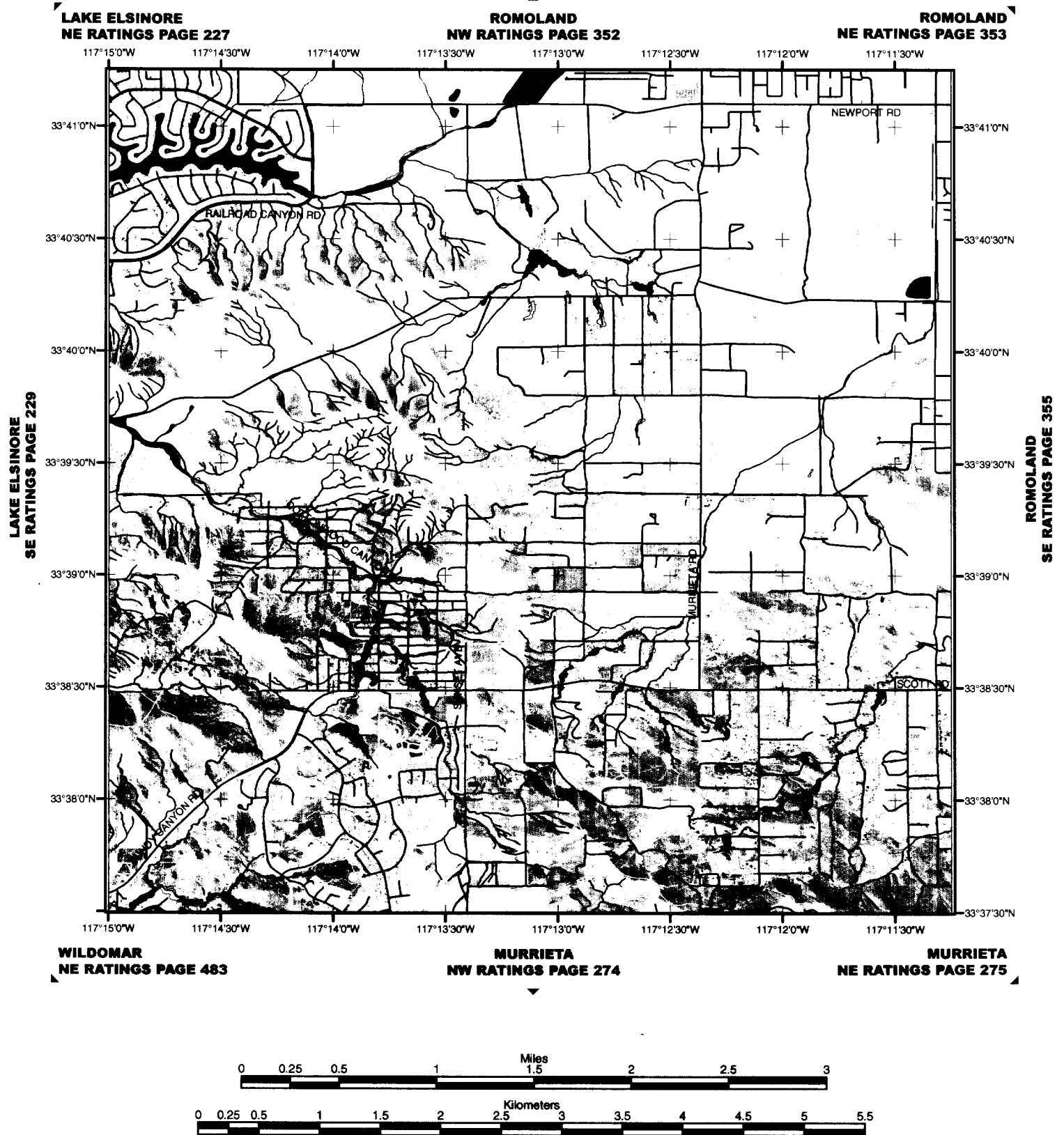
Romoland North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



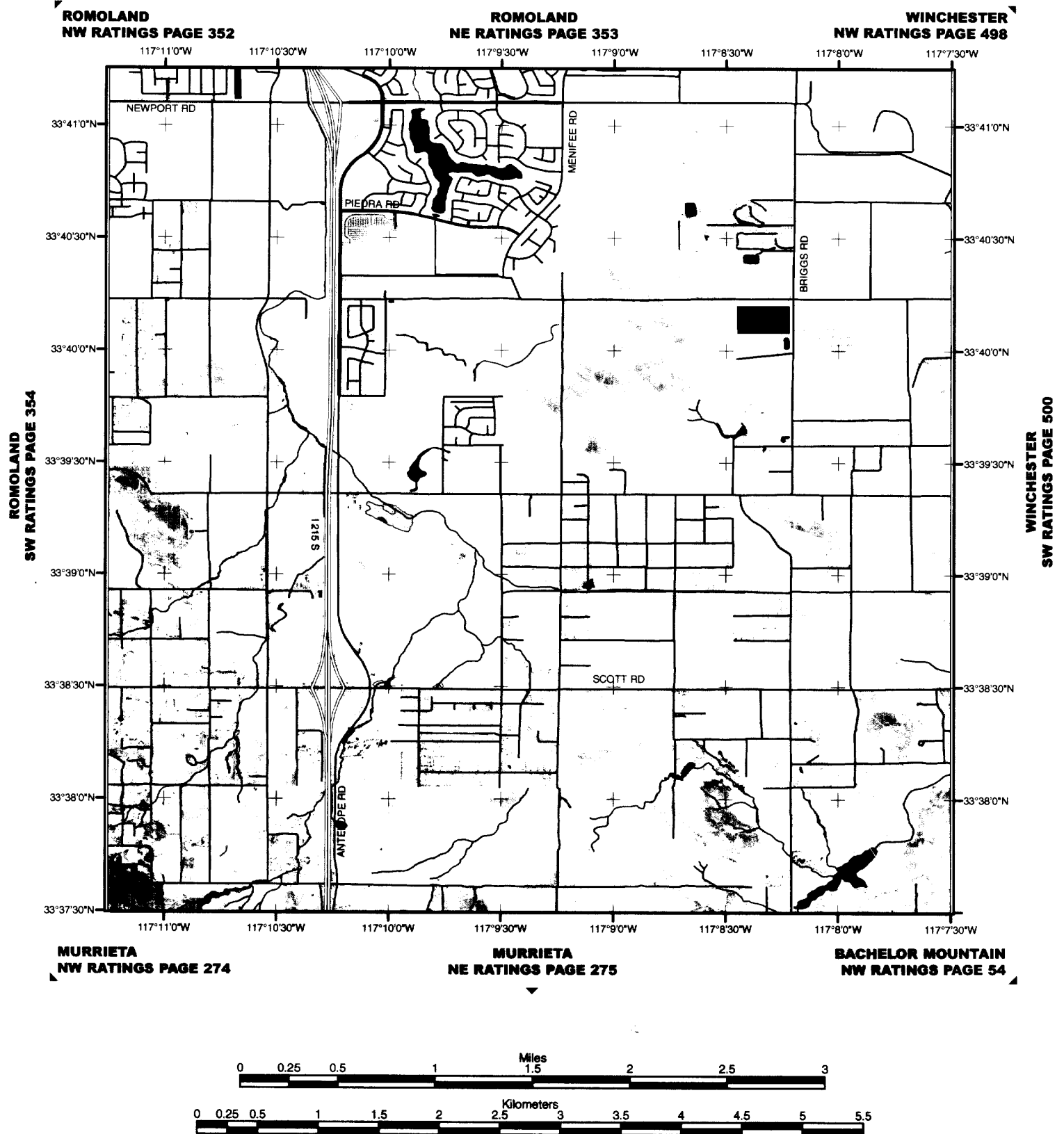
Romoland North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



Romoland South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

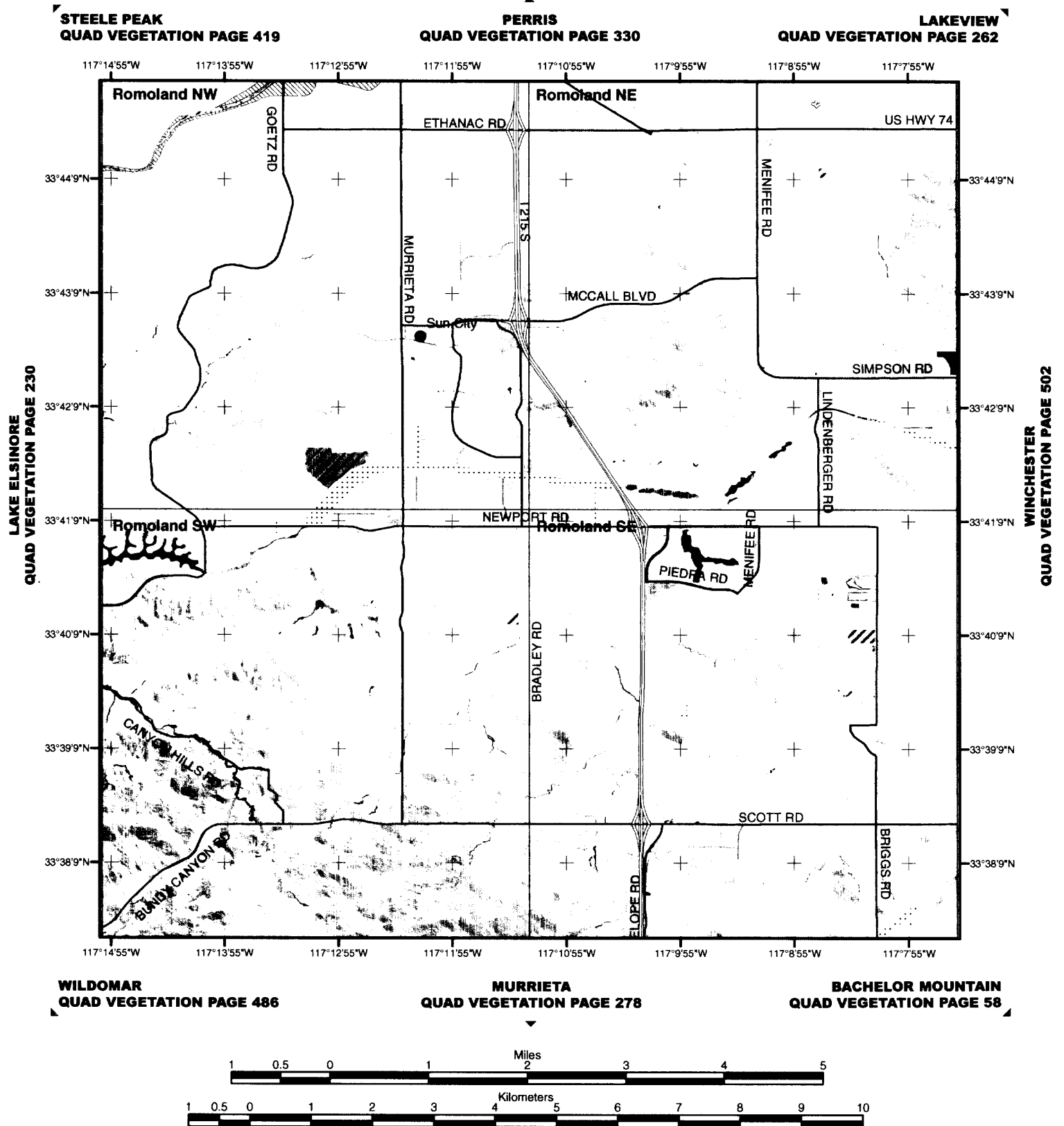


Romoland South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

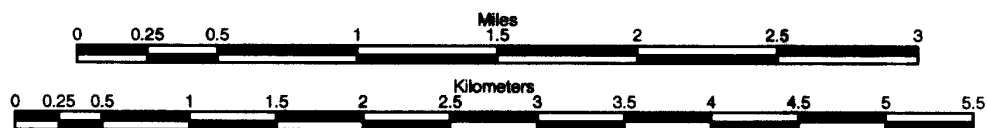
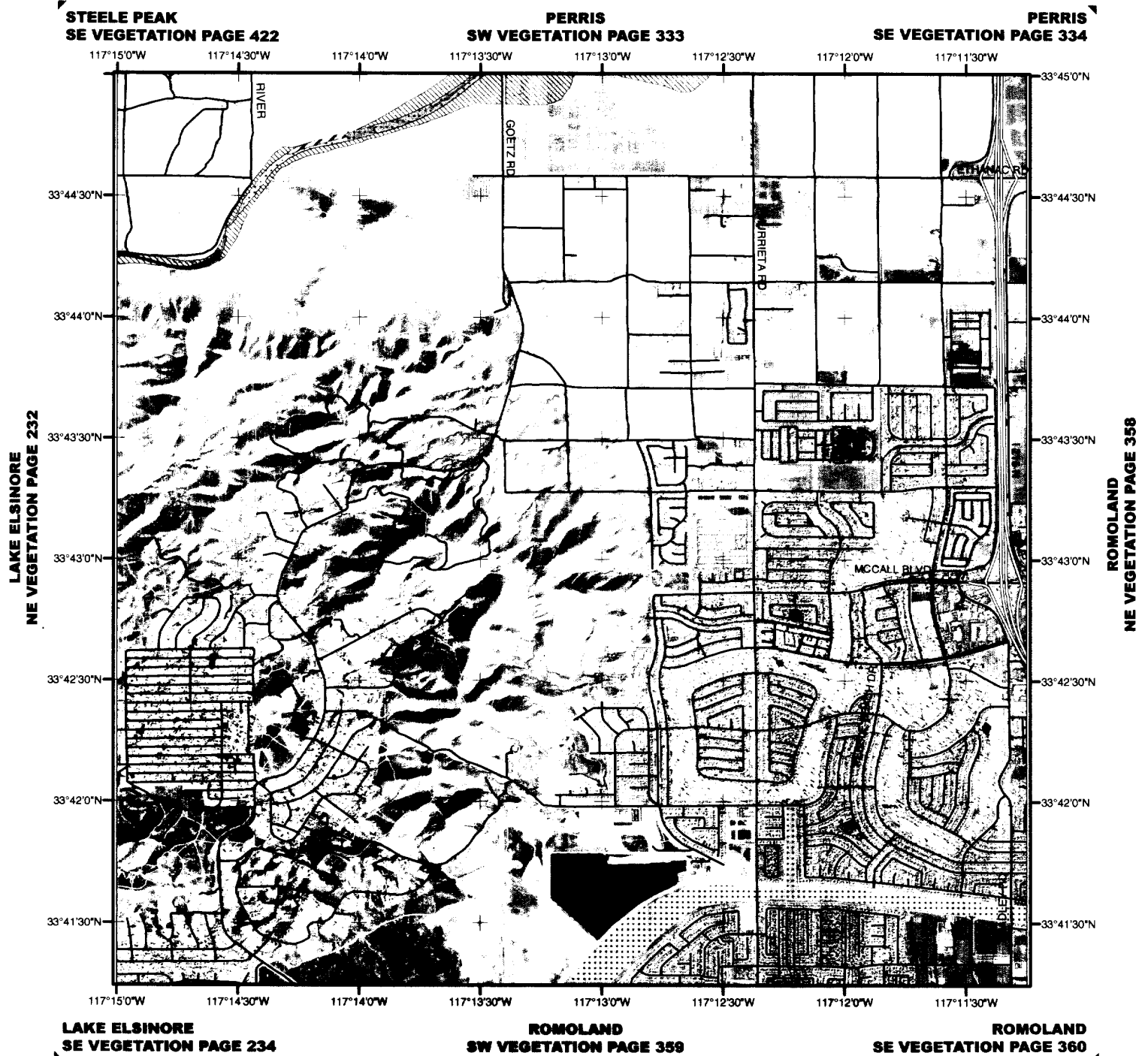


Romoland Quadrangle

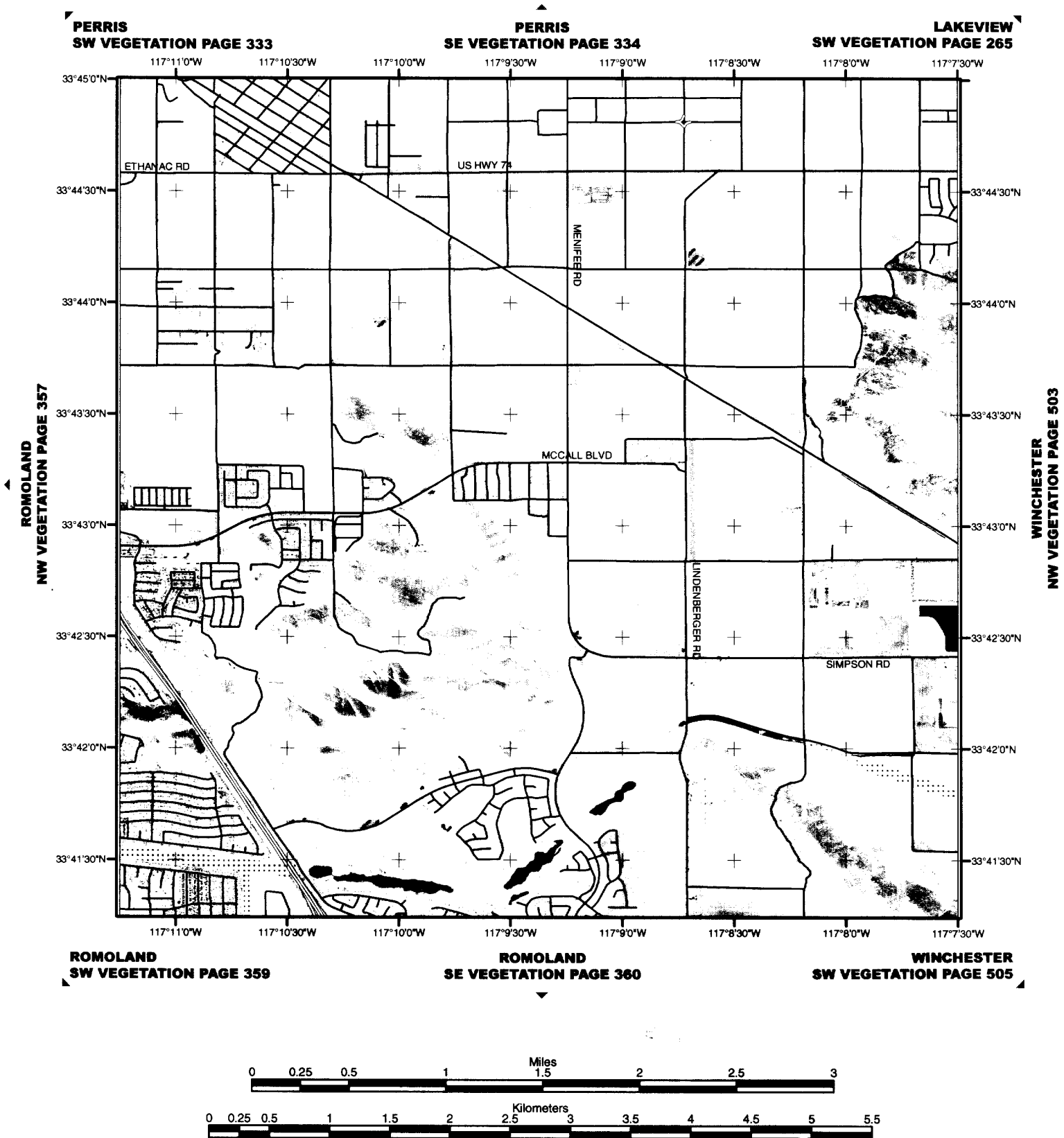
Vegetation Species Association Units for Aquatic Resources



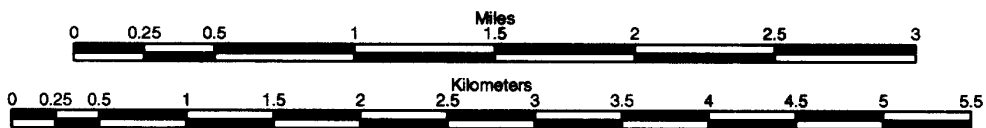
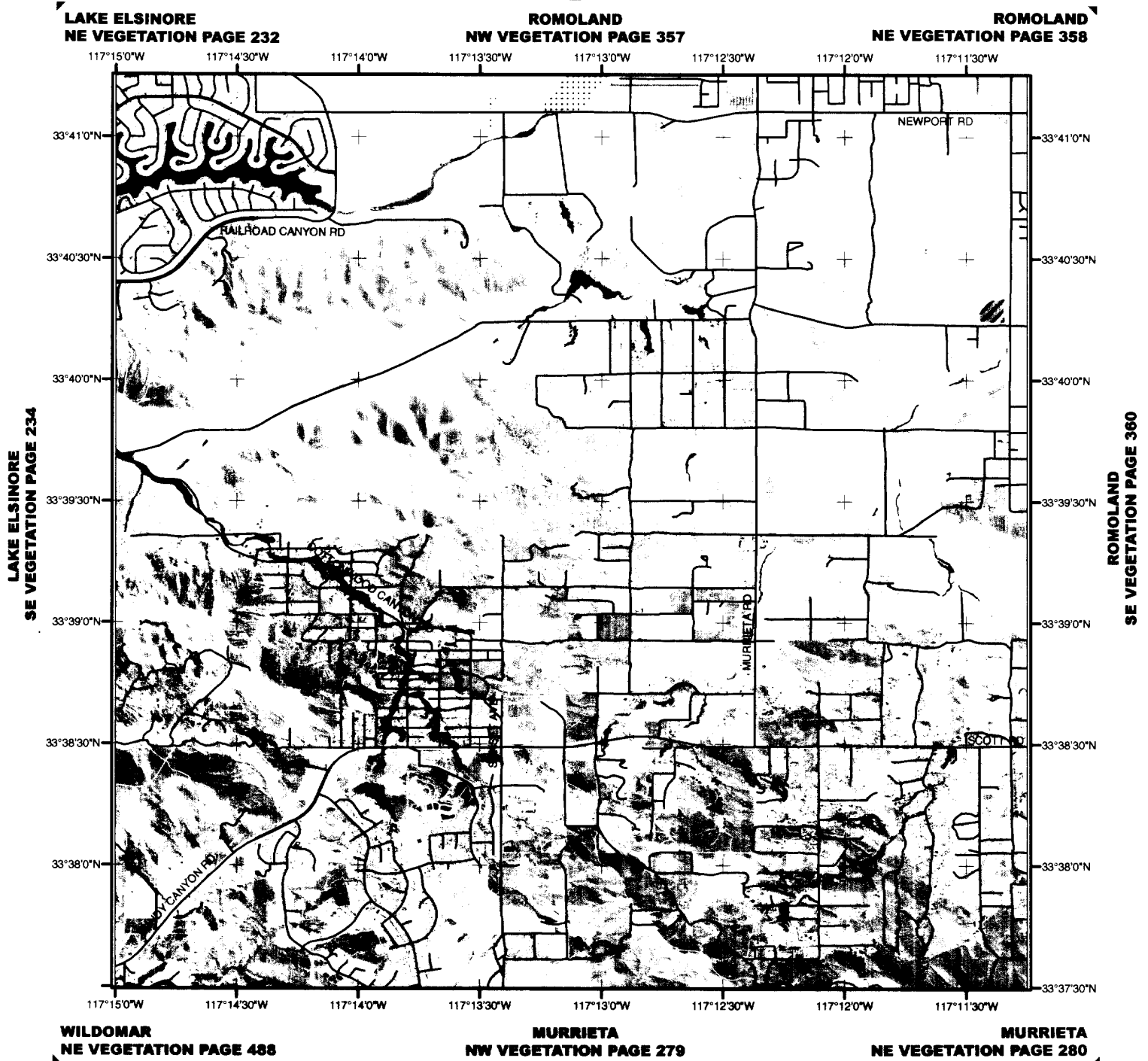
Romoland North West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



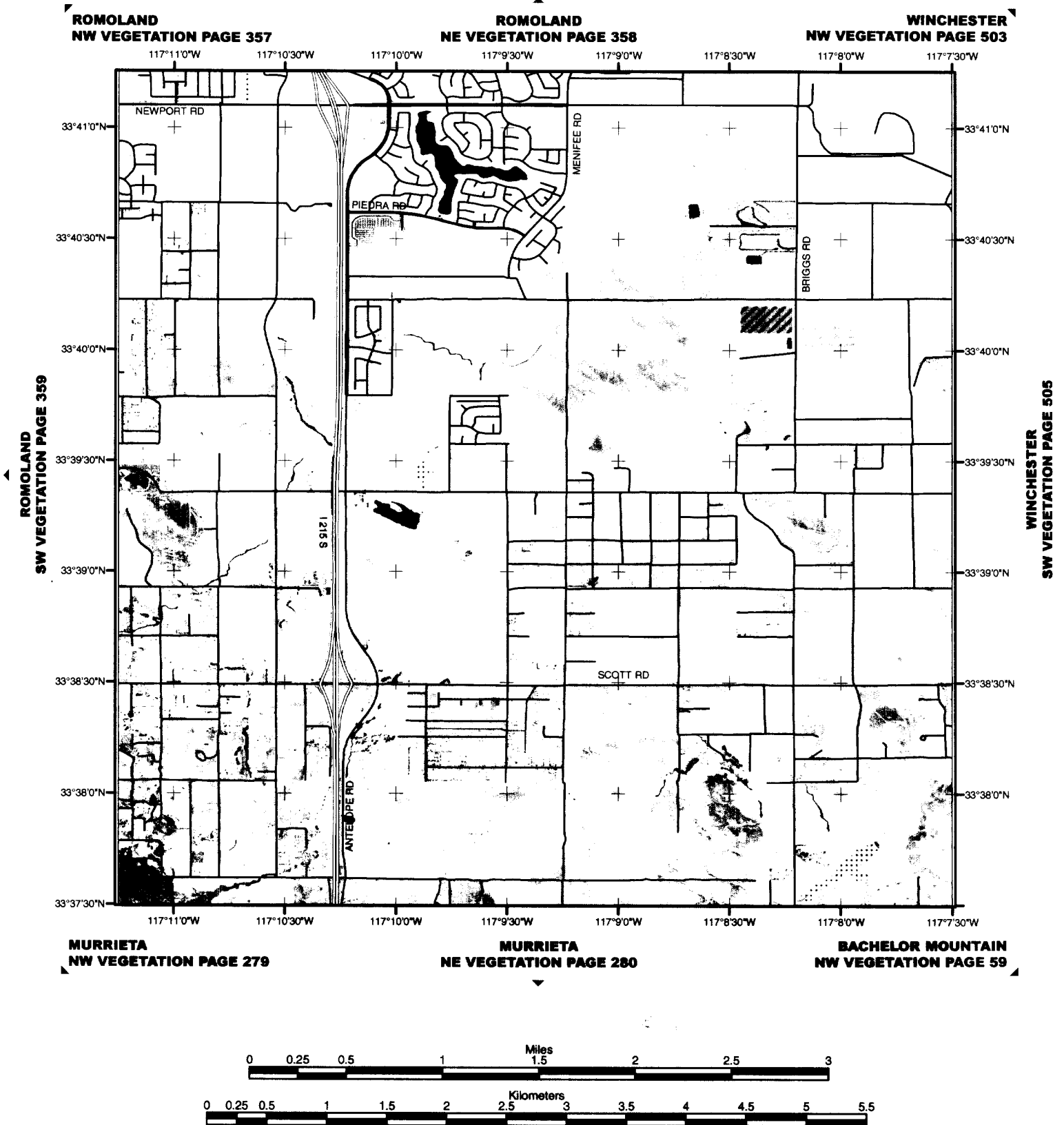
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Romoland South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

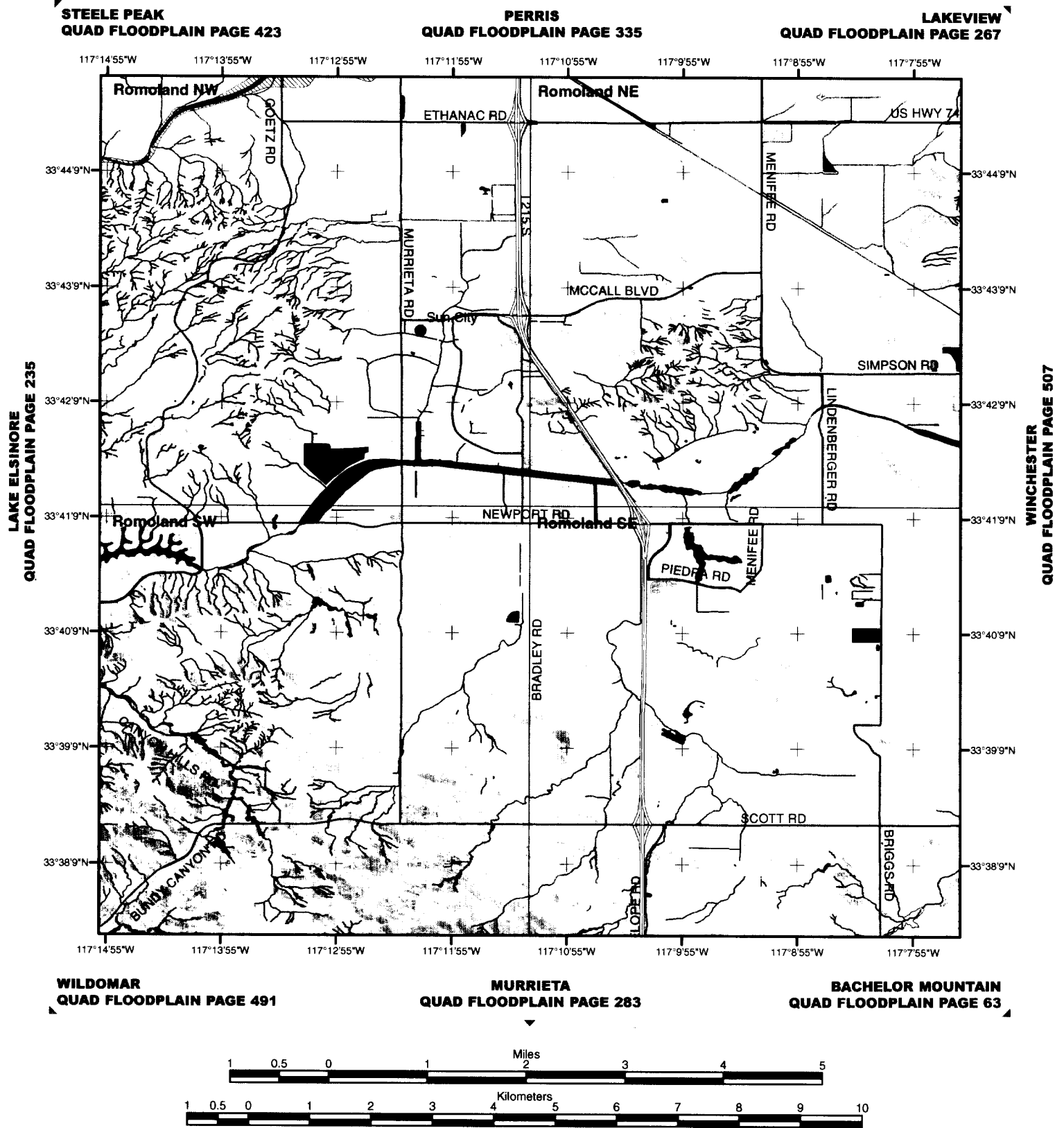


Romoland South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

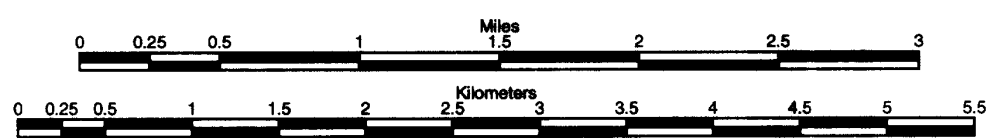
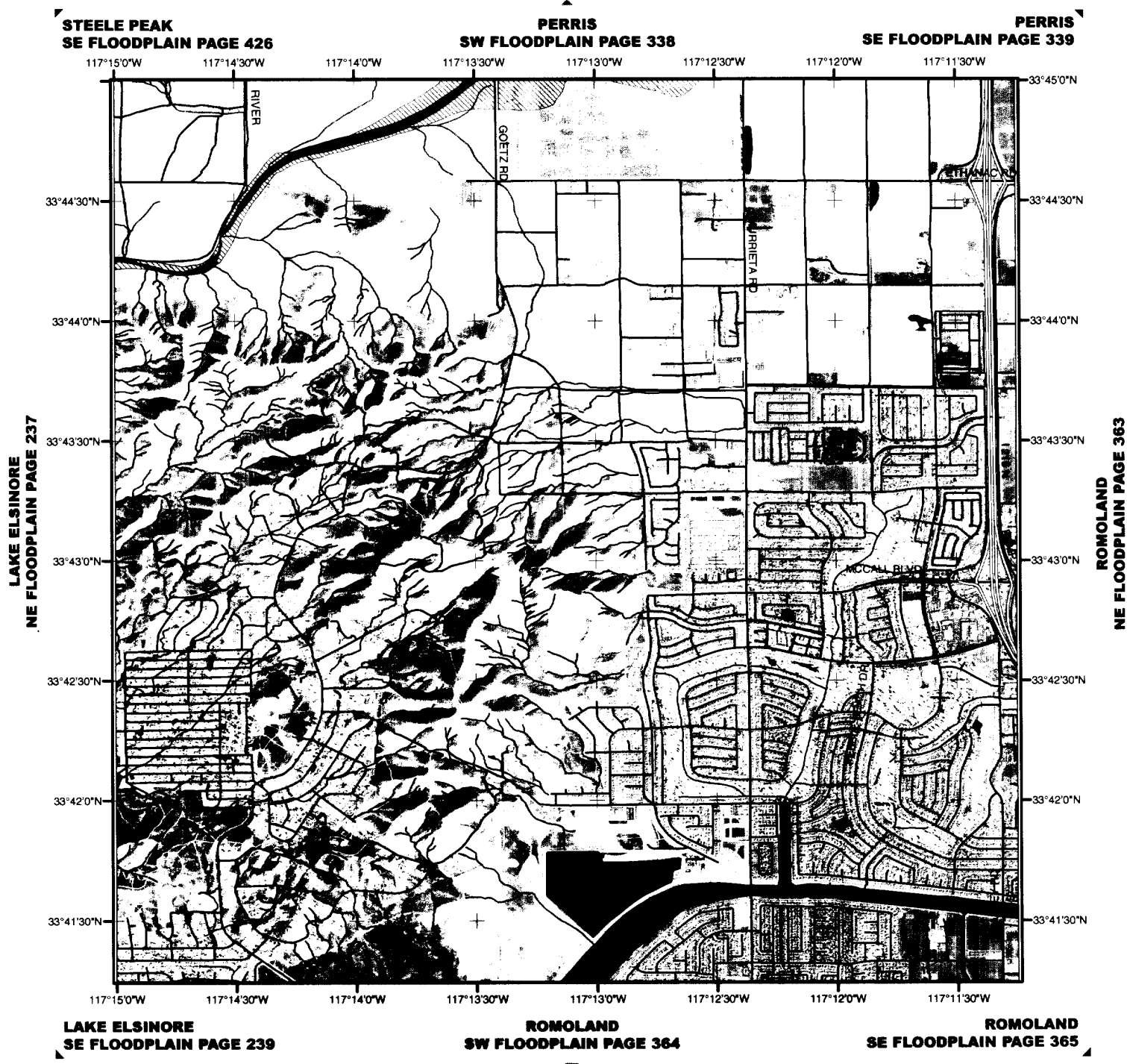


Romoland Quadrangle

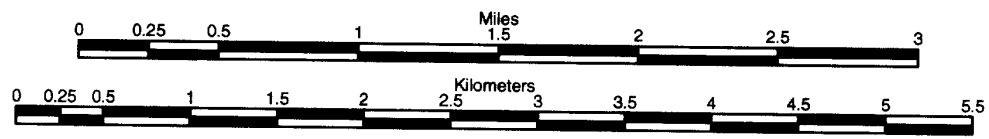
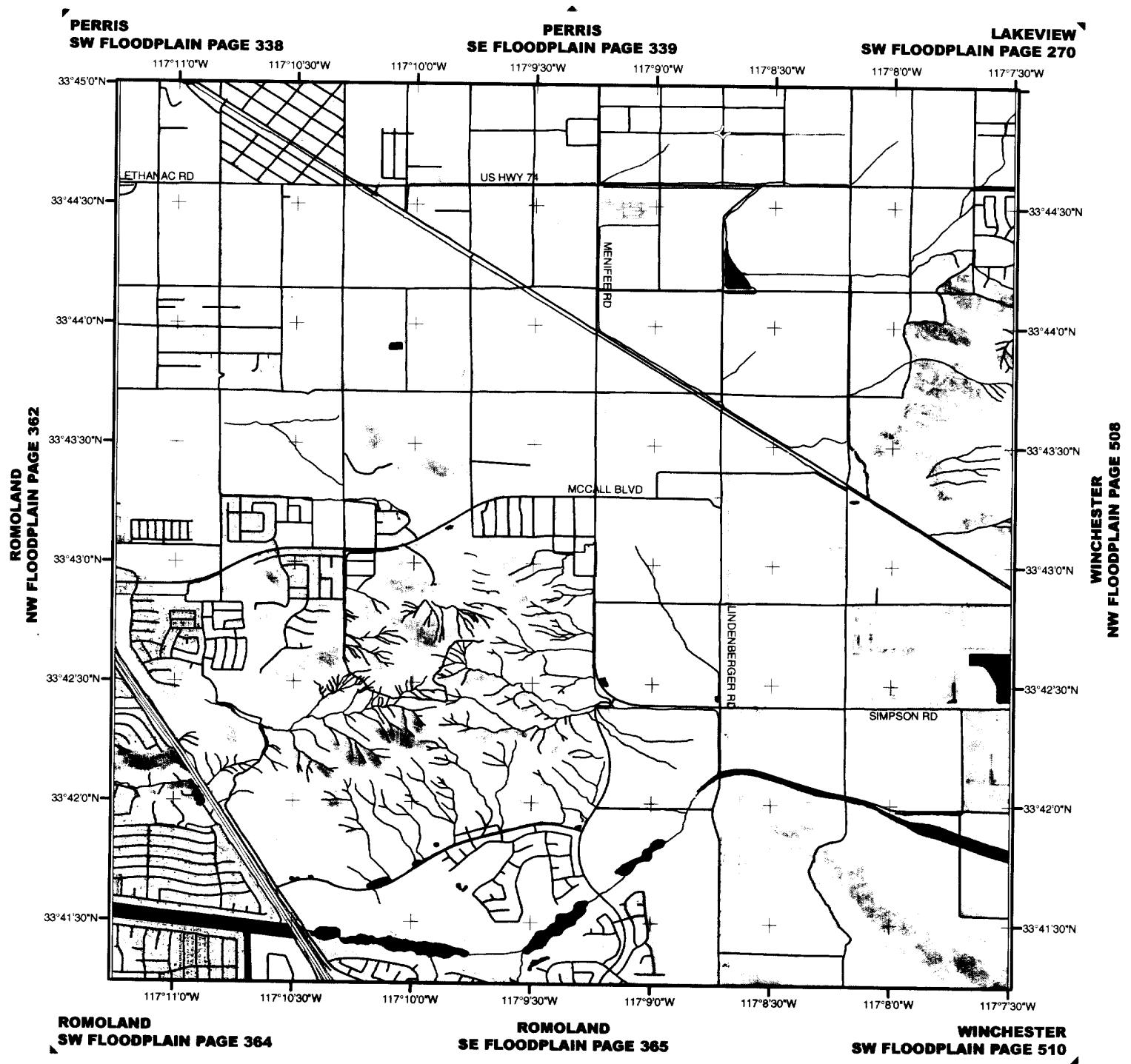
Hydrogeomorphic Floodplain Units for Aquatic Resources



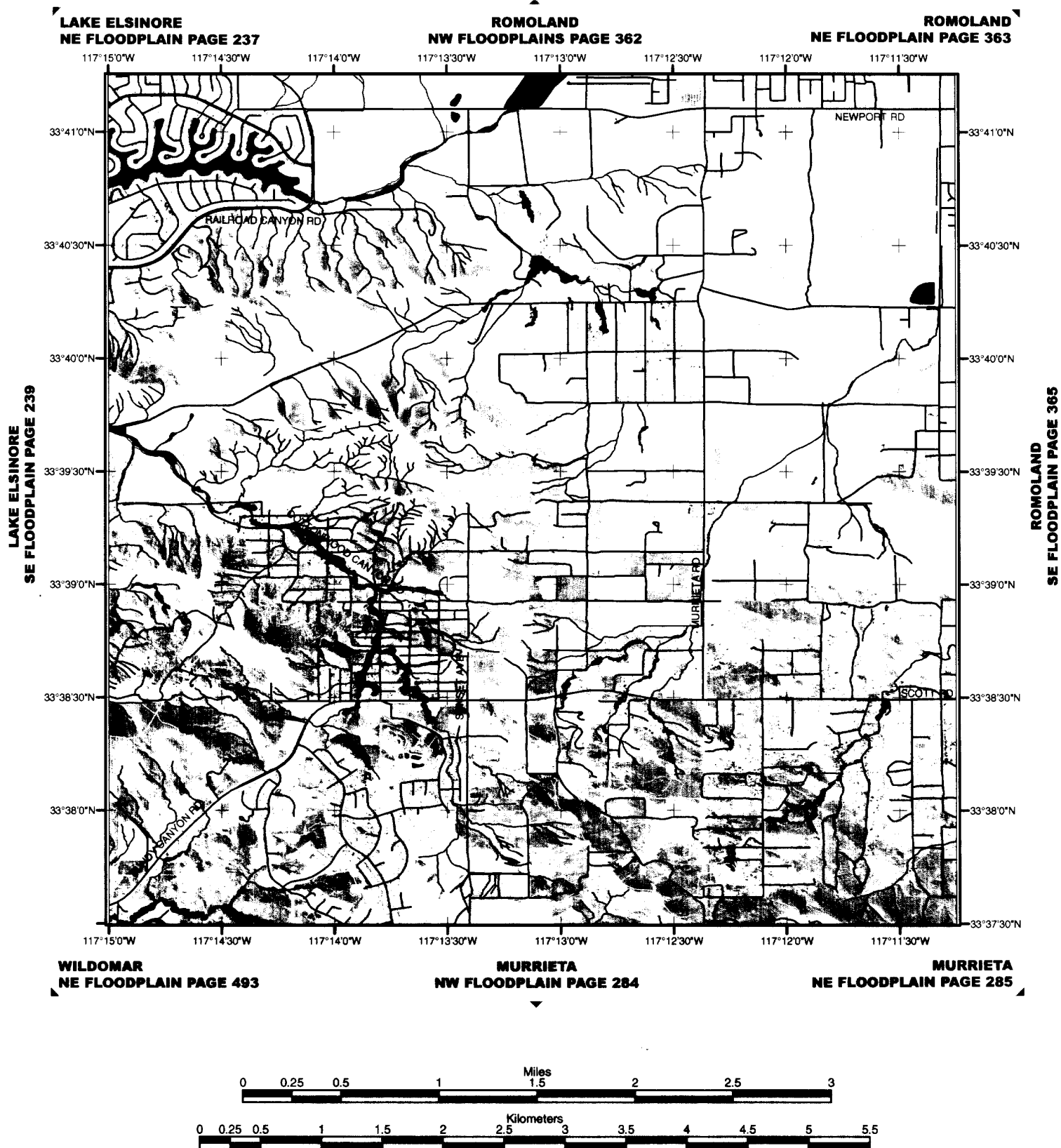
Romoland North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



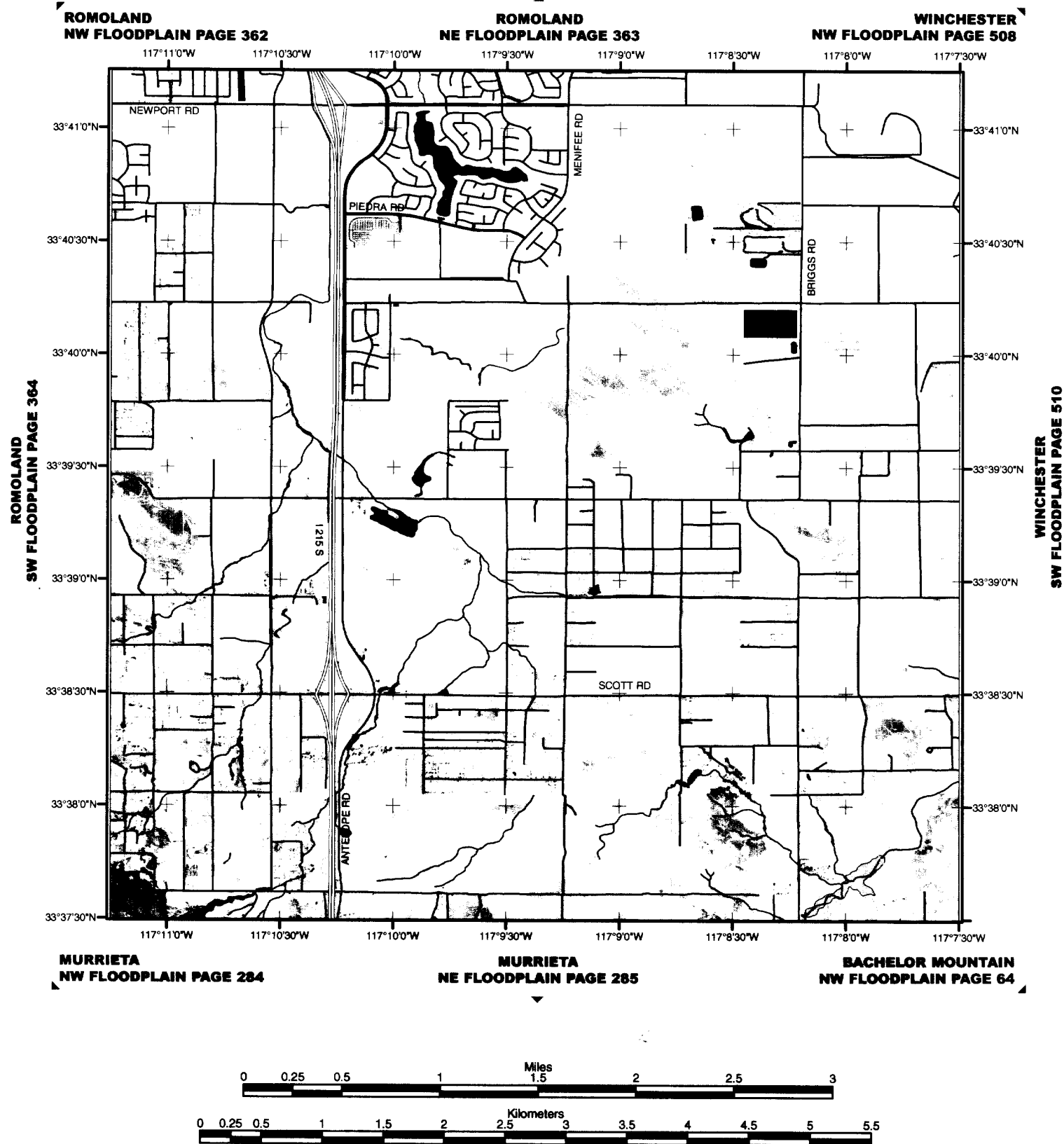
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Romoland South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

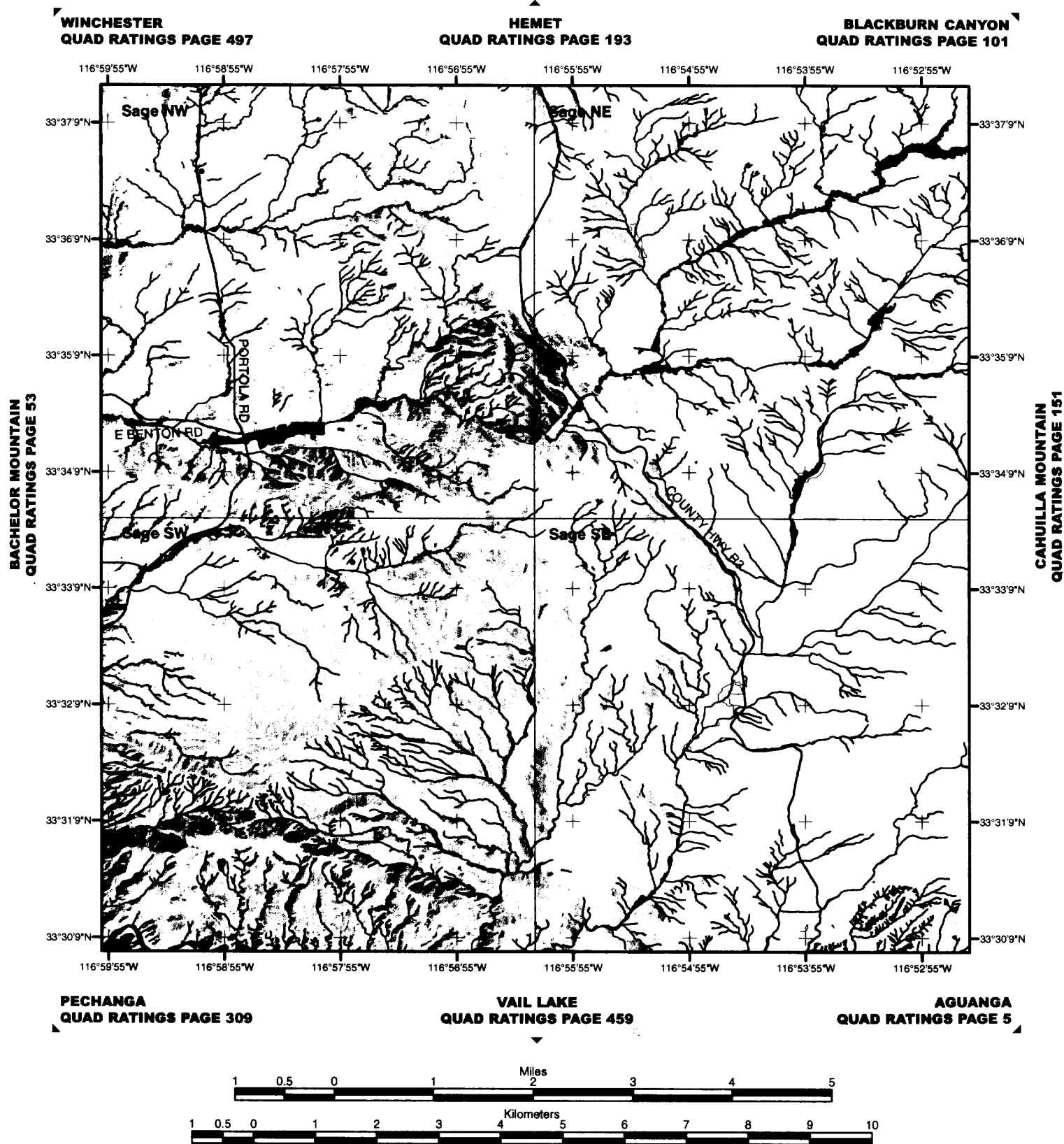


Romoland South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

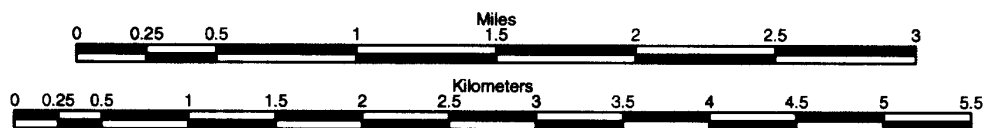
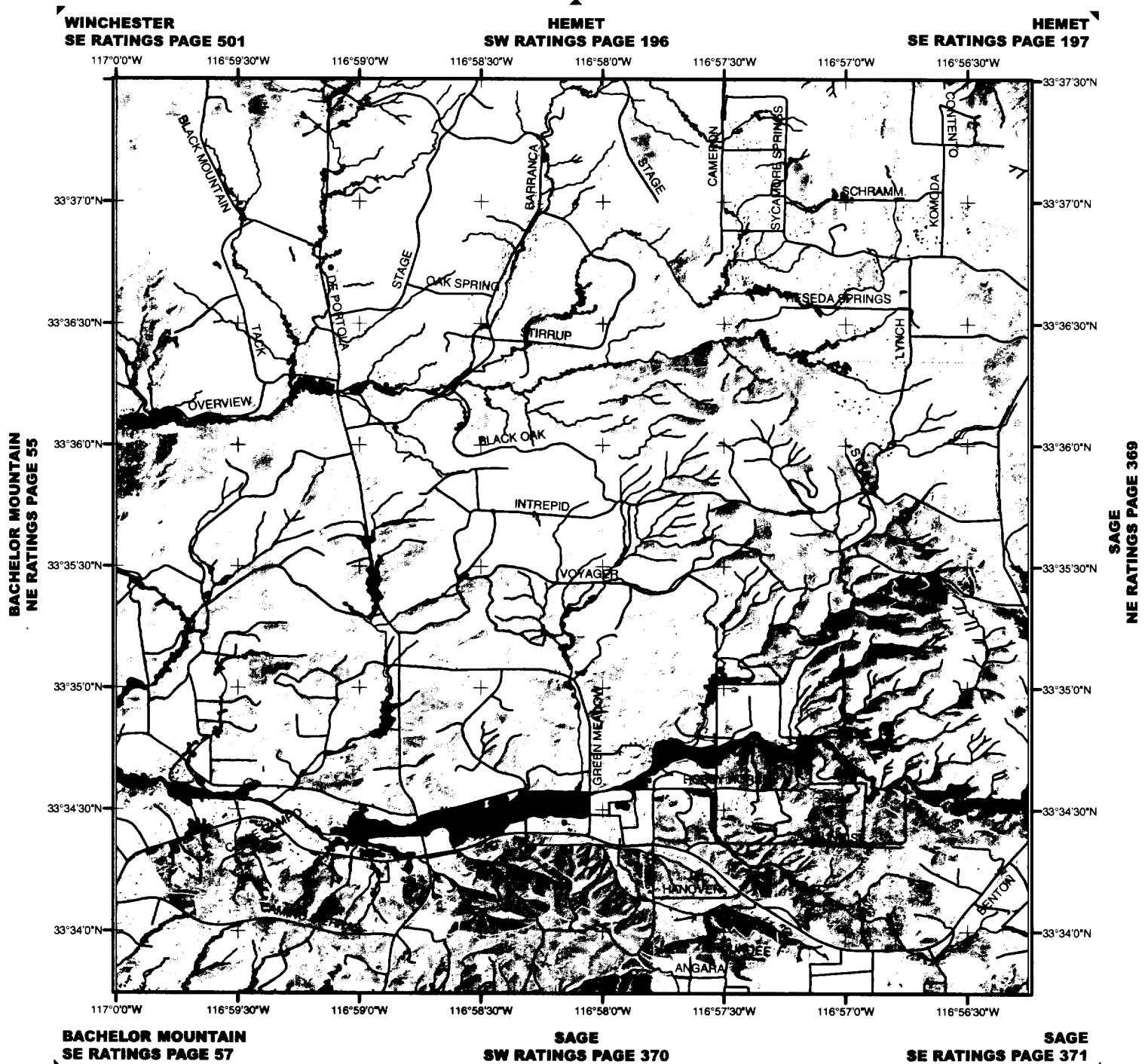


Sage Quadrangle

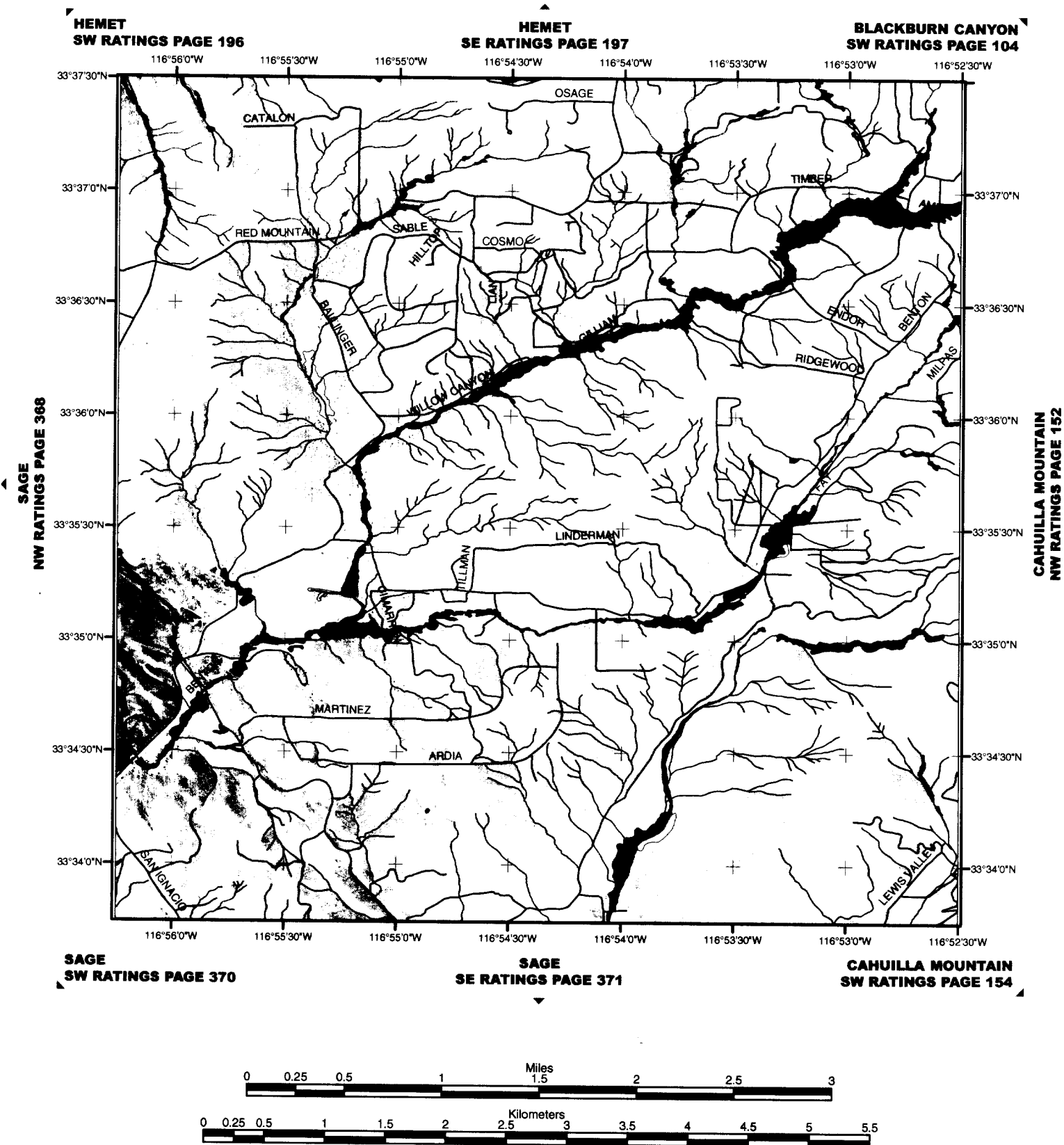
Regulatory Probability Ratings for Aquatic Resources



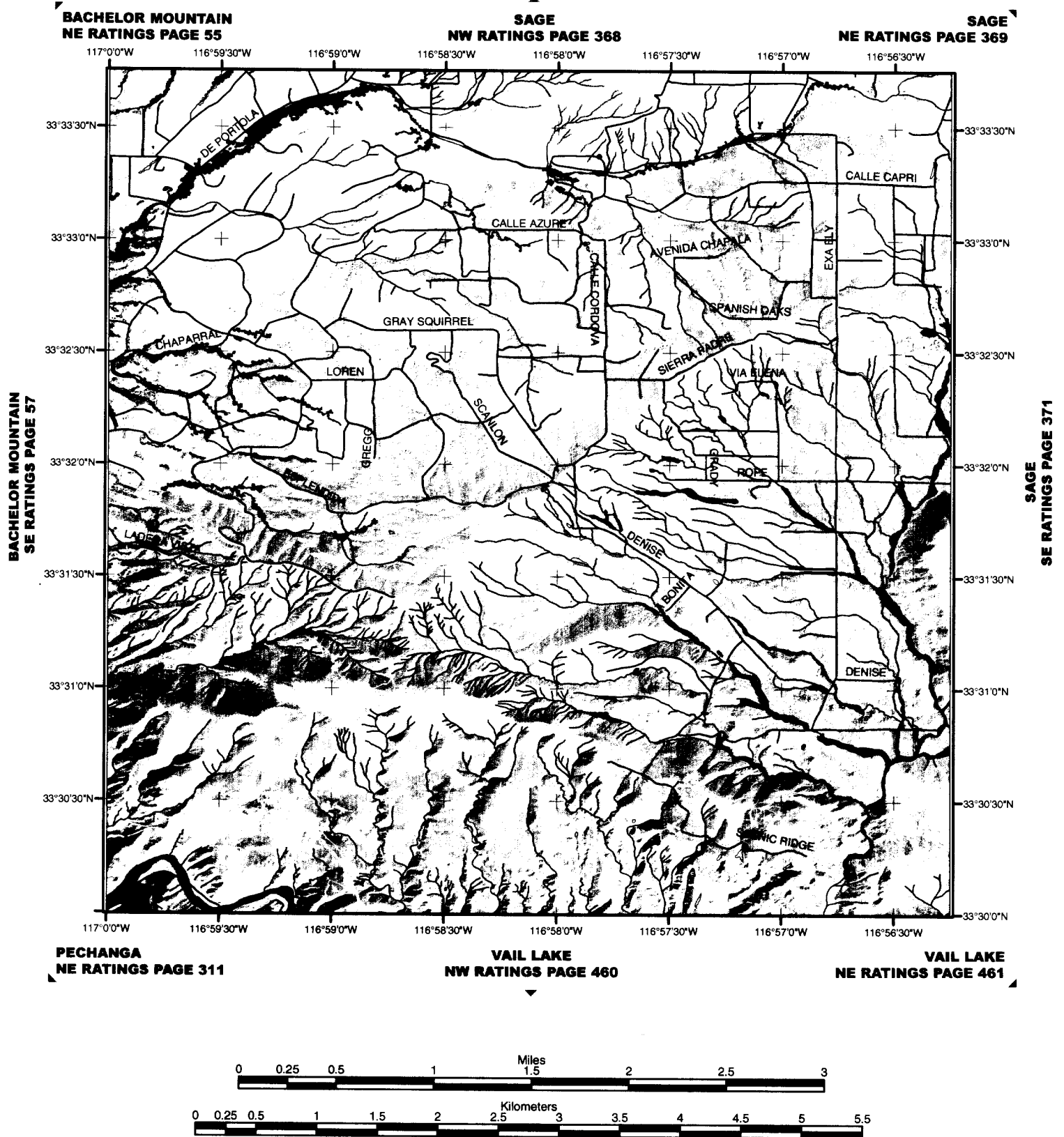
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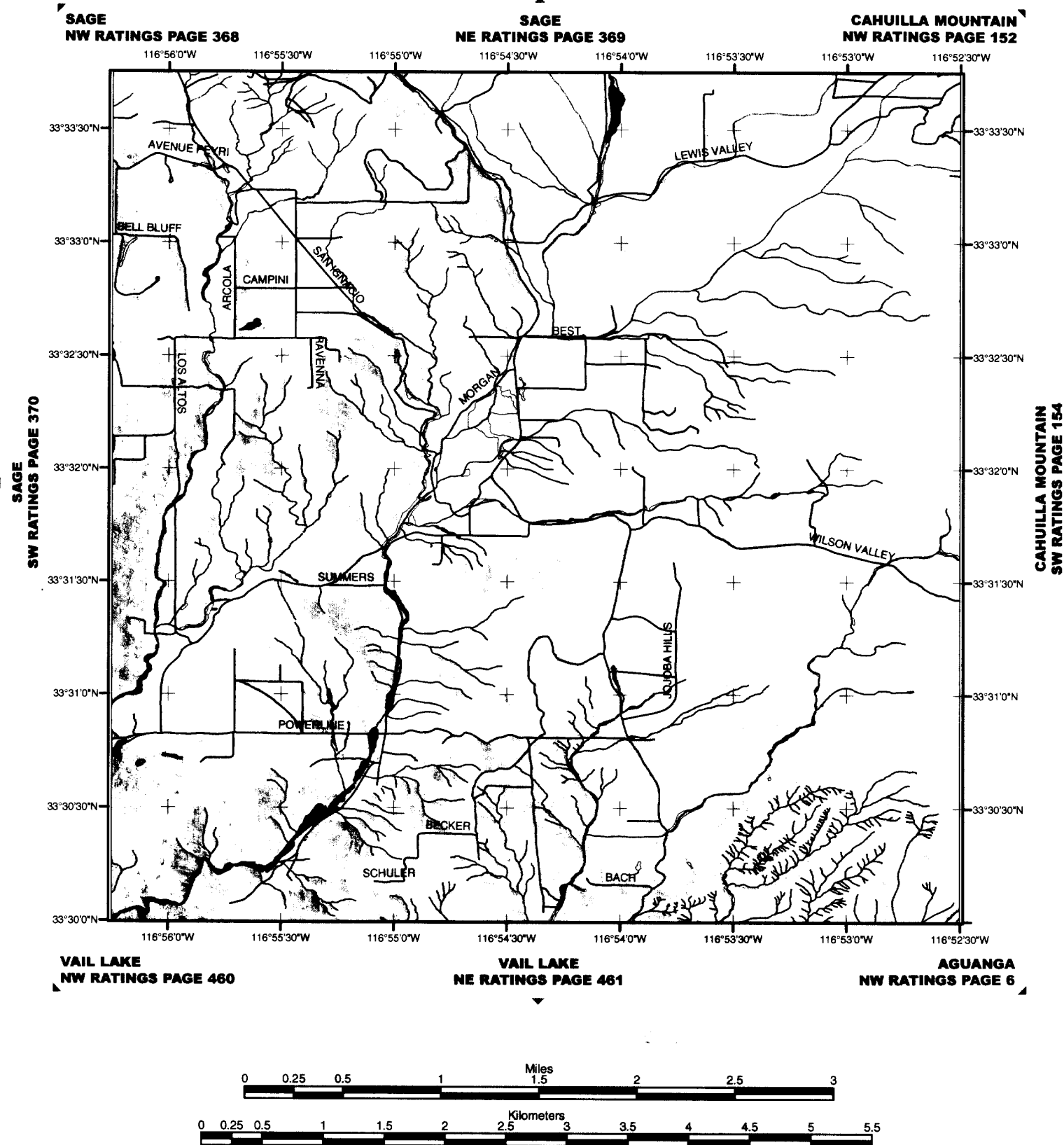
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Sage South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

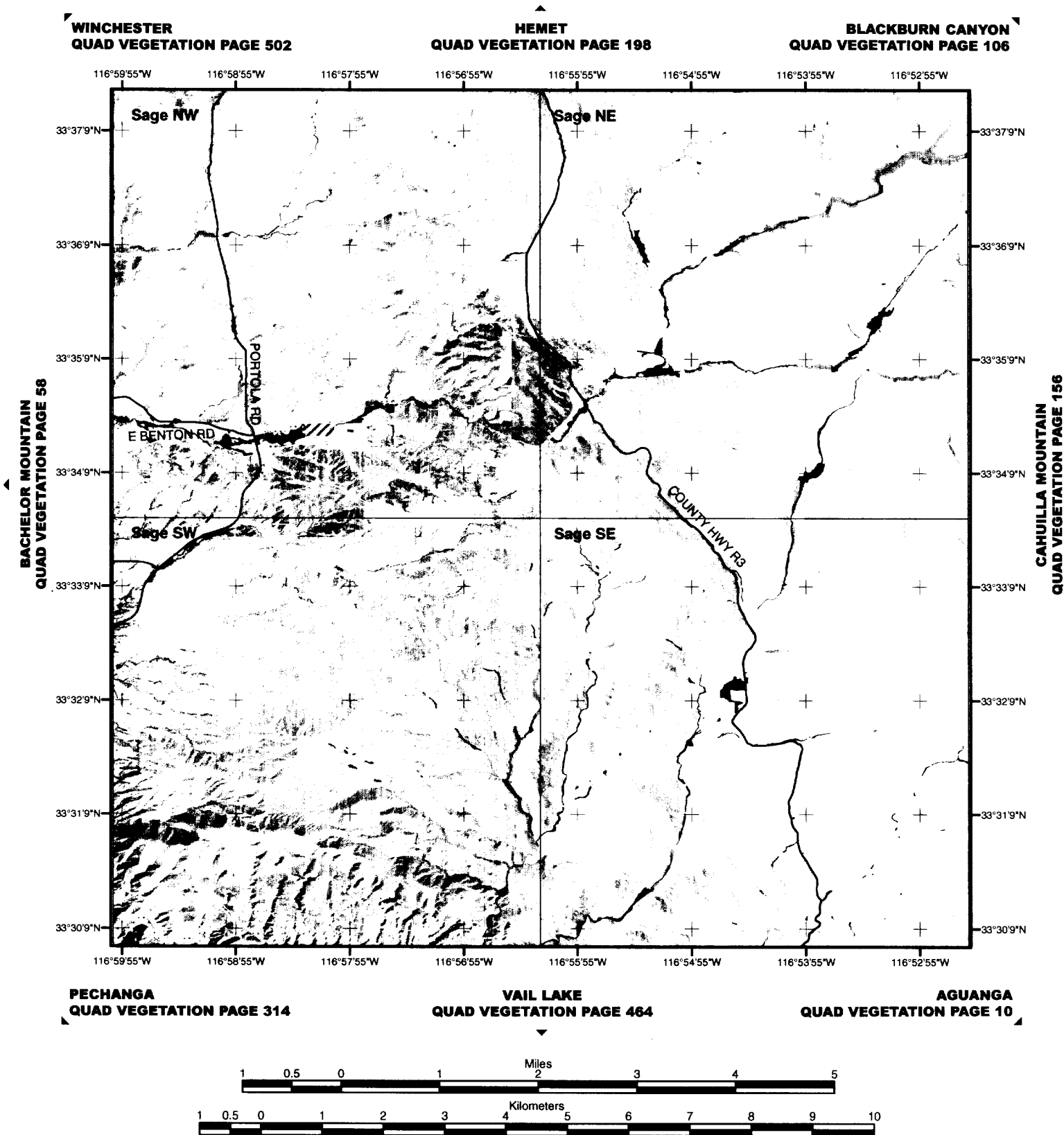


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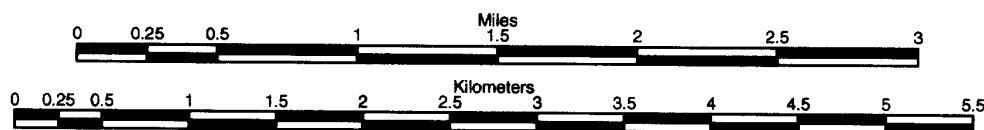
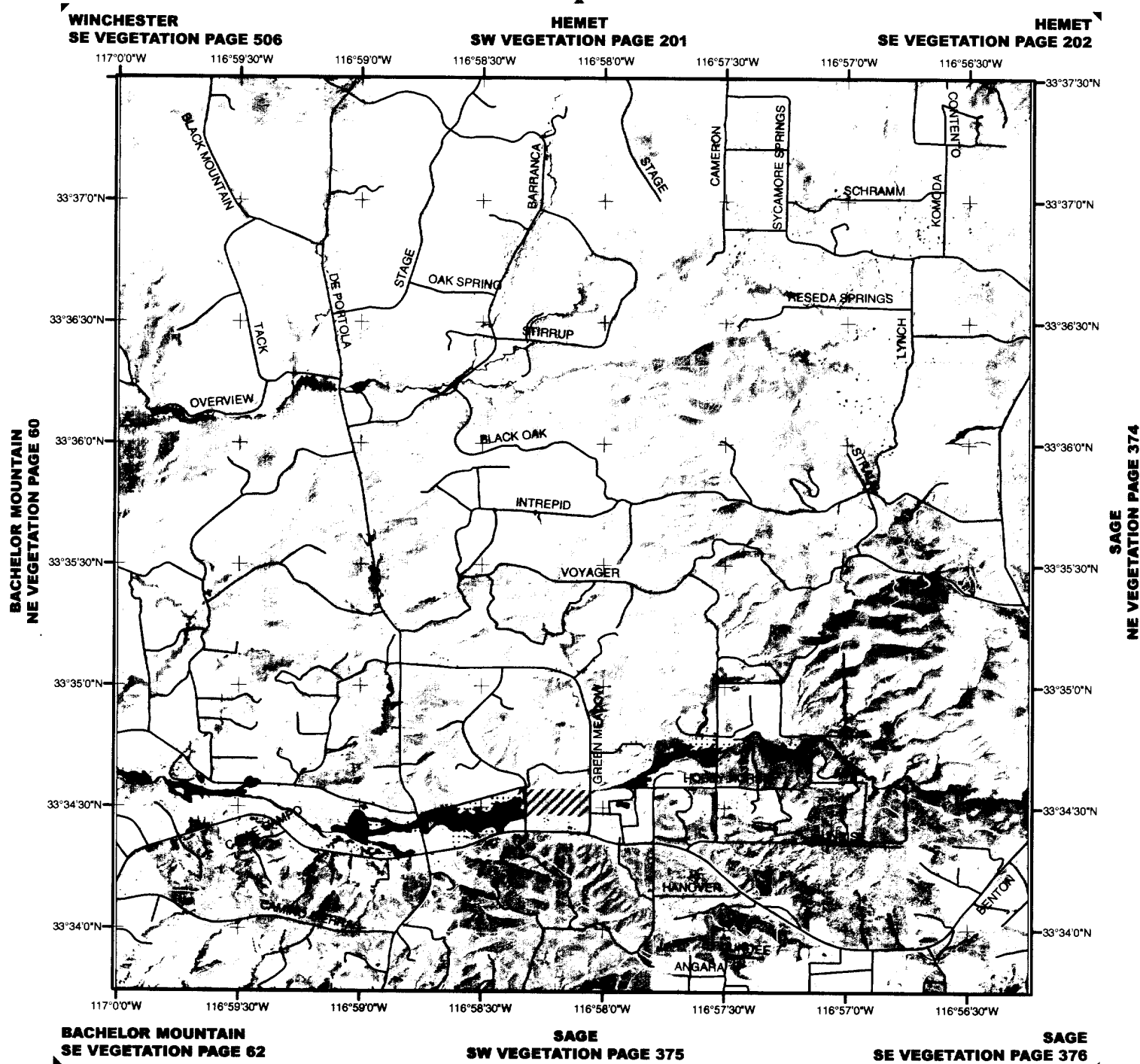
Sage Quadrangle

Vegetation Species Association Units for Aquatic Resources



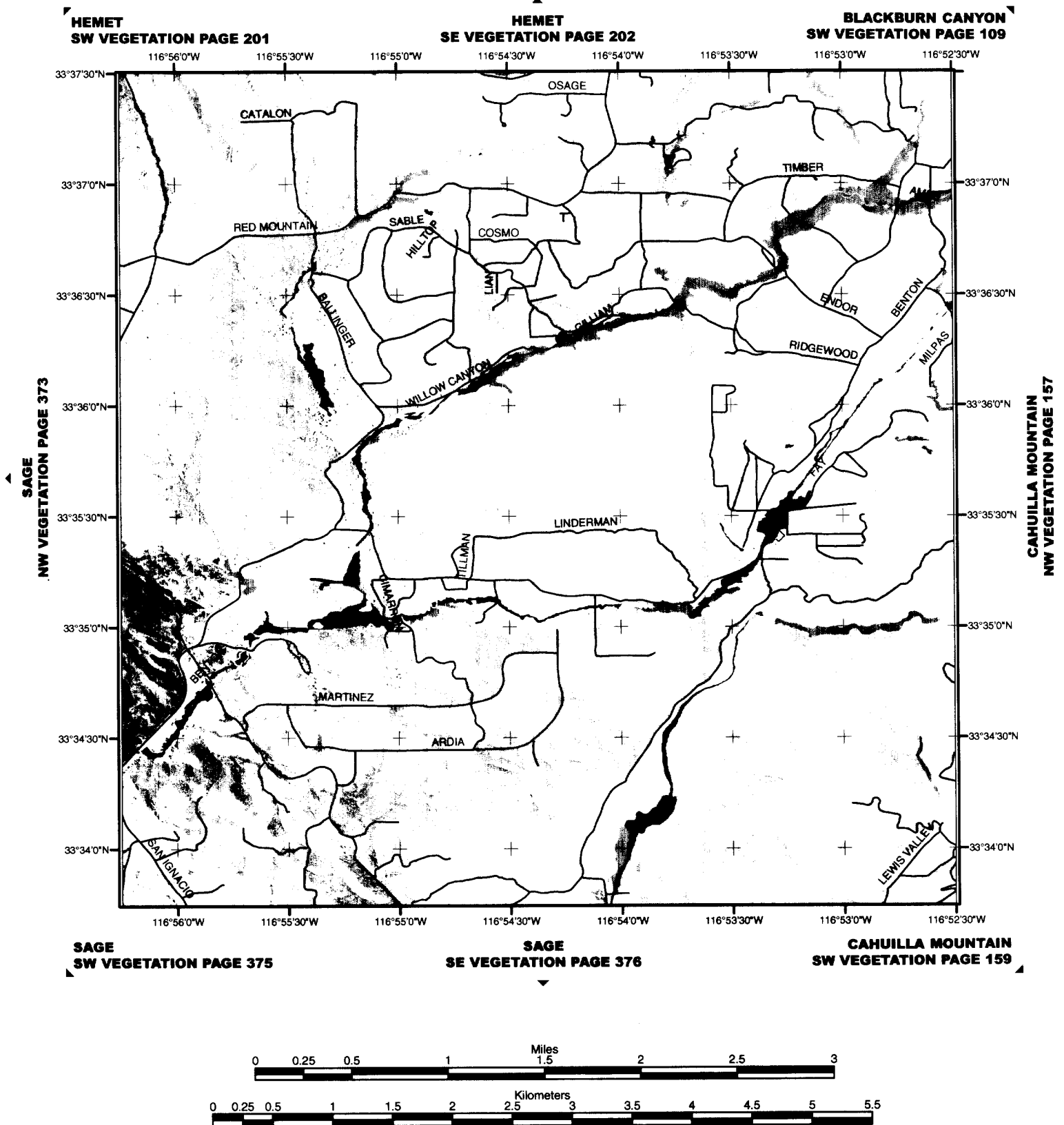
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Vegetation Species Association Units for Aquatic Resources

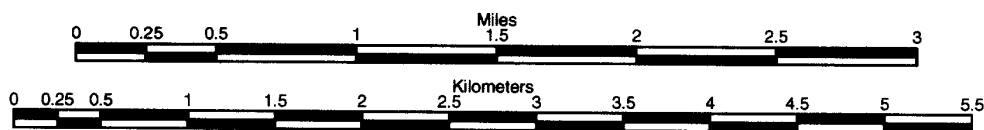
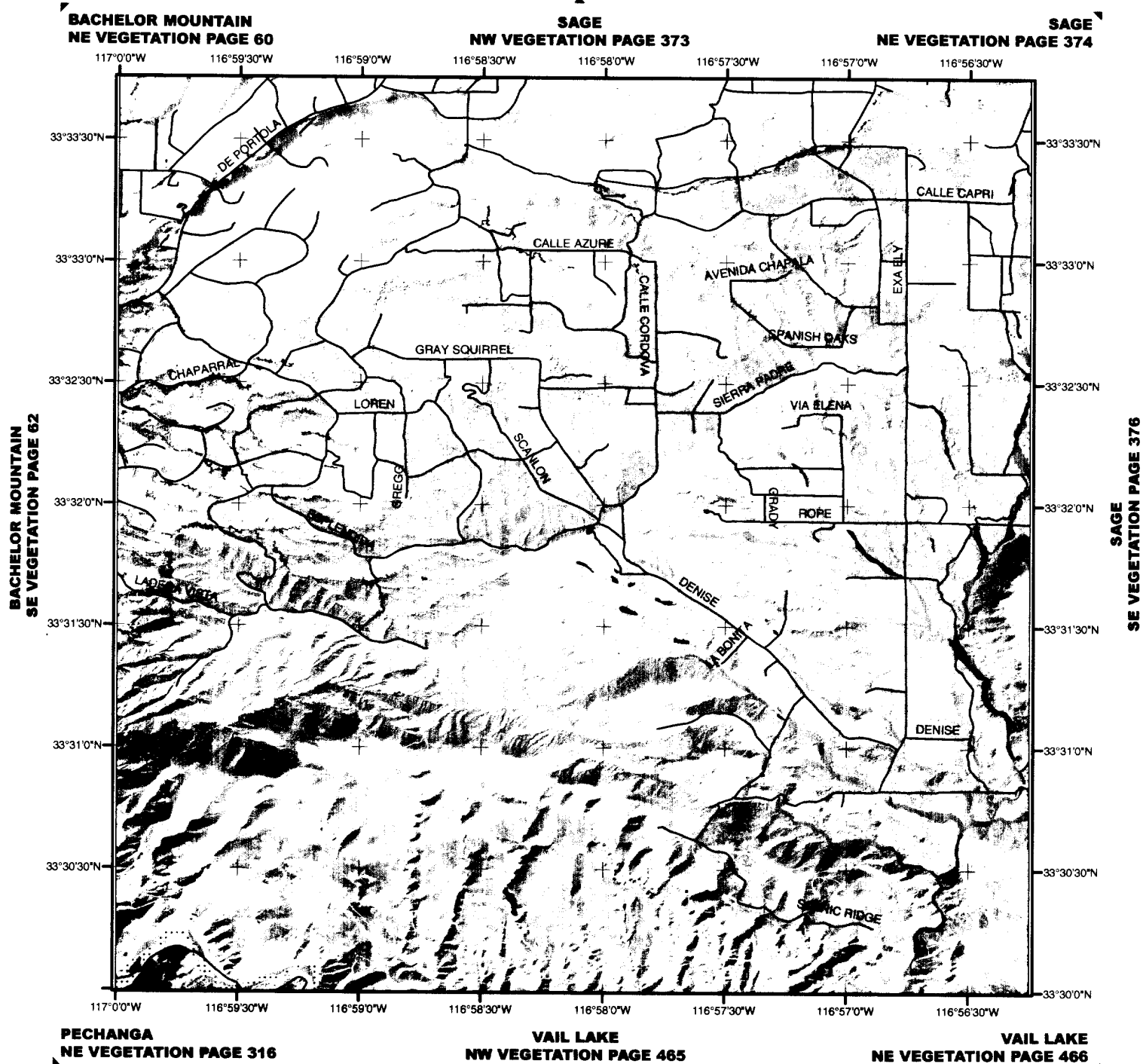


Sage North East Quarter-Quadrangle

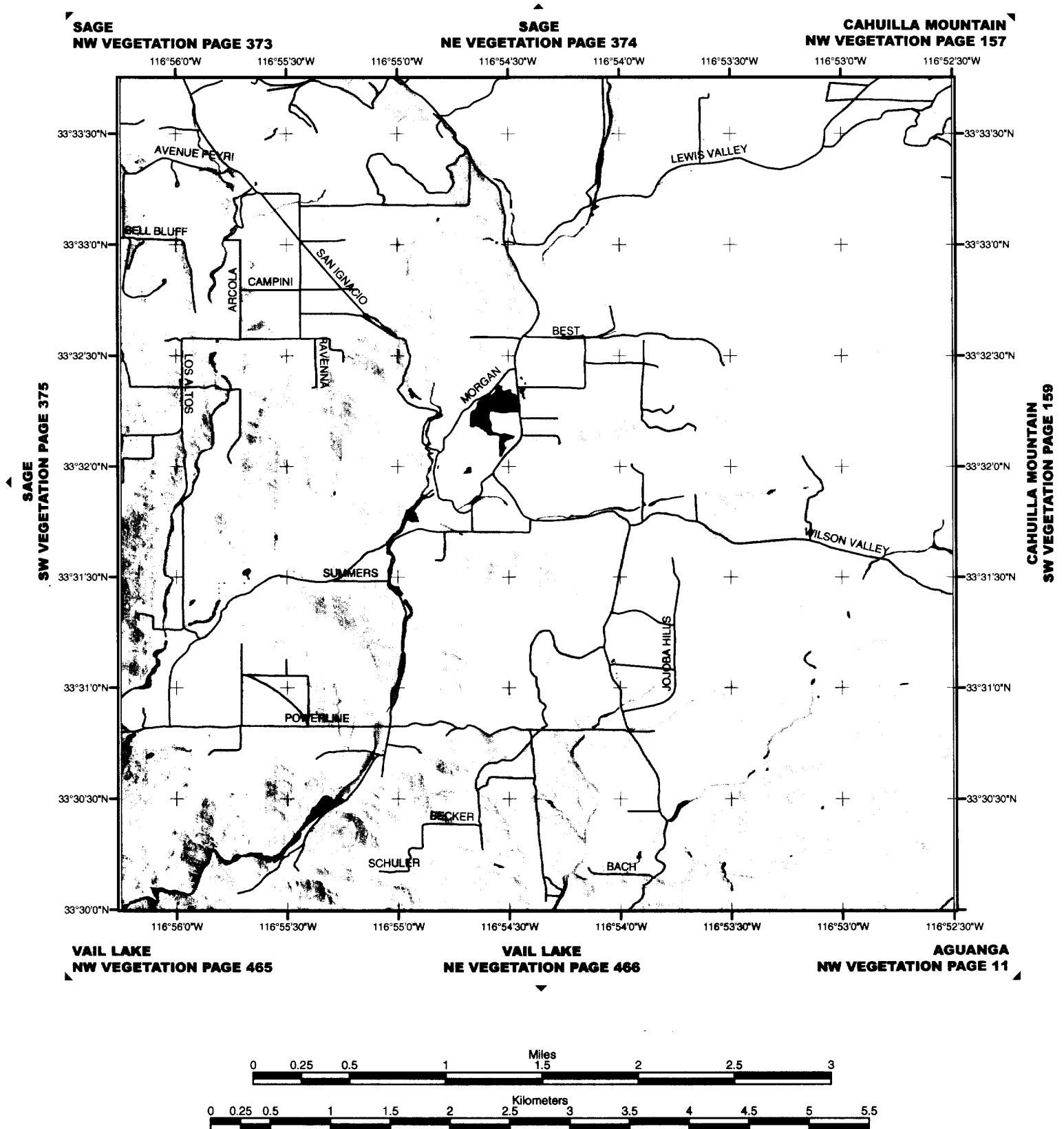
Vegetation Species Association Units for Aquatic Resources



Sage South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

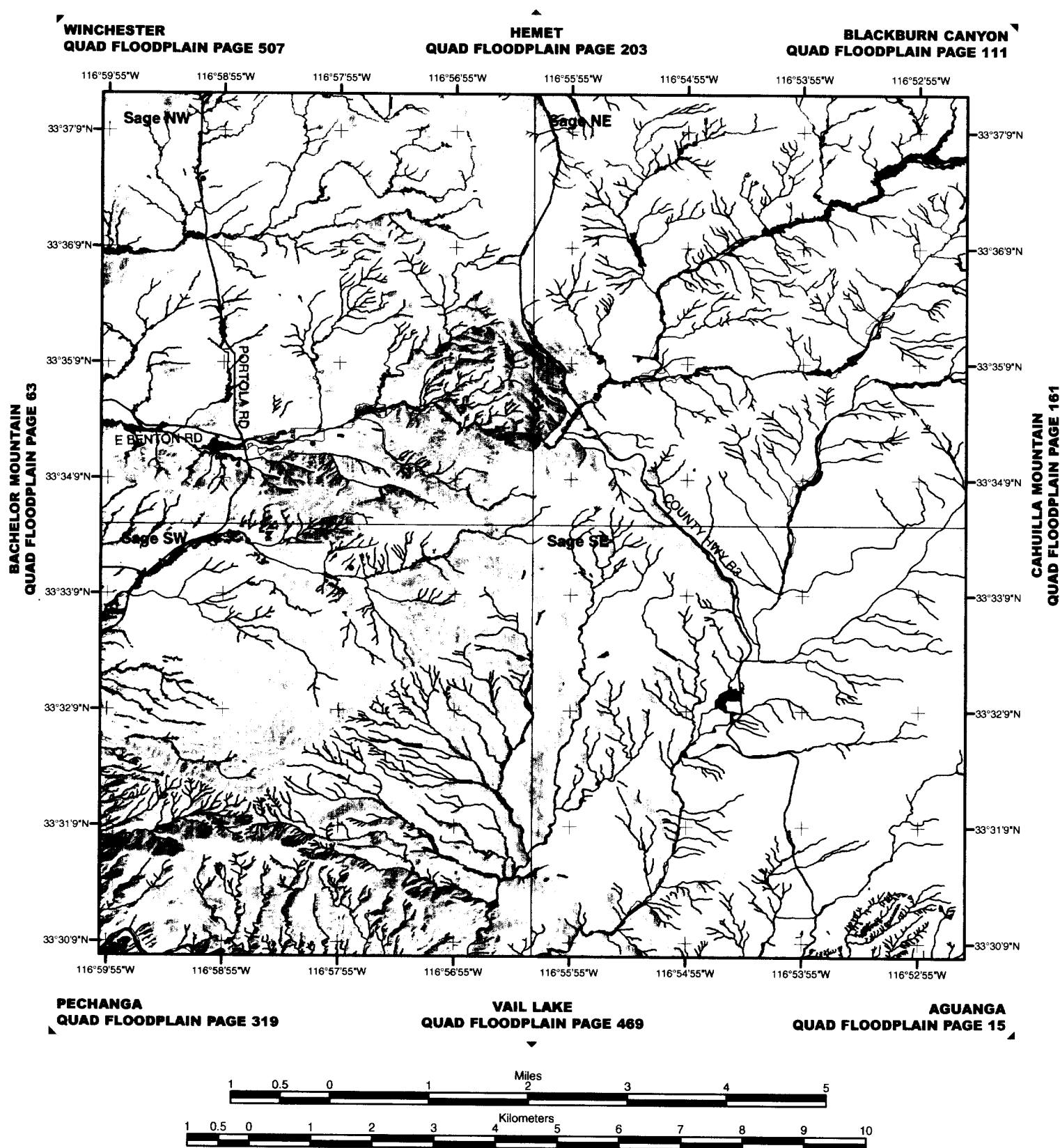


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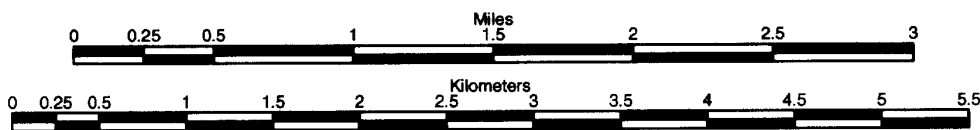
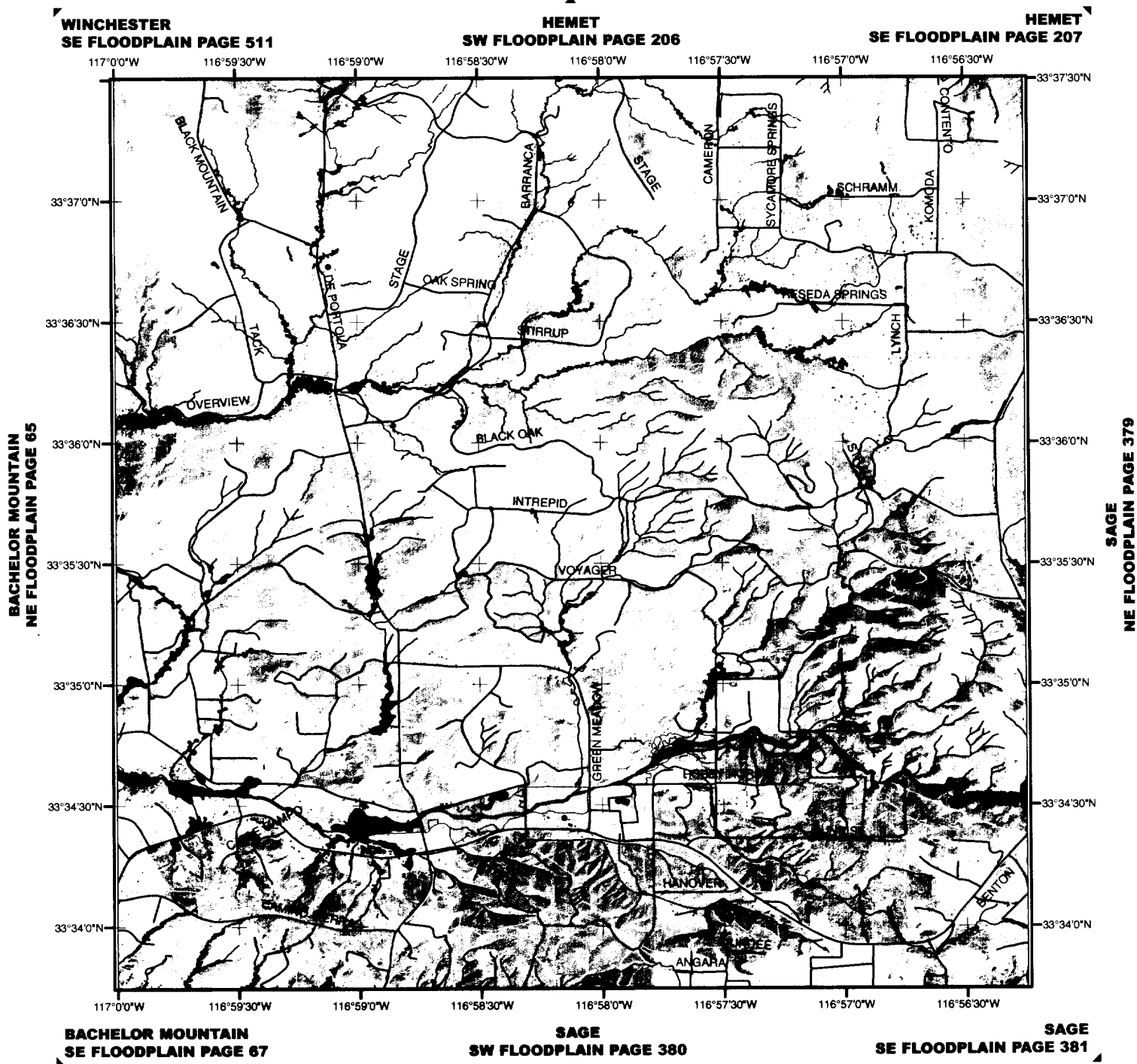


Sage Quadrangle

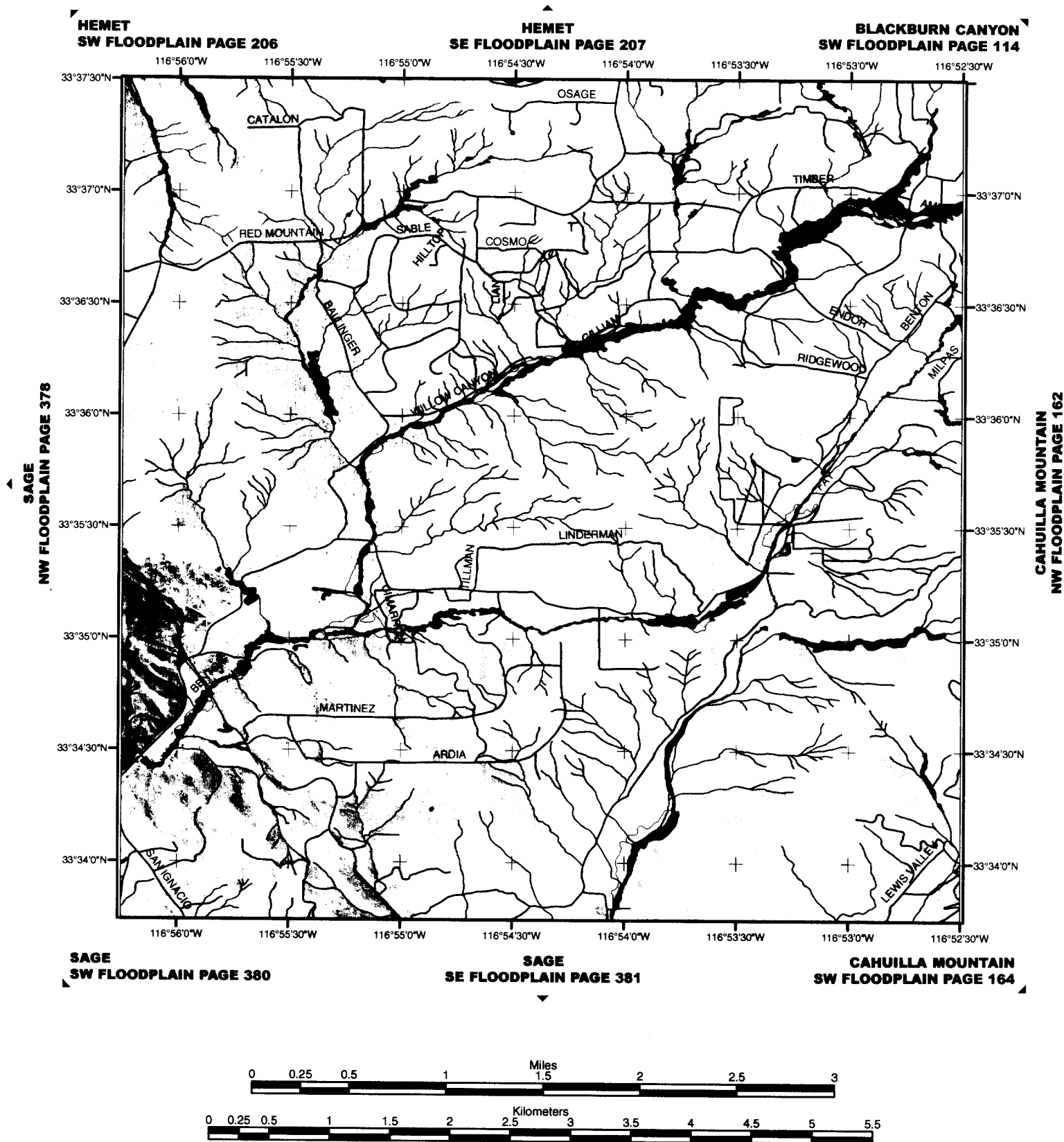
Hydrogeomorphic Floodplain Units for Aquatic Resources



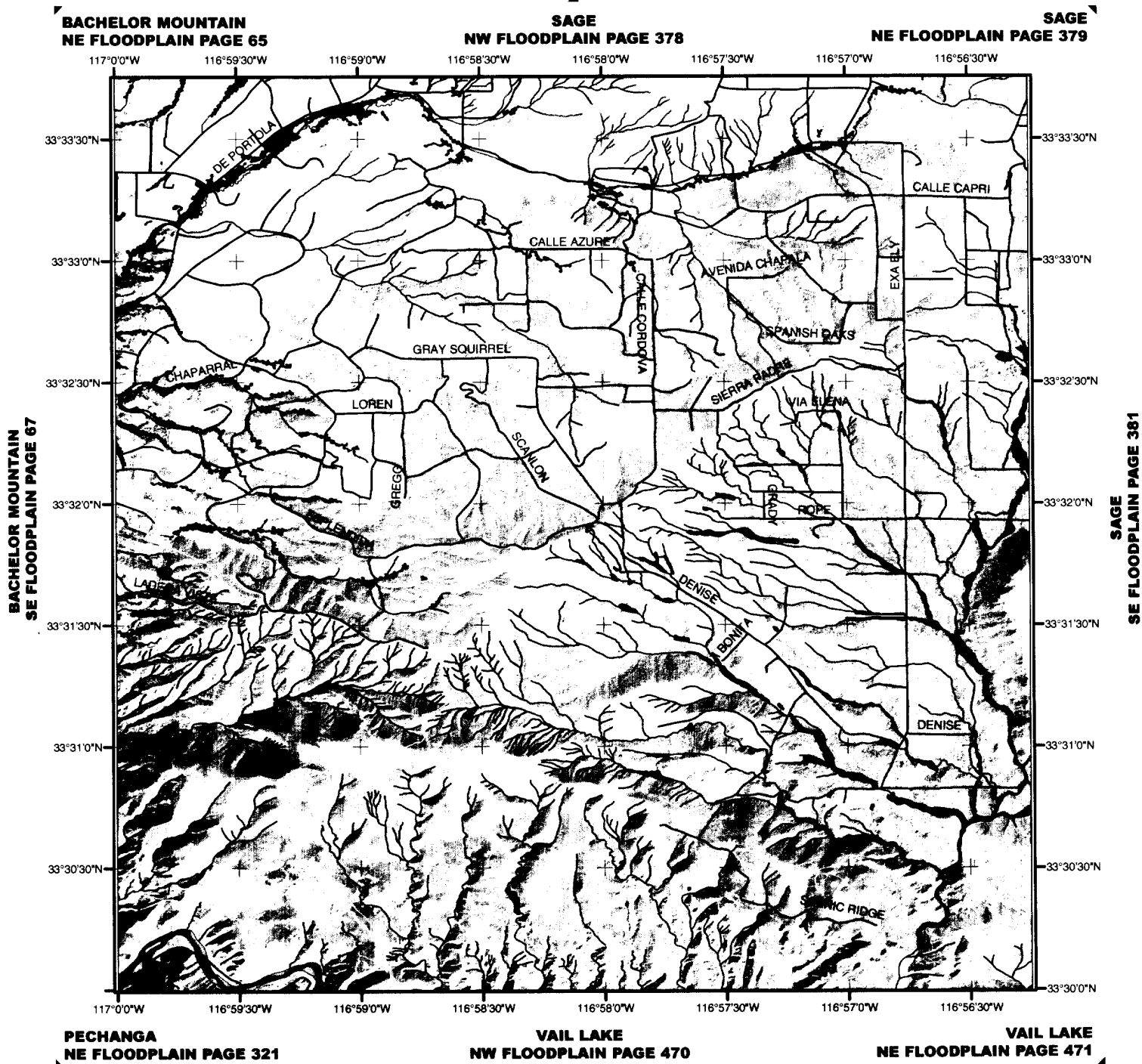
Sage North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



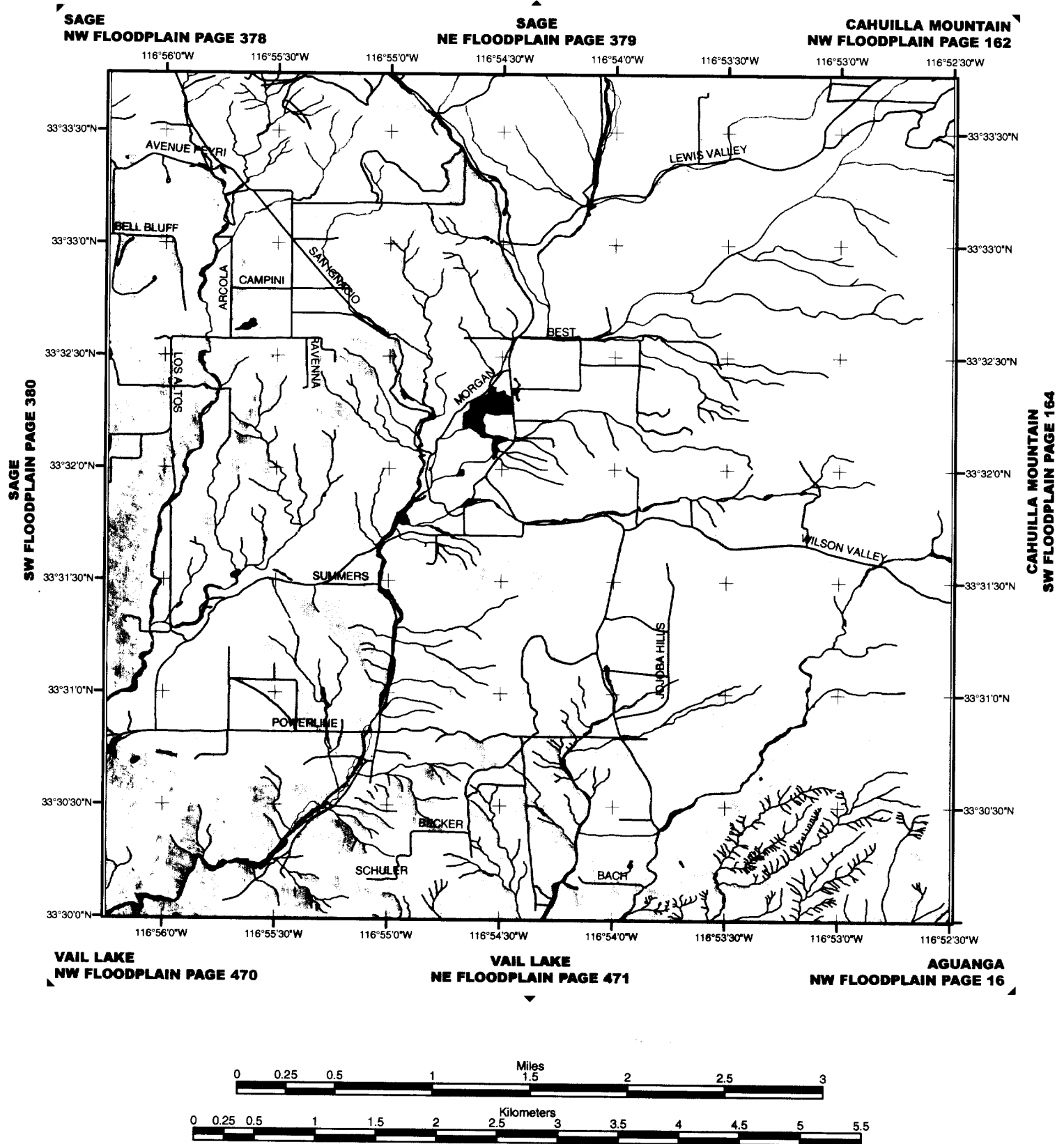
Sage North East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



Sage South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

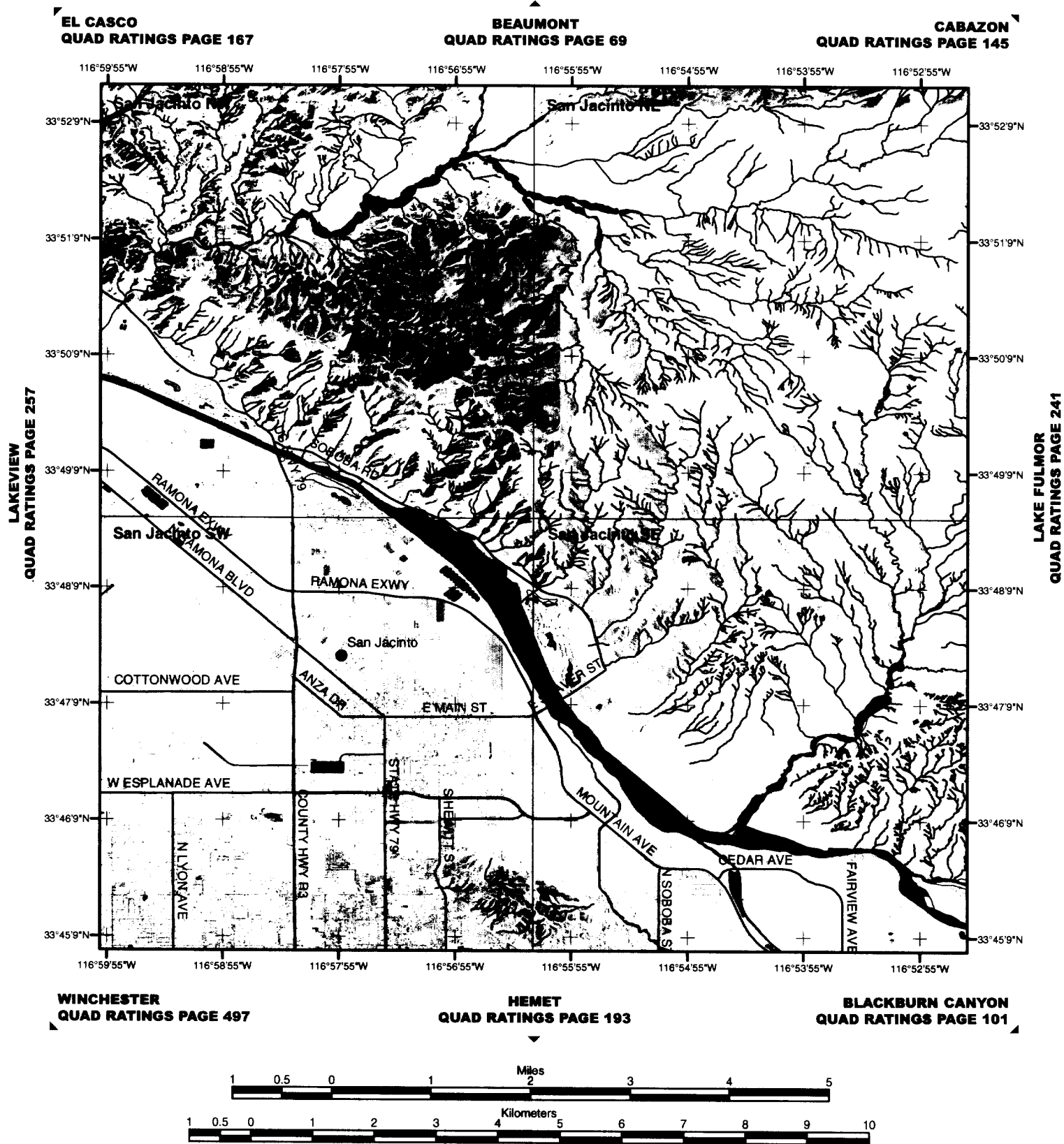


Sage South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

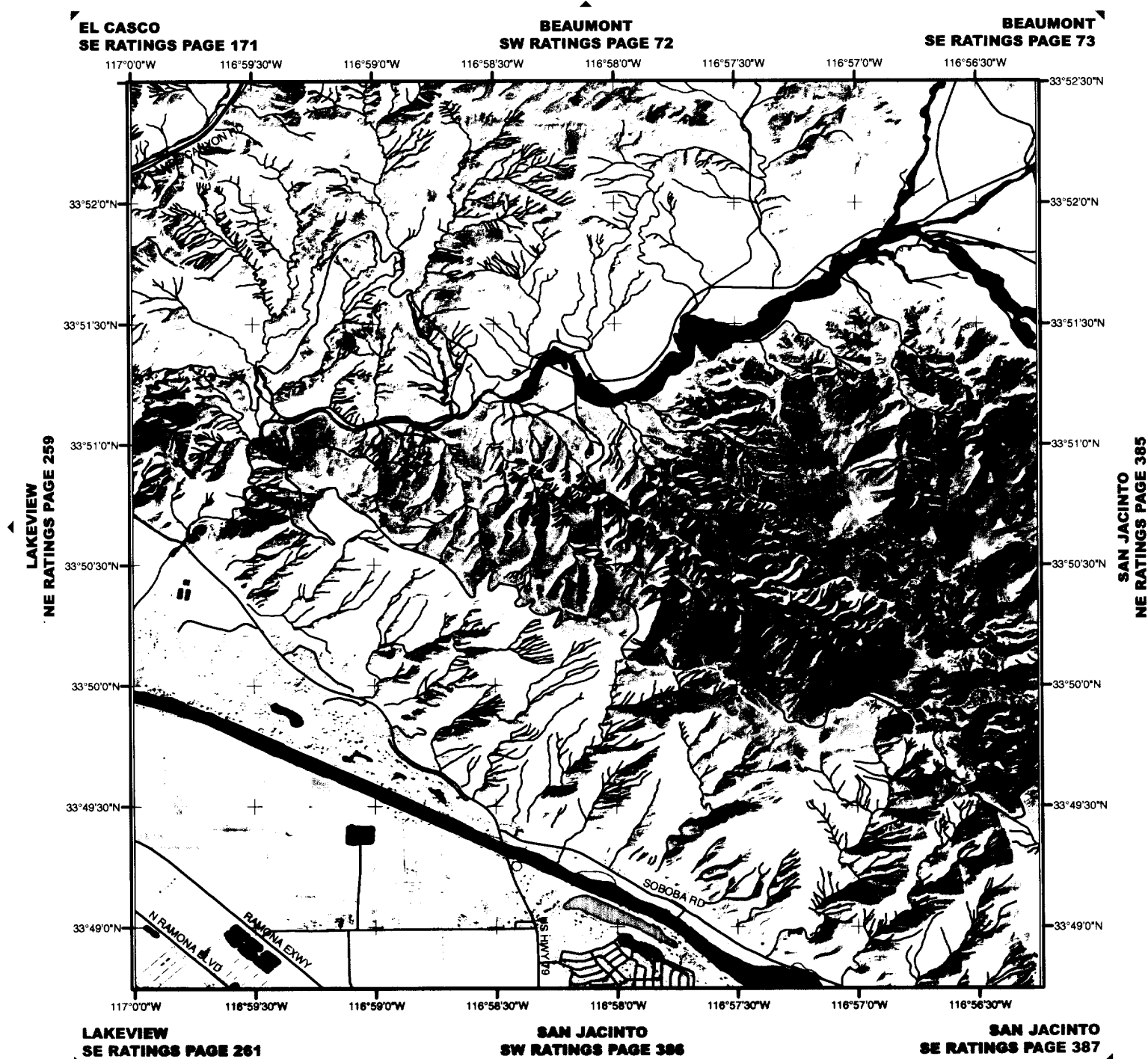


San Jacinto Quadrangle

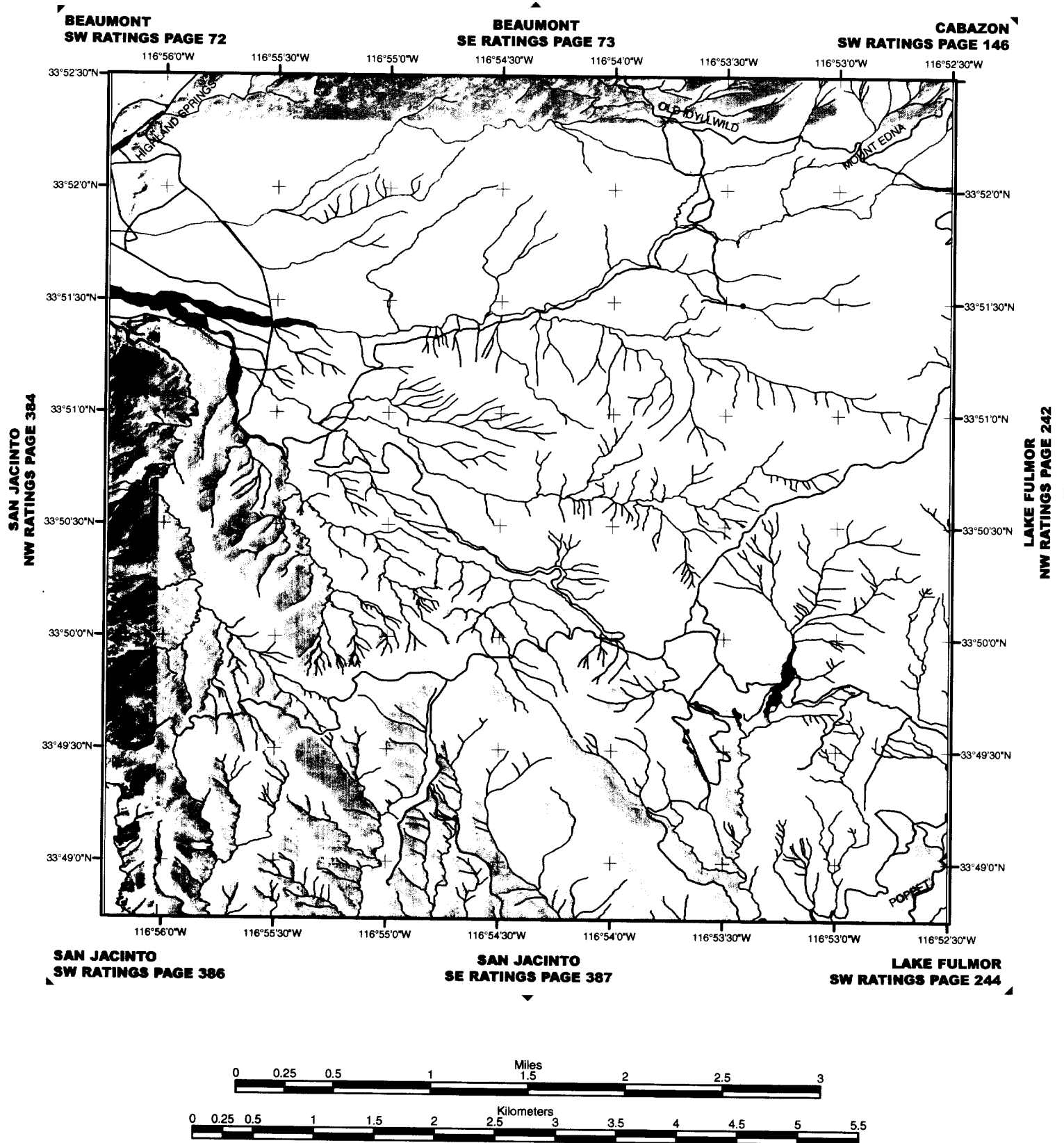
Regulatory Probability Ratings for Aquatic Resources



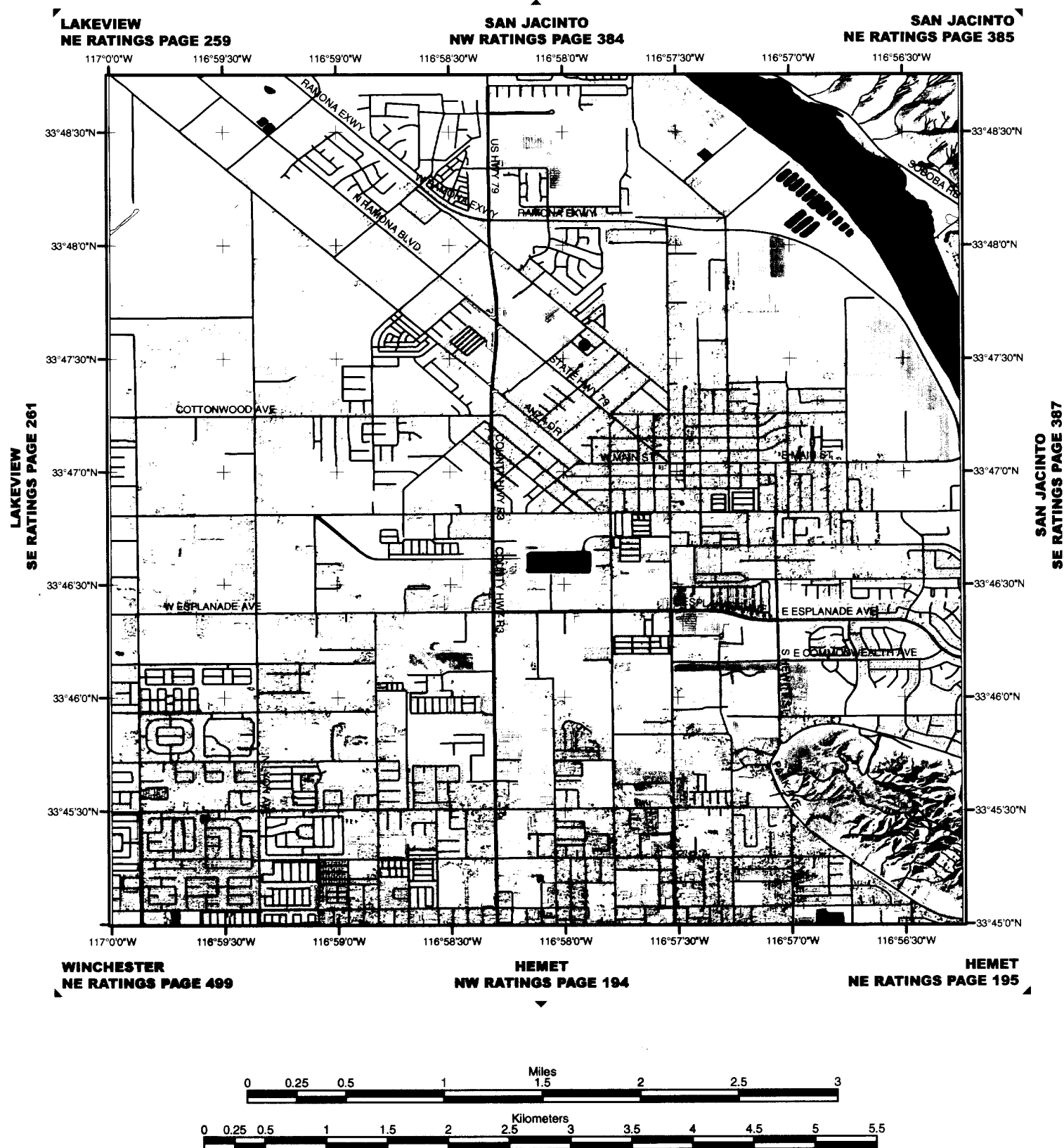
San Jacinto North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



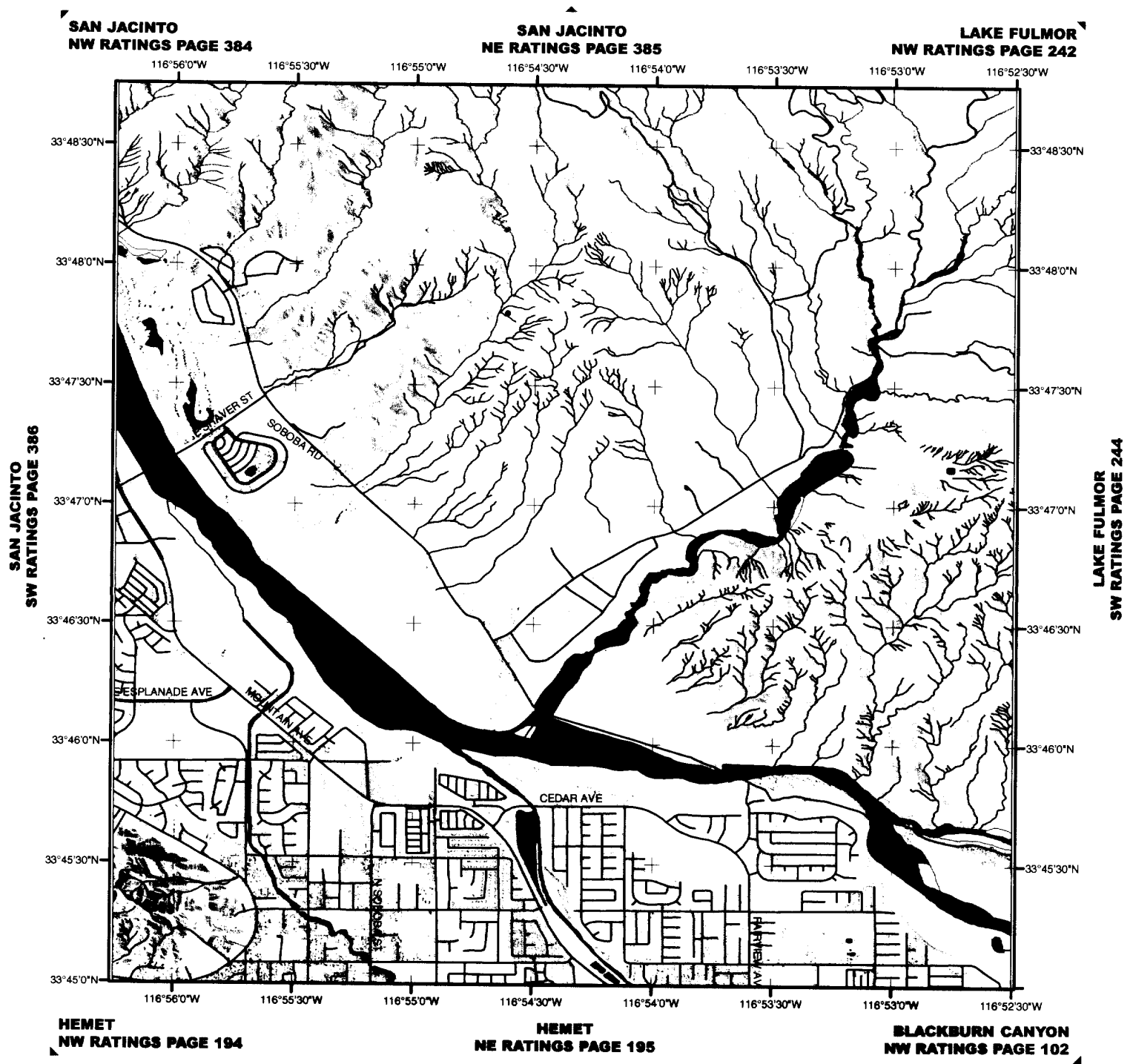
San Jacinto North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



San Jacinto South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

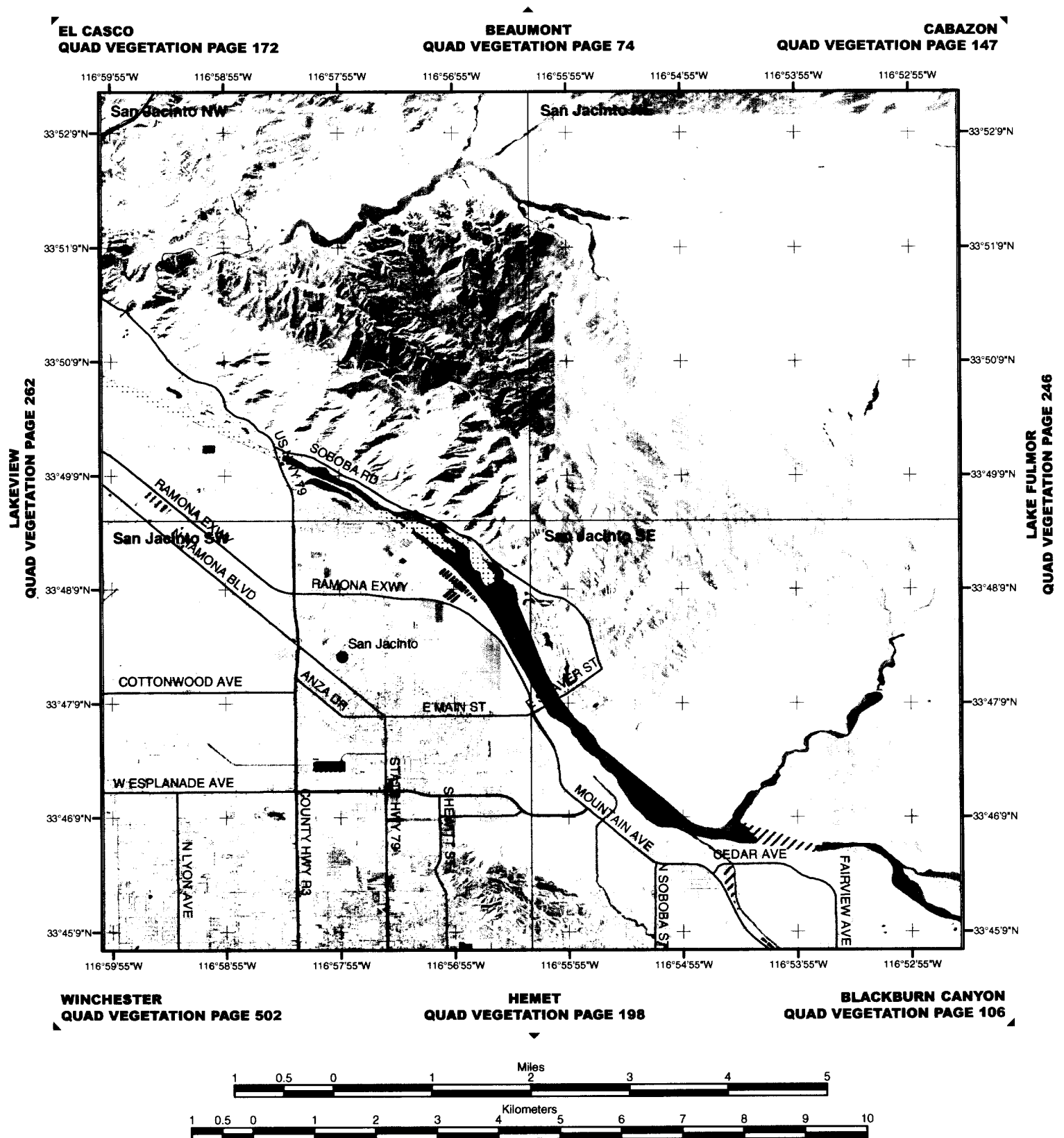


San Jacinto South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

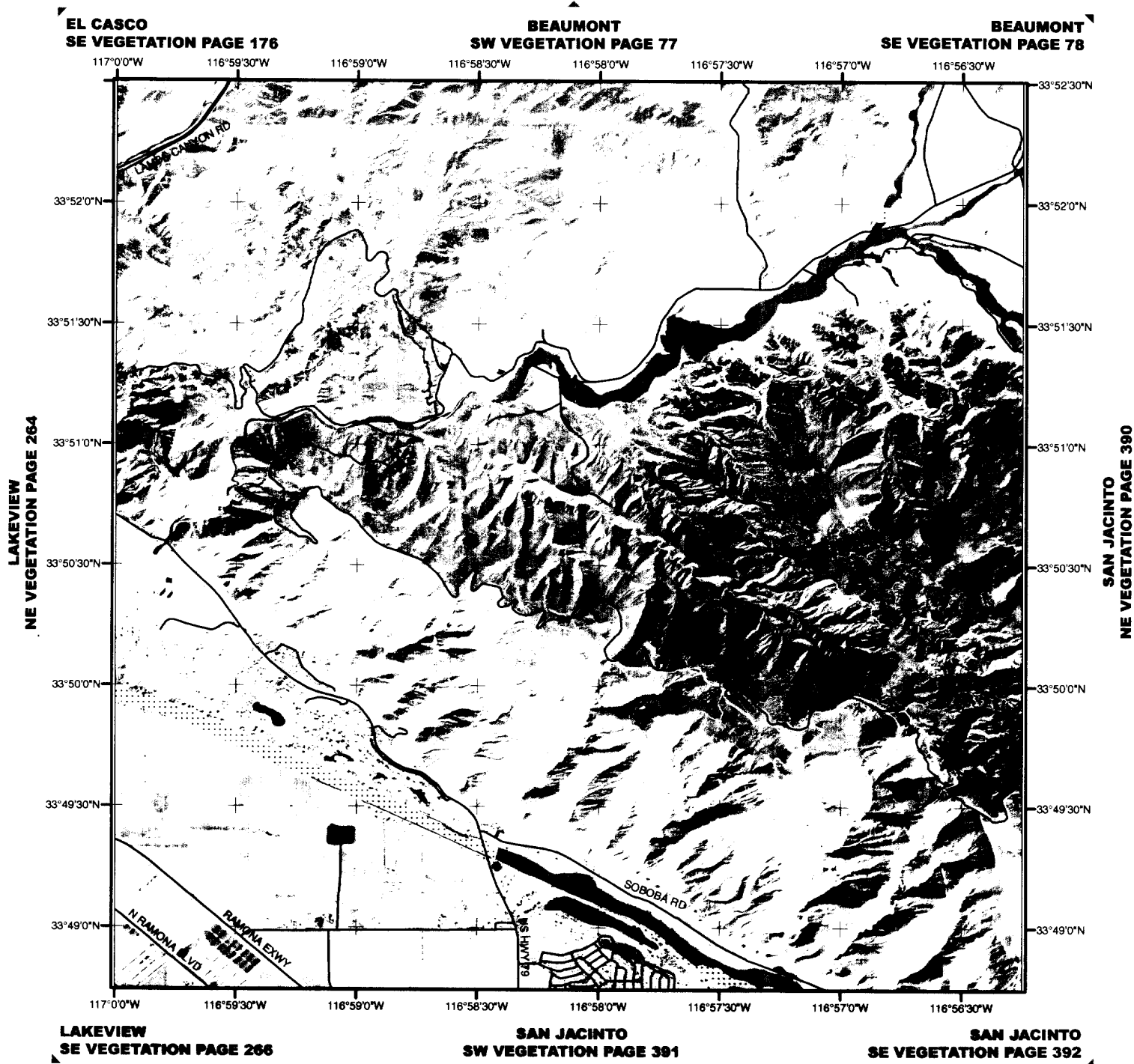


San Jacinto Quadrangle

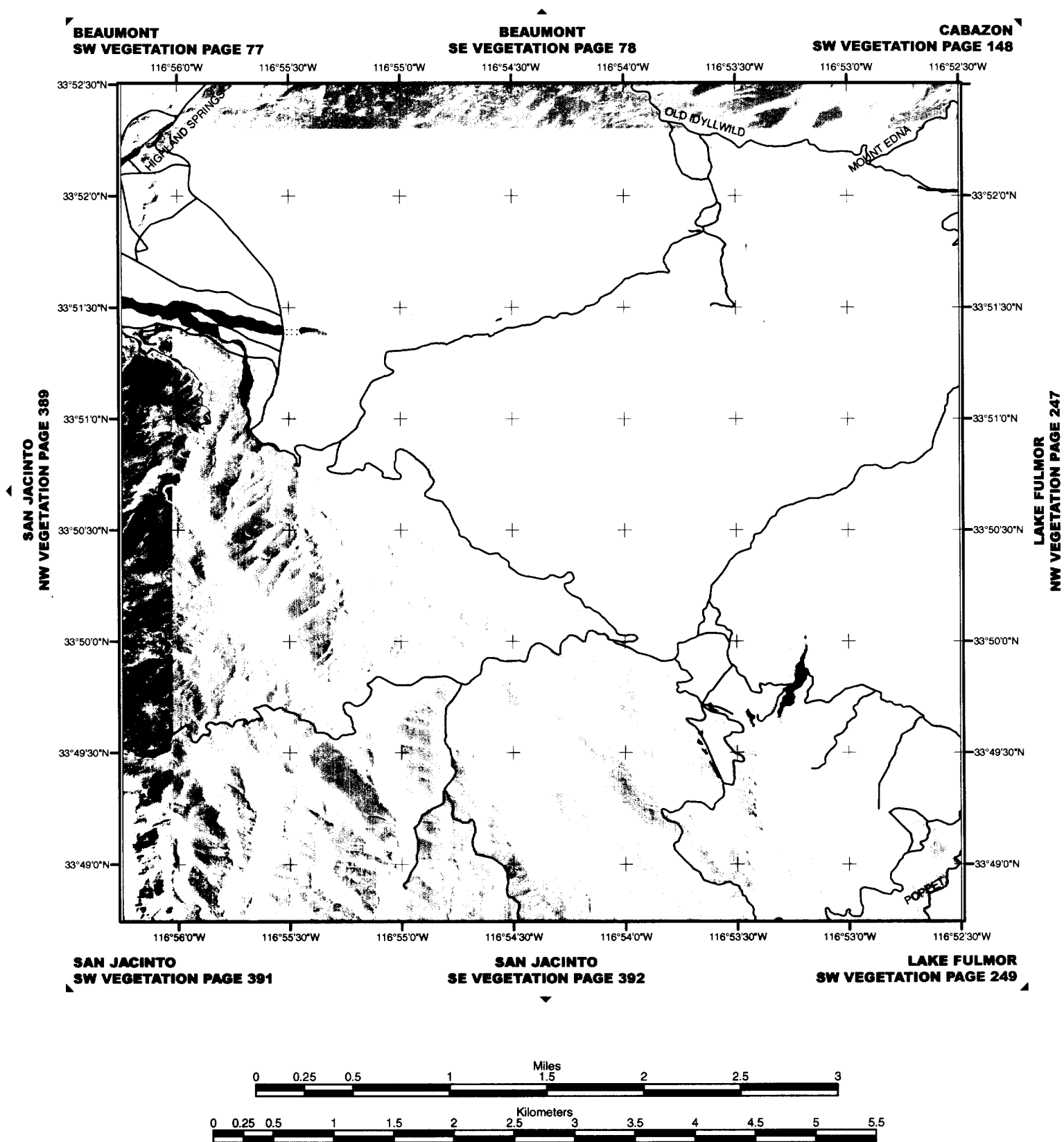
Vegetation Species Association Units for Aquatic Resources



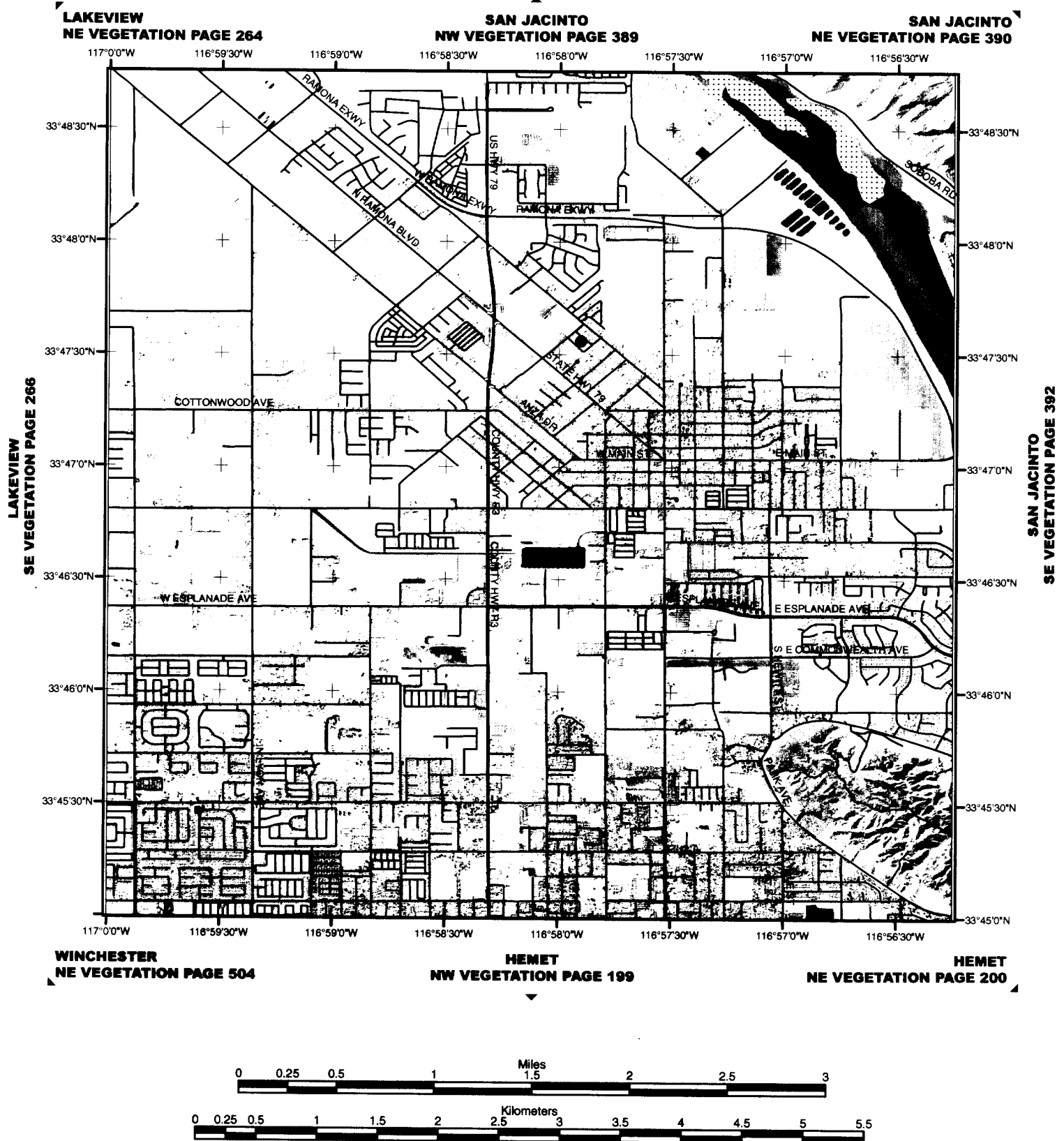
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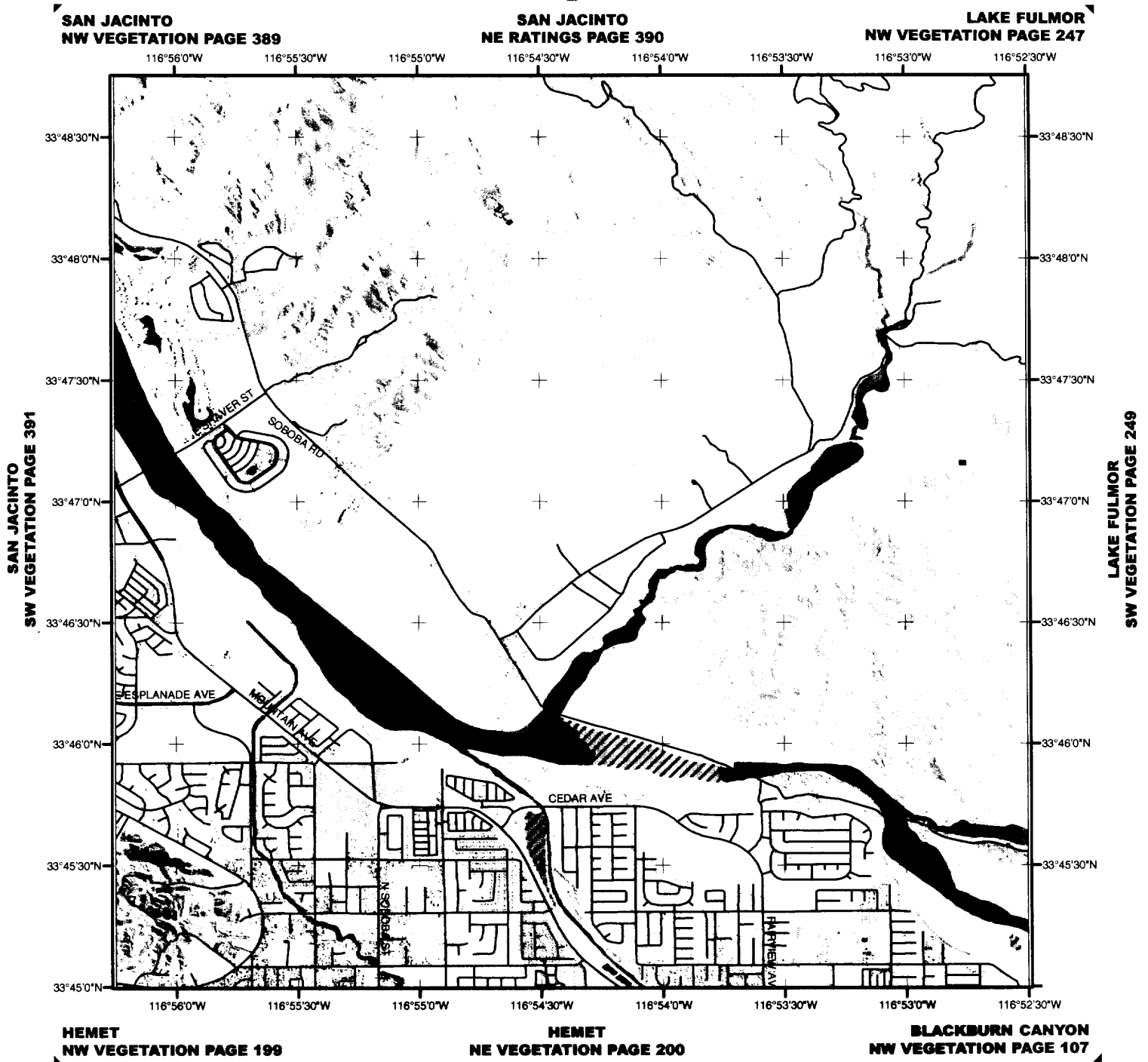
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San Jacinto South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

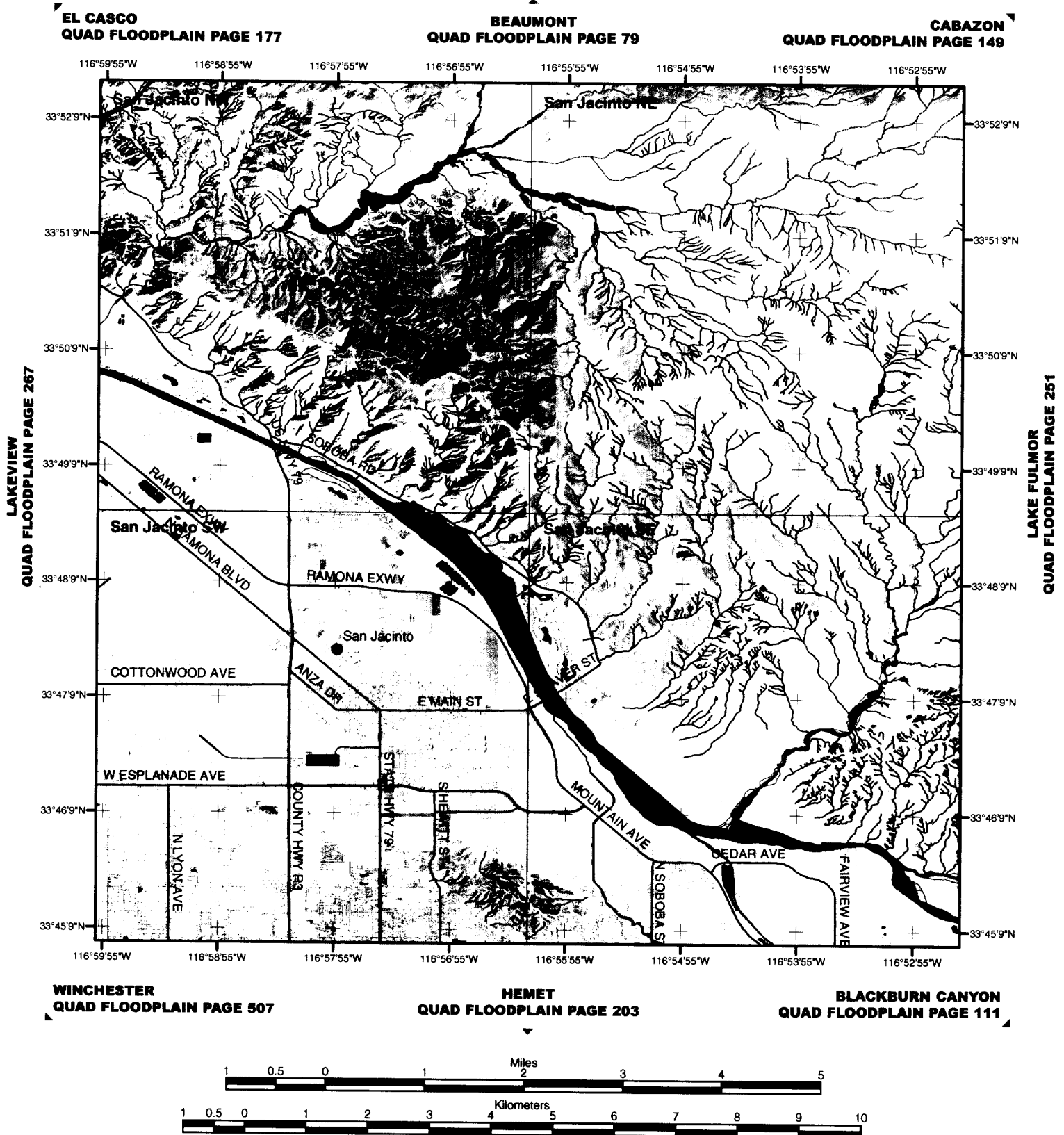


San Jacinto South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

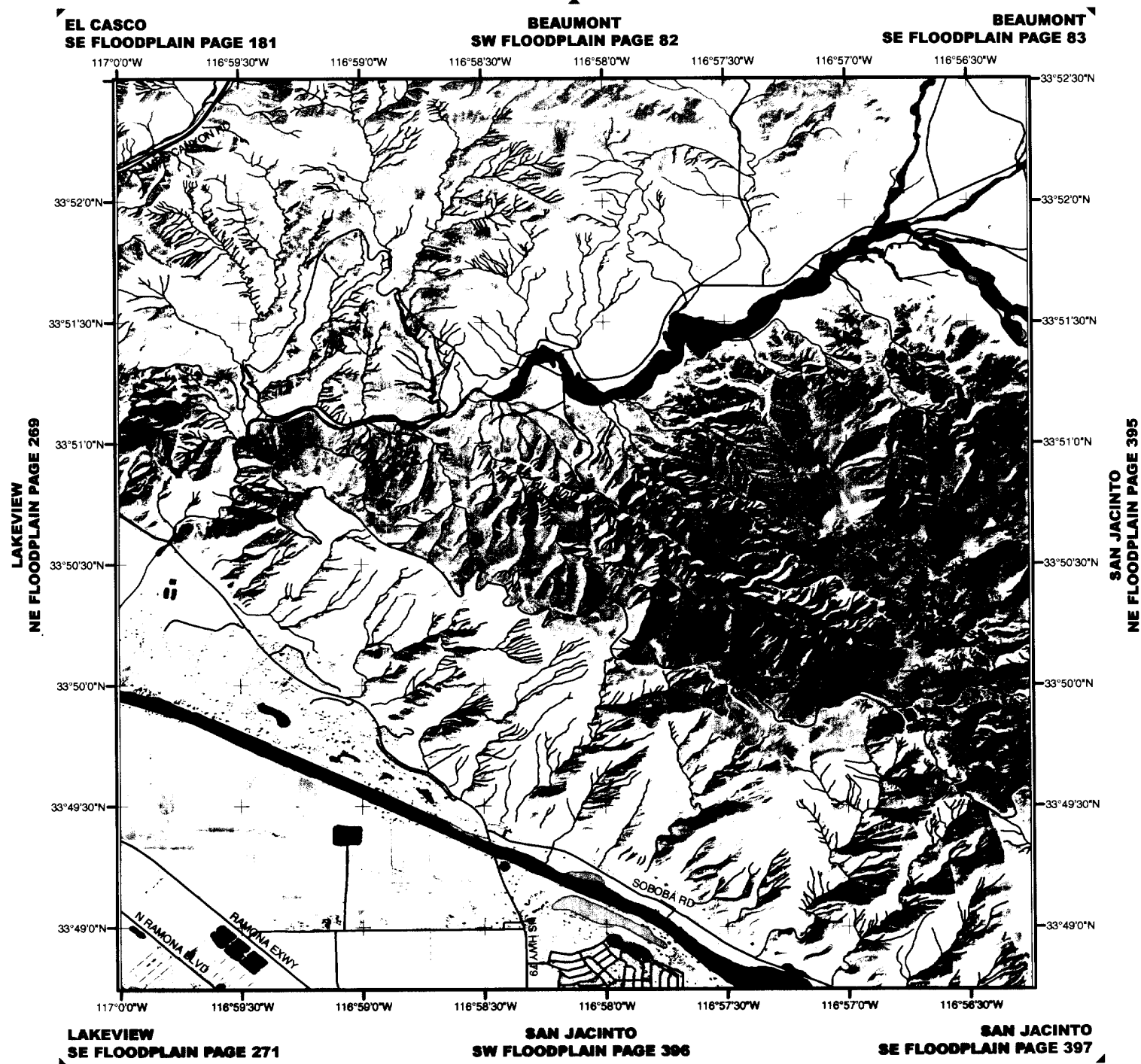


San Jacinto Quadrangle

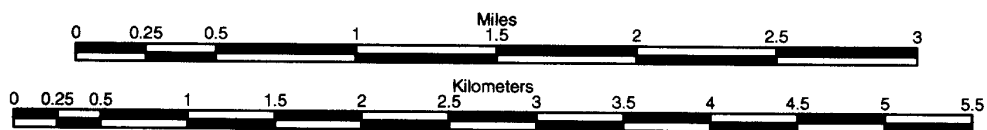
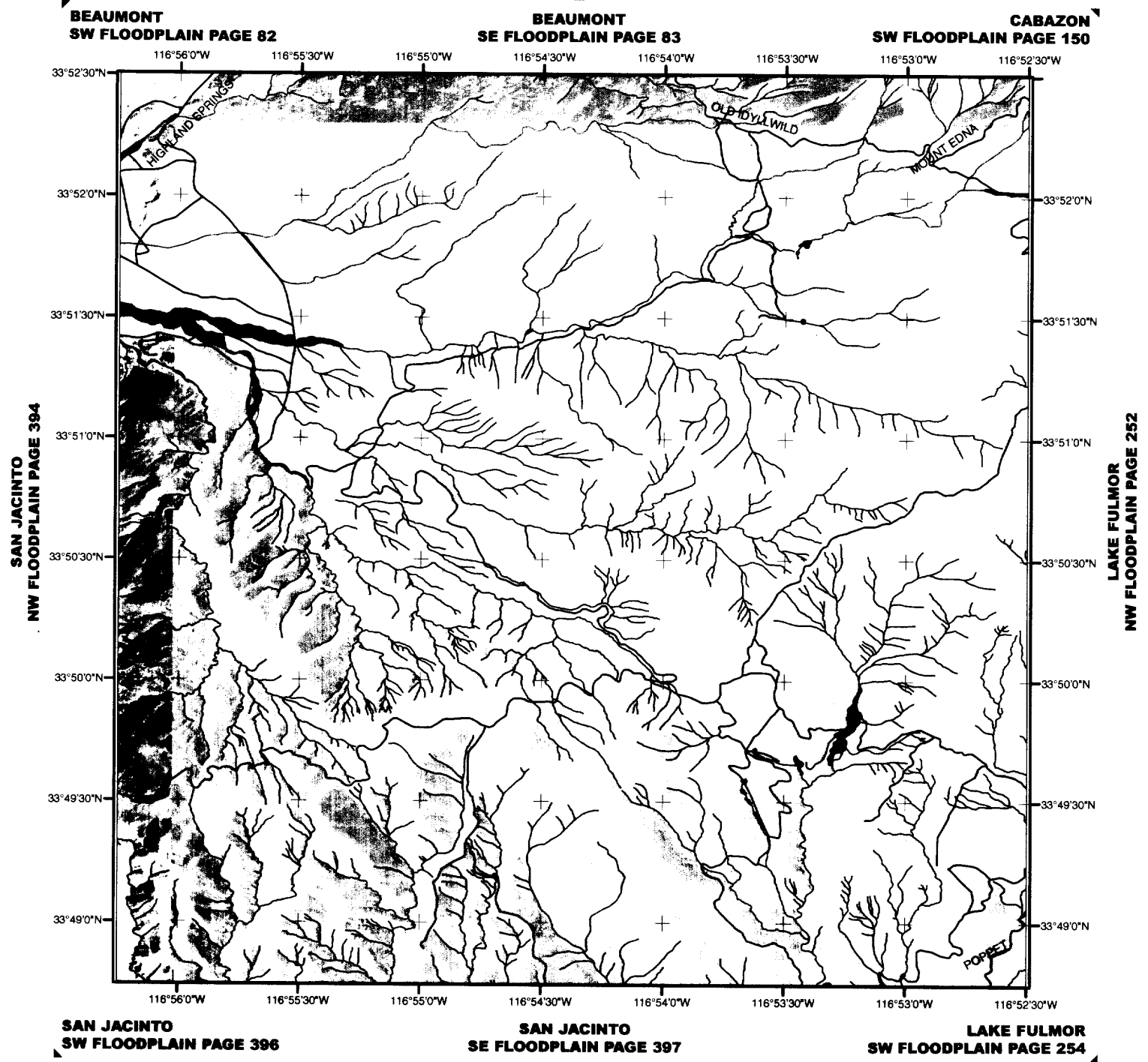
Hydrogeomorphic Floodplain Units for Aquatic Resources



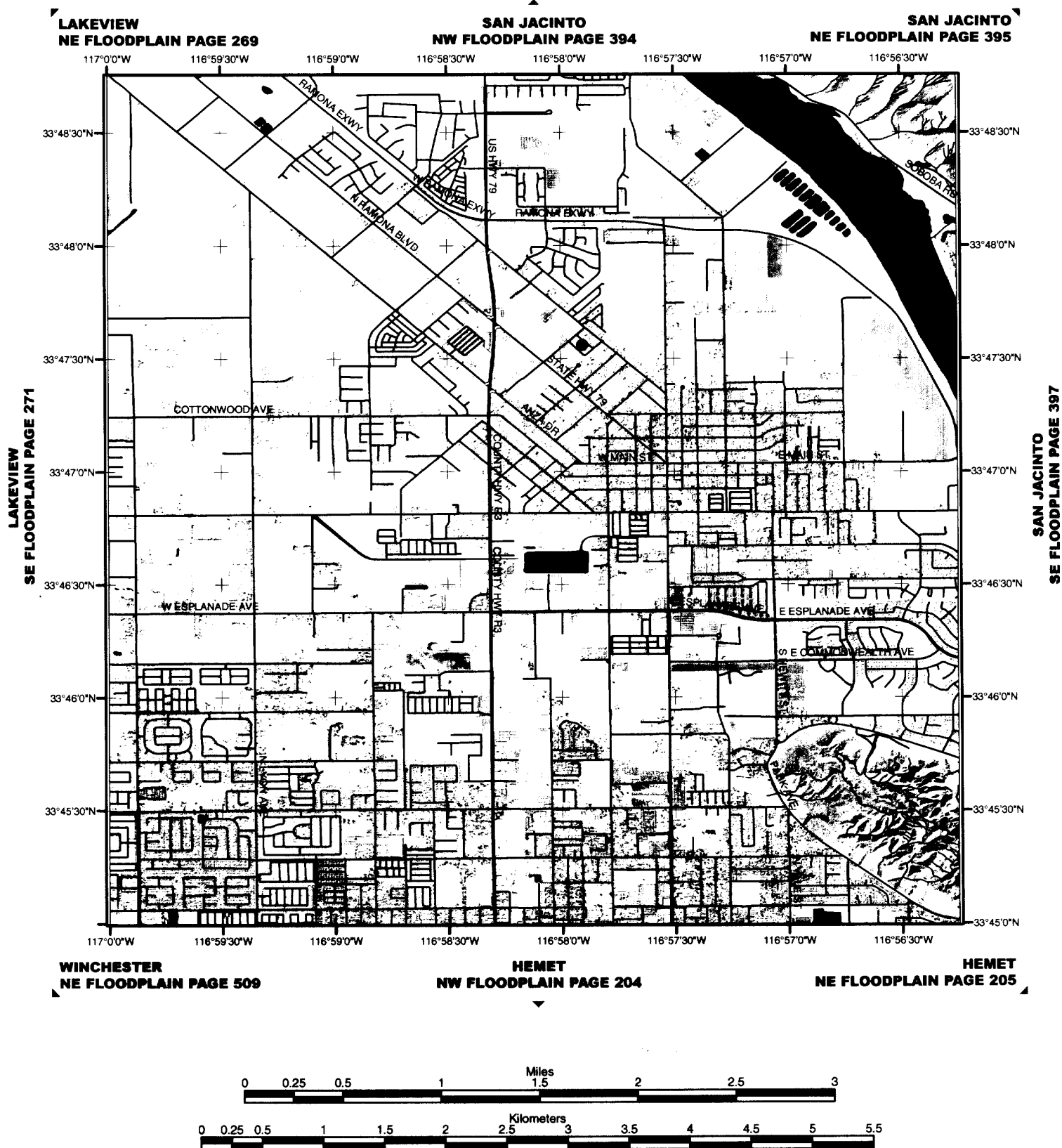
San Jacinto North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



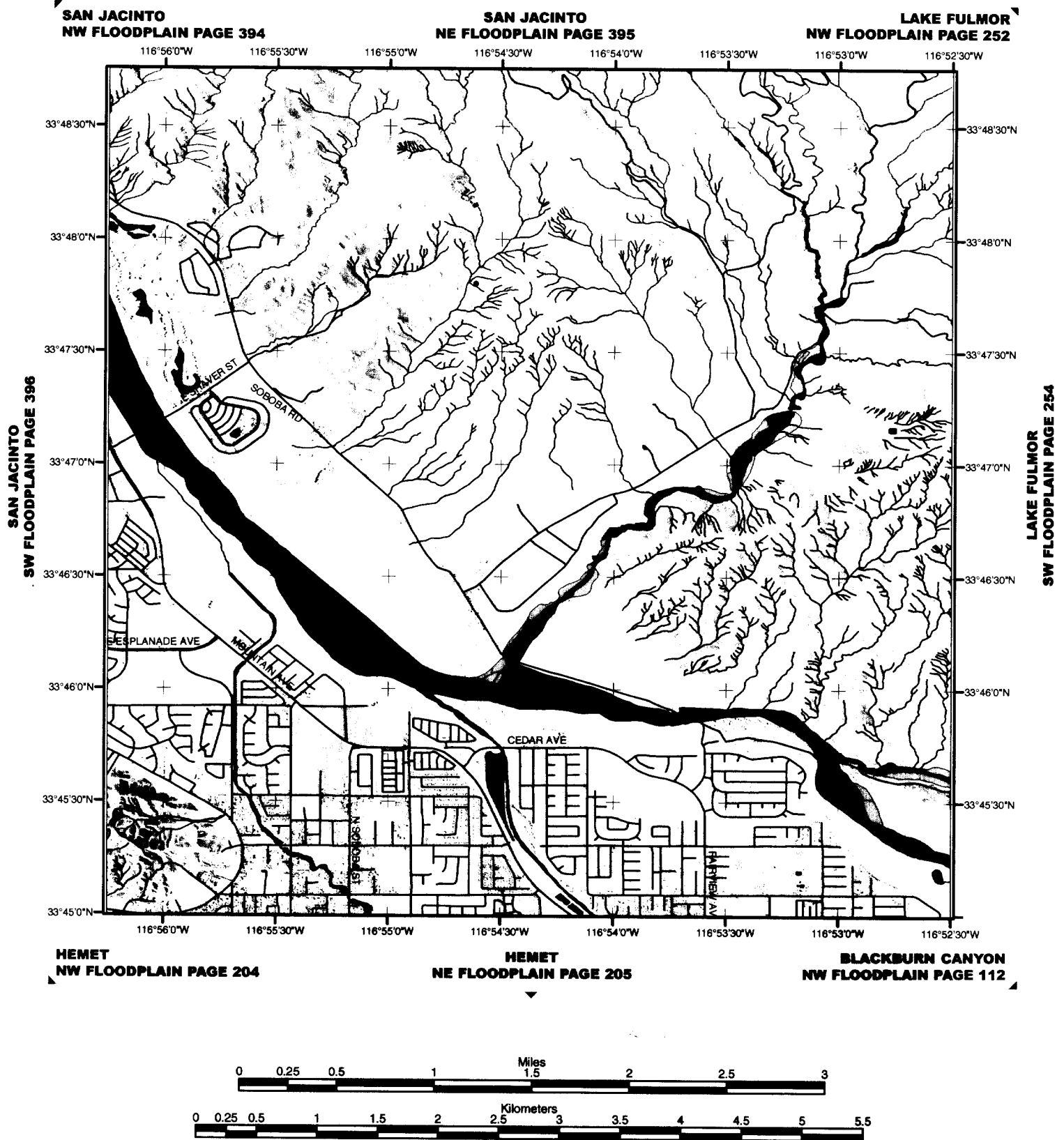
San Jacinto North East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



San Jacinto South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



San Jacinto South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

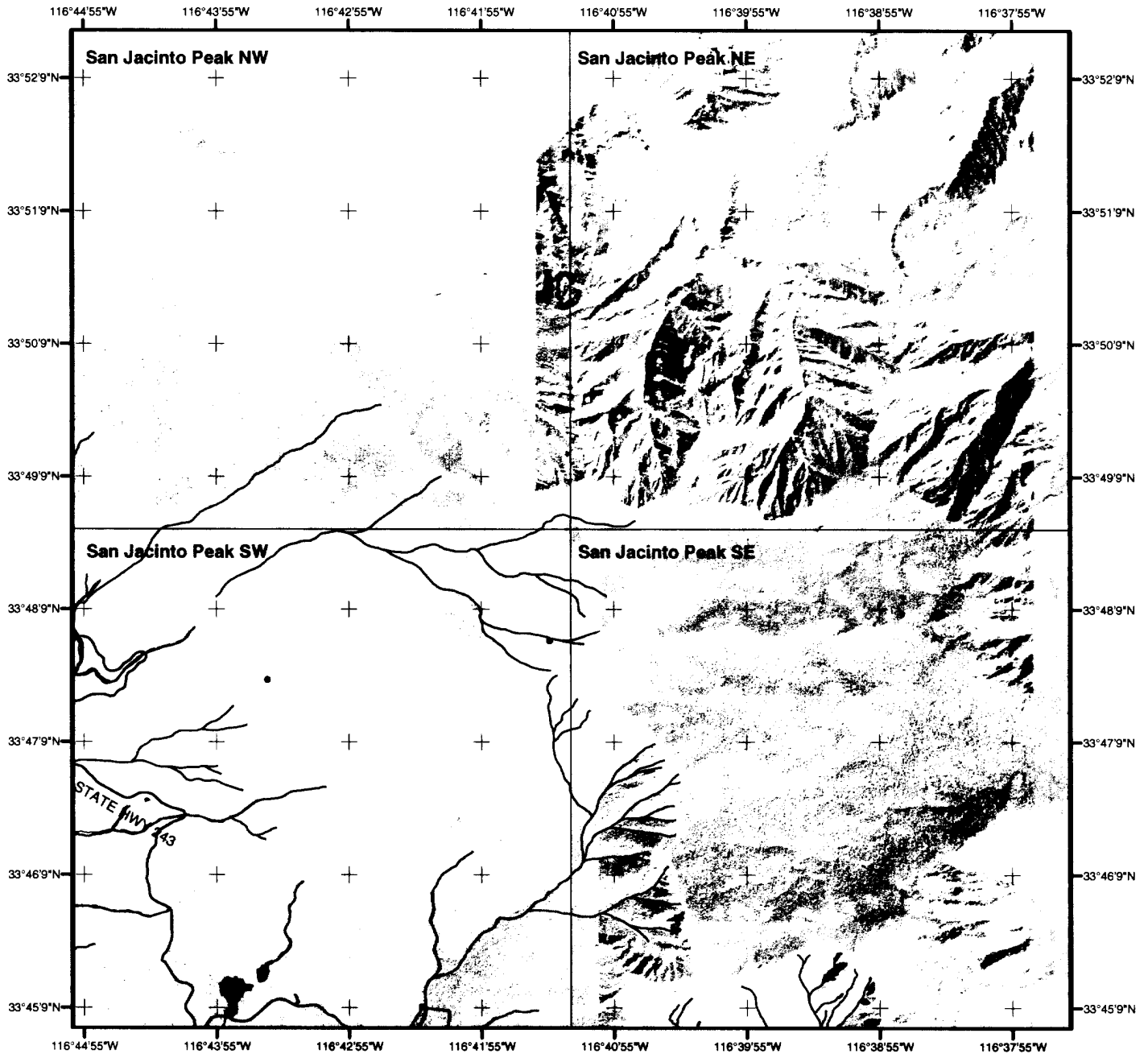


San Jacinto Peak Quadrangle

Regulatory Probability Ratings for Aquatic Resources

CABAZON
QUAD RATINGS PAGE 145

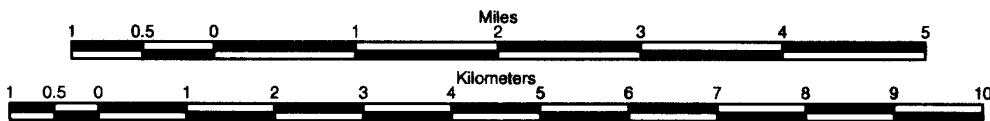
LAKE FULMOR
QUAD RATINGS PAGE 241



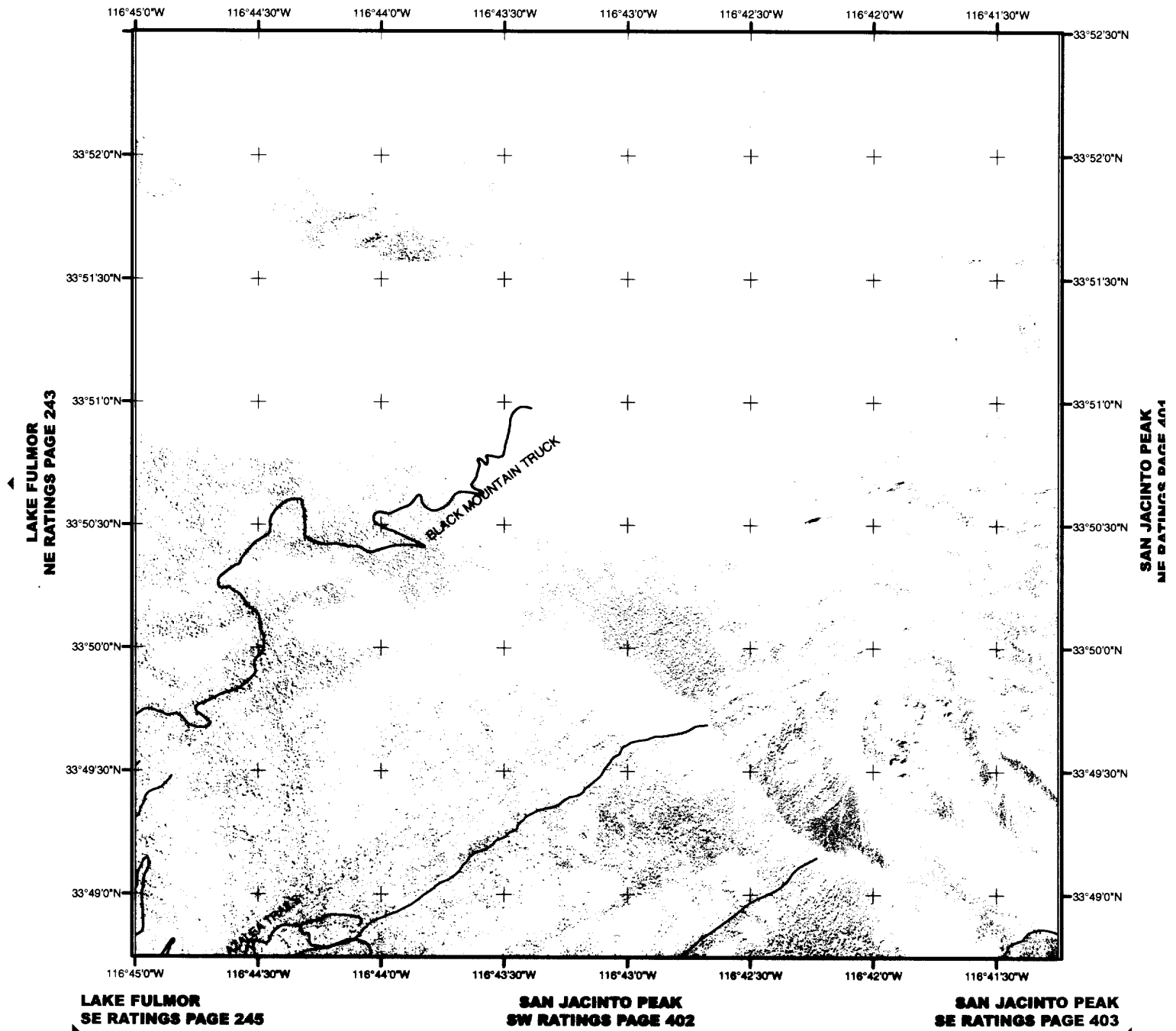
BLACKBURN CANYON
QUAD RATINGS PAGE 101

IDYLLWILD
QUAD RATINGS PAGE 209

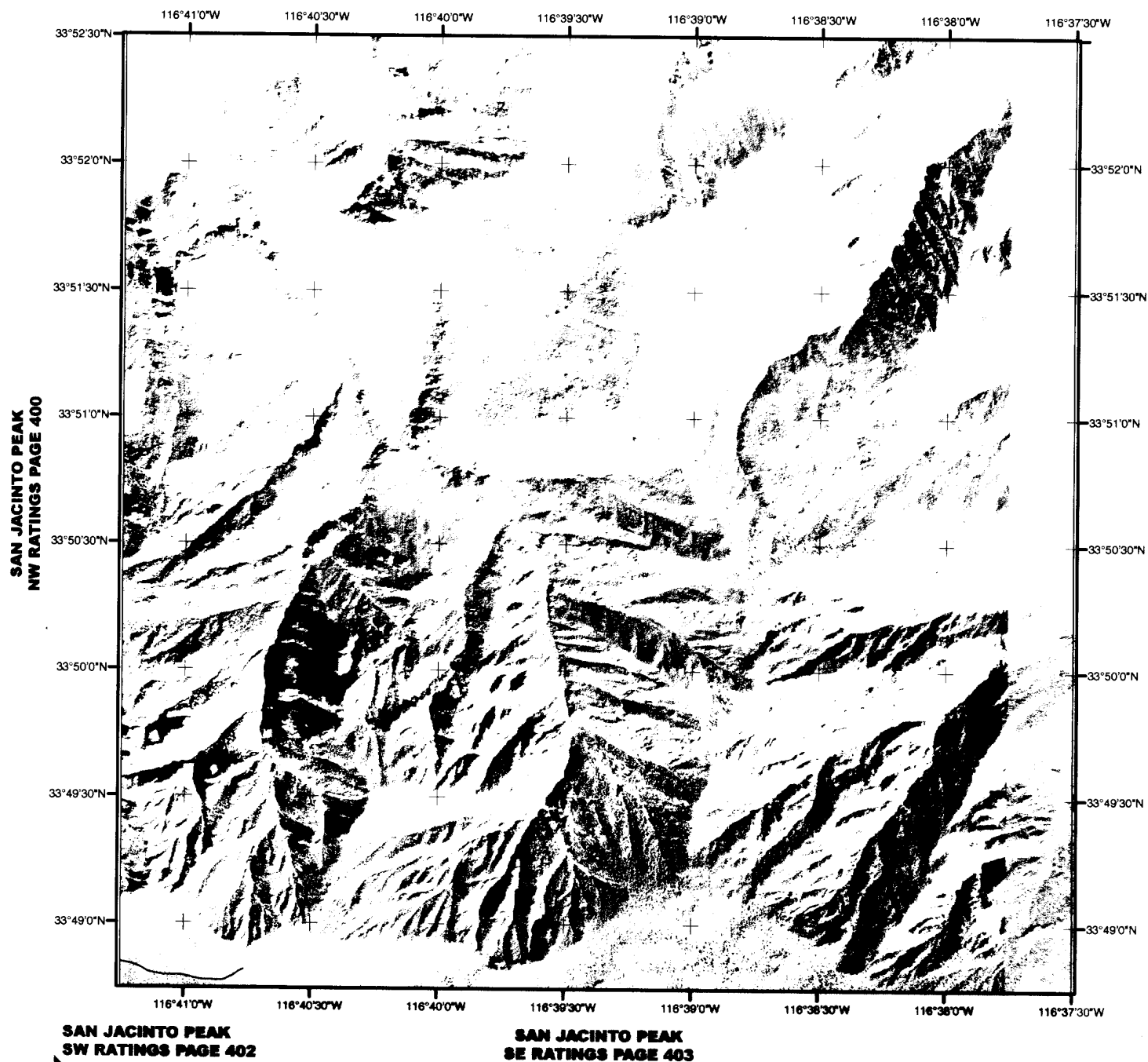
PALM VIEW PEAK
QUAD RATINGS PAGE 289



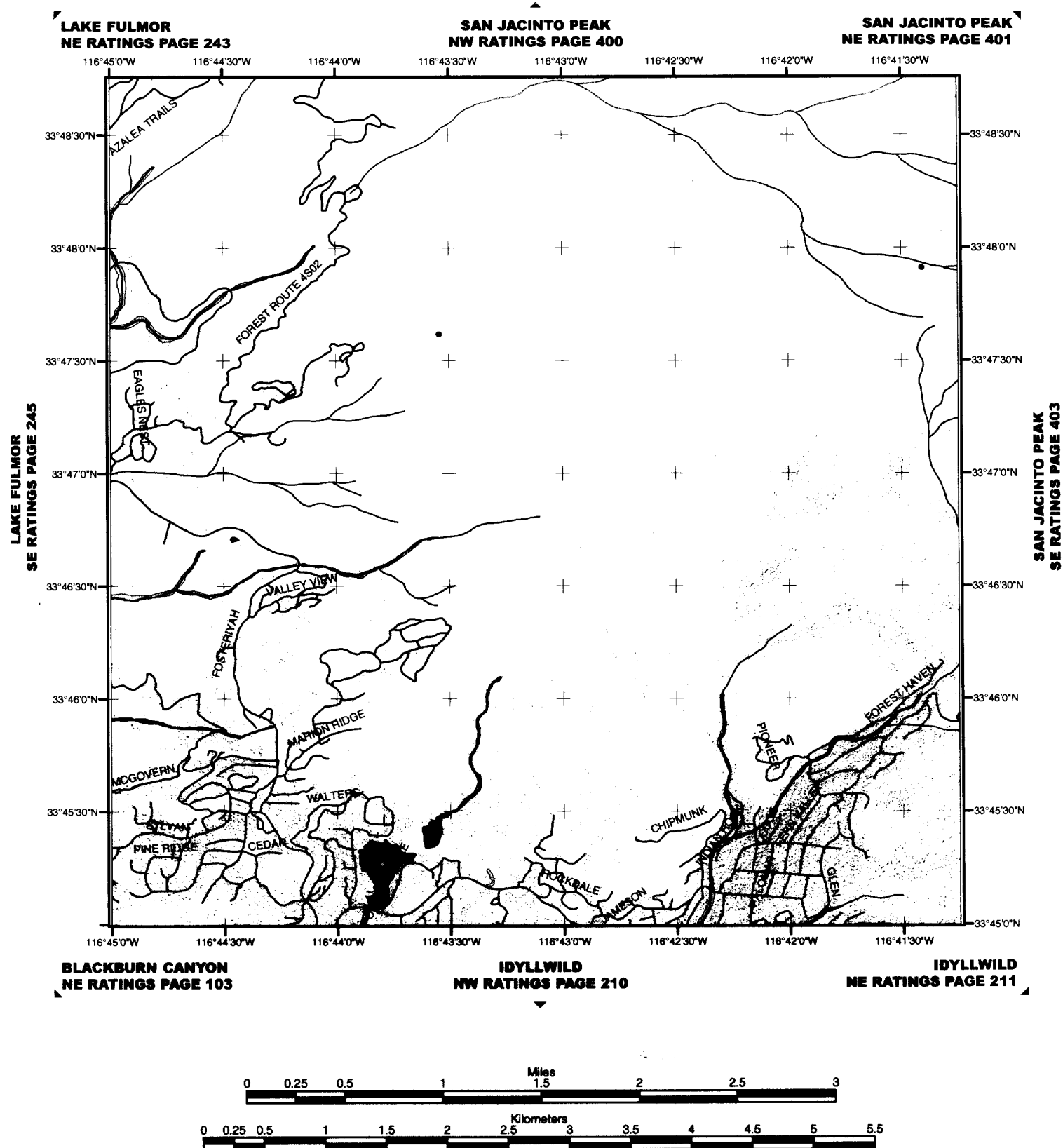
San Jacinto Peak North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



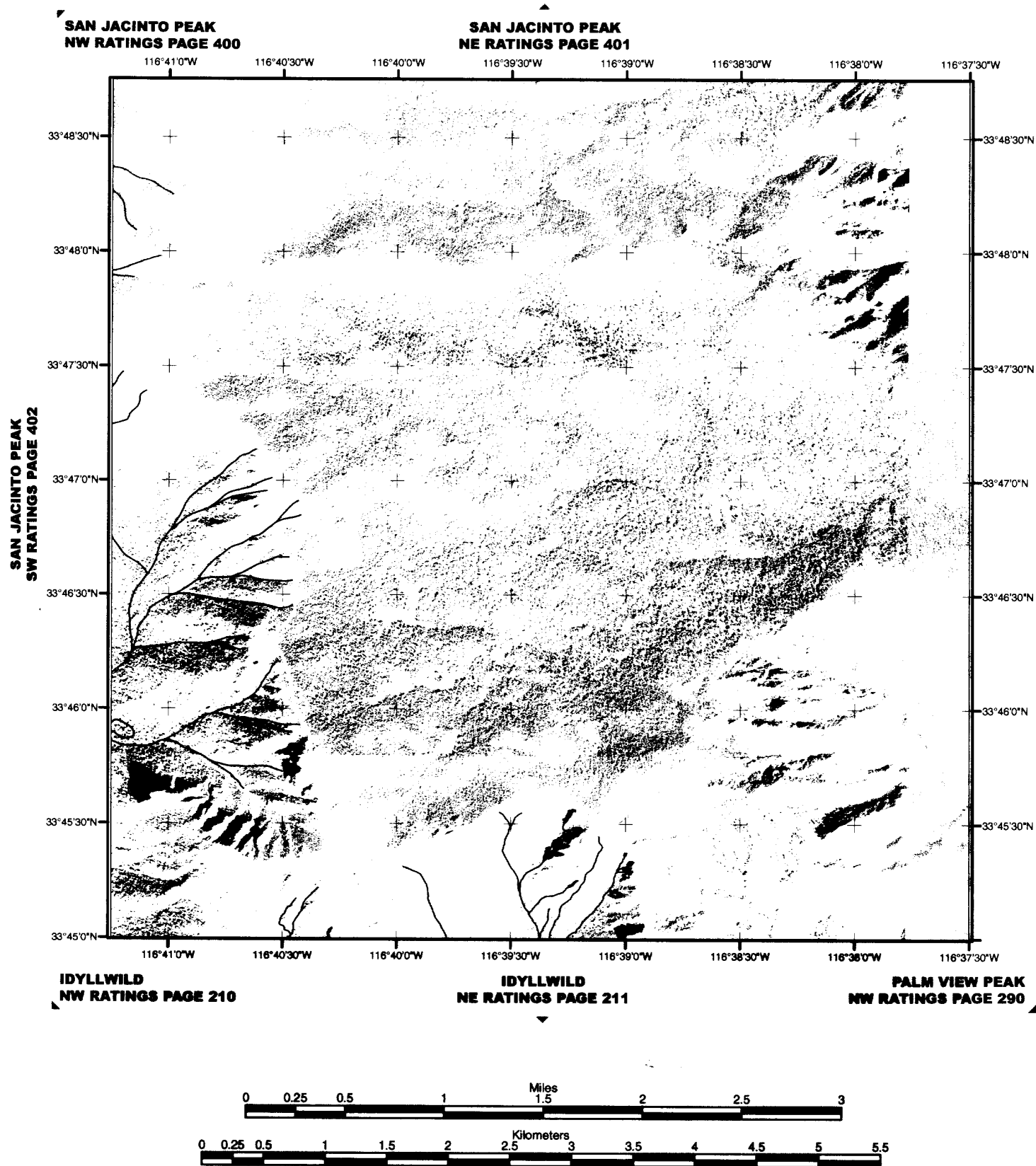
San Jacinto Peak North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



San Jacinto Peak South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



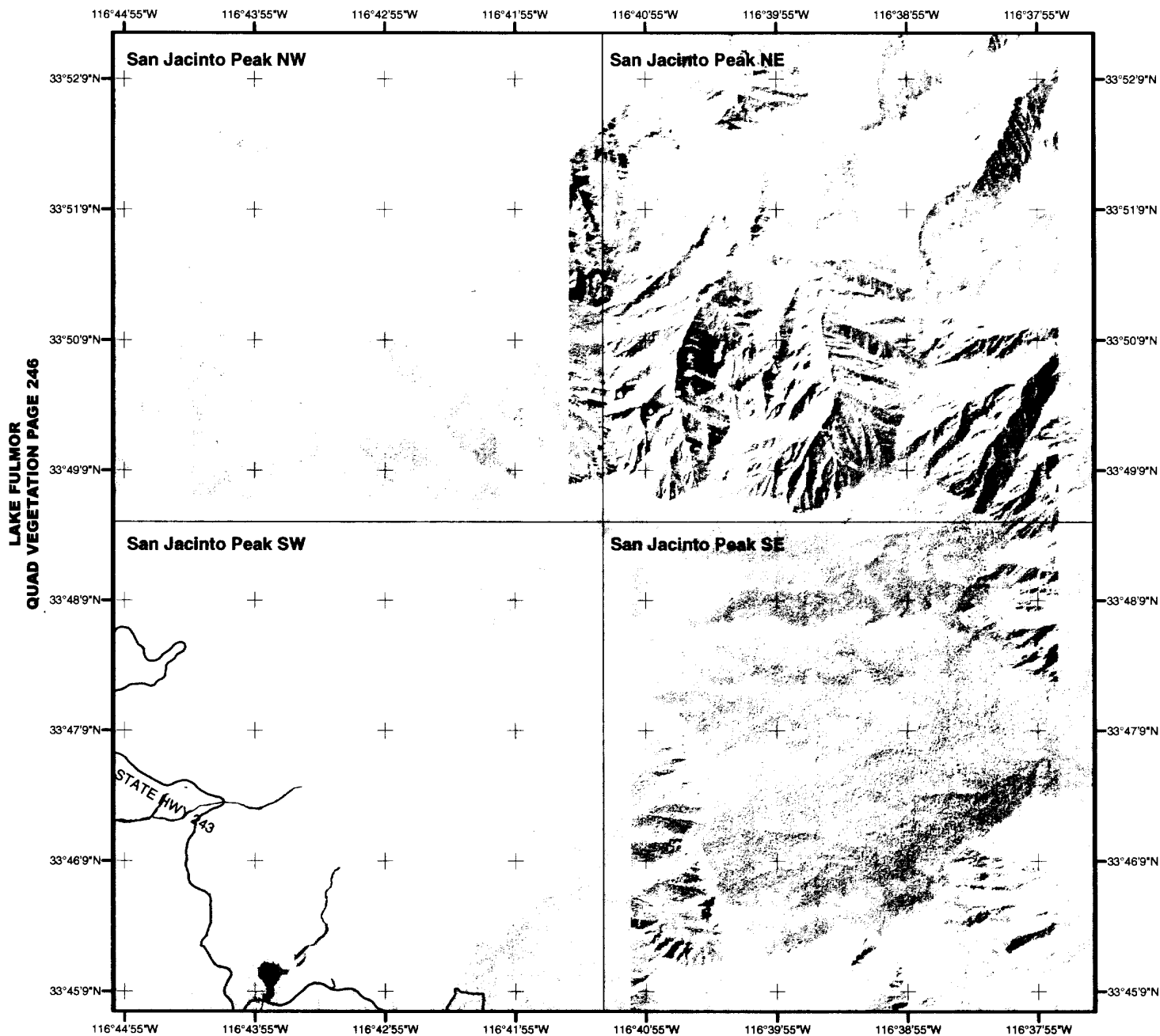
San Jacinto Peak South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



San Jacinto Peak Quadrangle

Vegetation Species Association Units for Aquatic Resources

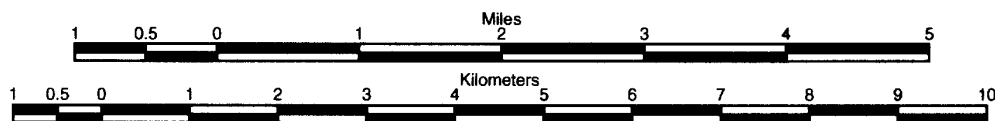
CABAZON
QUAD VEGETATION PAGE 147



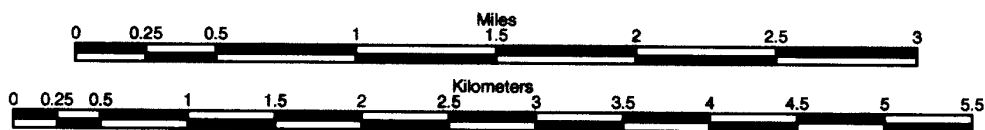
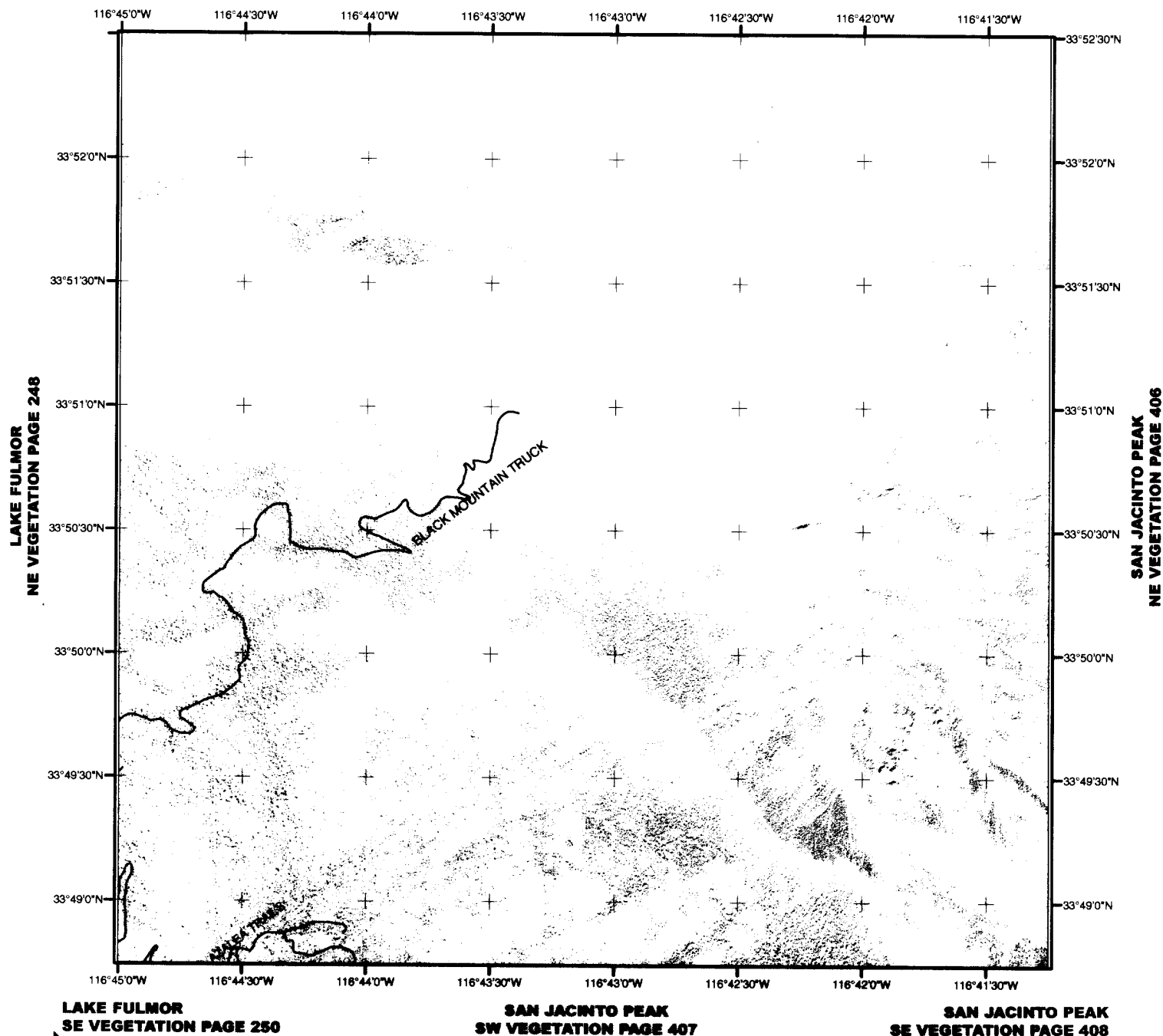
BLACKBURN CANYON
QUAD VEGETATION PAGE 106

IDYLLWILD
QUAD VEGETATION PAGE 214

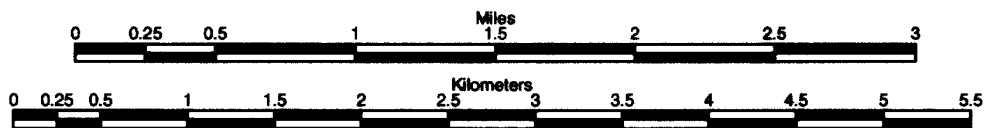
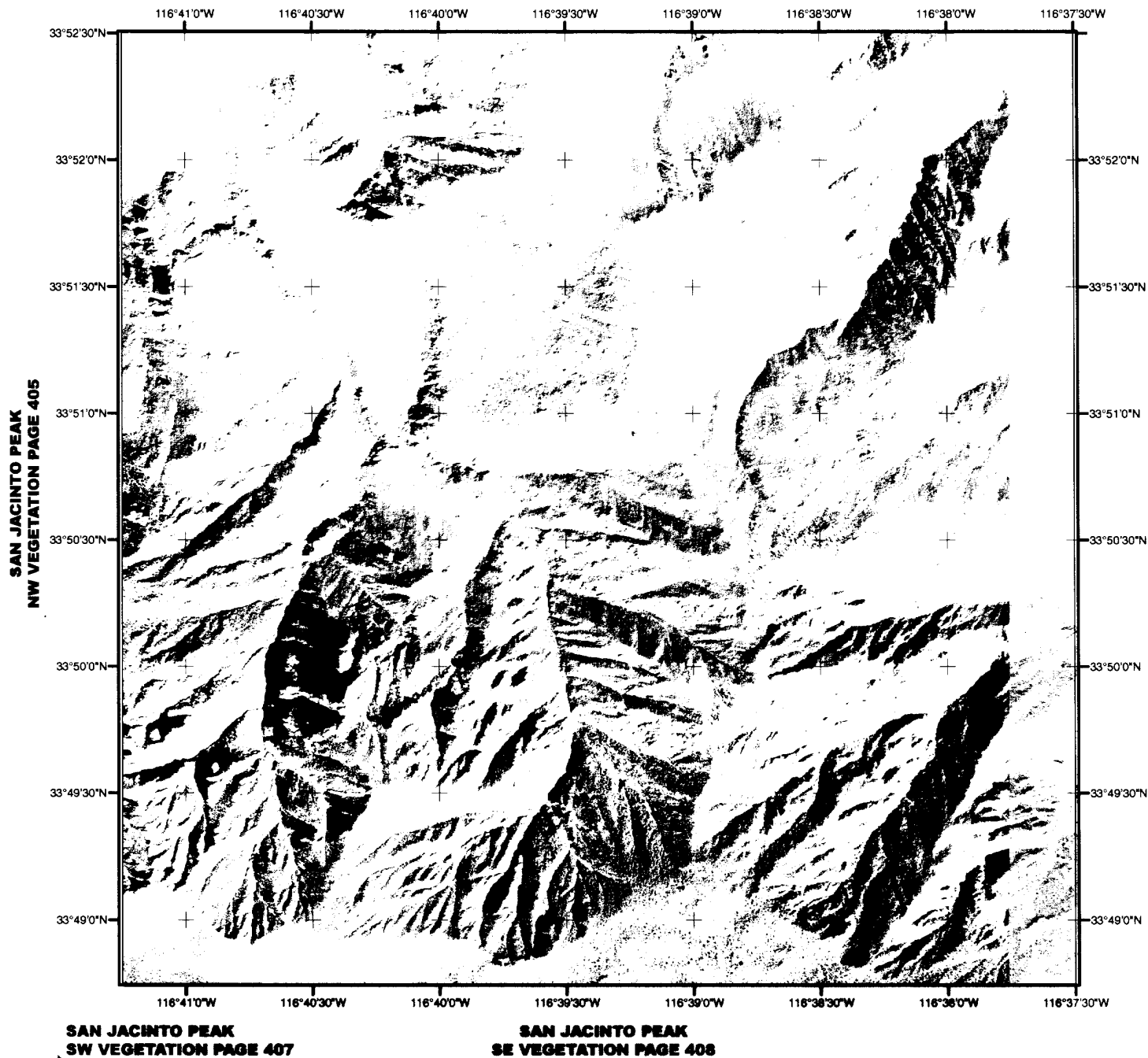
PALM VIEW PEAK
QUAD VEGETATION PAGE 292



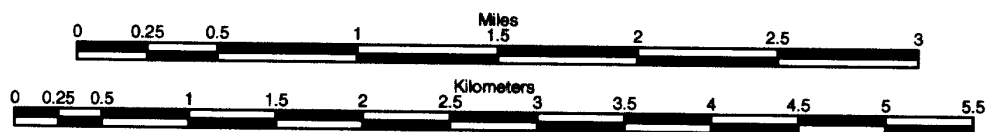
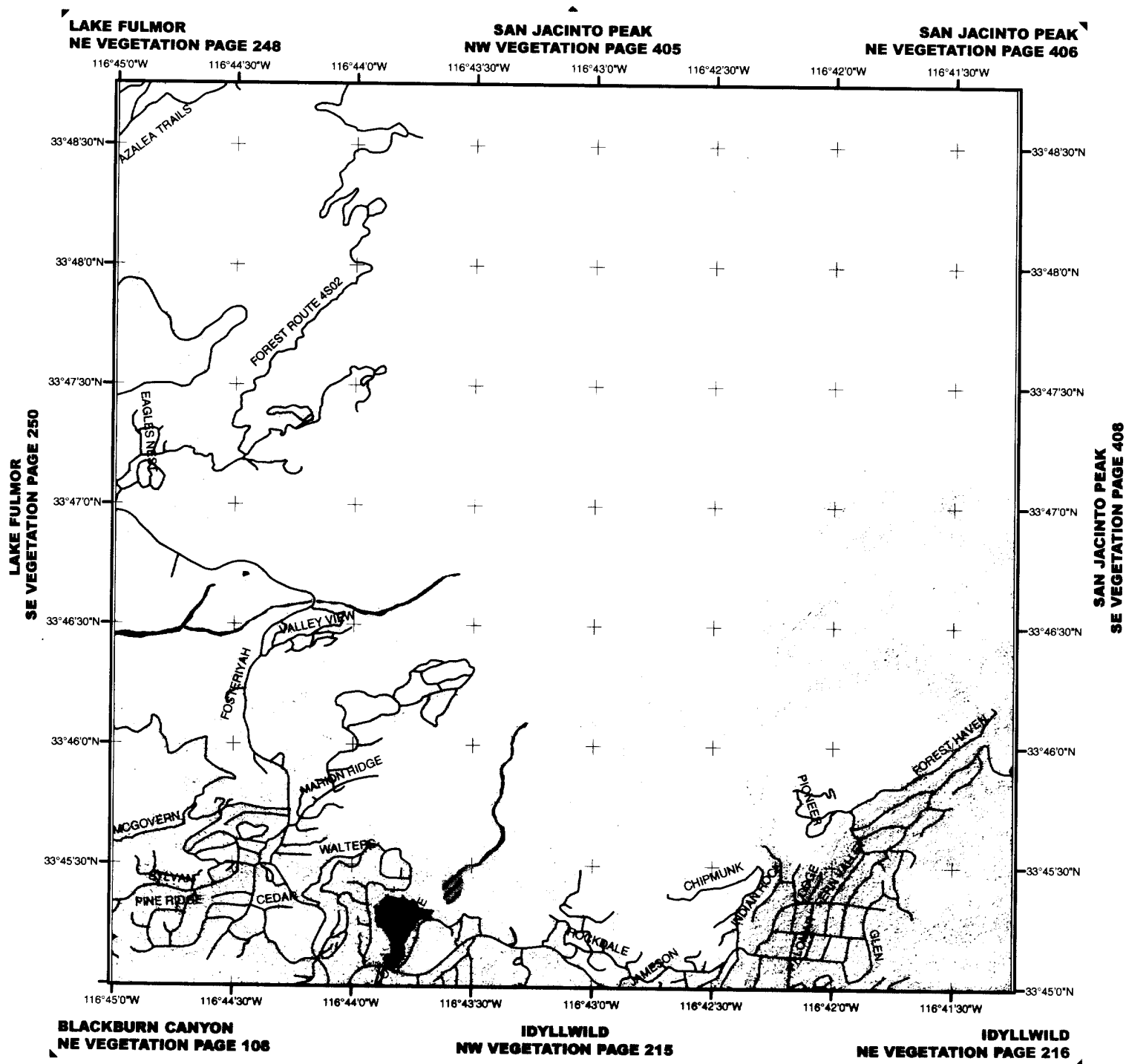
San Jacinto Peak North West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



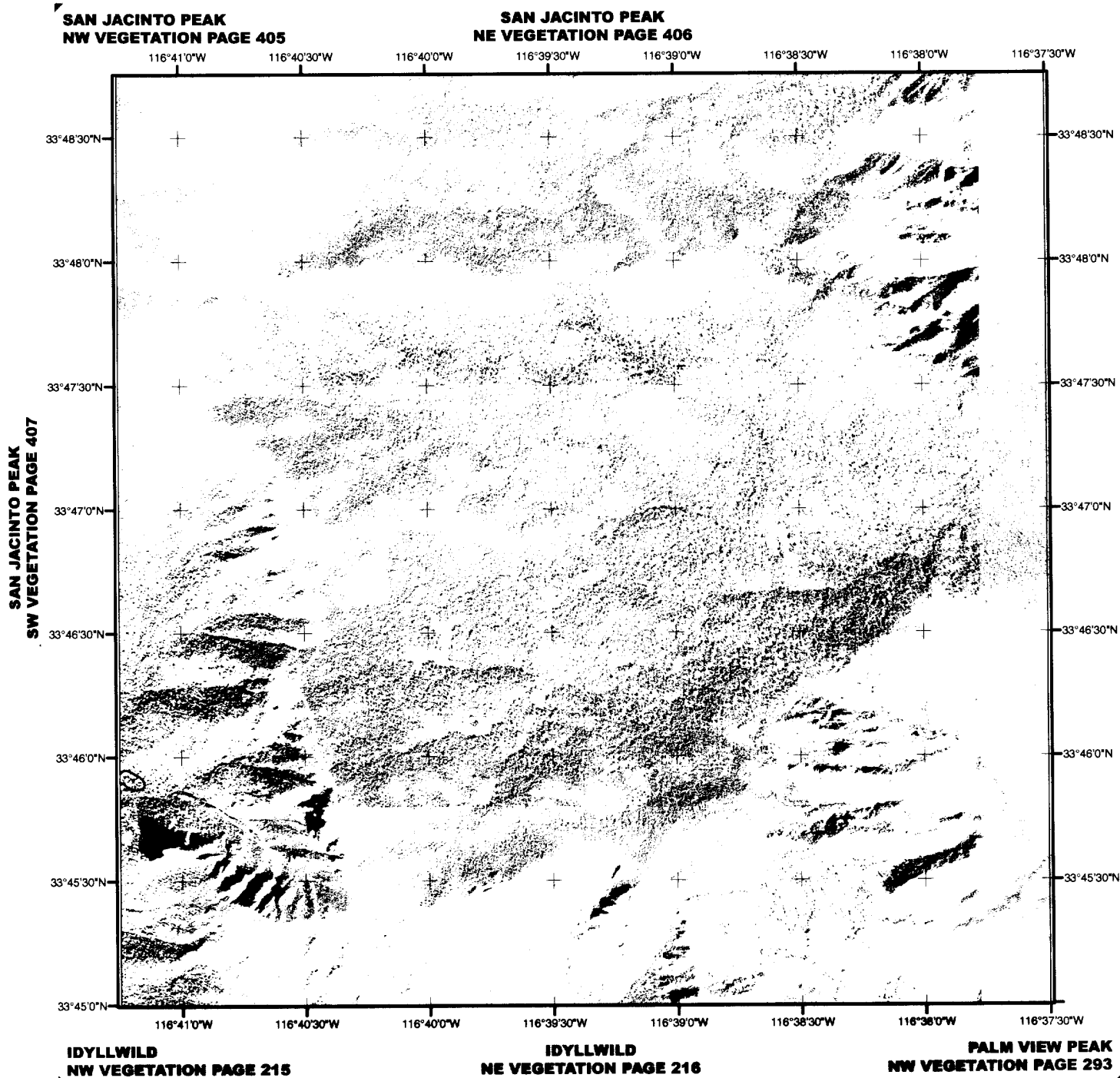
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San Jacinto Peak South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



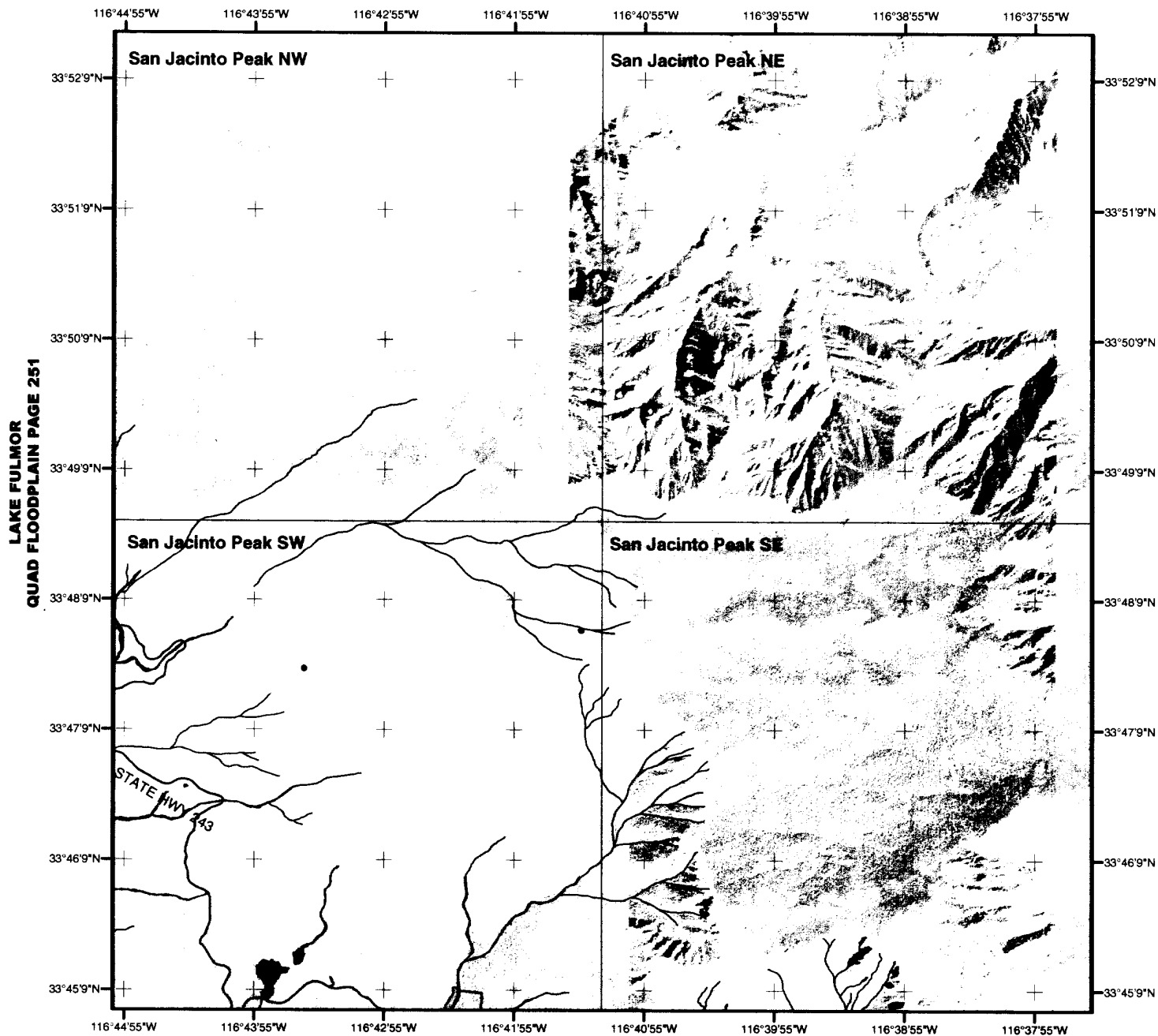
San Jacinto Peak South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



San Jacinto Peak Quadrangle

Hydrogeomorphic Floodplain Units for Aquatic Resources

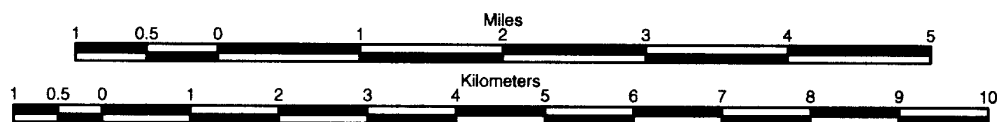
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QUAD FLOODPLAIN PAGE 149



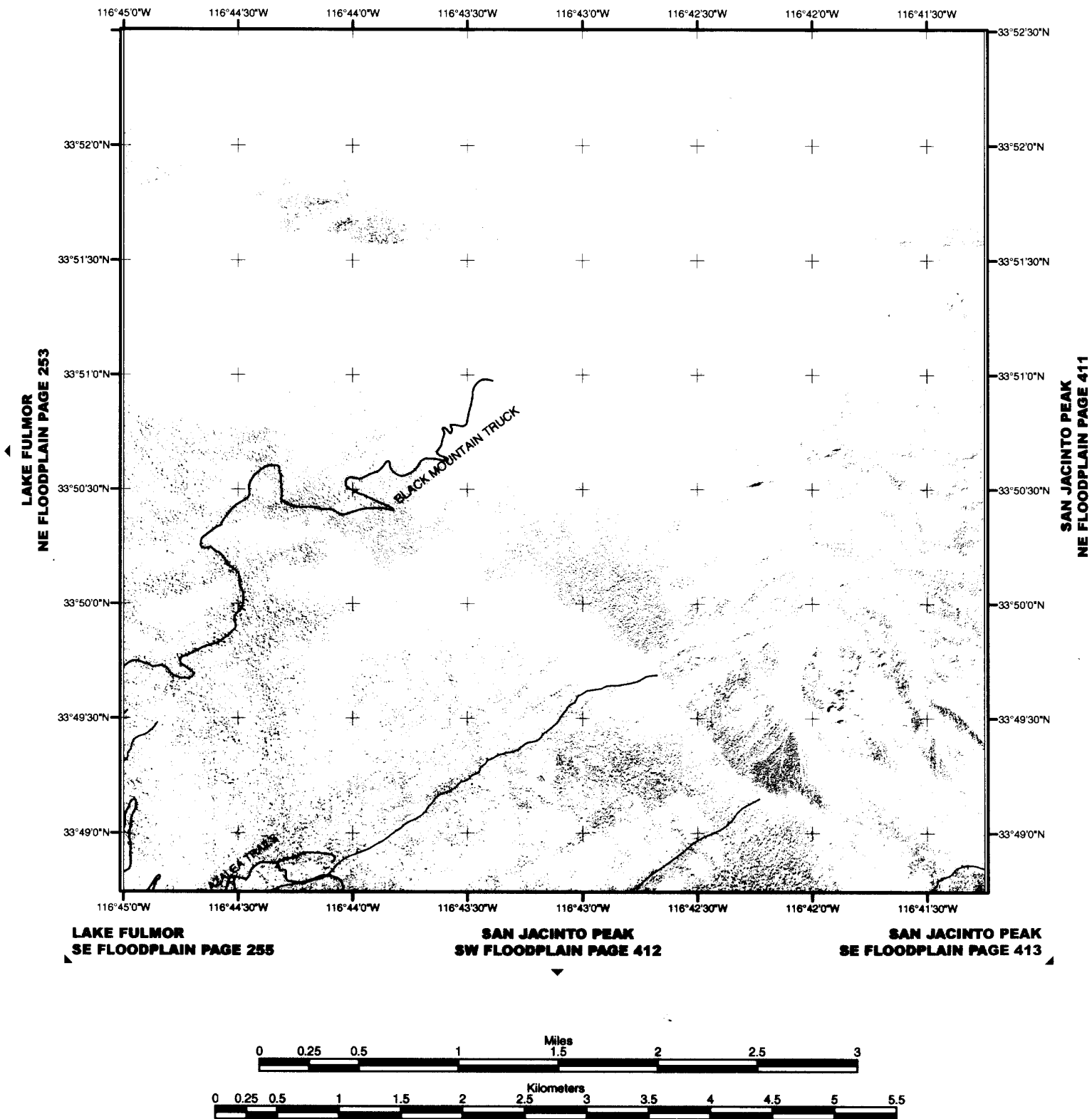
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QUAD FLOODPLAIN PAGE 111

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QUAD FLOODPLAIN PAGE 219

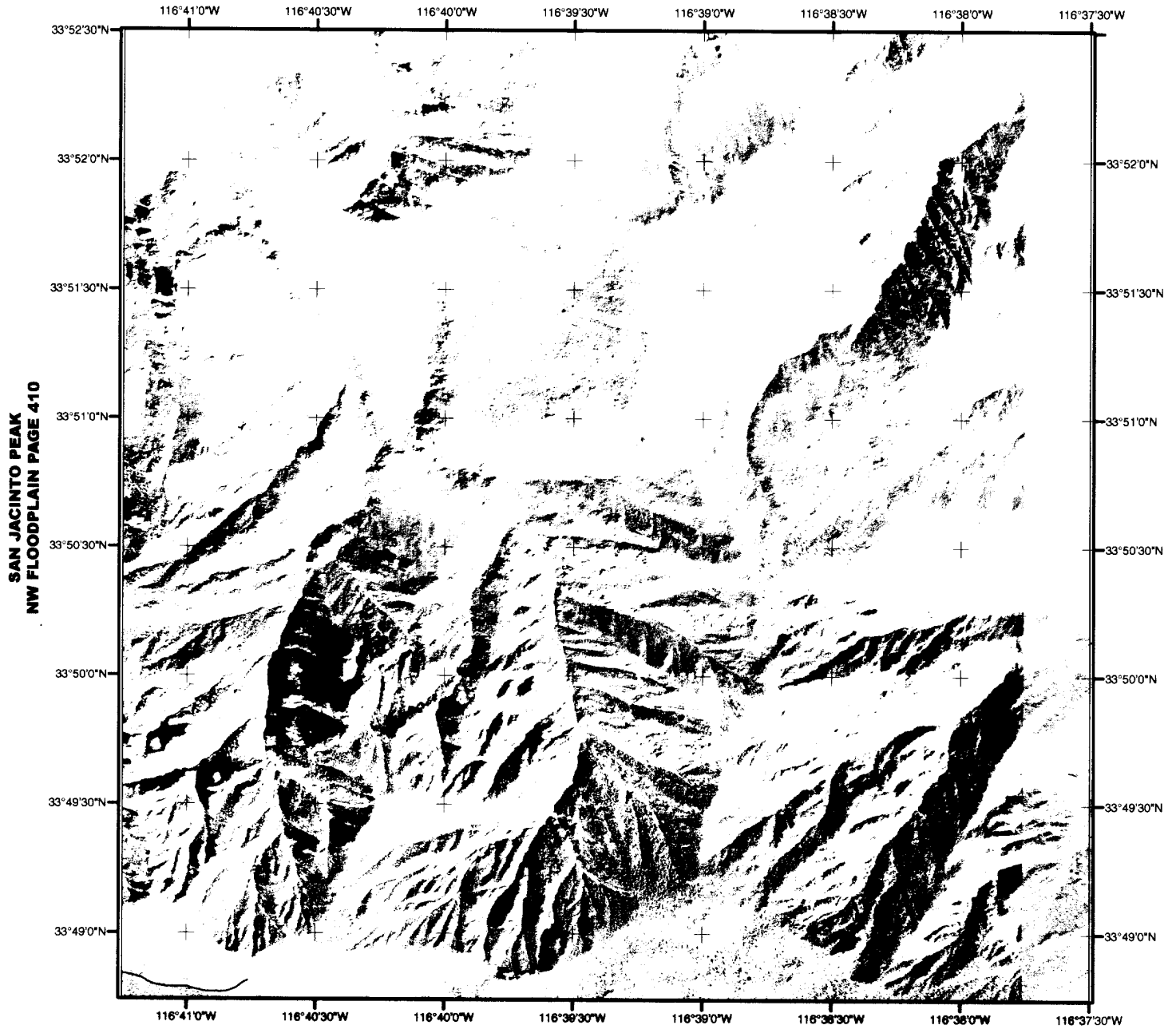
PALM VIEW PEAK
QUAD FLOODPLAIN PAGE 295



San Jacinto Peak North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



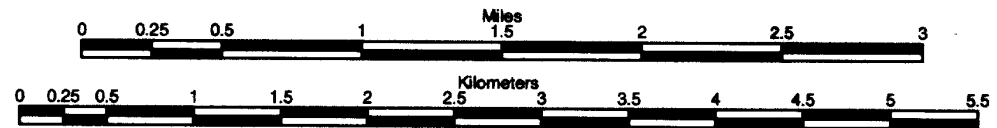
San Jacinto Peak North East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



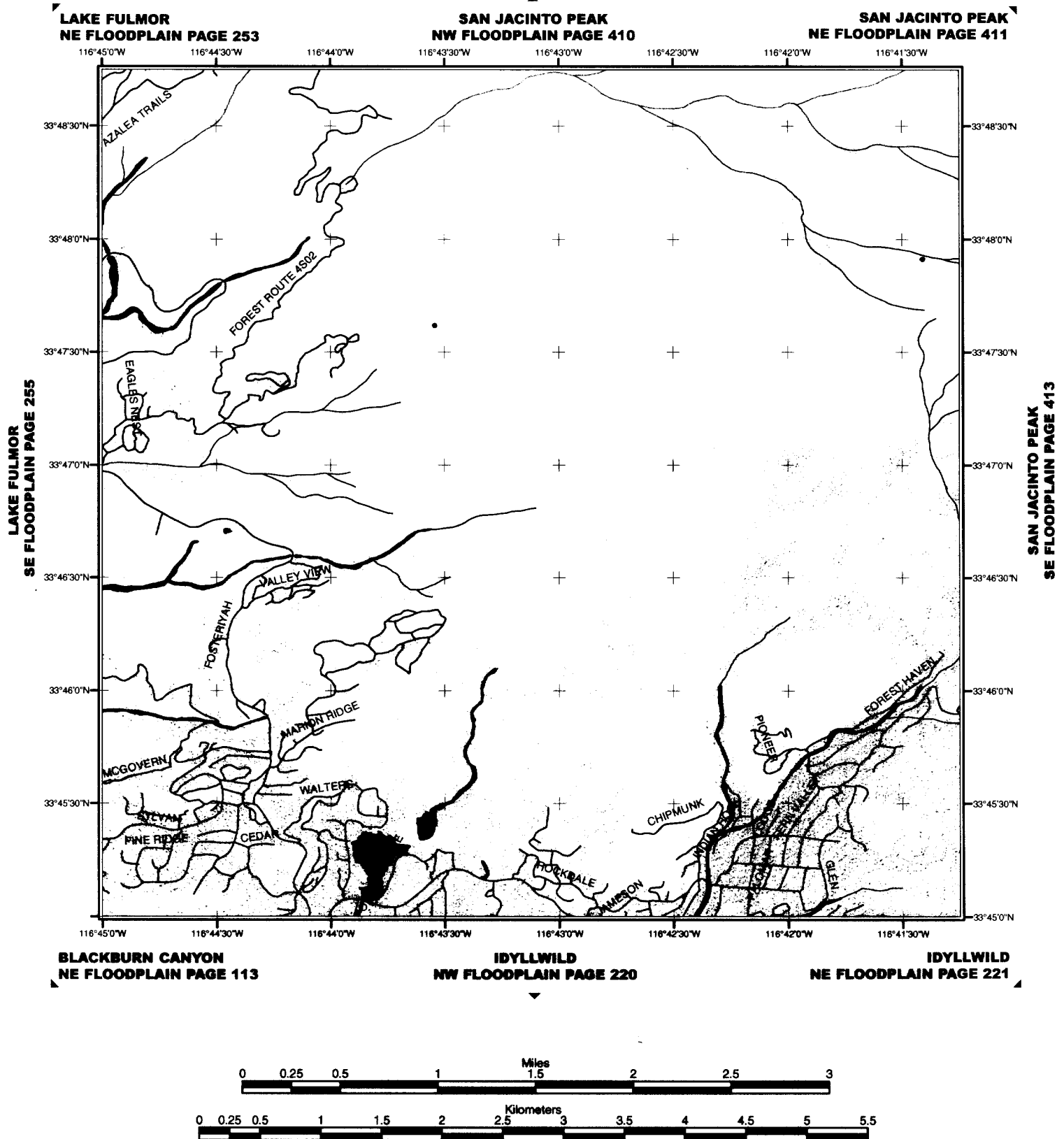
SAN JACINTO PEAK
NW FLOODPLAIN PAGE 410

SAN JACINTO PEAK
SW FLOODPLAIN PAGE 412

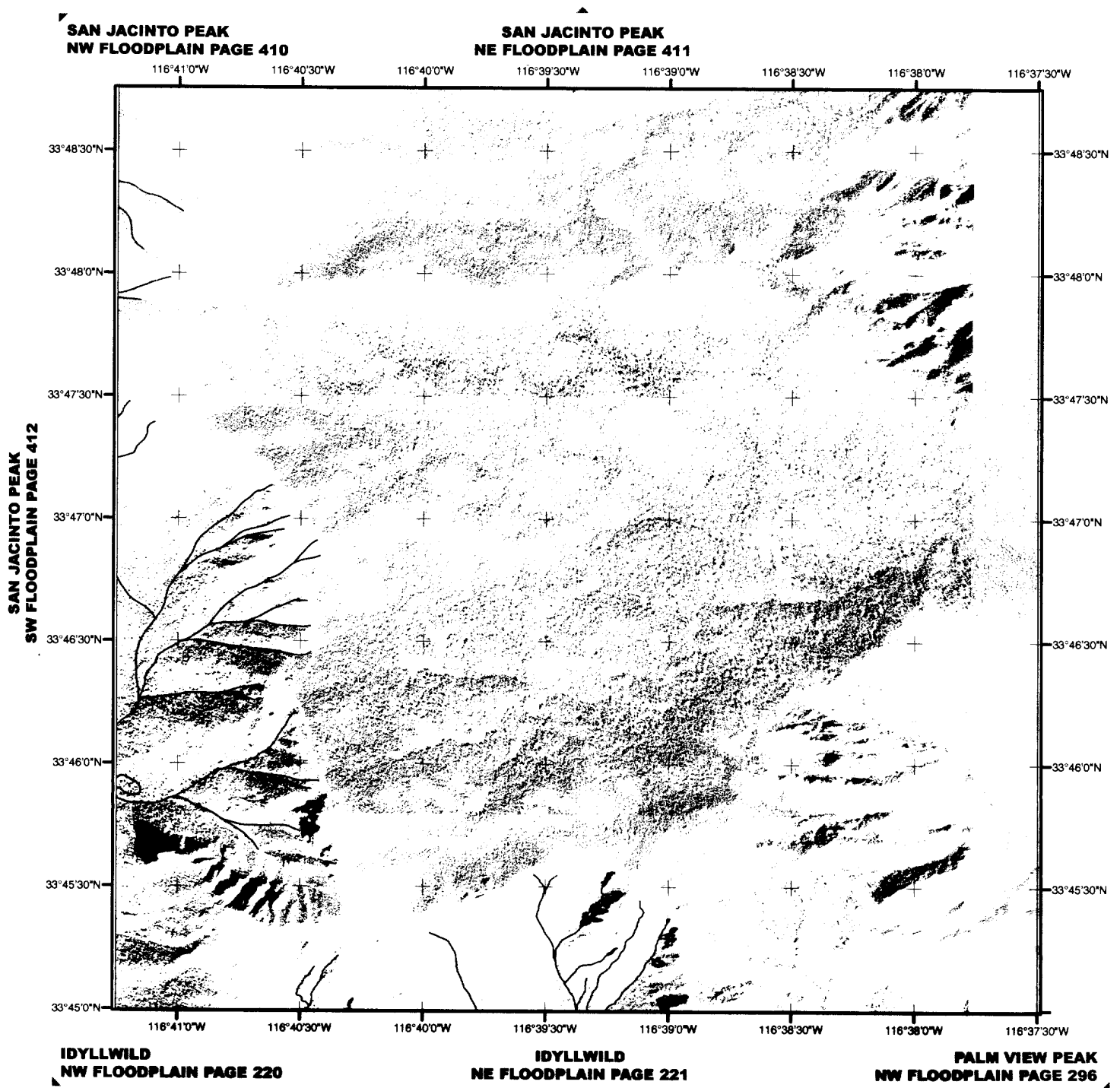
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San Jacinto Peak South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

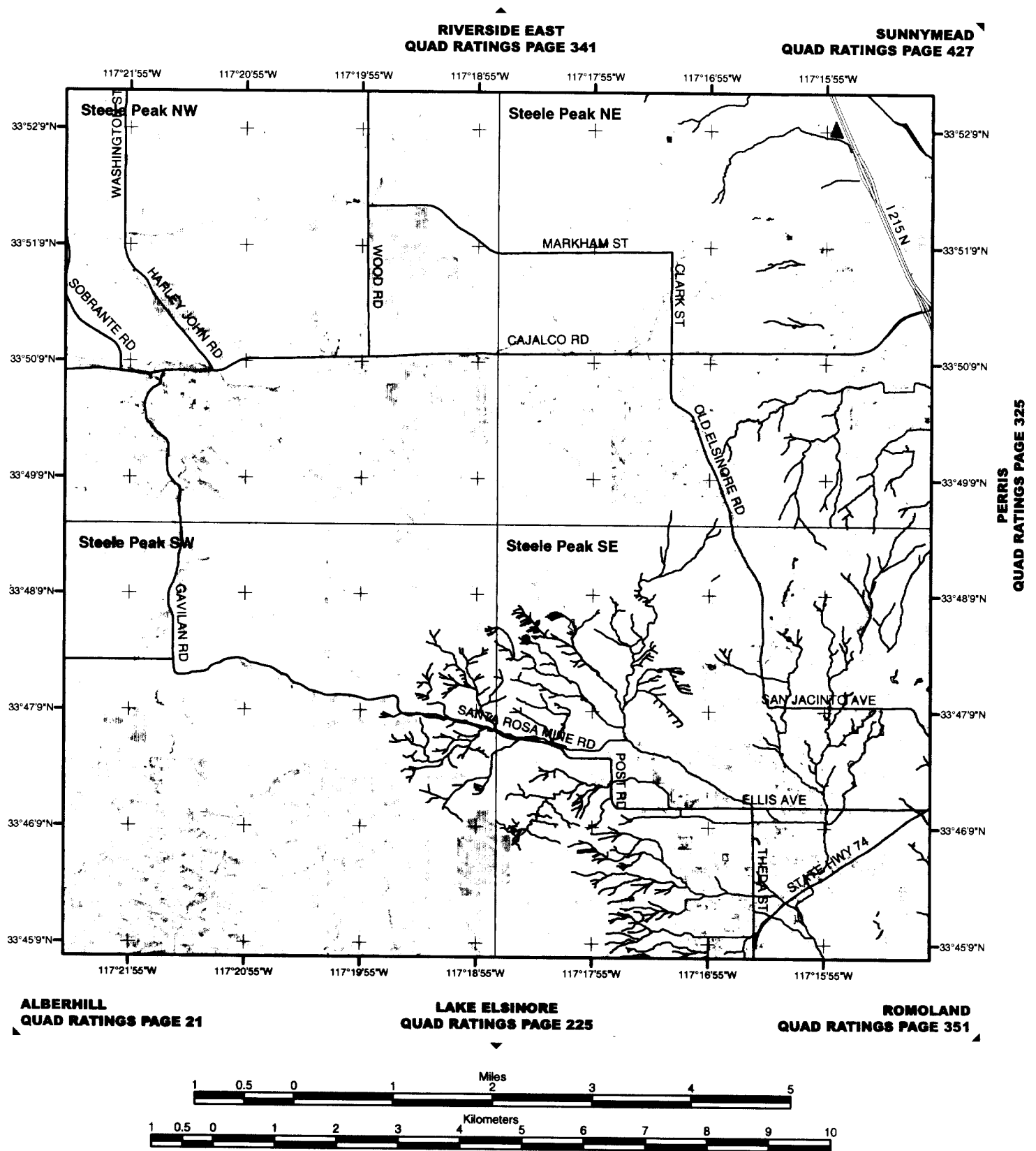


San Jacinto Peak South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

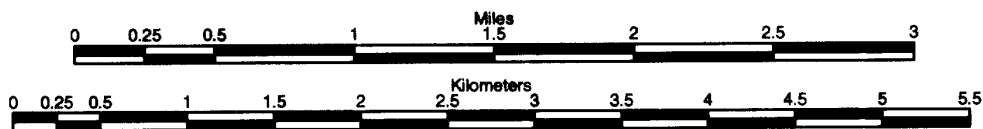
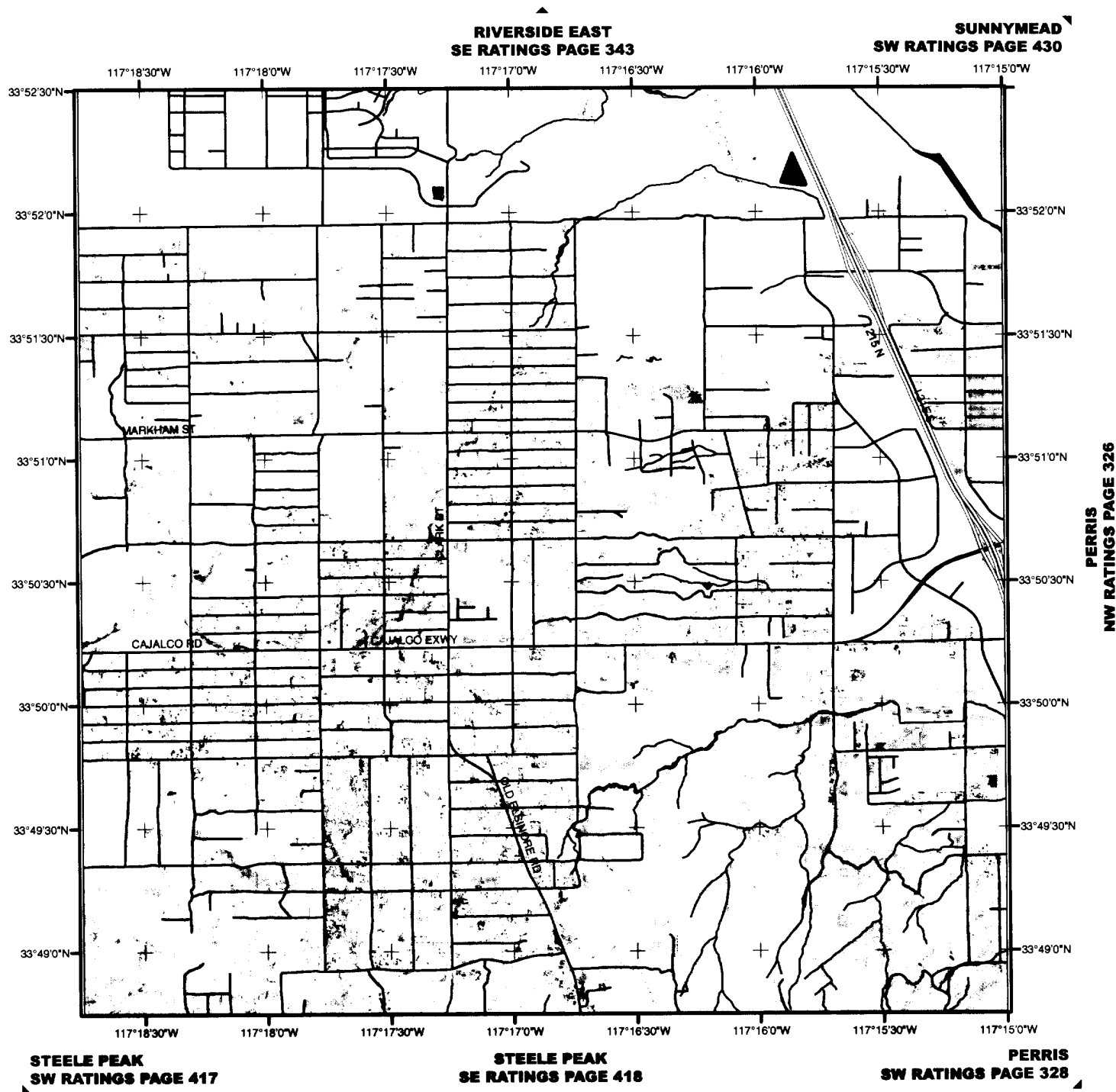


Steele Peak Quadrangle

Regulatory Probability Ratings for Aquatic Resources

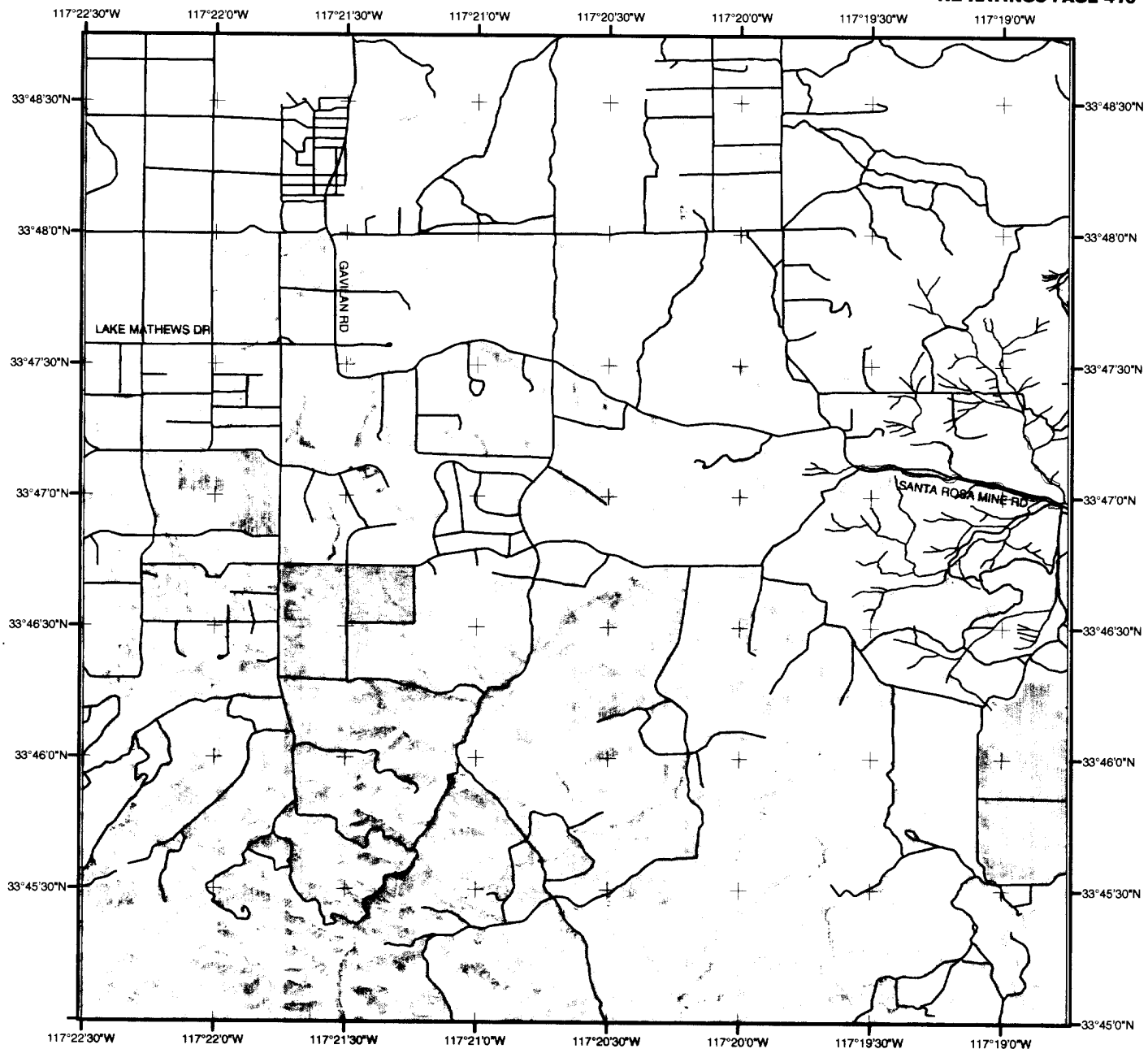


Steele Peak North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



Steele Peak South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

**STEELE PEAK
NE RATINGS PAGE 416**

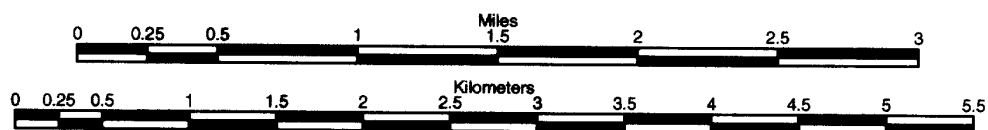


**STEELE PEAK
SE RATINGS PAGE 418**

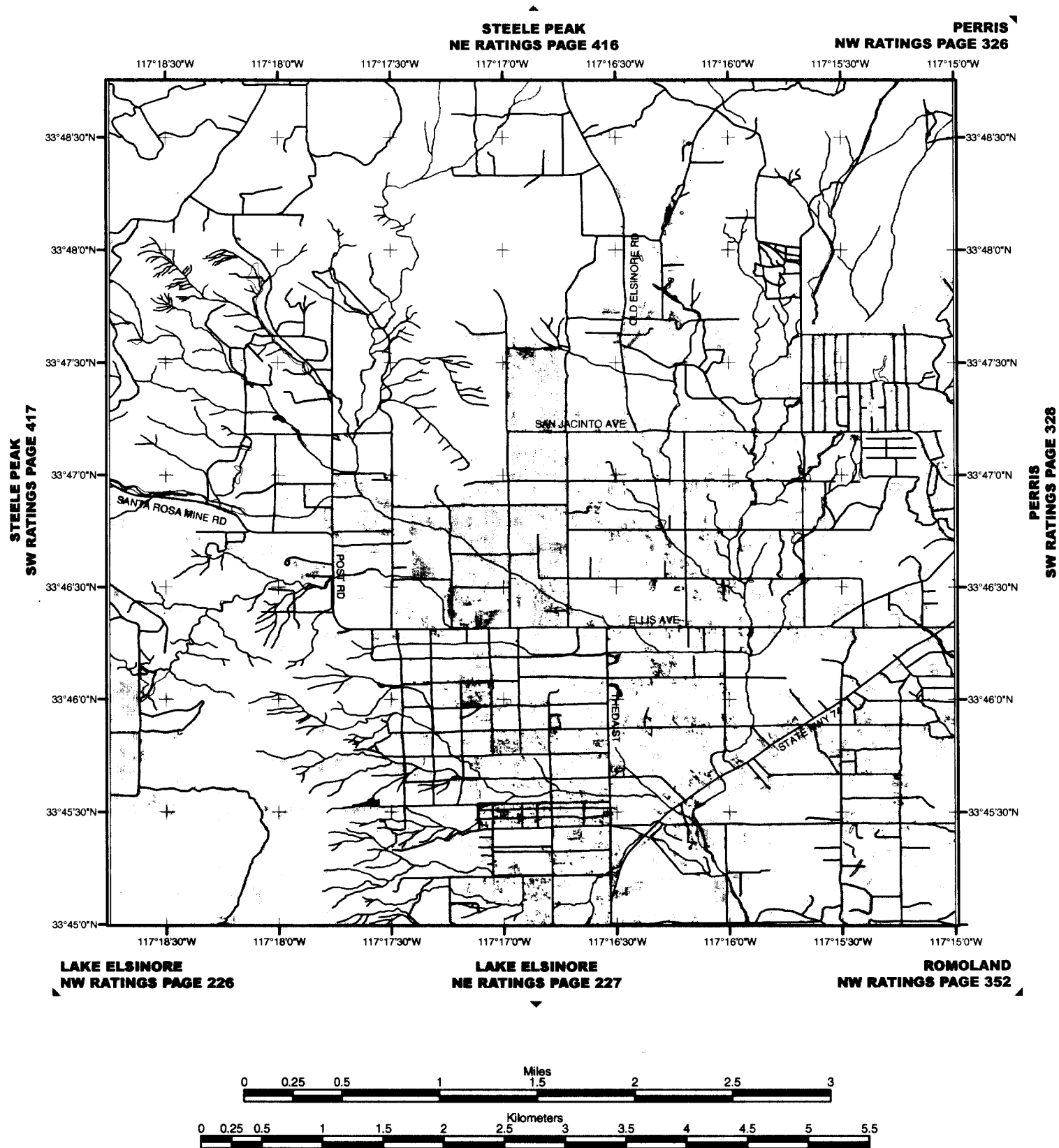
**ALBERHILL
NE RATINGS PAGE 23**

**LAKE ELSINORE
NW RATINGS PAGE 226**

**LAKE ELSINORE
NE RATINGS PAGE 227**

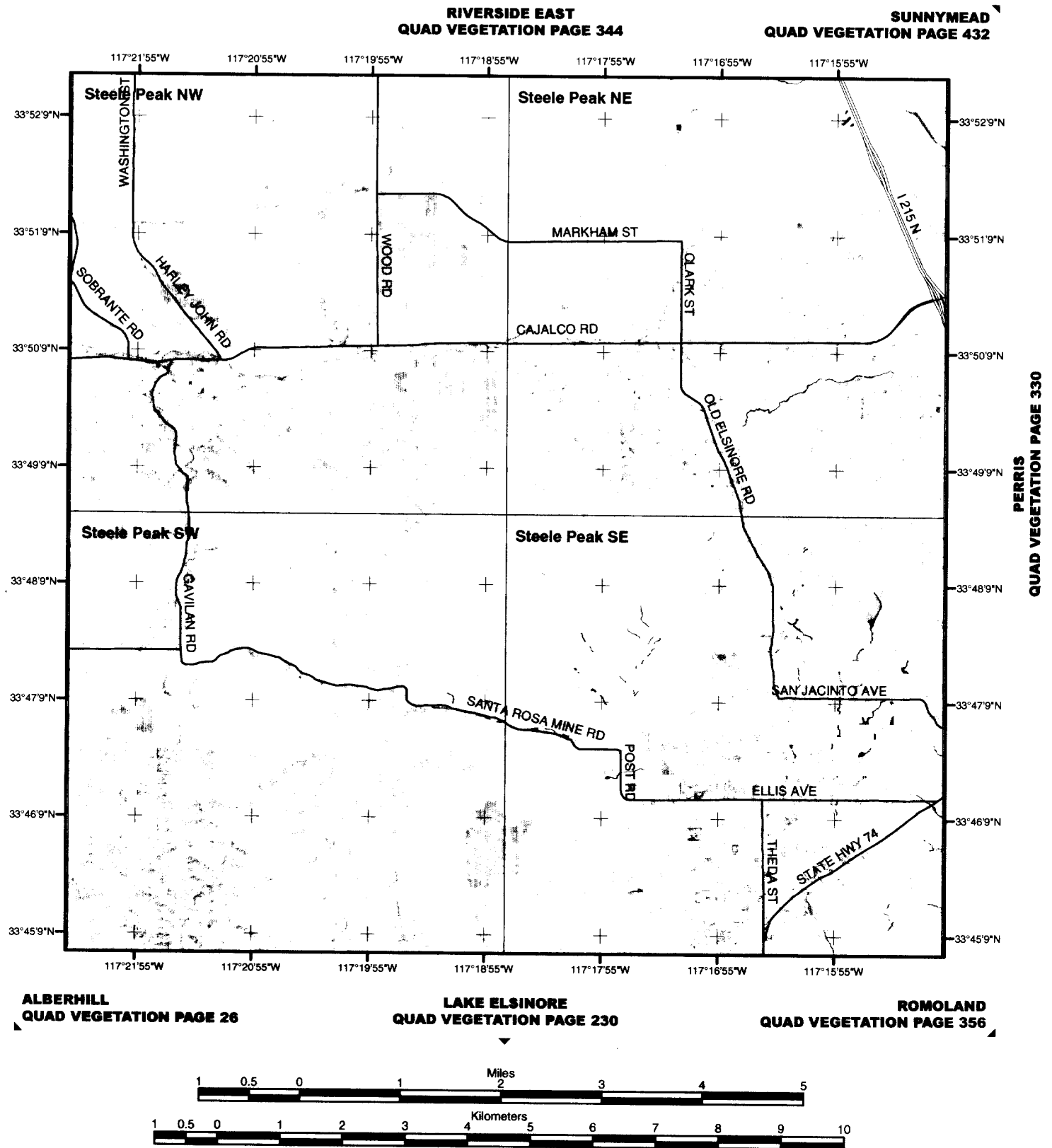


Steele Peak South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

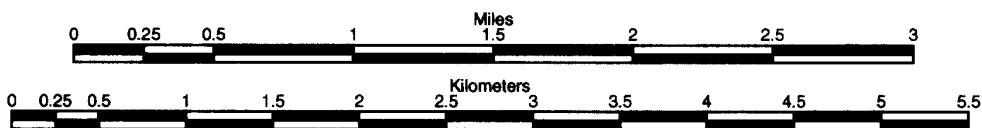
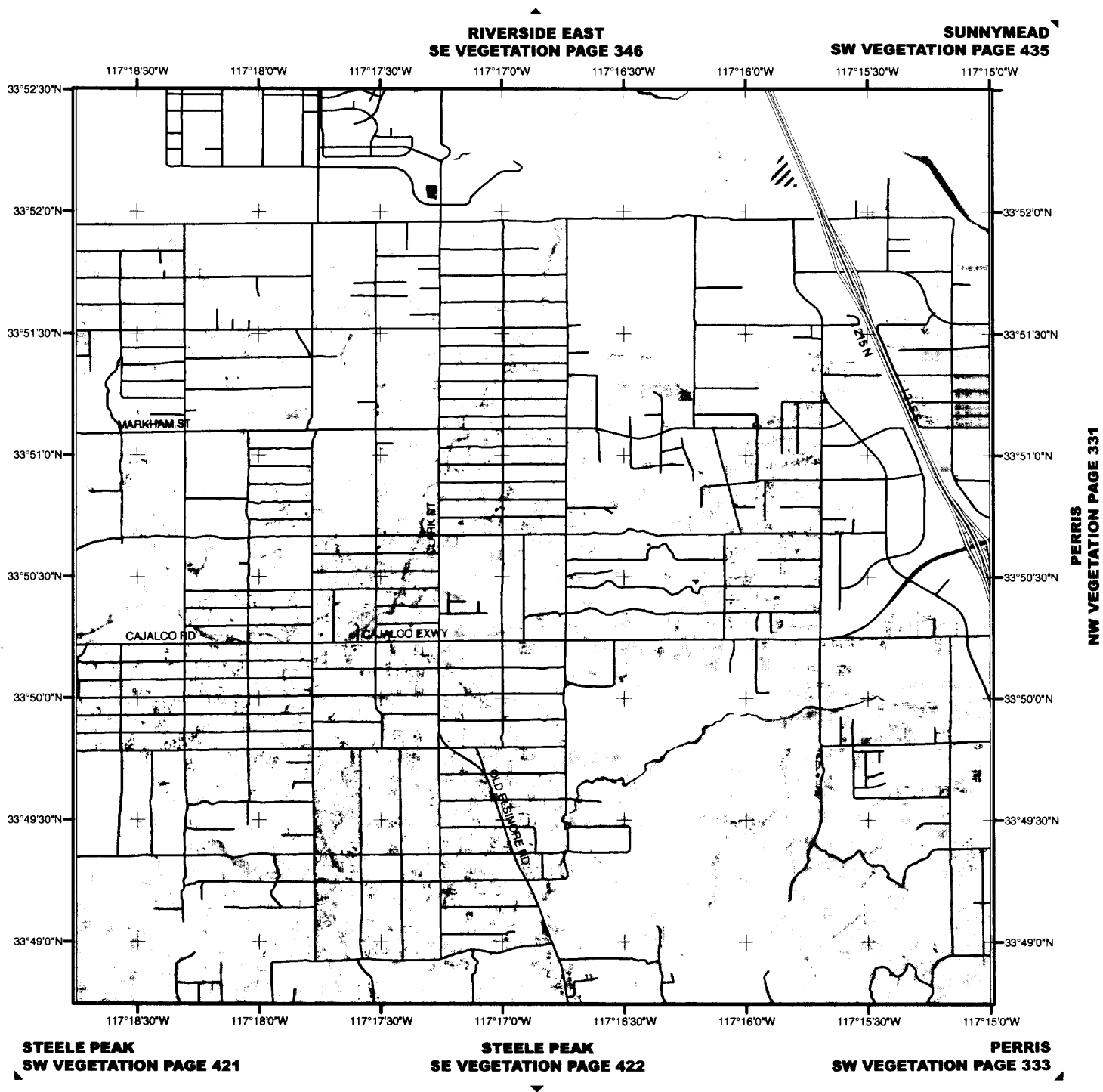


Steele Peak Quadrangle

Vegetation Species Association Units for Aquatic Resources

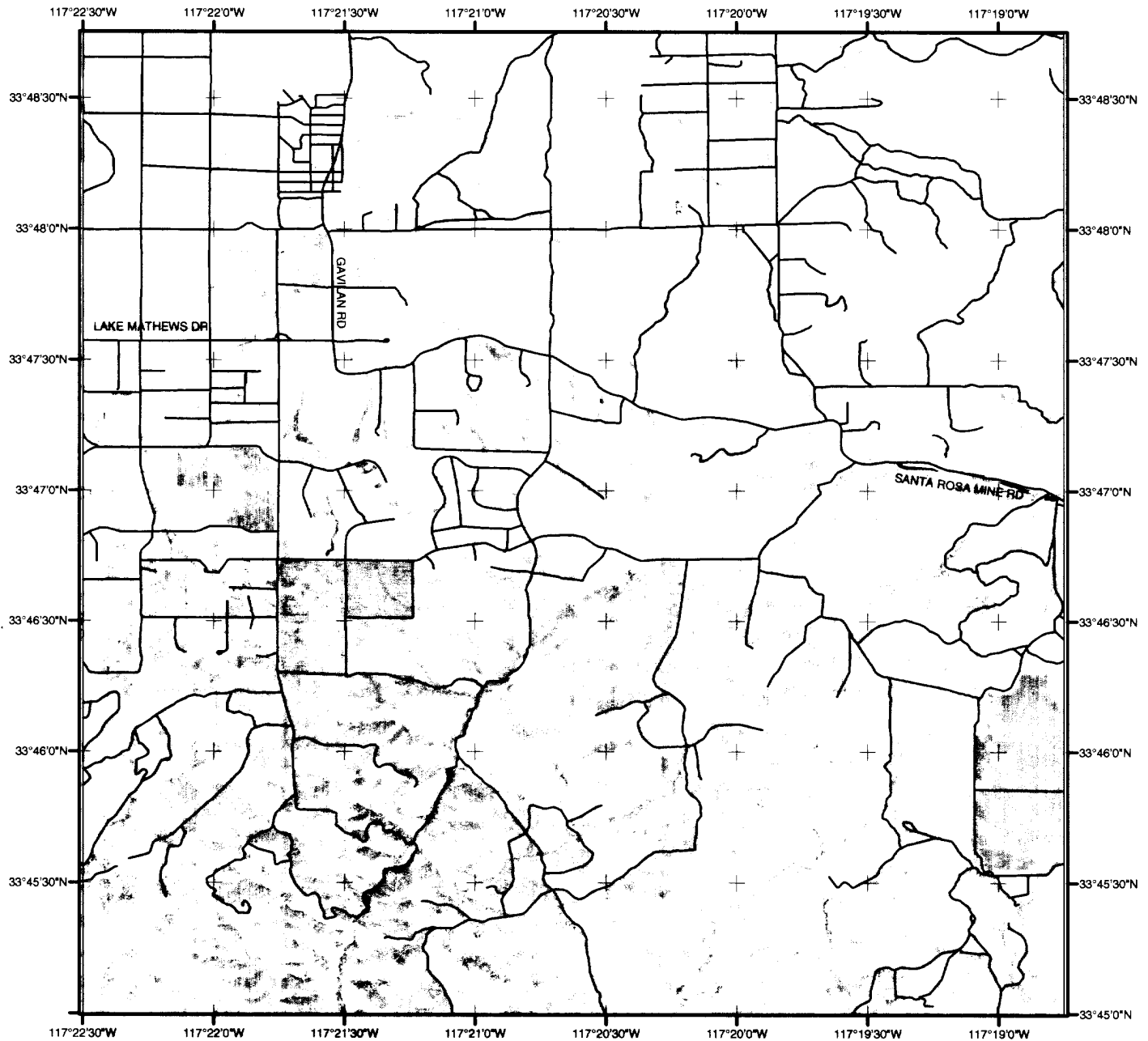


Steele Peak North East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



Steele Peak South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

**STEELE PEAK
NE VEGETATION PAGE 420**

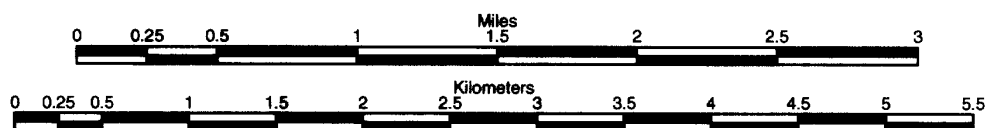


**ALBERHILL
NE VEGETATION PAGE 28**

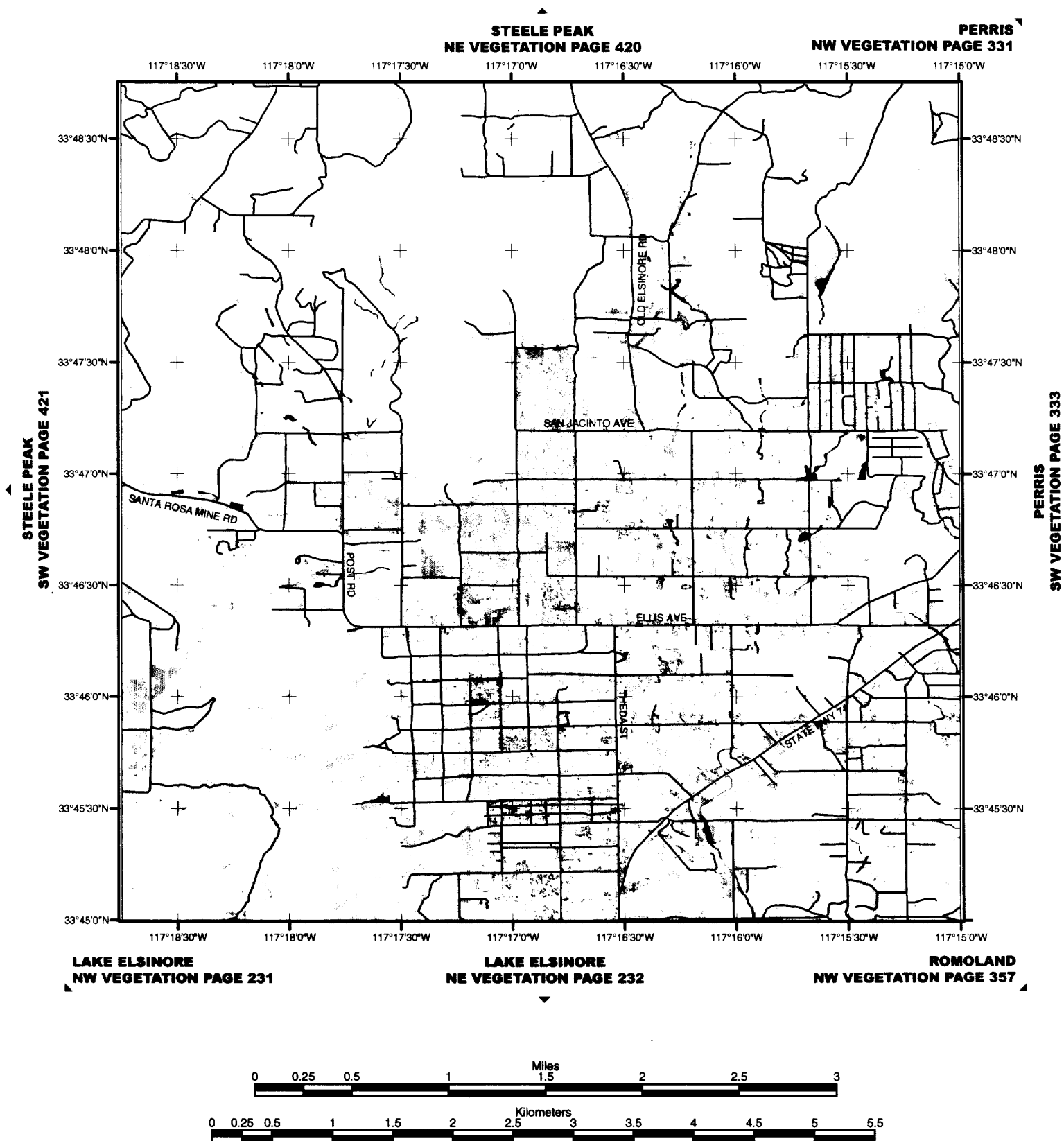
**LAKE ELSINORE
NW VEGETATION PAGE 231**

**LAKE ELSINORE
NE VEGETATION PAGE 232**

**STEELE PEAK
SE VEGETATION PAGE 422**

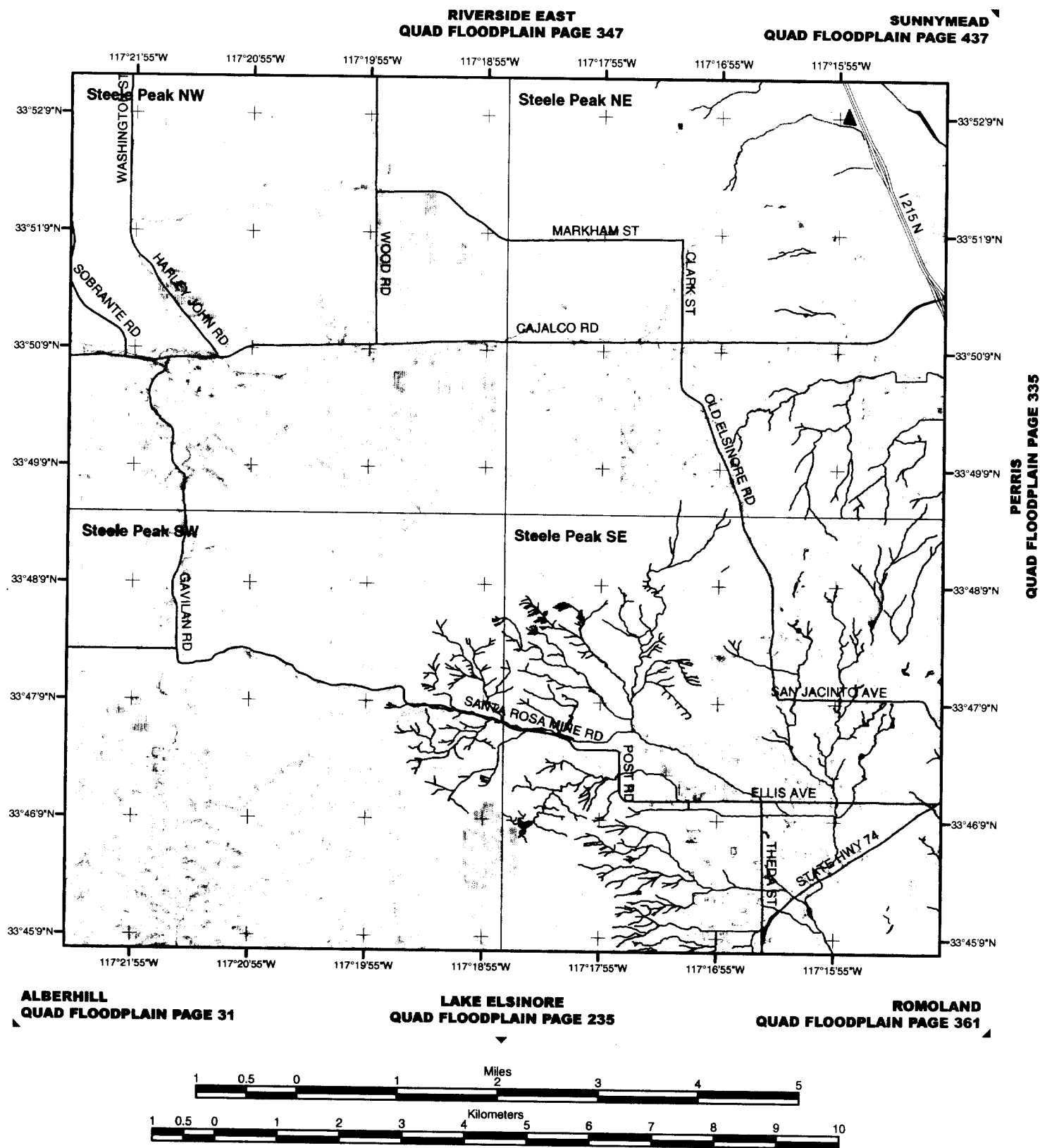


Steele Peak South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

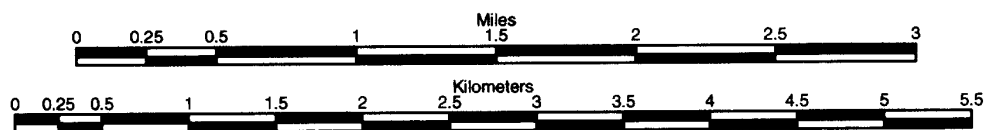
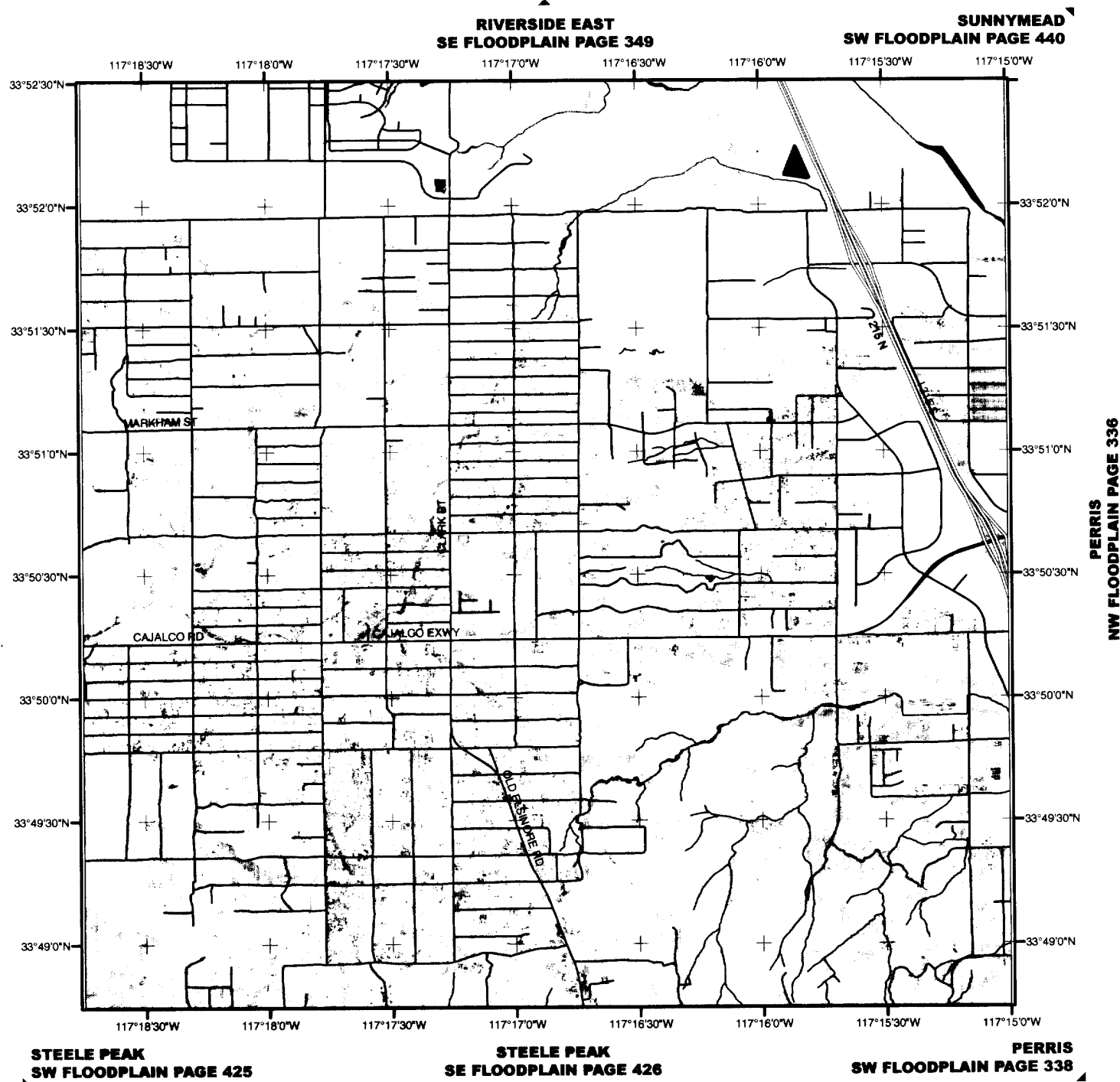


Steele Peak Quadrangle

Hydrogeomorphic Floodplain Units for Aquatic Resources

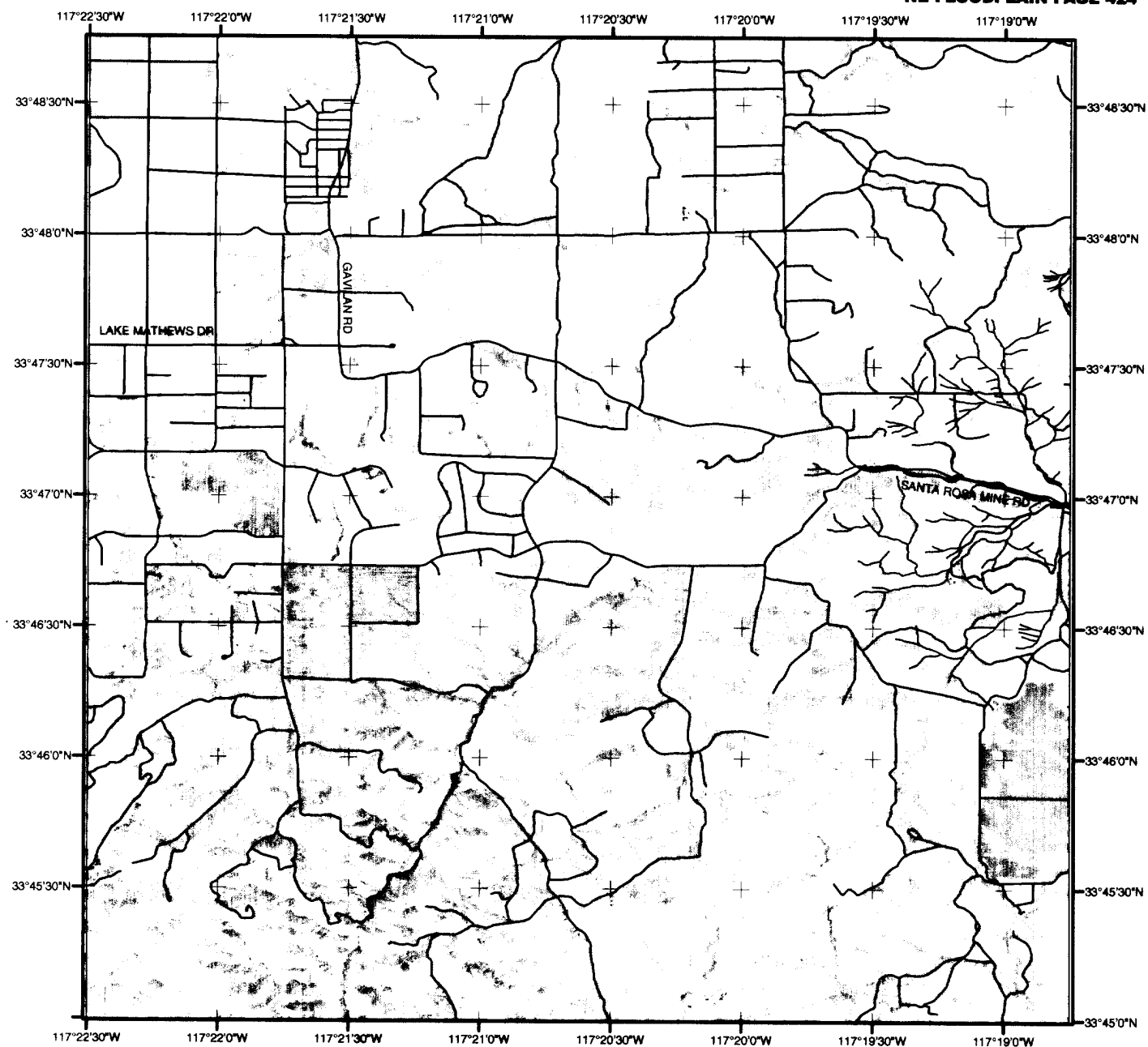


Steele Peak North East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



Steele Peak South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

**STEELE PEAK
NE FLOODPLAIN PAGE 424**

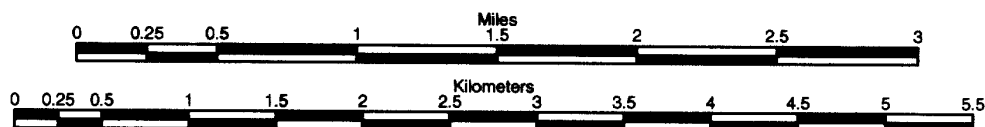


**STEELE PEAK
SE FLOODPLAIN PAGE 426**

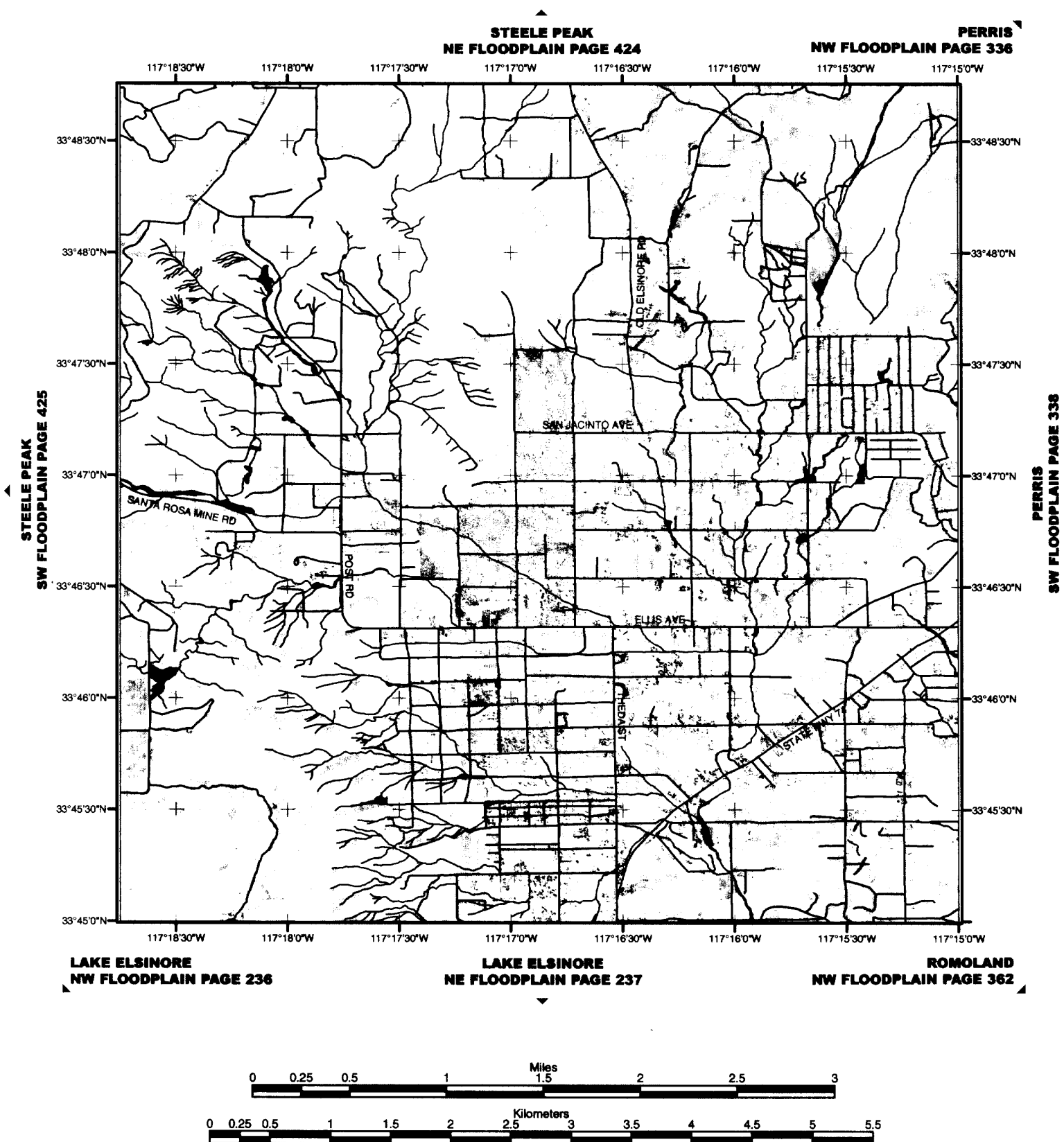
**ALBERHILL
NE FLOODPLAIN PAGE 33**

**LAKE ELSINORE
NW FLOODPLAIN PAGE 236**

**LAKE ELSINORE
NE FLOODPLAIN PAGE 237**

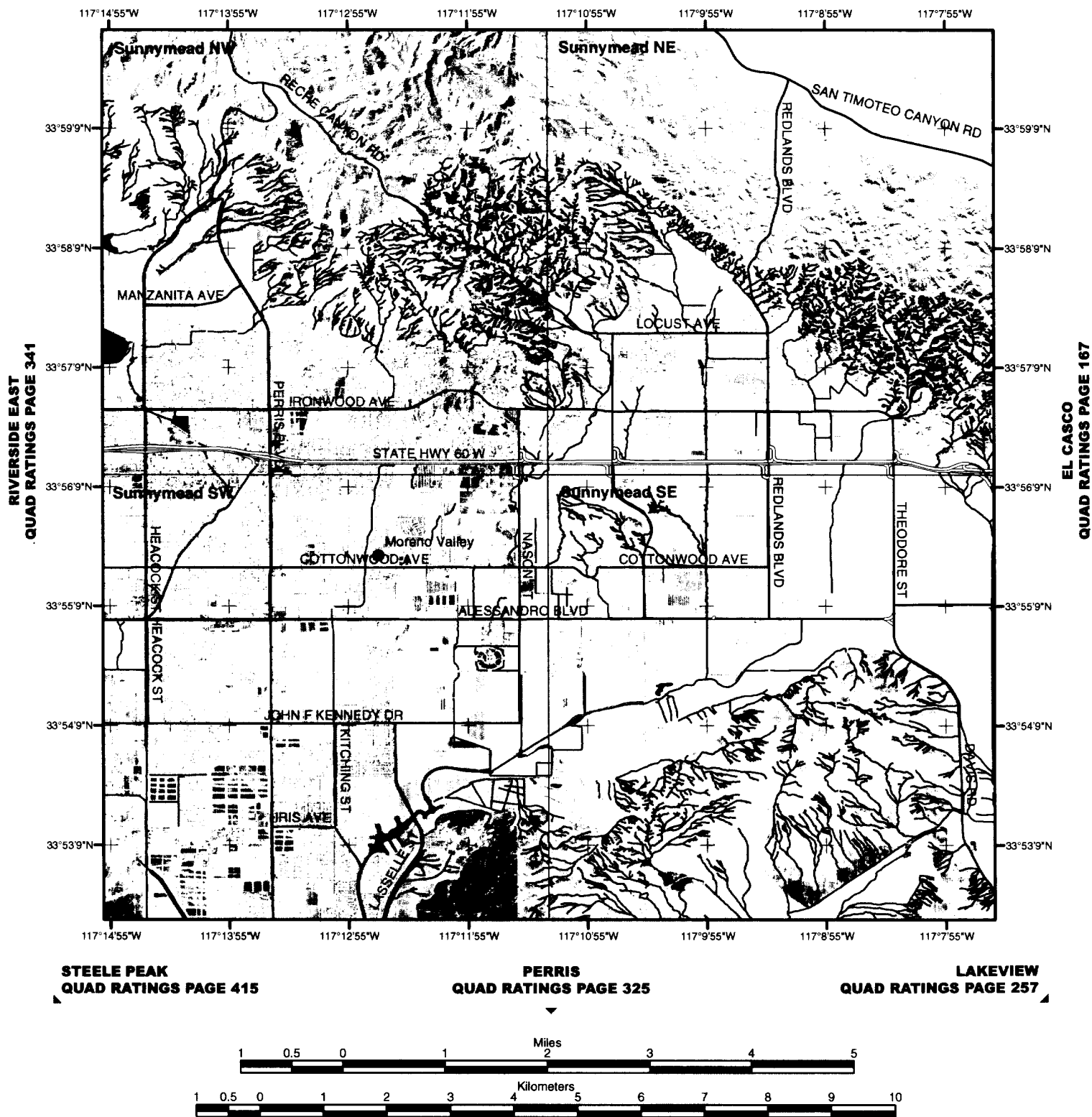


Steele Peak South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

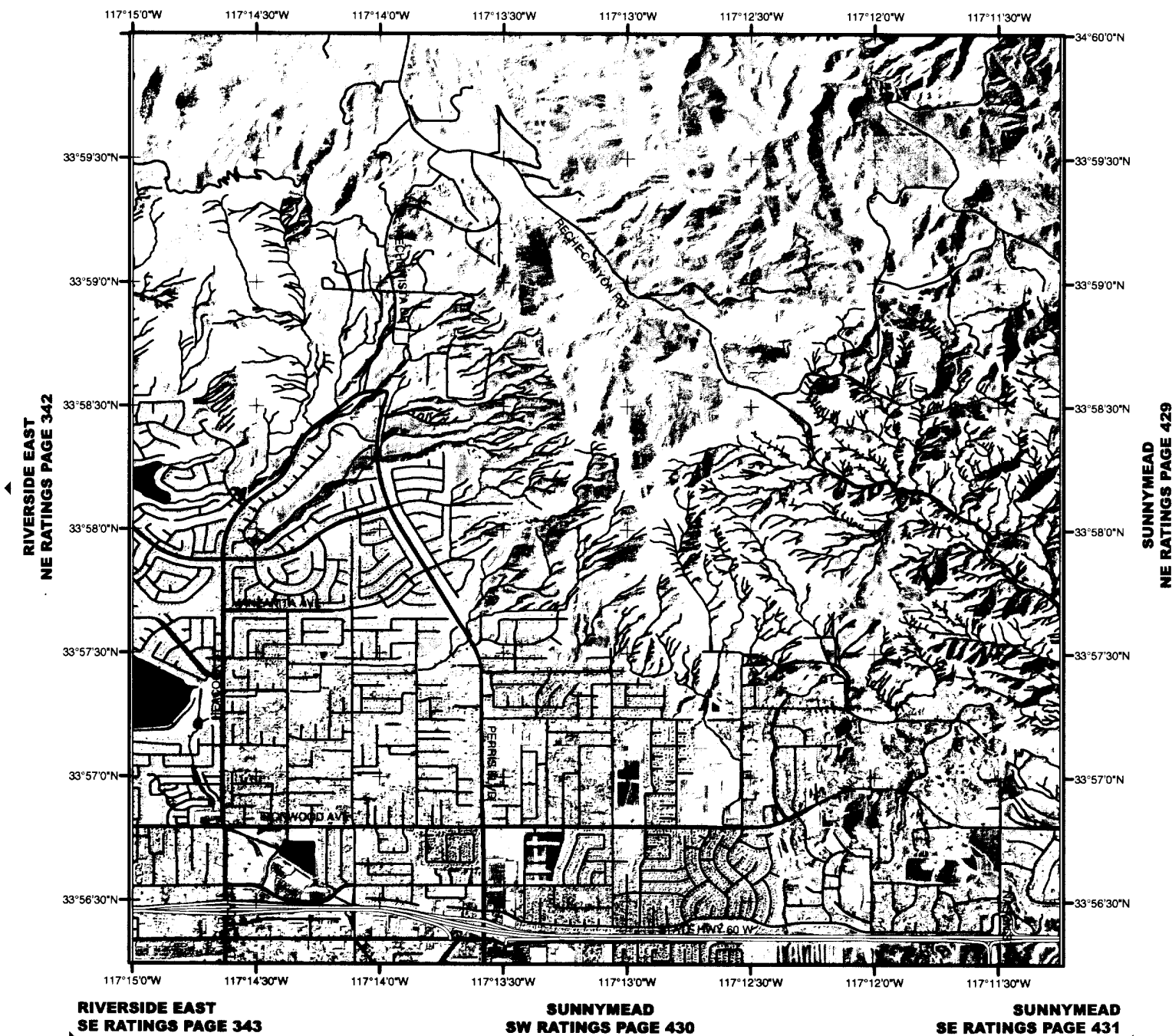


Sunnymead Quadrangle

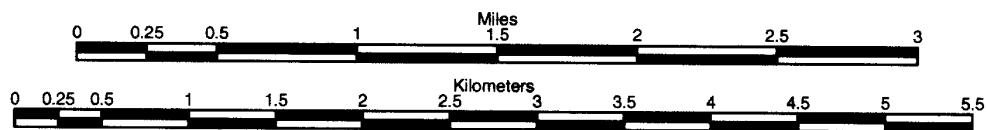
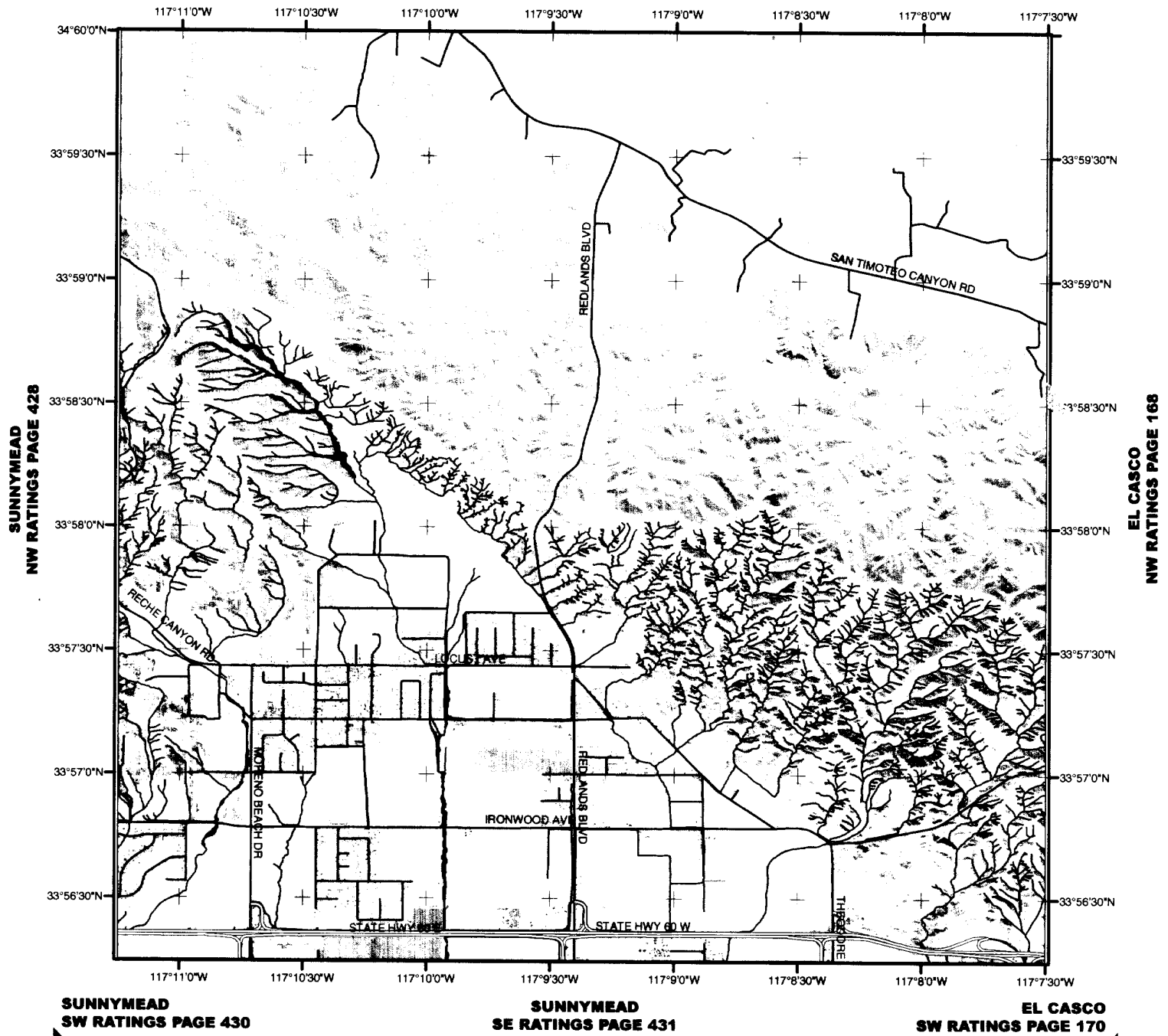
Regulatory Probability Ratings for Aquatic Resources



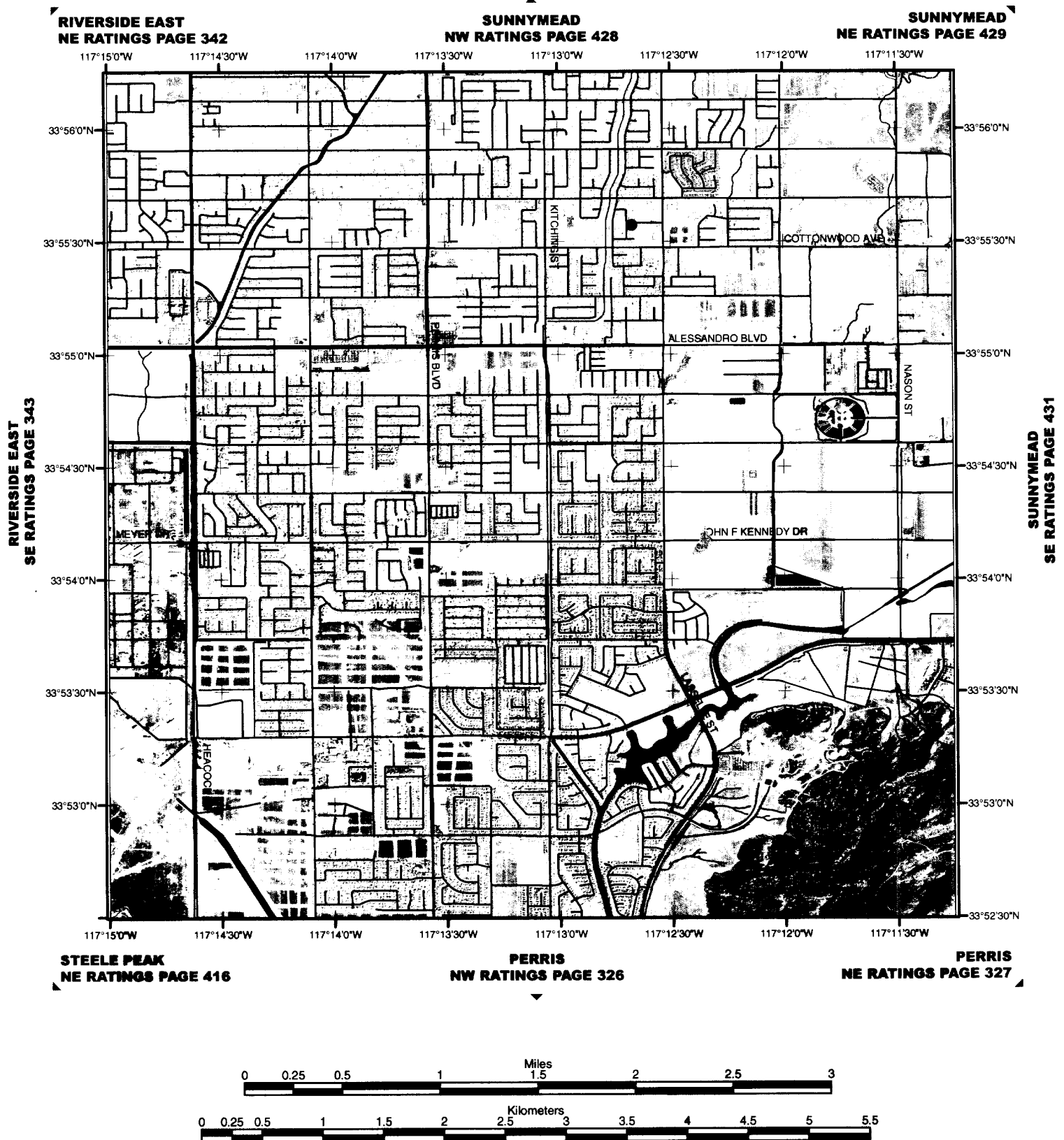
Sunnymead North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



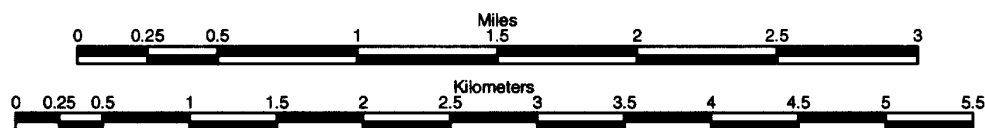
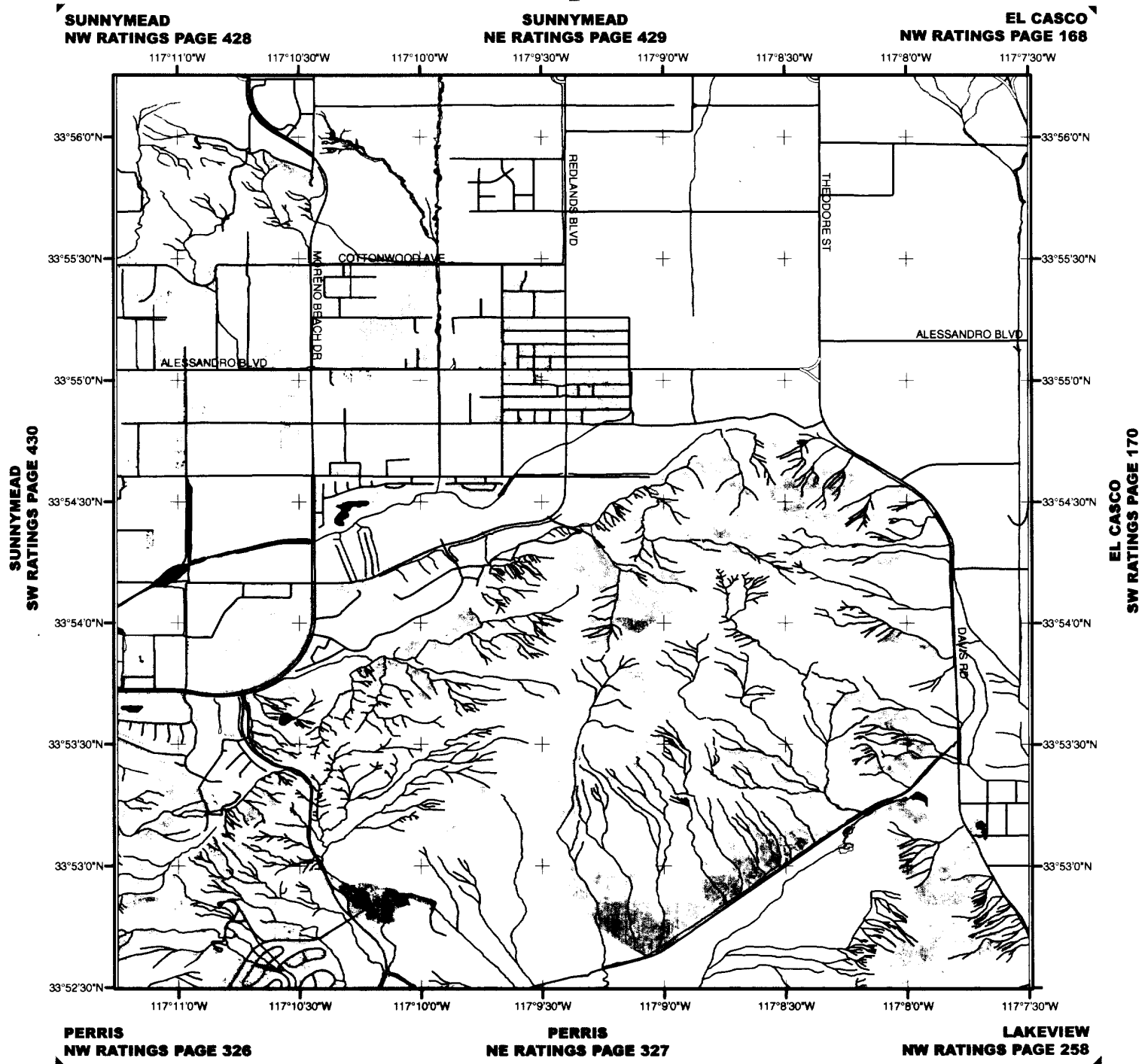
Sunnymead North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



Sunnymead South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

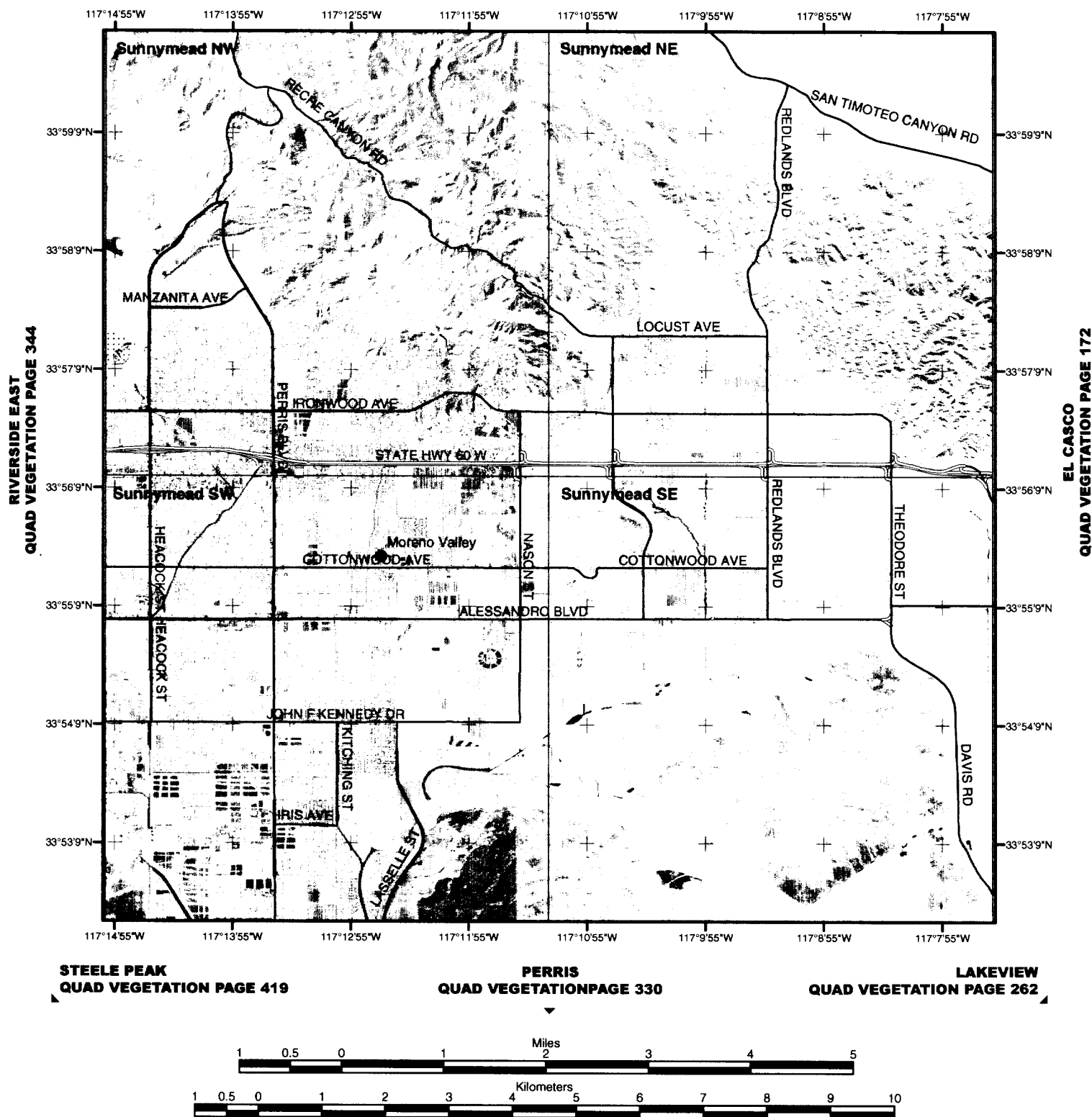


Sunnymead South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

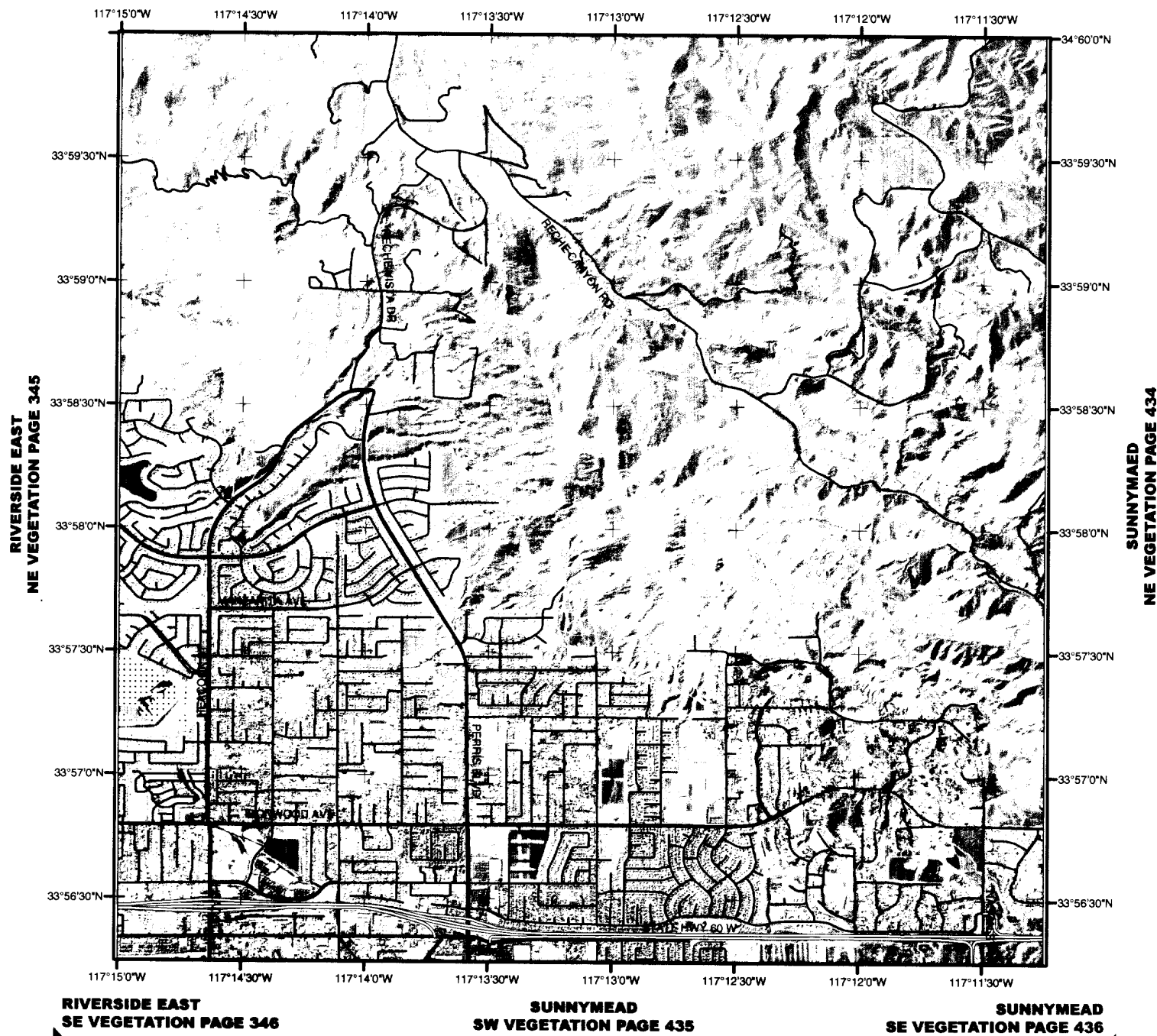


Sunnymead Quadrangle

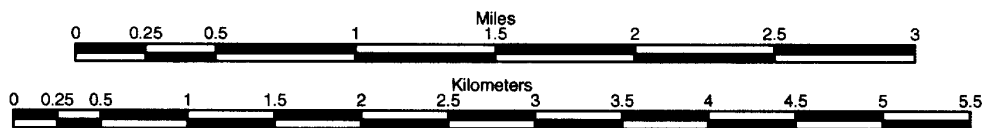
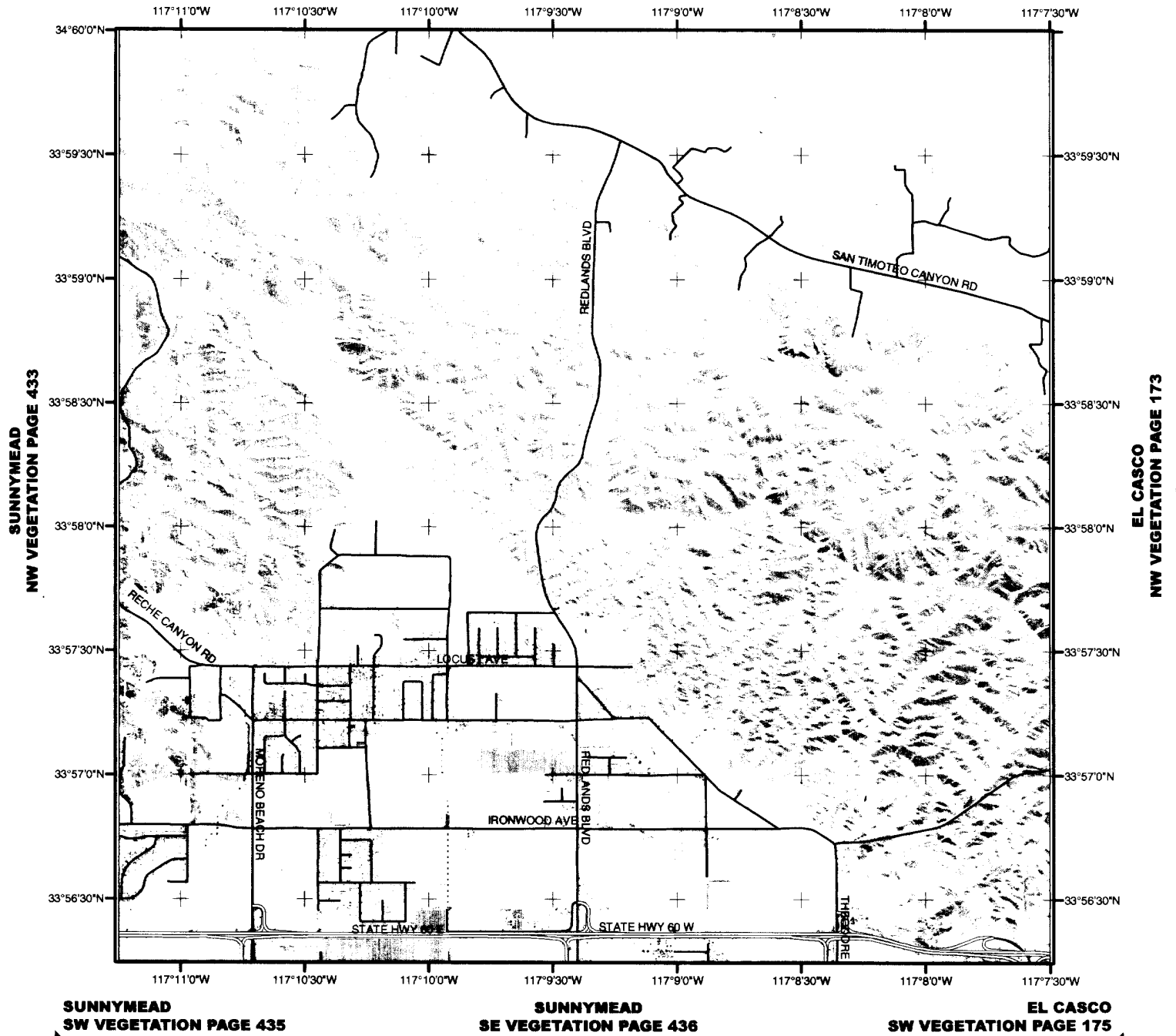
Vegetation Species Association Units for Aquatic Resources



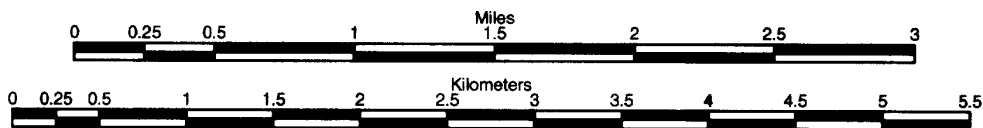
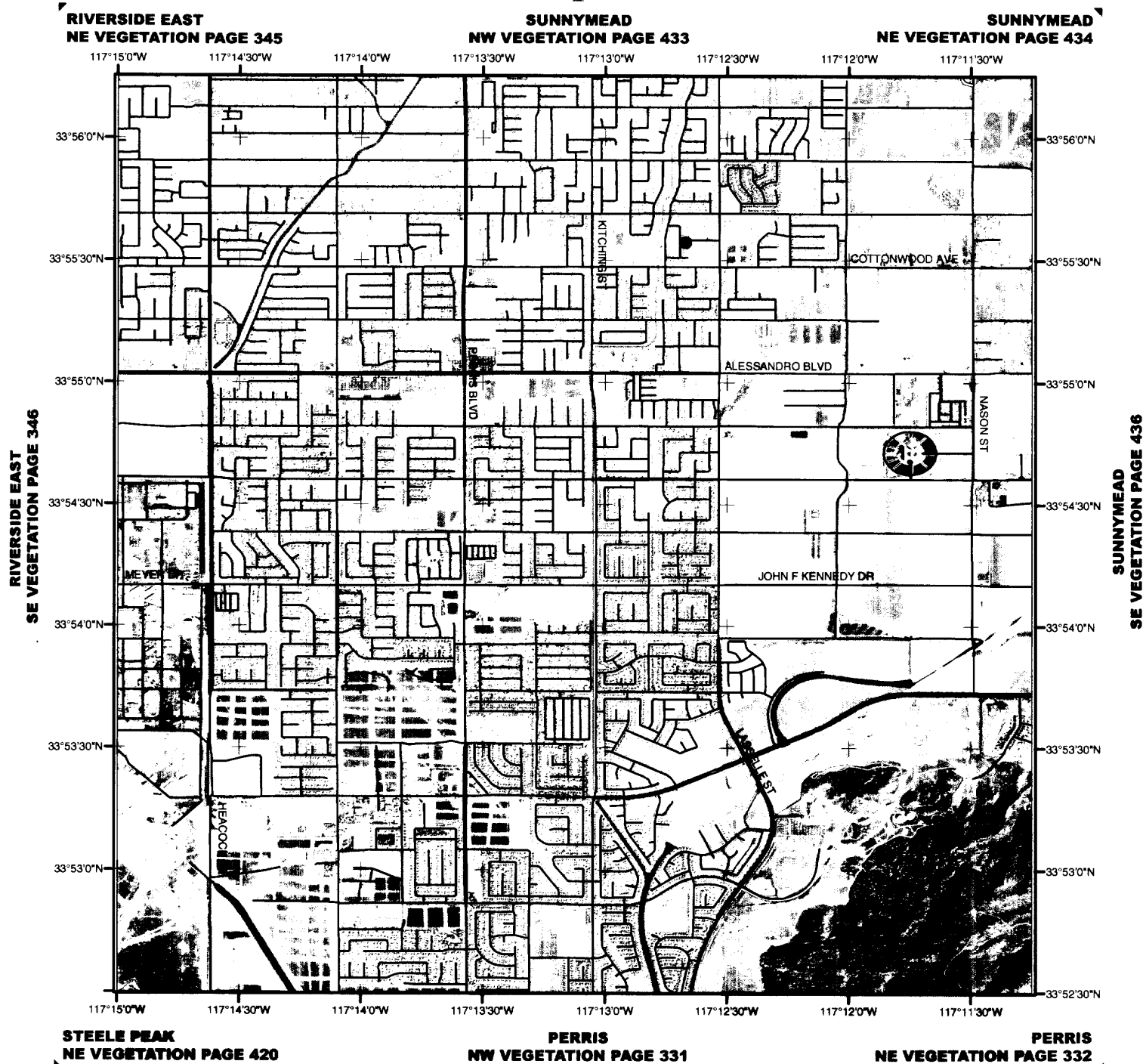
Sunnymead North West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



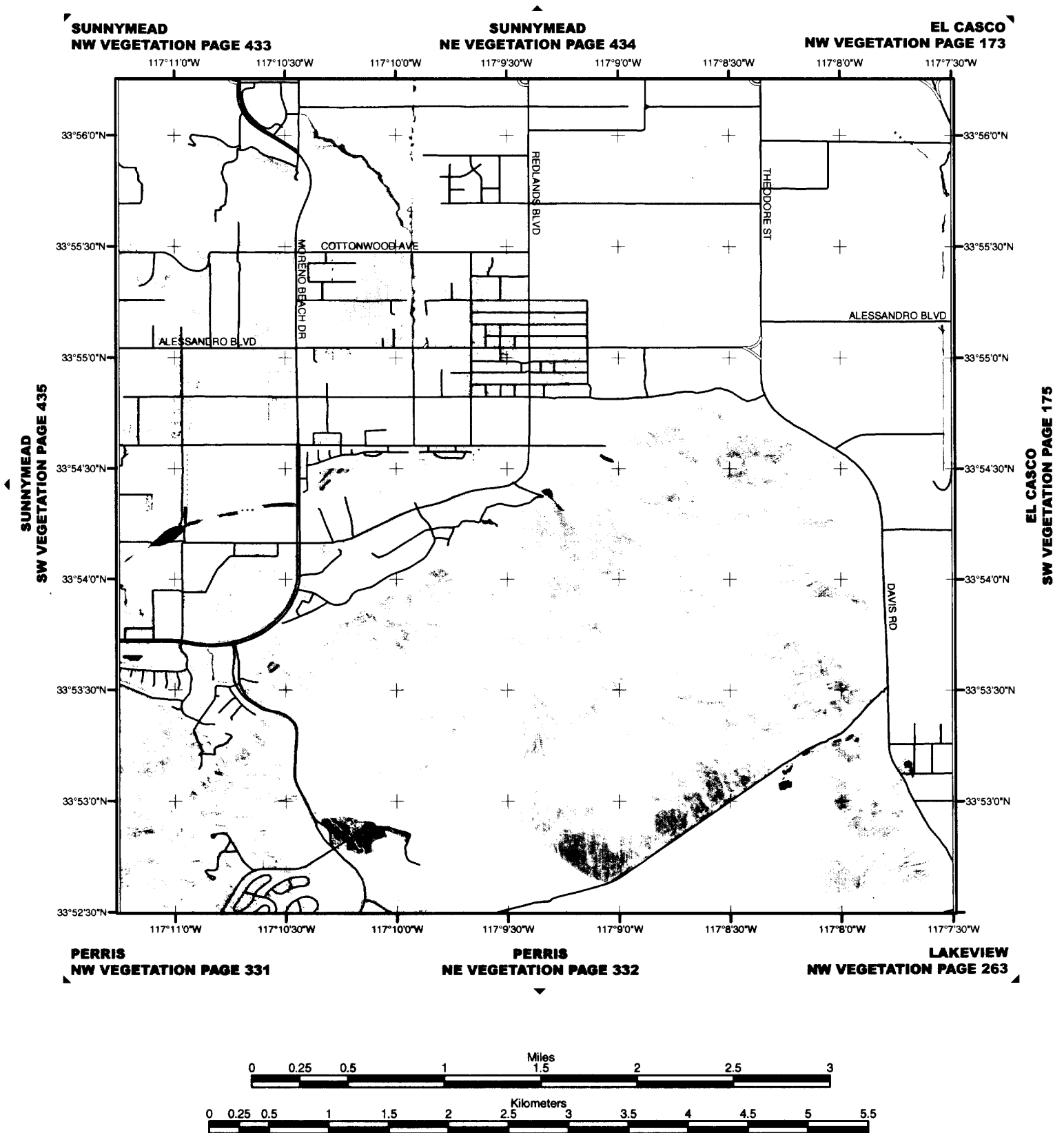
Sunnymead North East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



Sunnymead South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

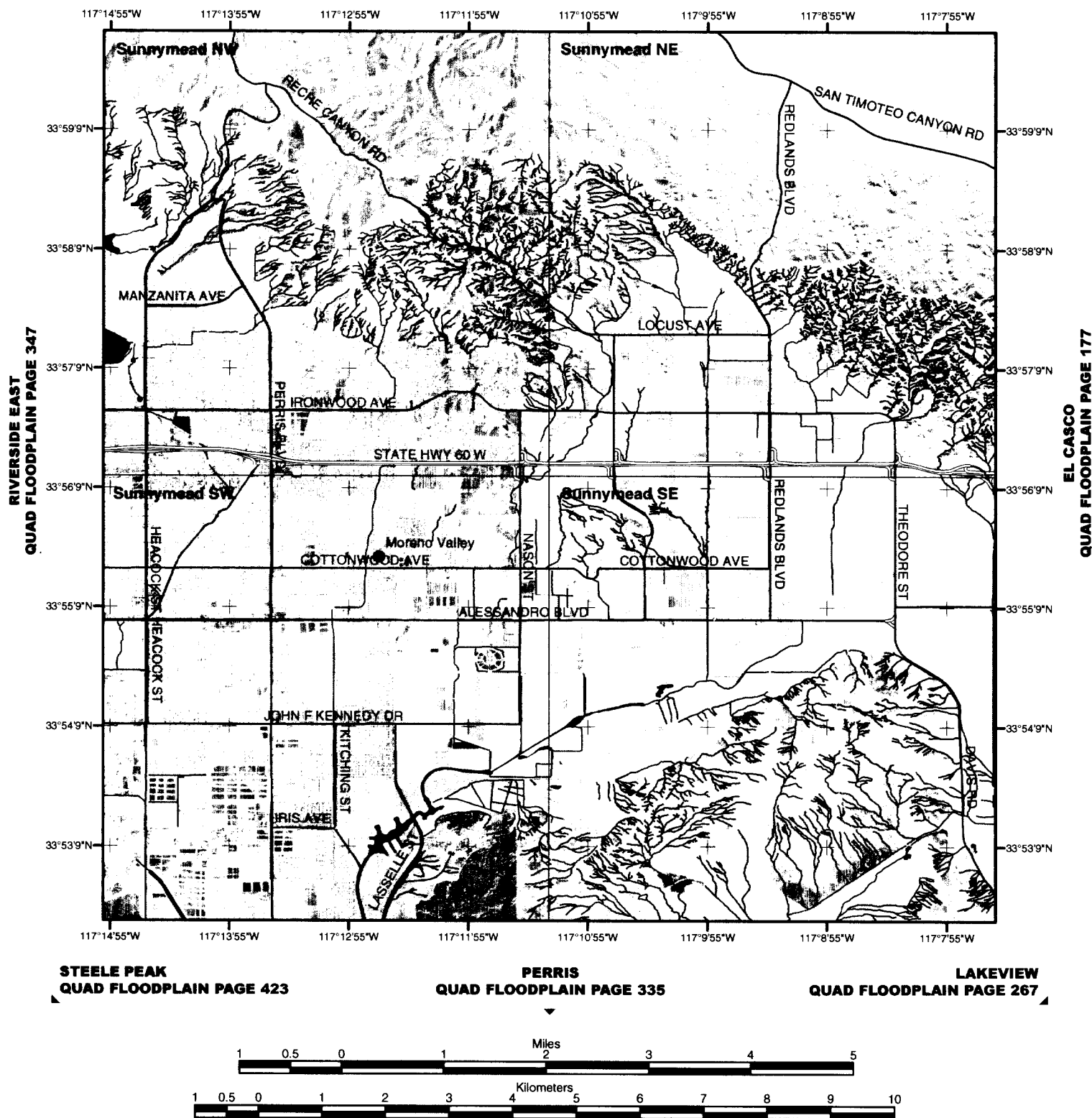


Sunnymead South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

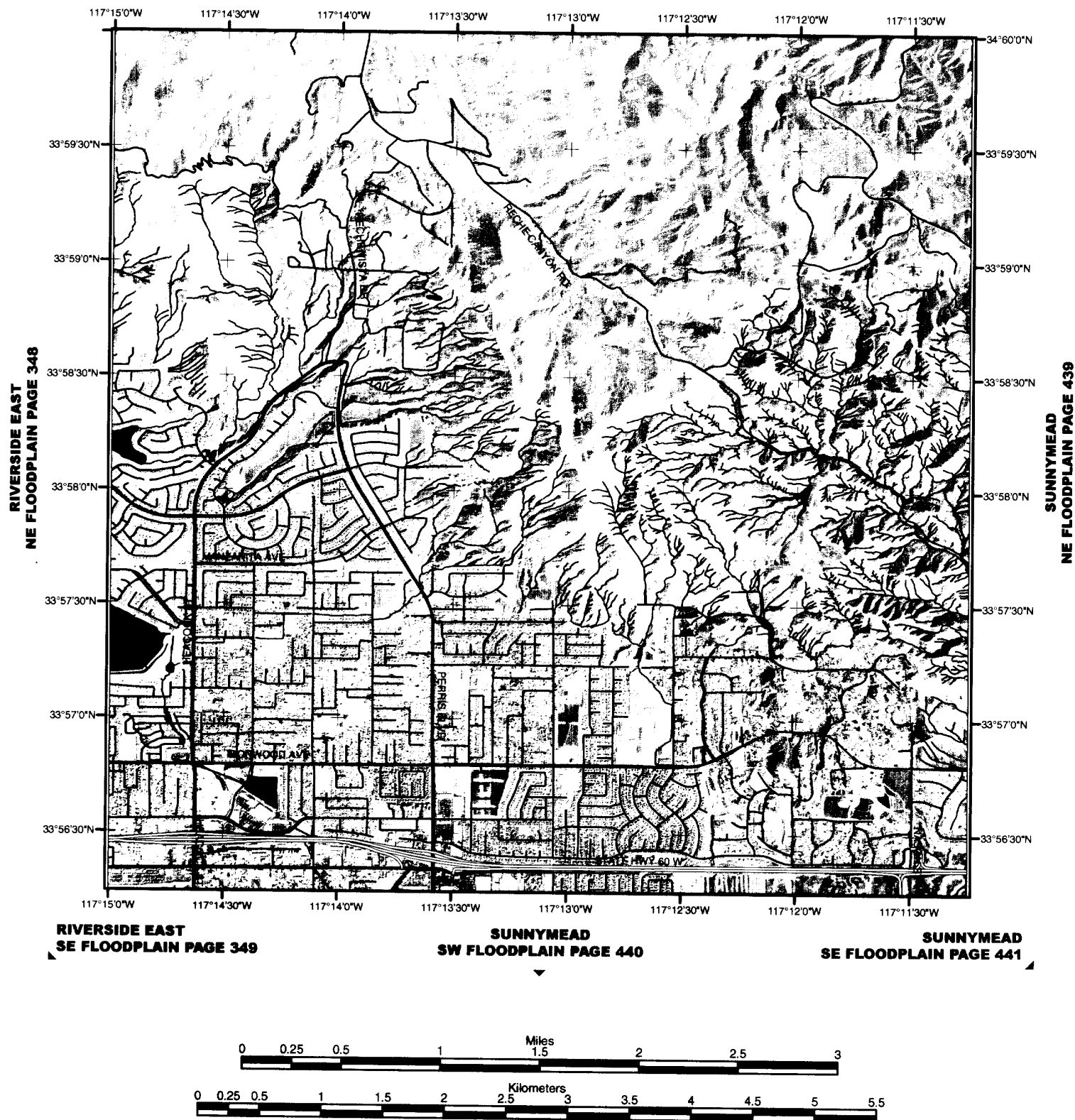


Sunnymead Quadrangle

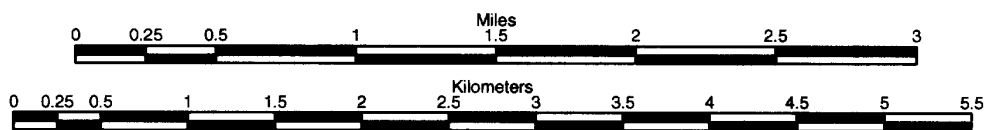
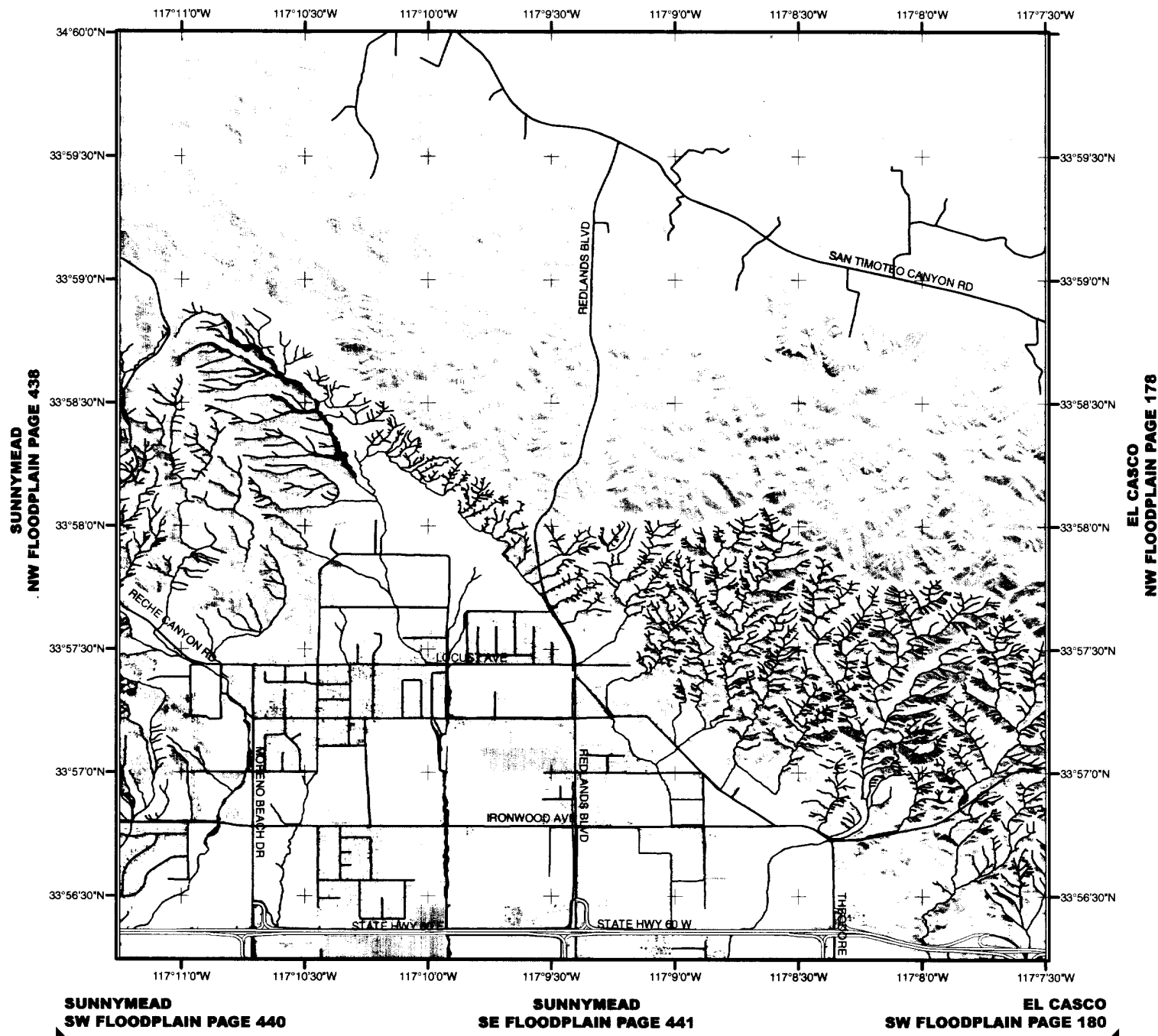
Hydrogeomorphic Floodplain Units for Aquatic Resources



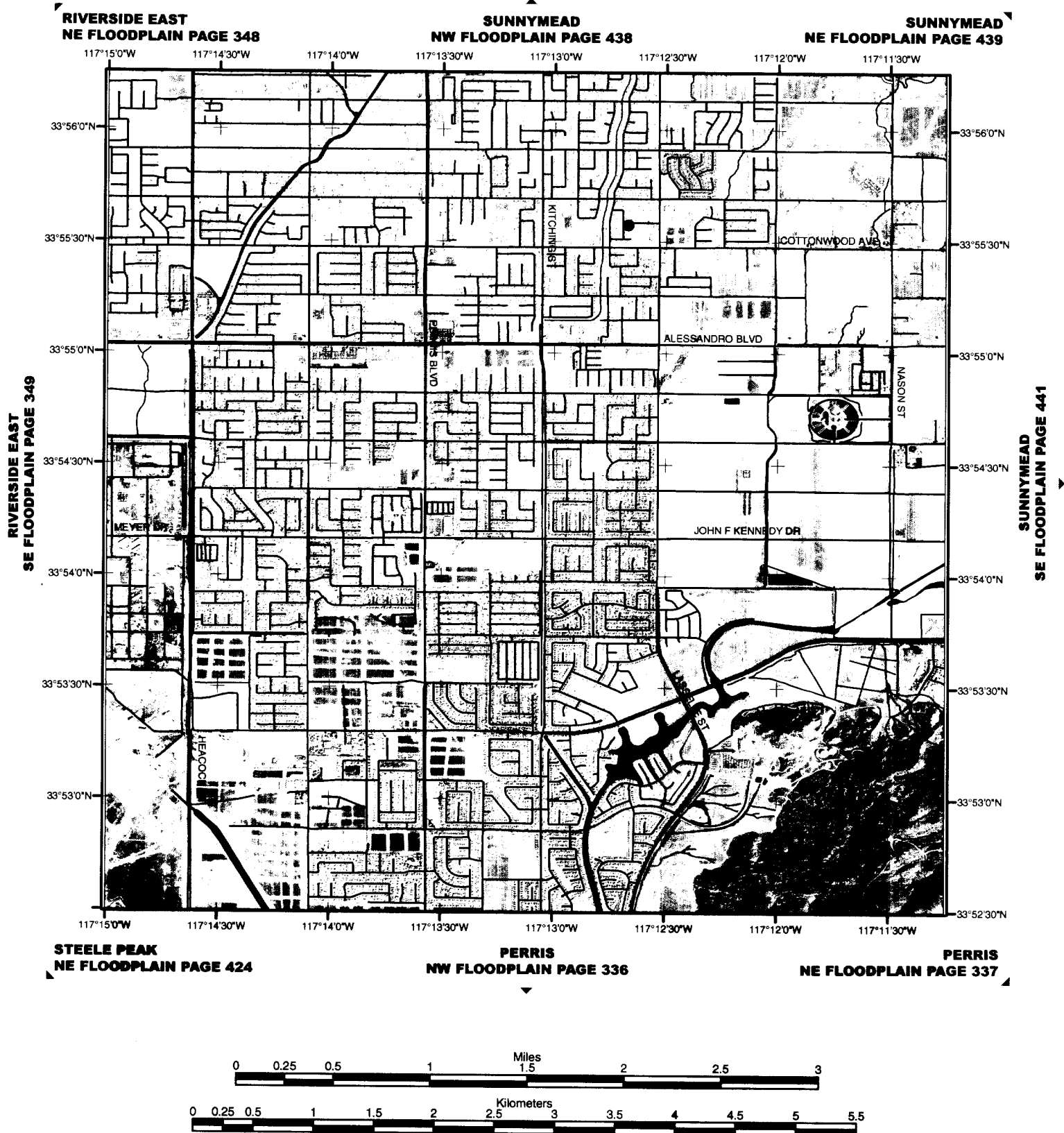
Sunnymead North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



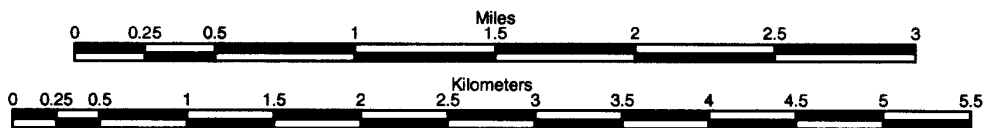
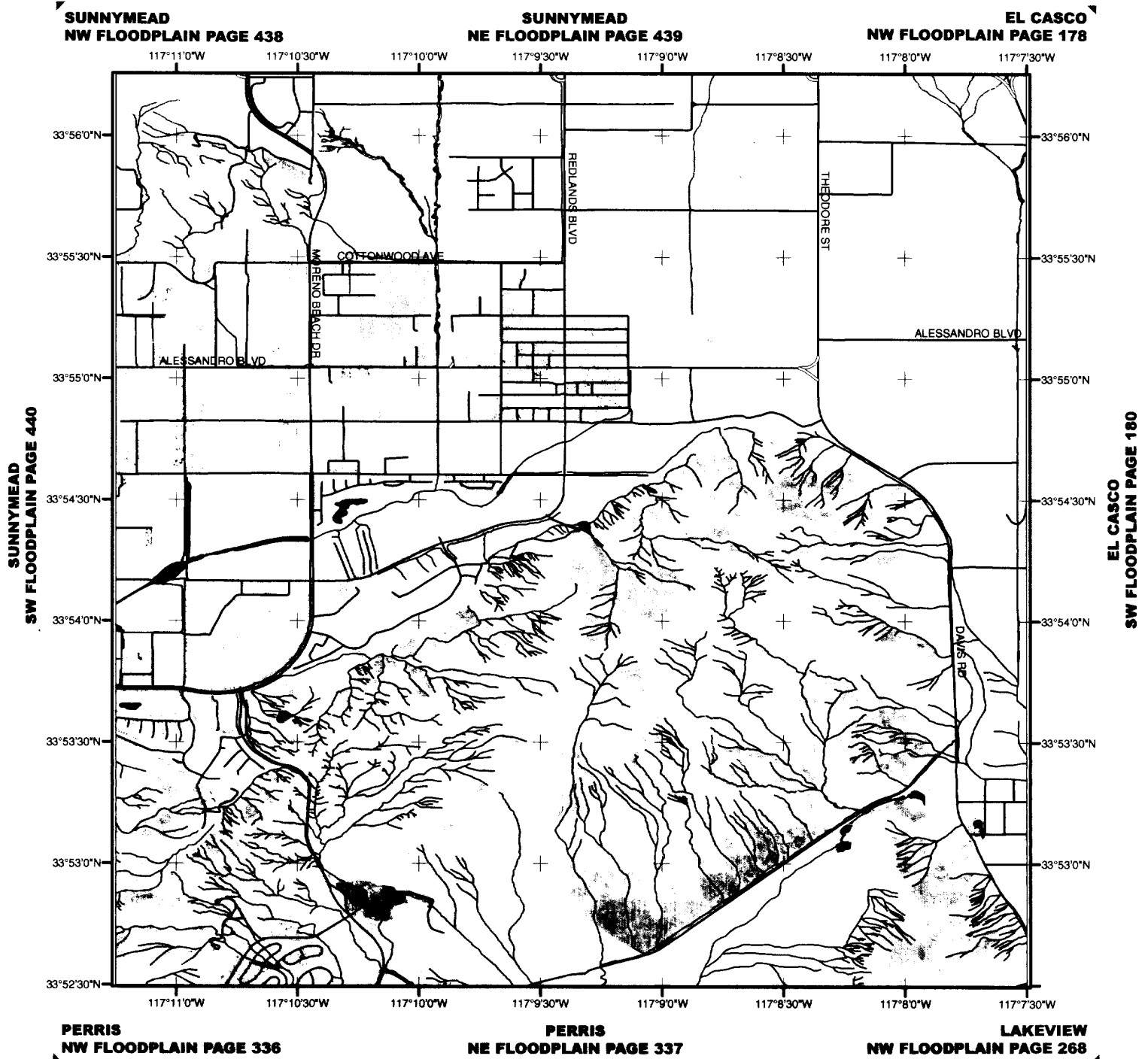
Sunnymead North East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



Sunnymead South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

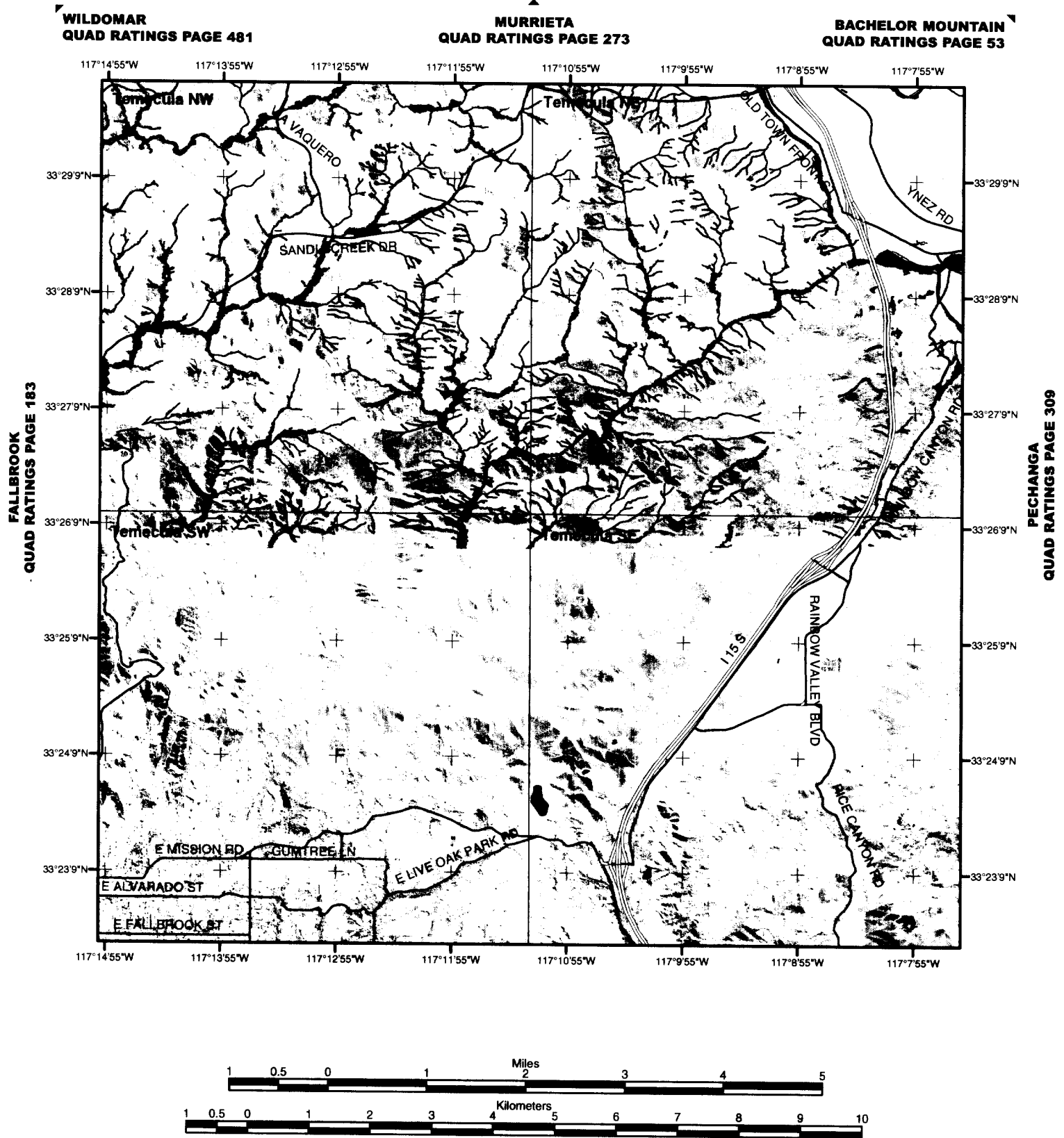


Sunnymead South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

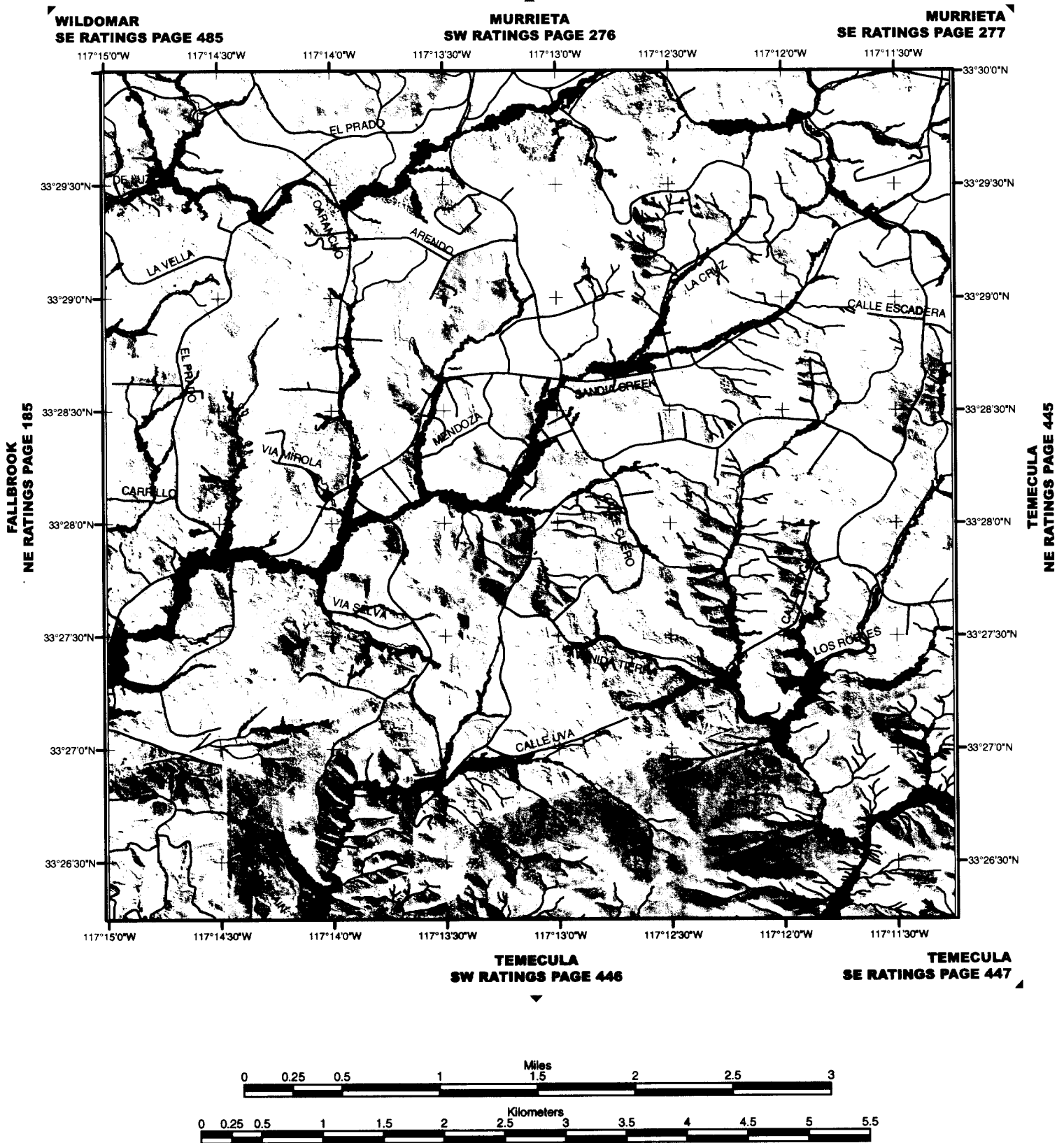


Temecula Quadrangle

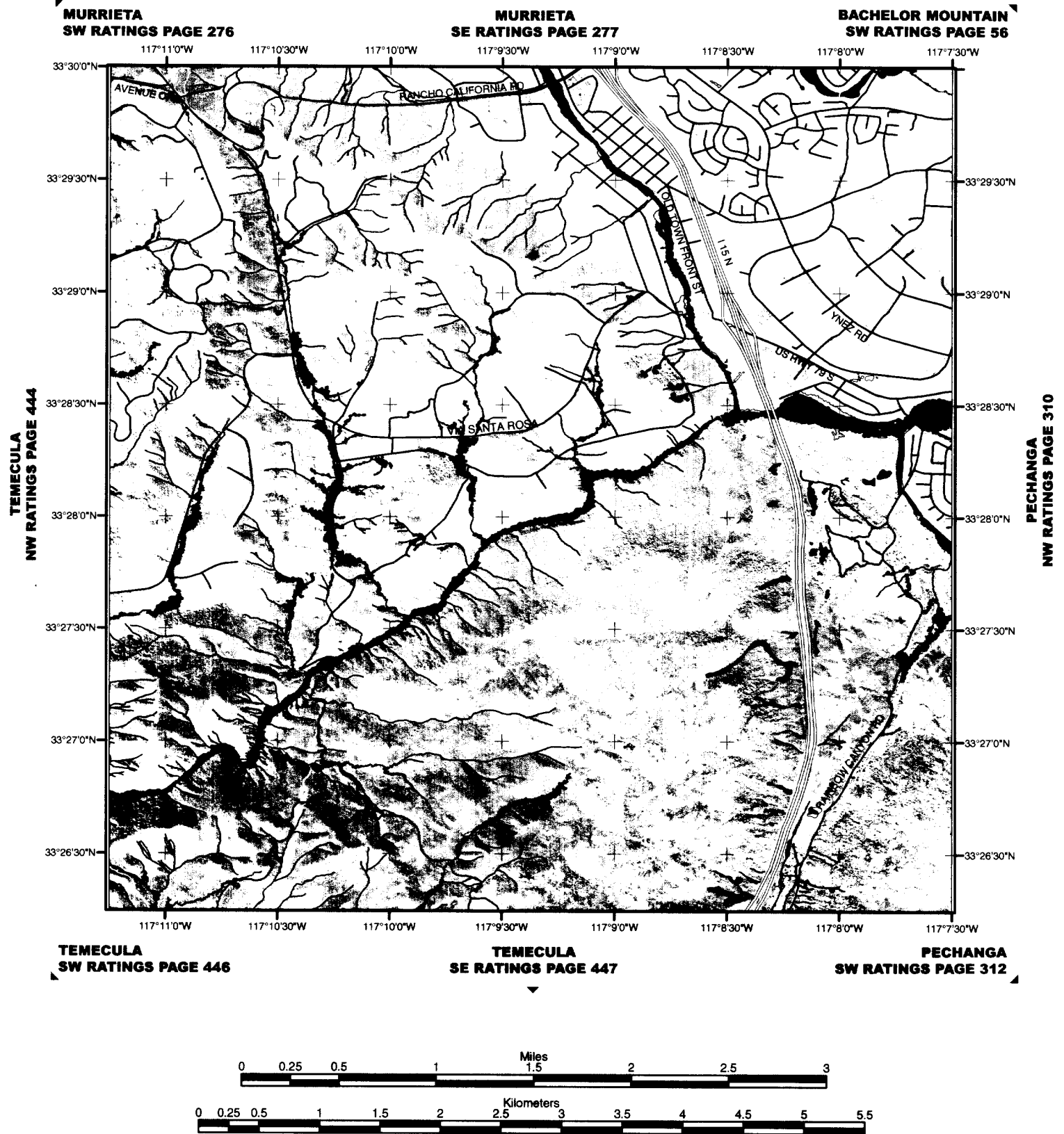
Regulatory Probability Ratings for Aquatic Resources



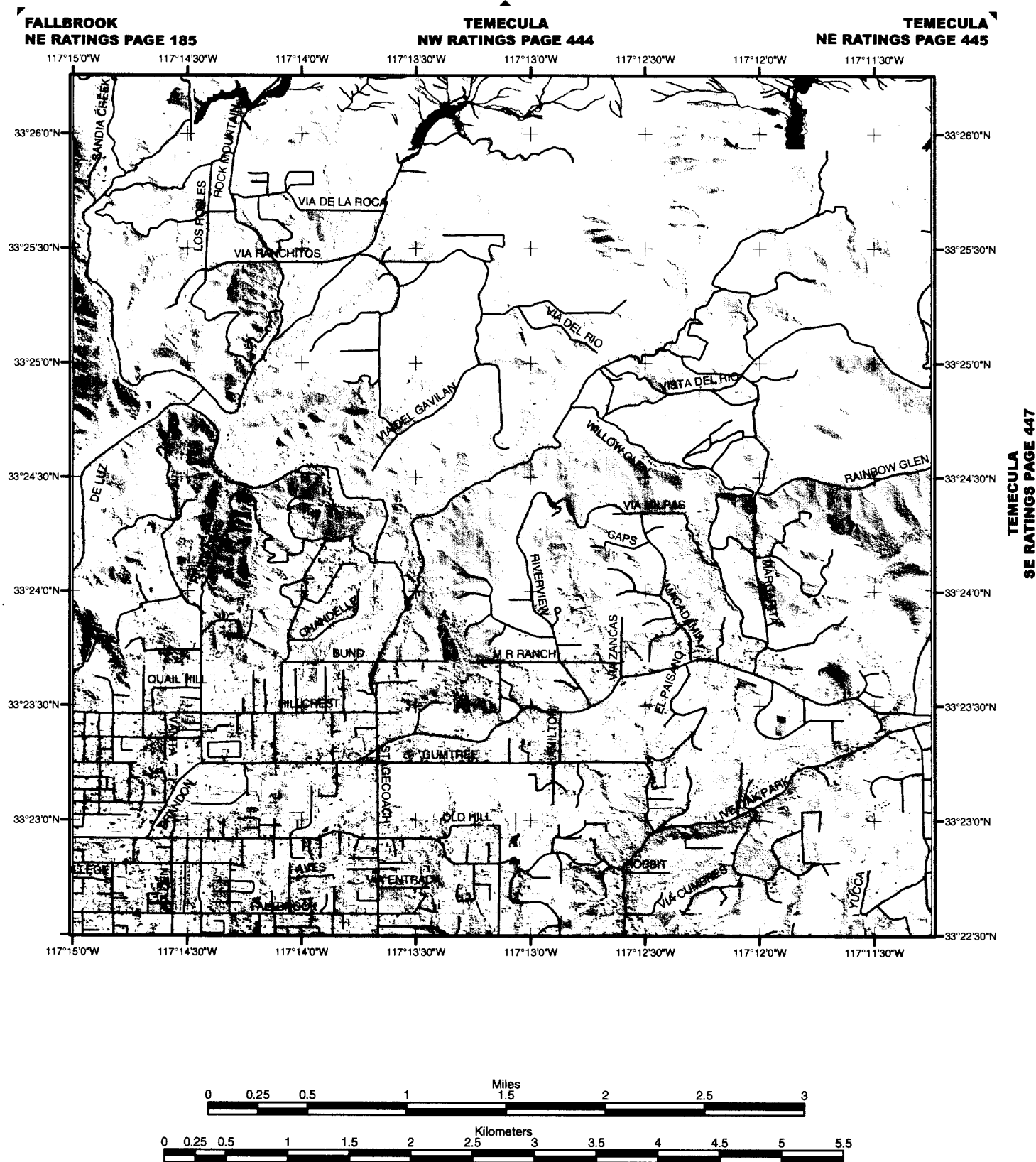
Temecula North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



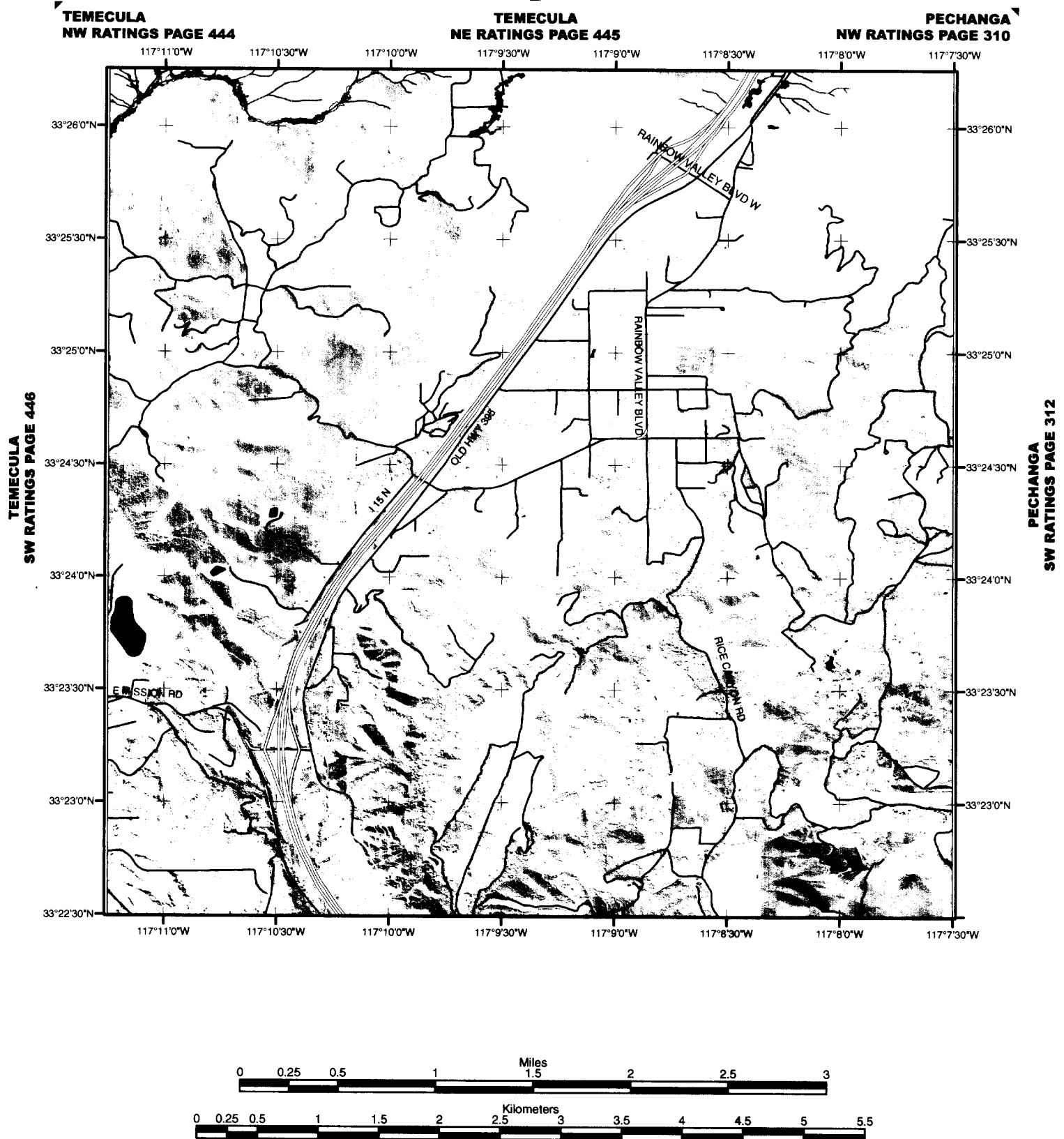
Temecula North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



Temecula South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

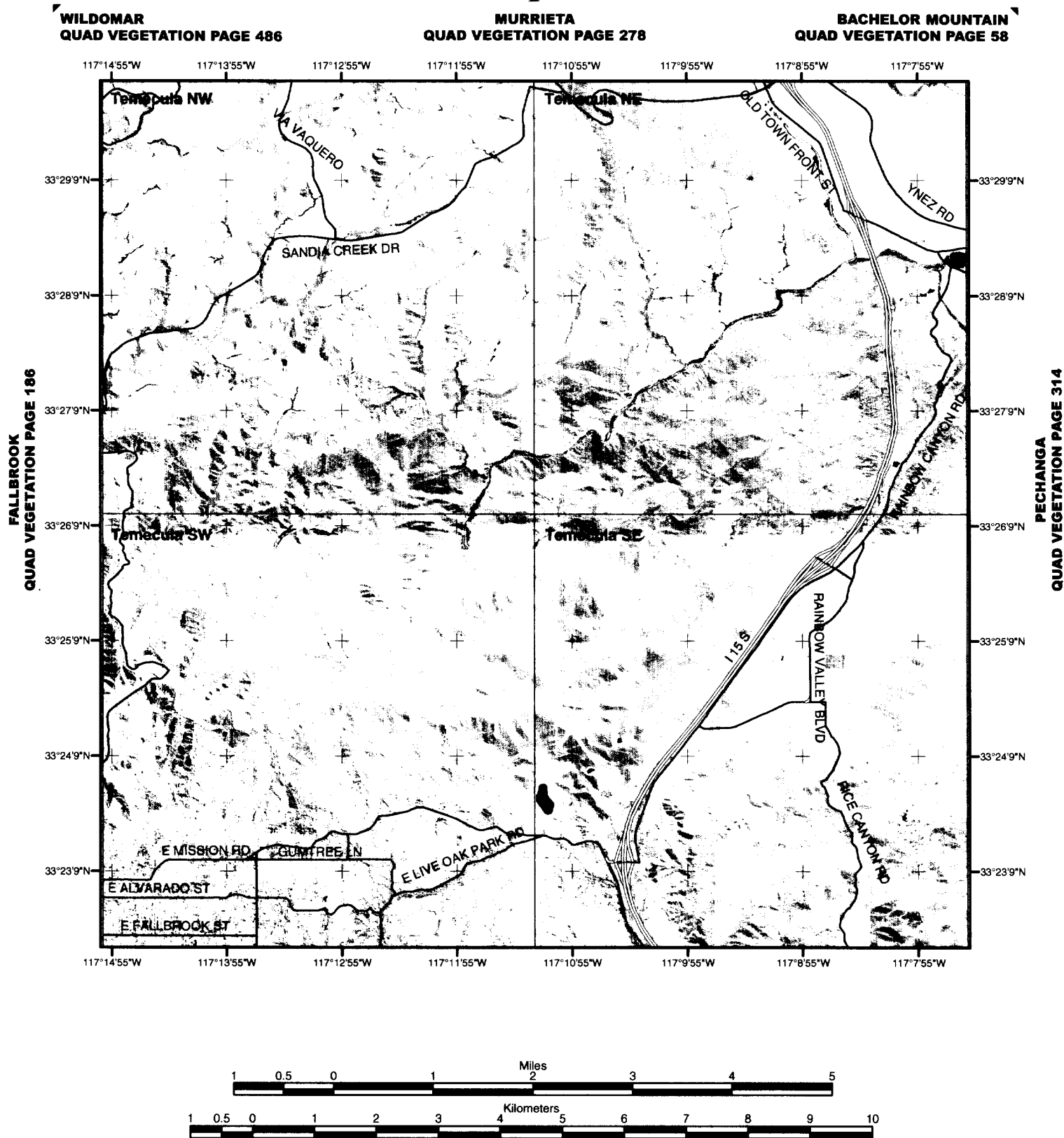


Temecula South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

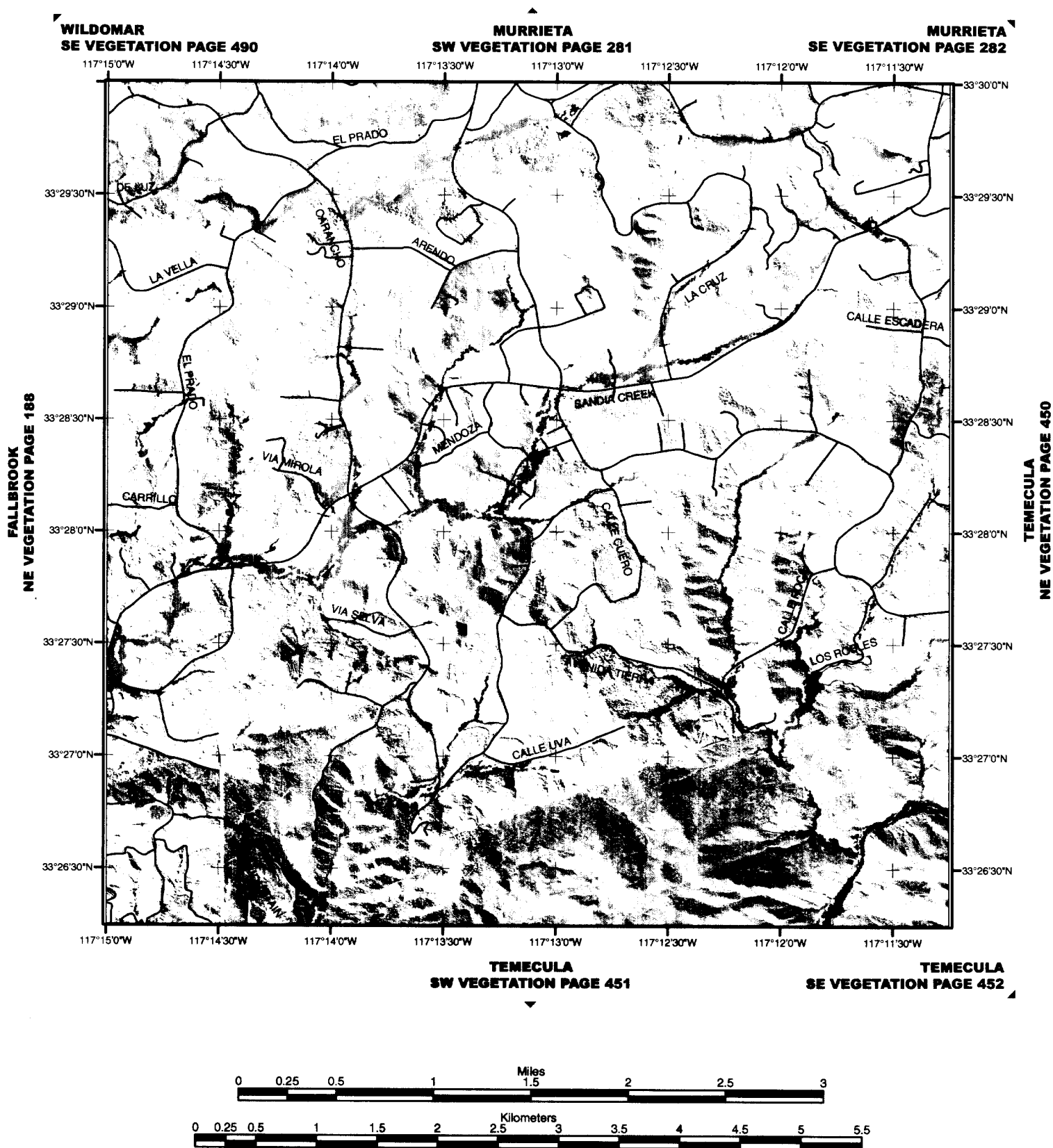


Temecula Quadrangle

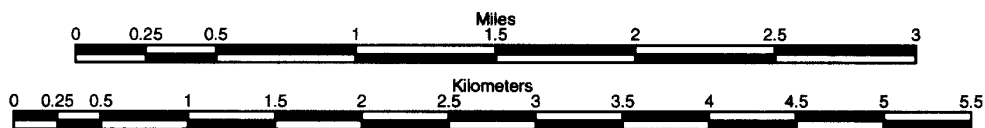
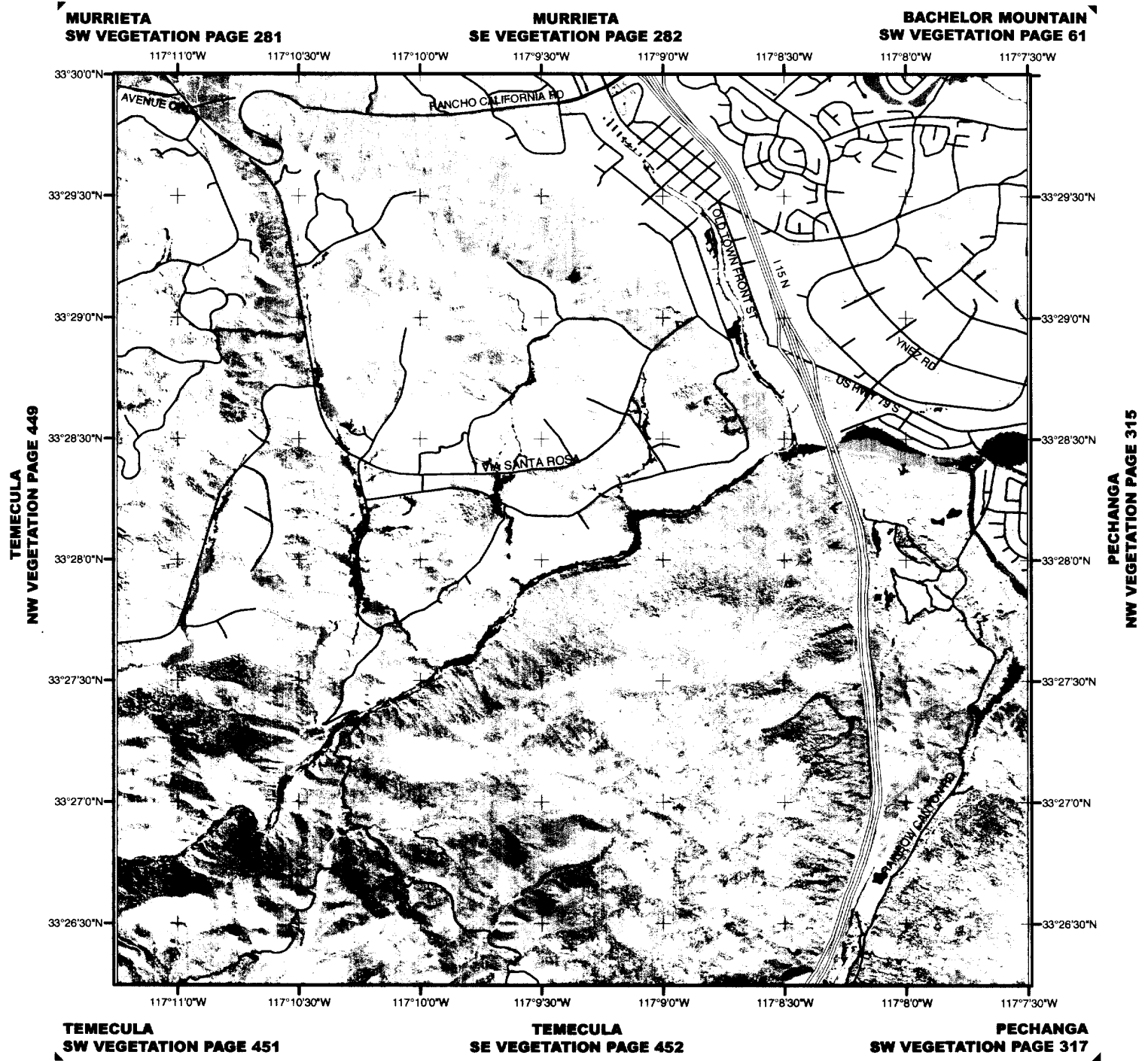
Vegetation Species Association Units for Aquatic Resources



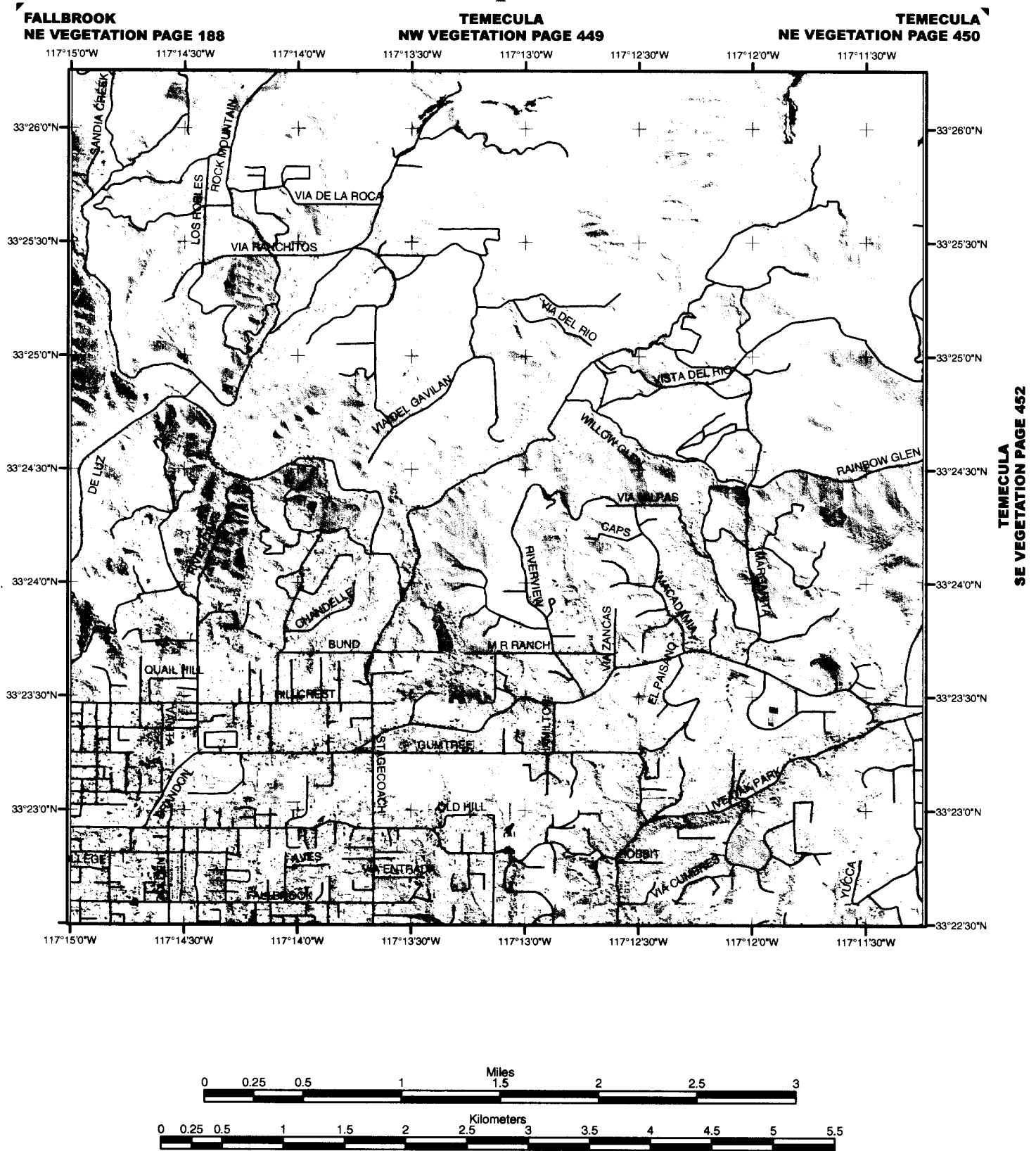
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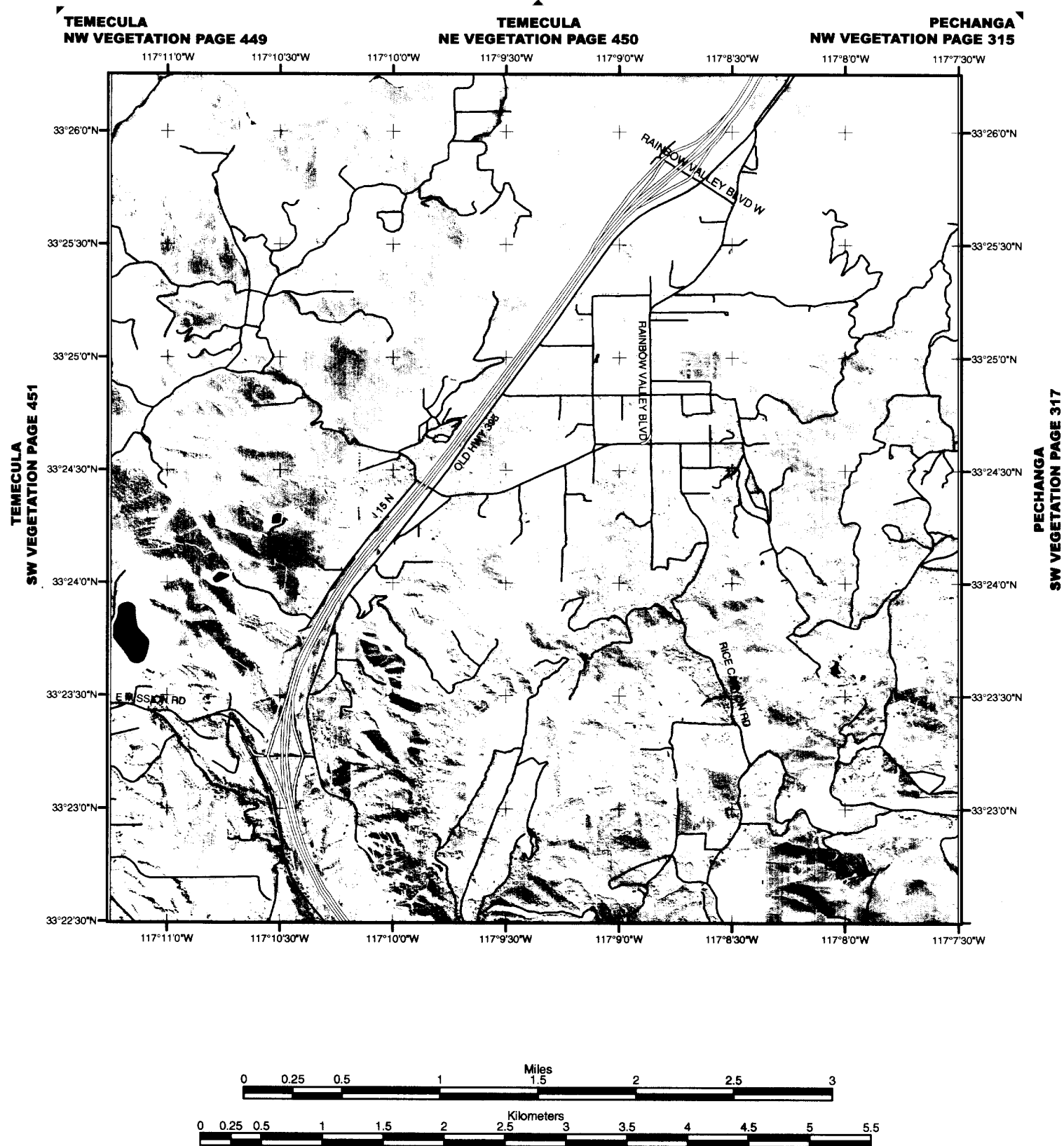
Temecula North East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



Temecula South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

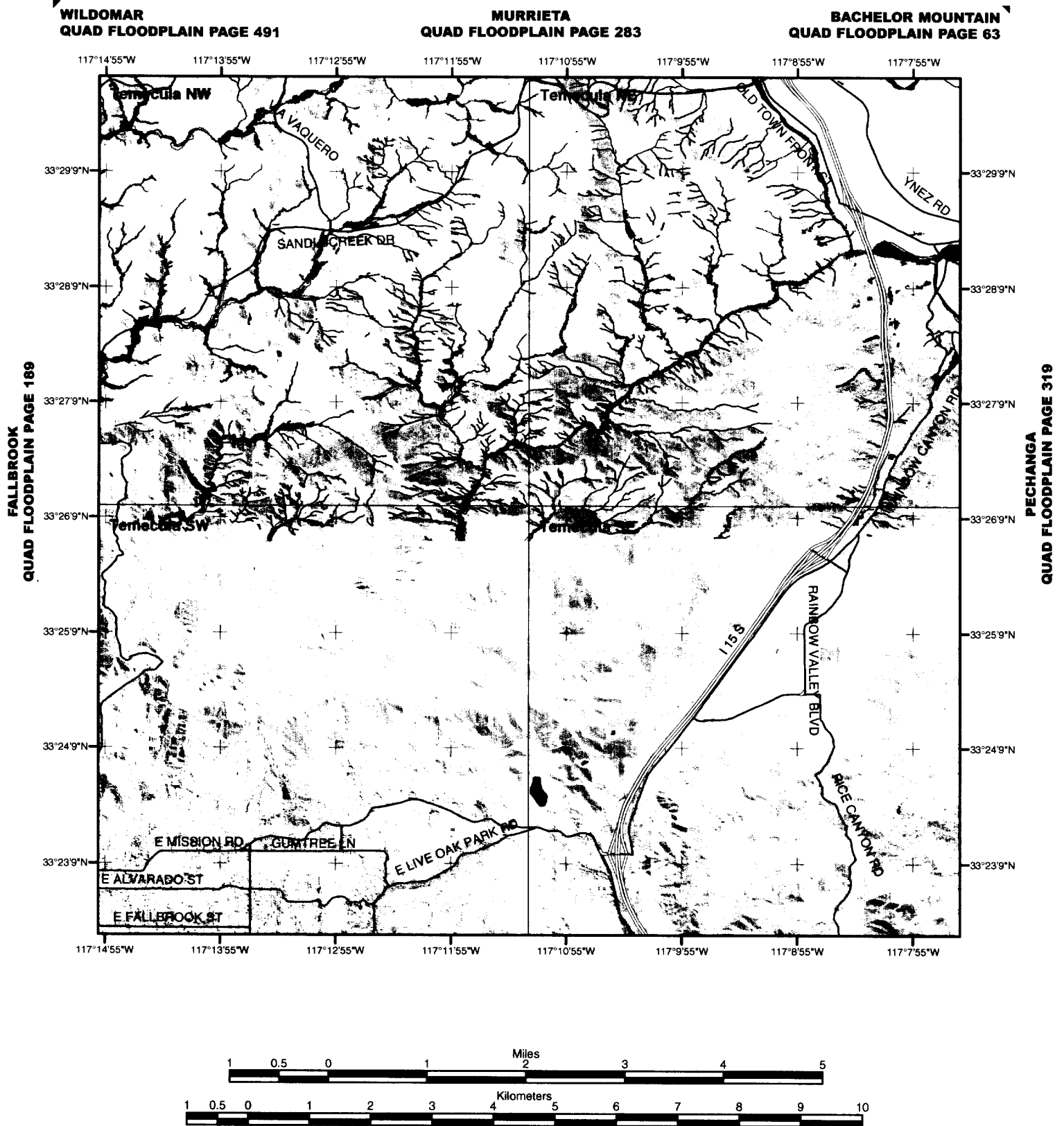


Temecula South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

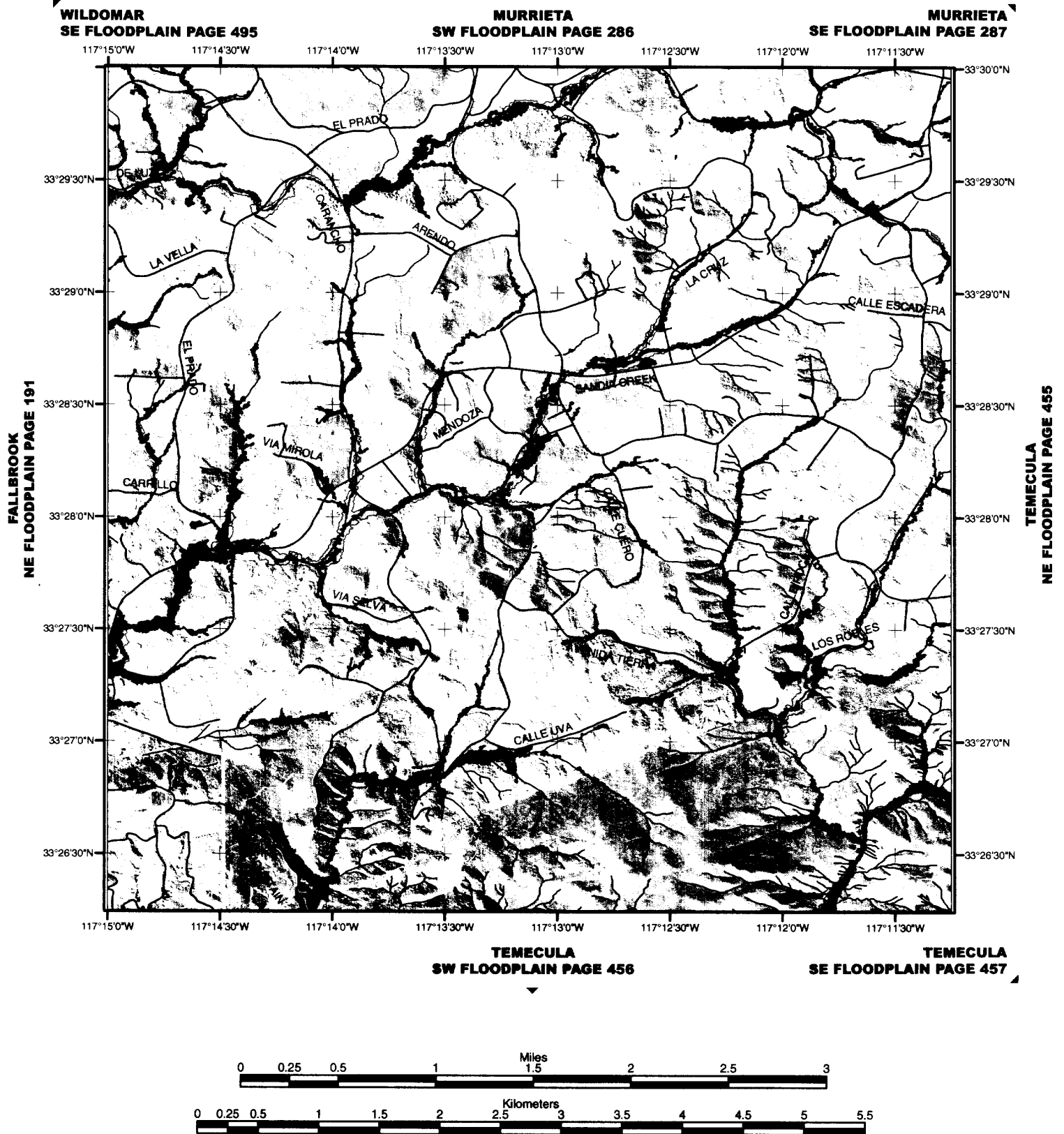


Temecula Quadrangle

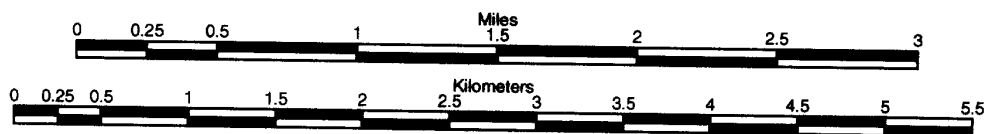
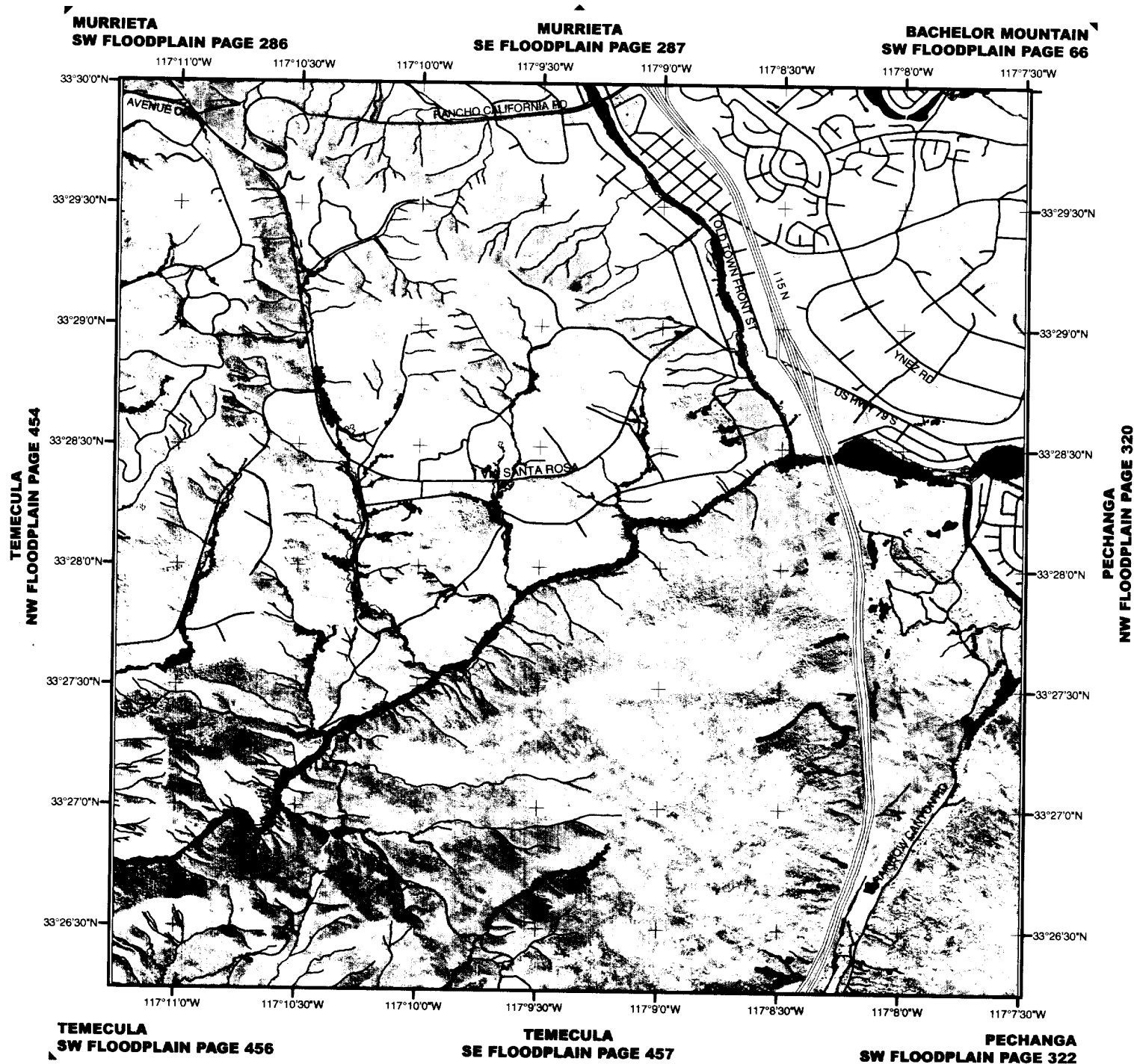
Hydrogeomorphic Floodplain Units for Aquatic Resources



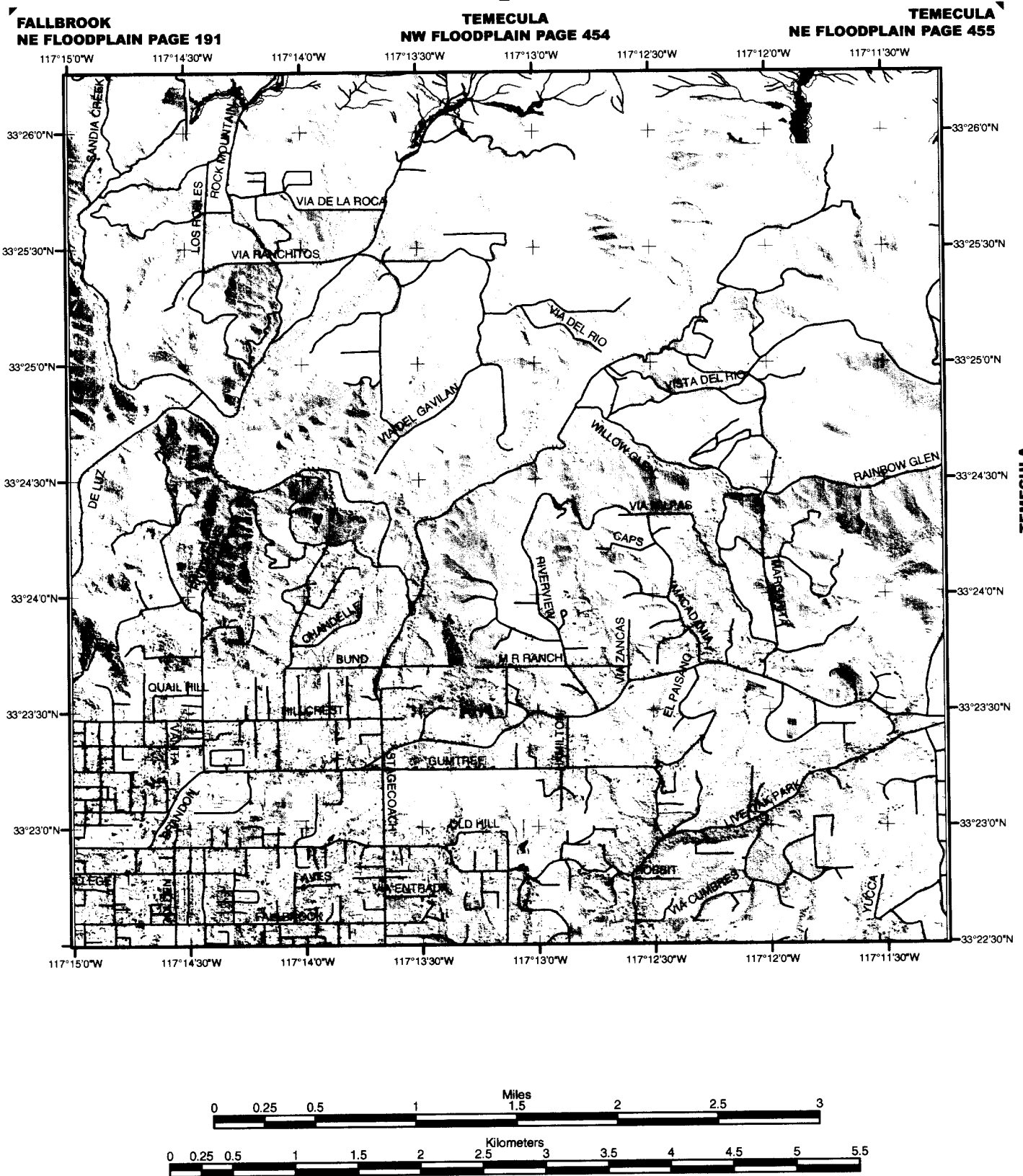
Temecula North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



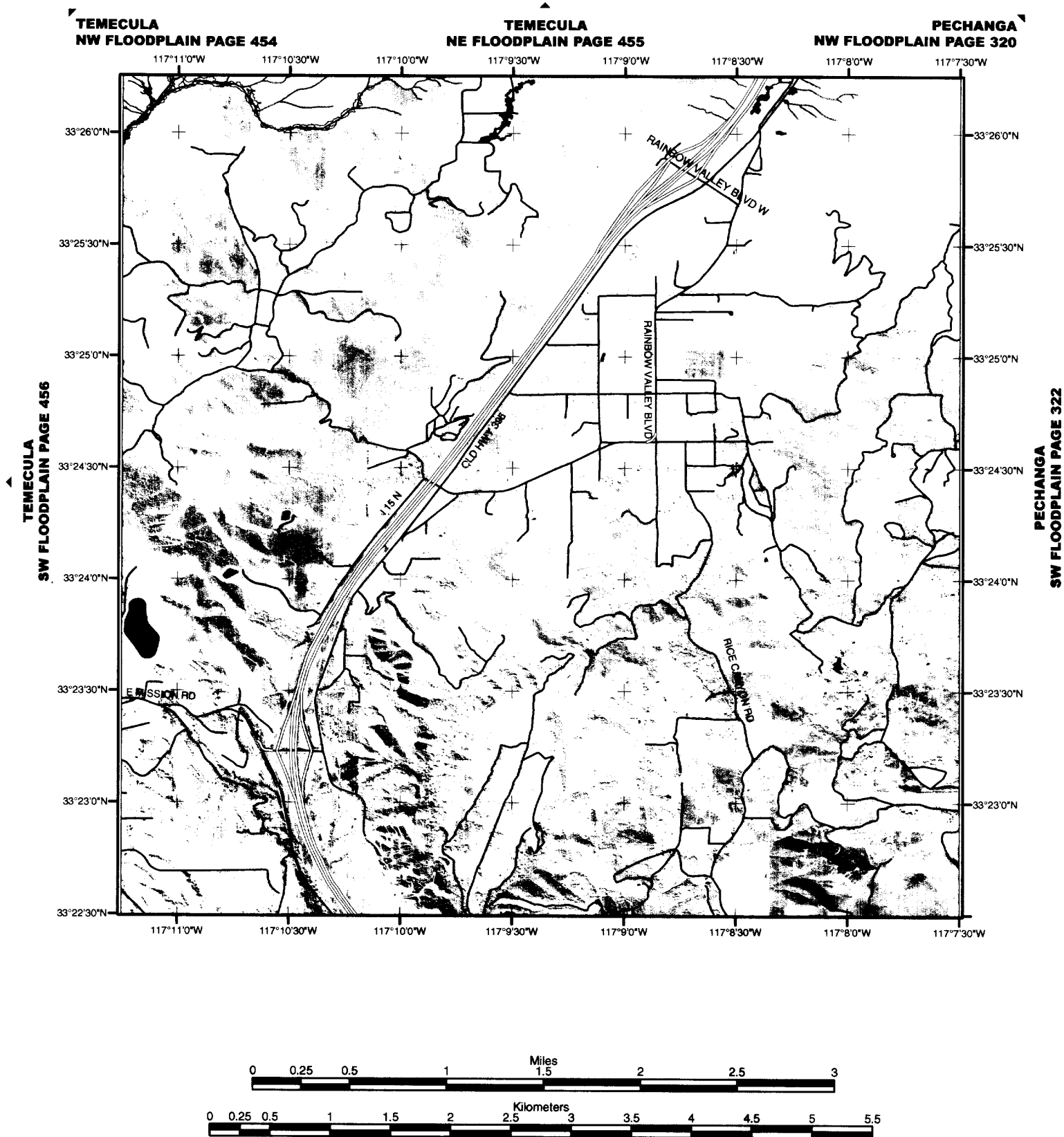
Temecula North East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



Temecula South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

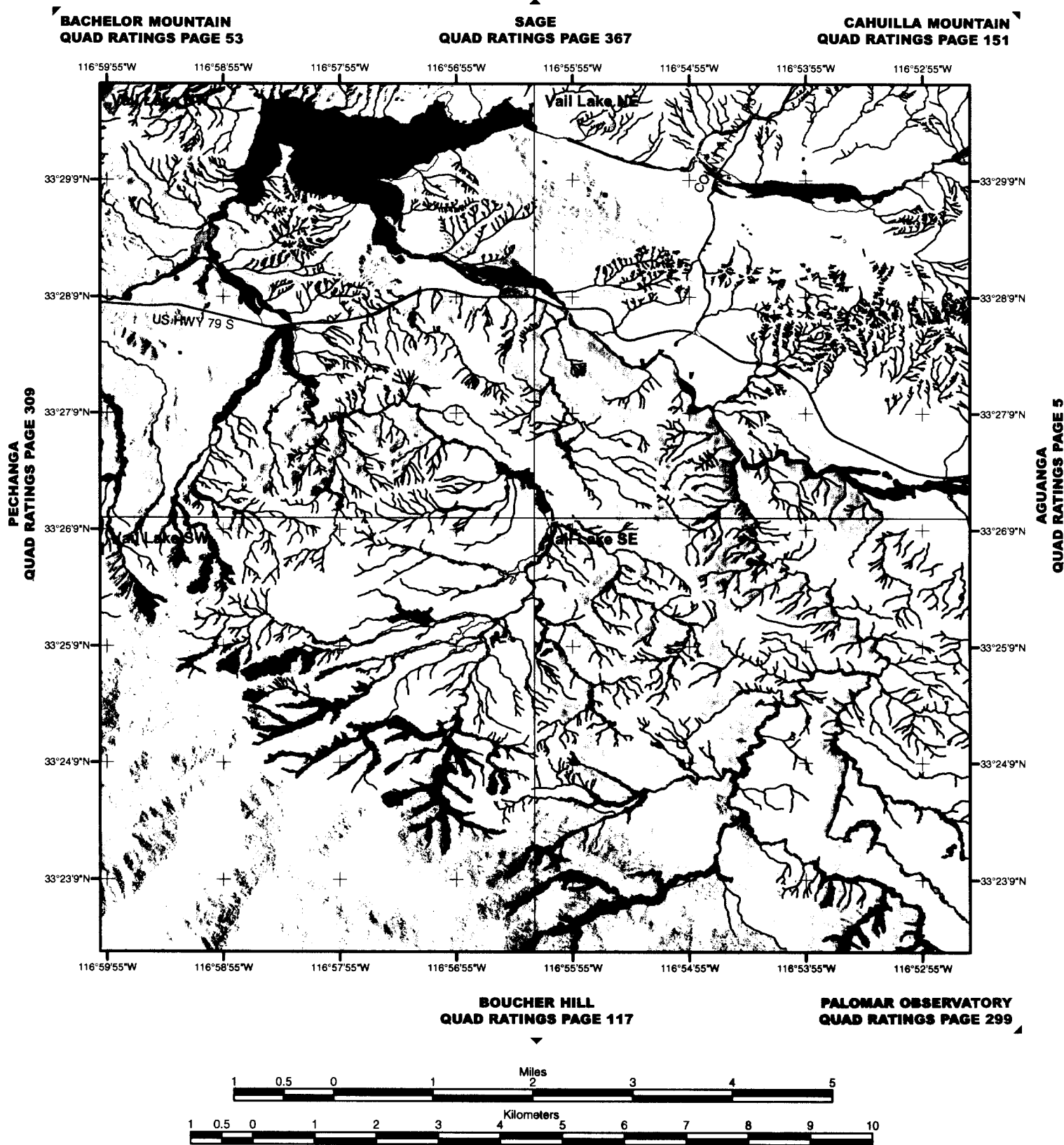


Temecula South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

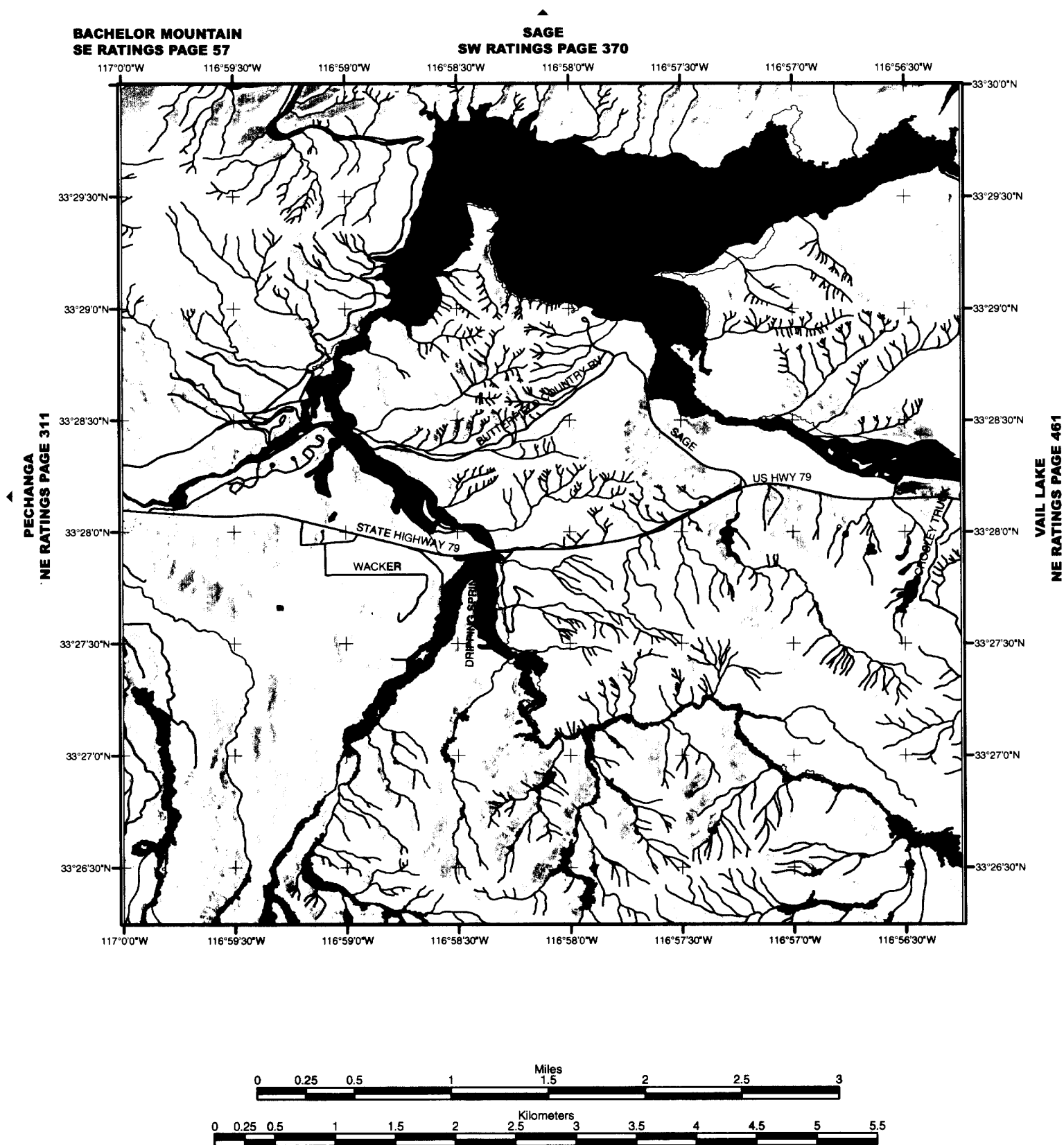


Vail Lake Quadrangle

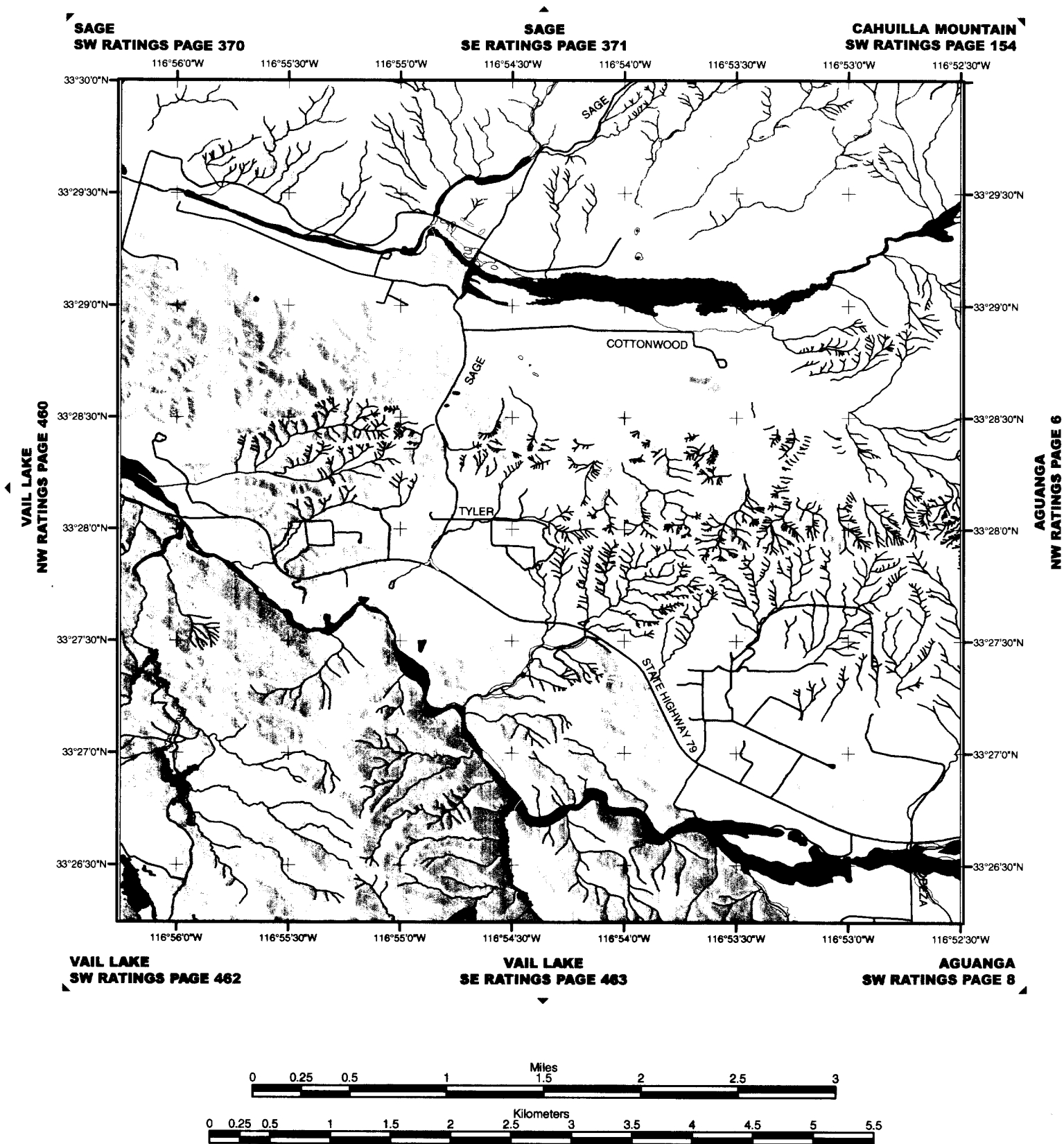
Regulatory Probability Ratings for Aquatic Resources



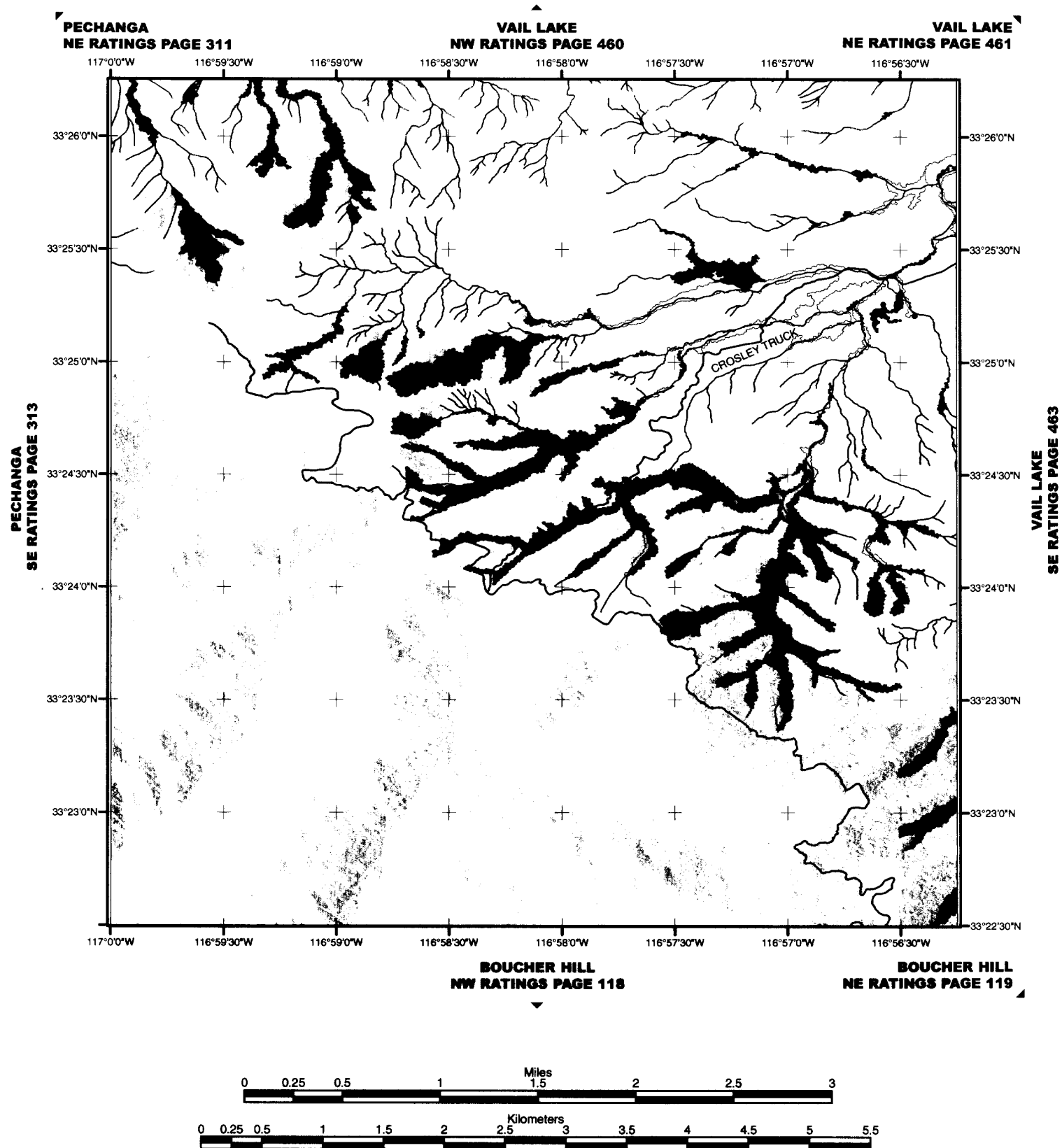
Vail Lake North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



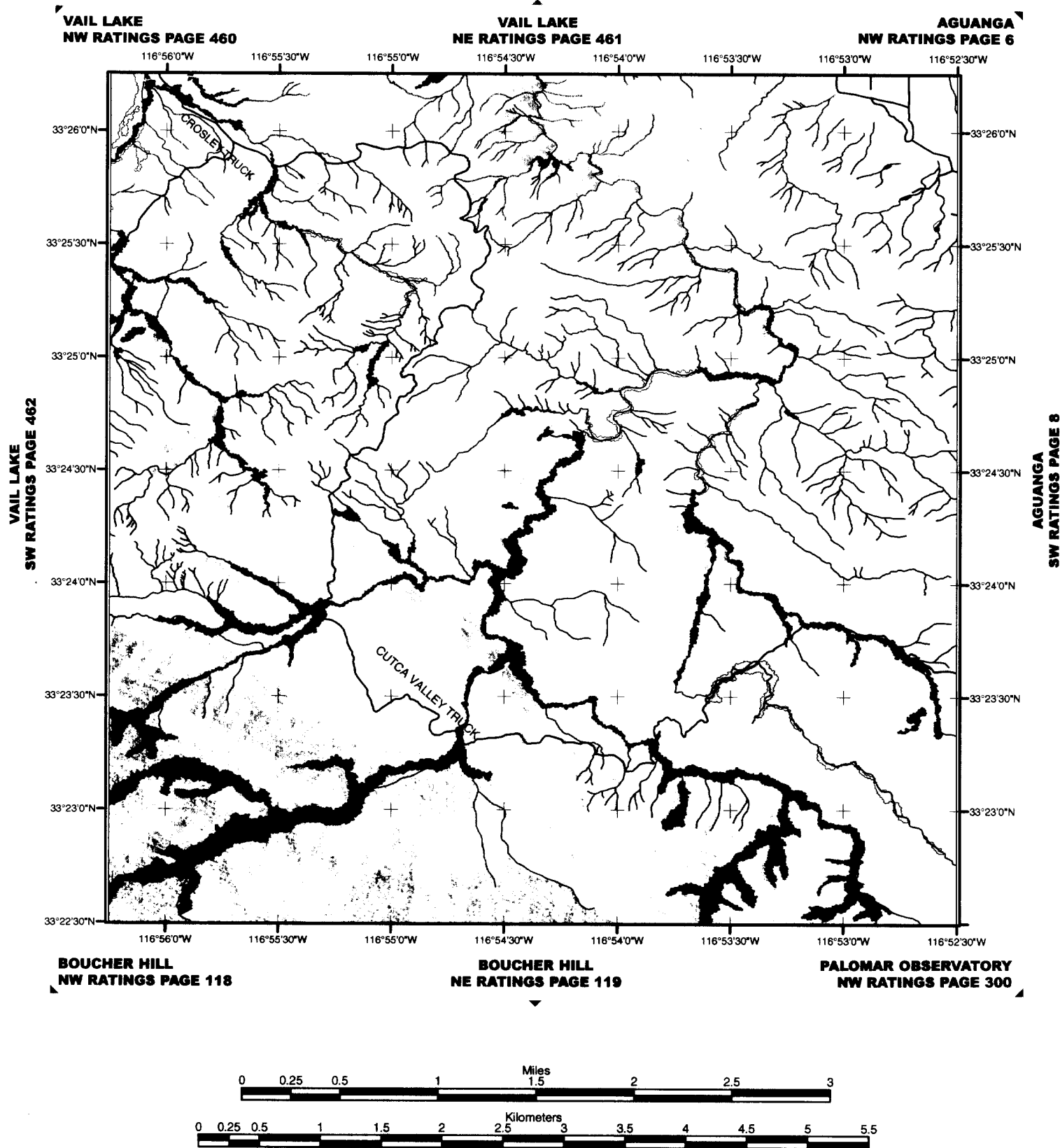
Vail Lake North East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources



Vail Lake South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

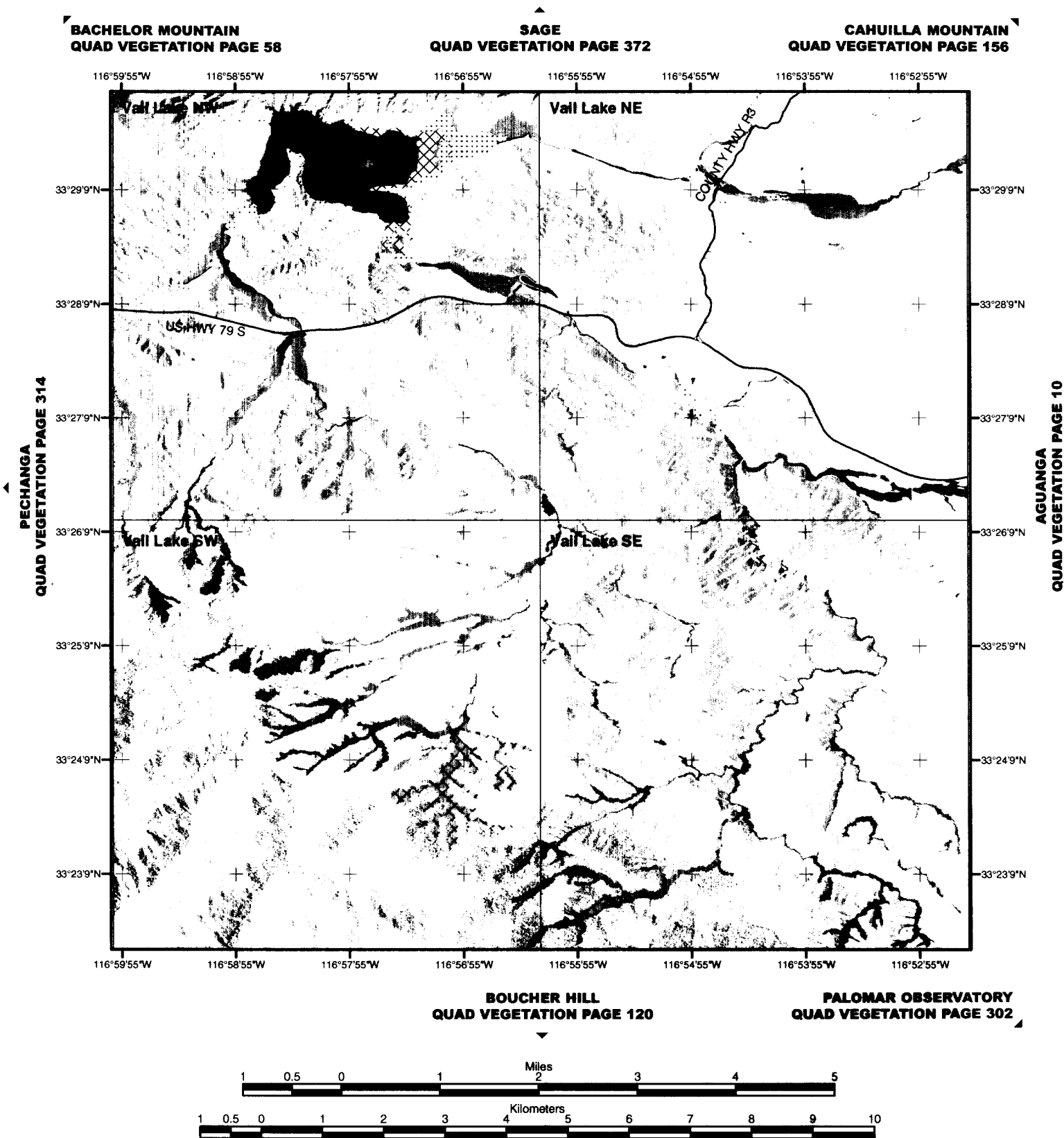


Vail Lake South East Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

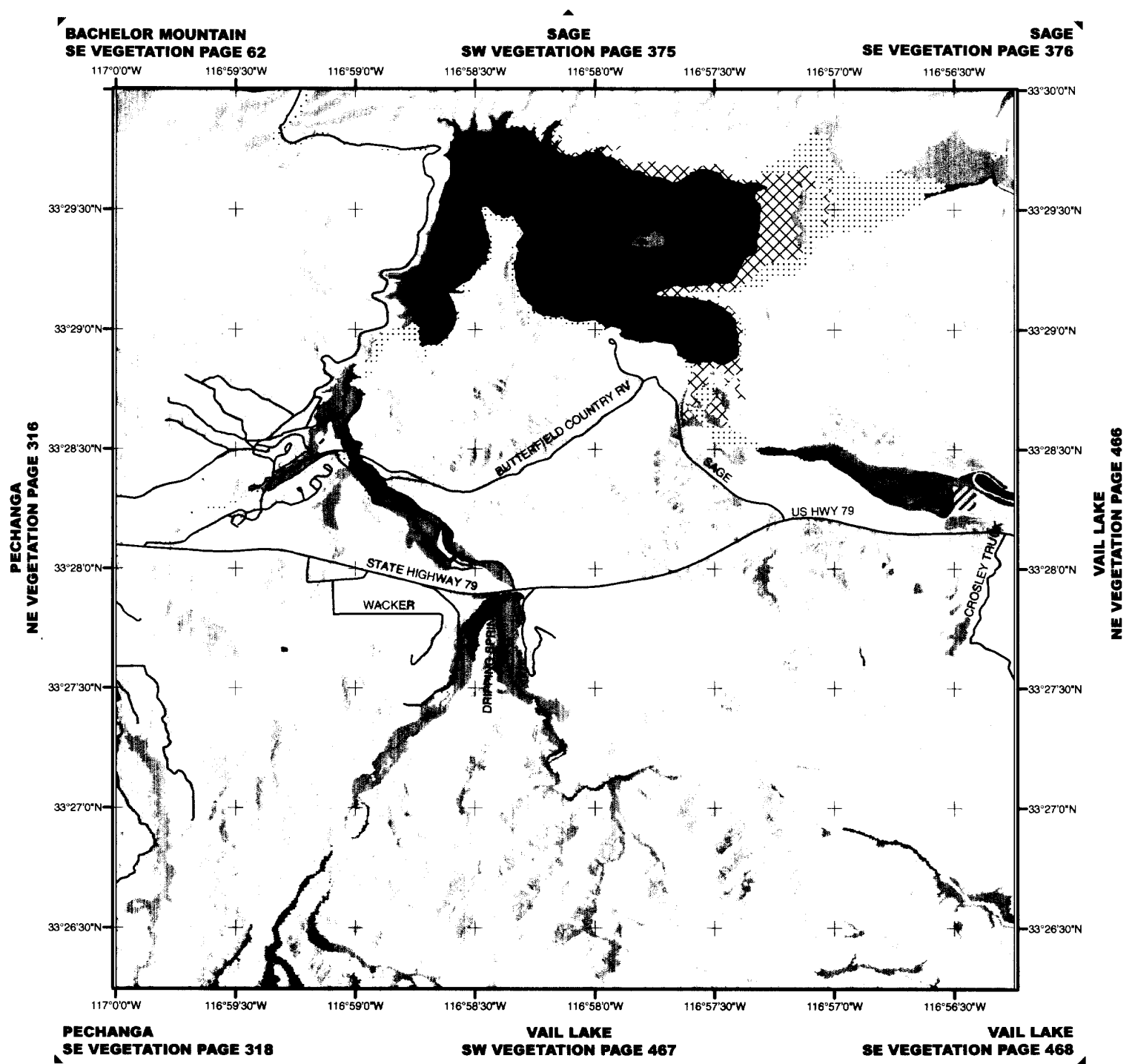


Vail Lake Quadrangle

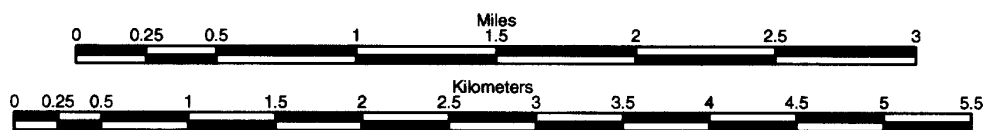
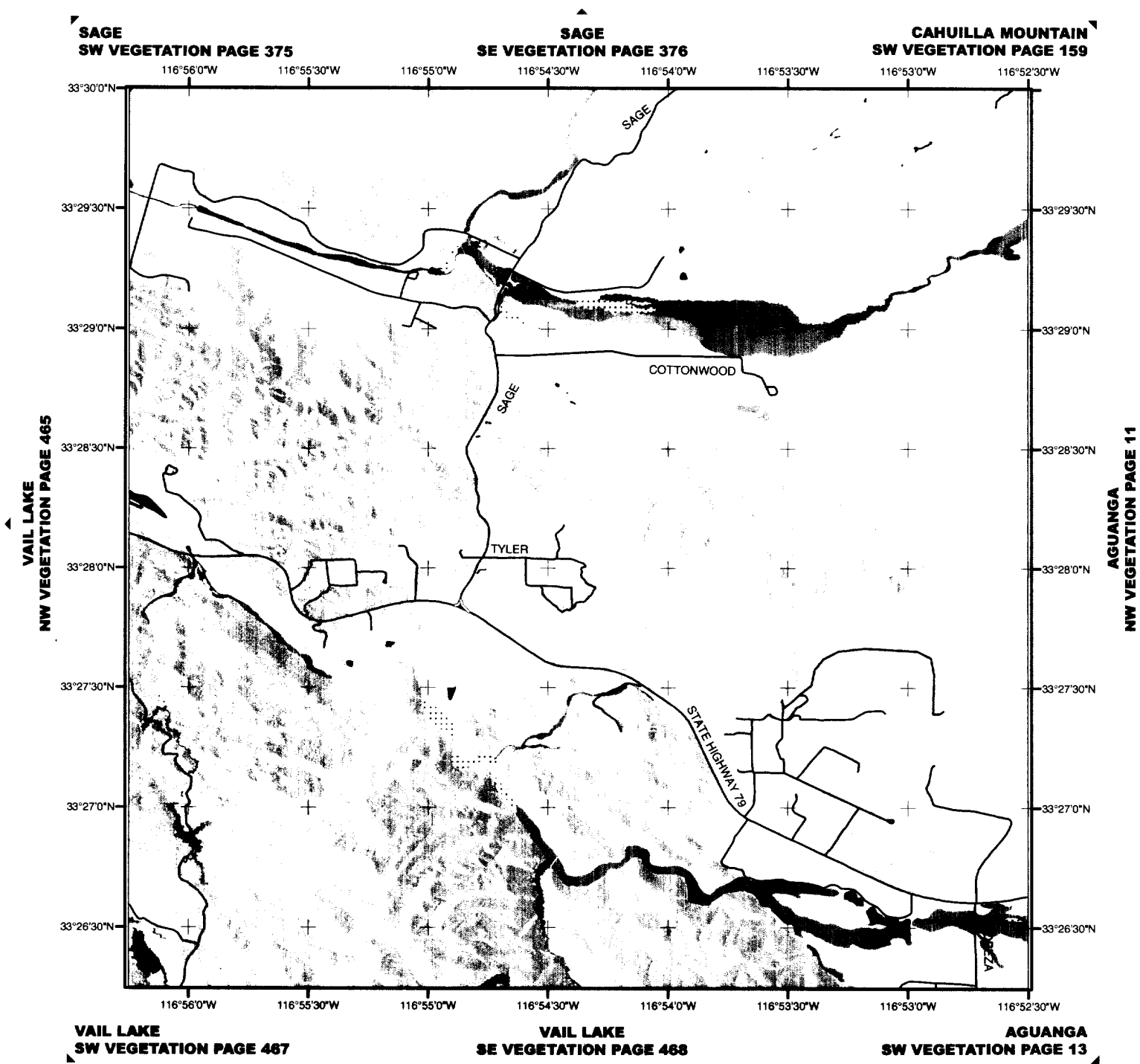
Vegetation Species Association Units for Aquatic Resources



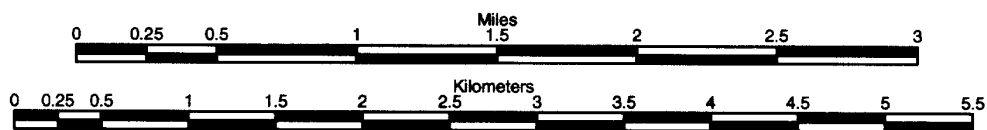
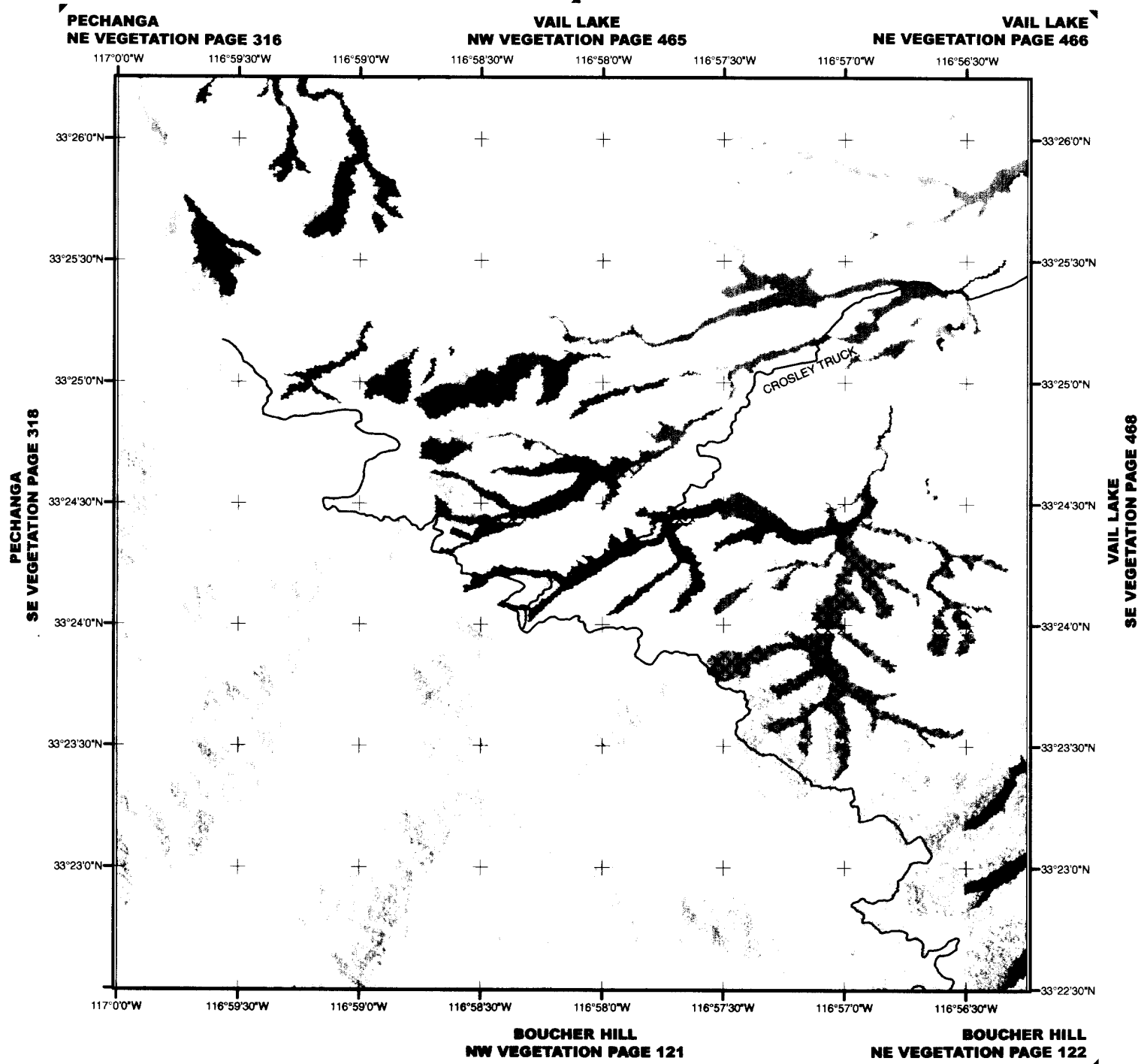
Vail Lake North West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



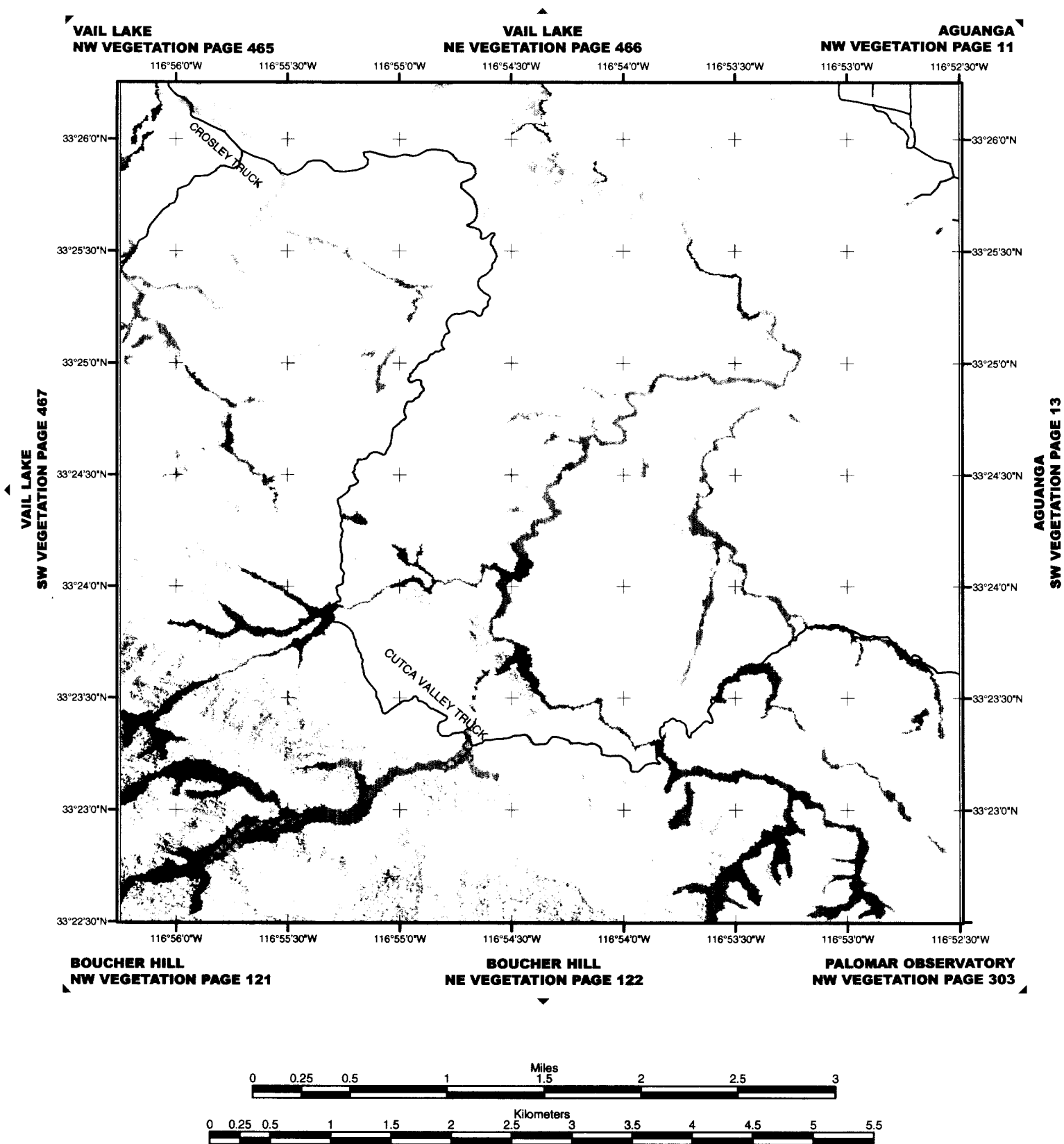
Vail Lake North East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



Vail Lake South West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

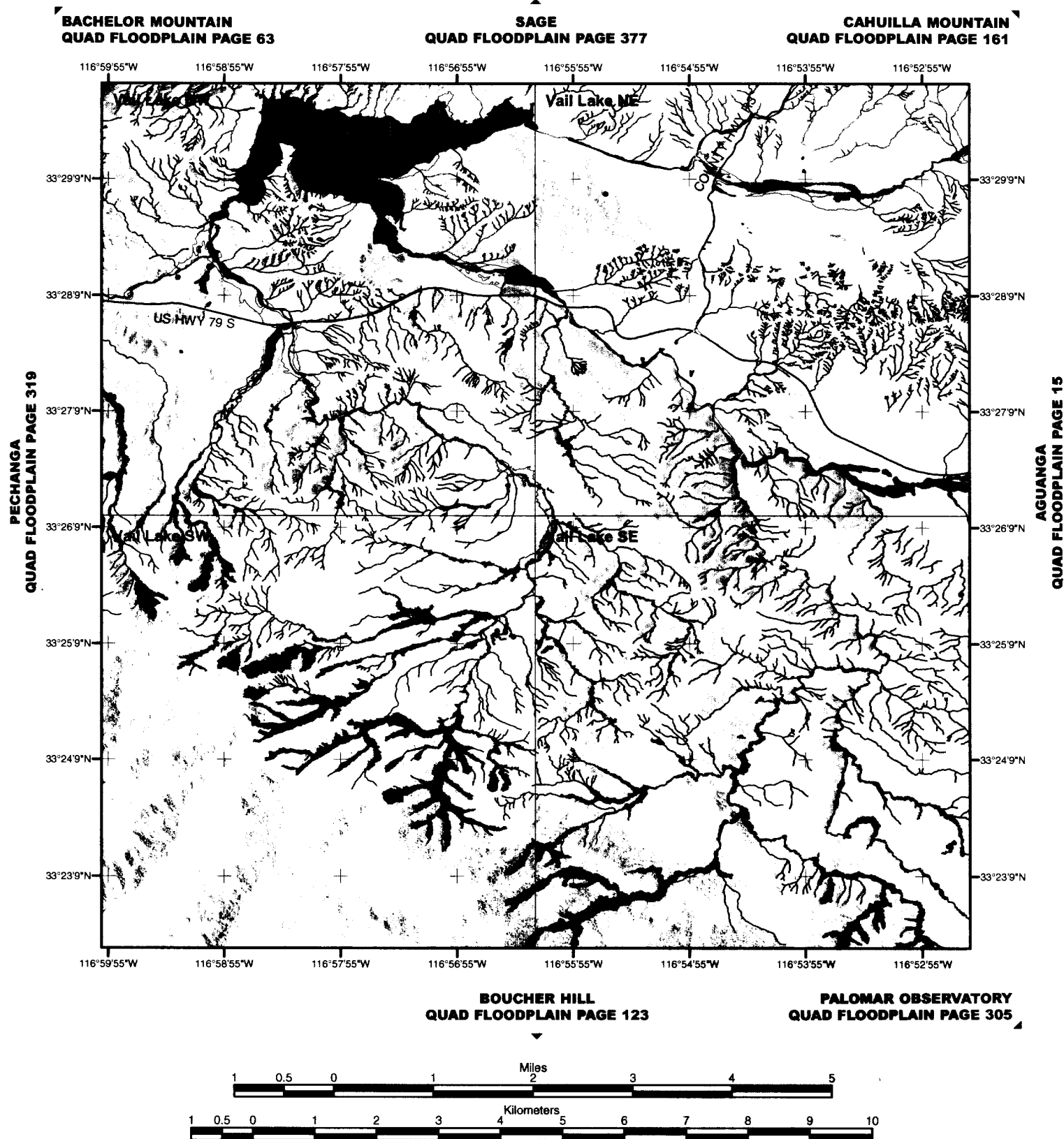


Vail Lake South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

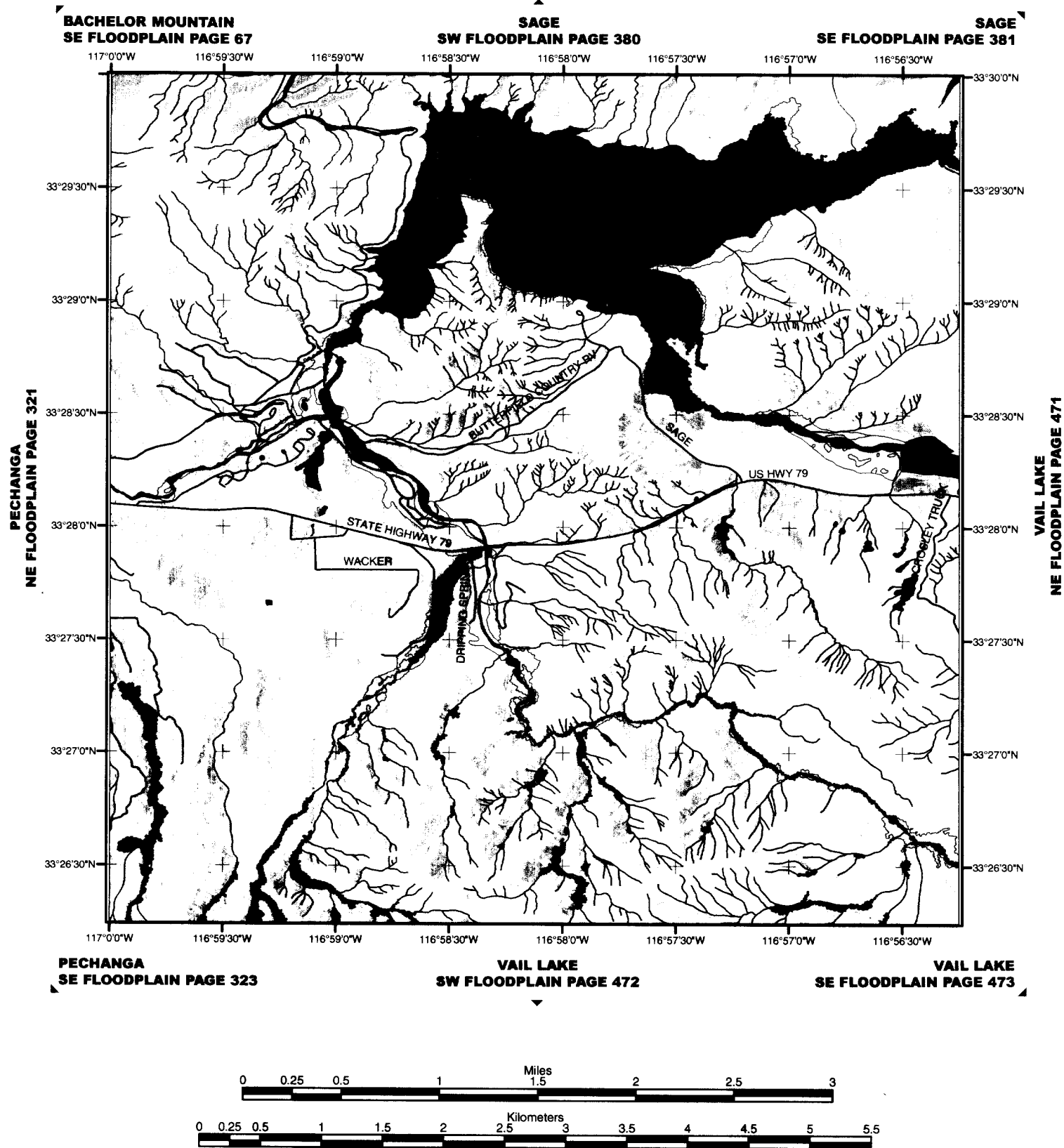


Vail Lake Quadrangle

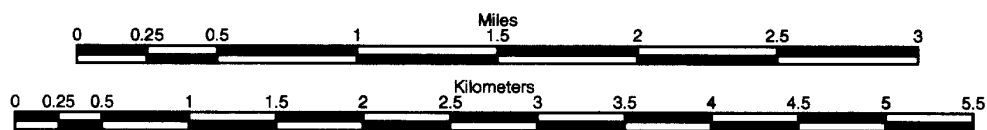
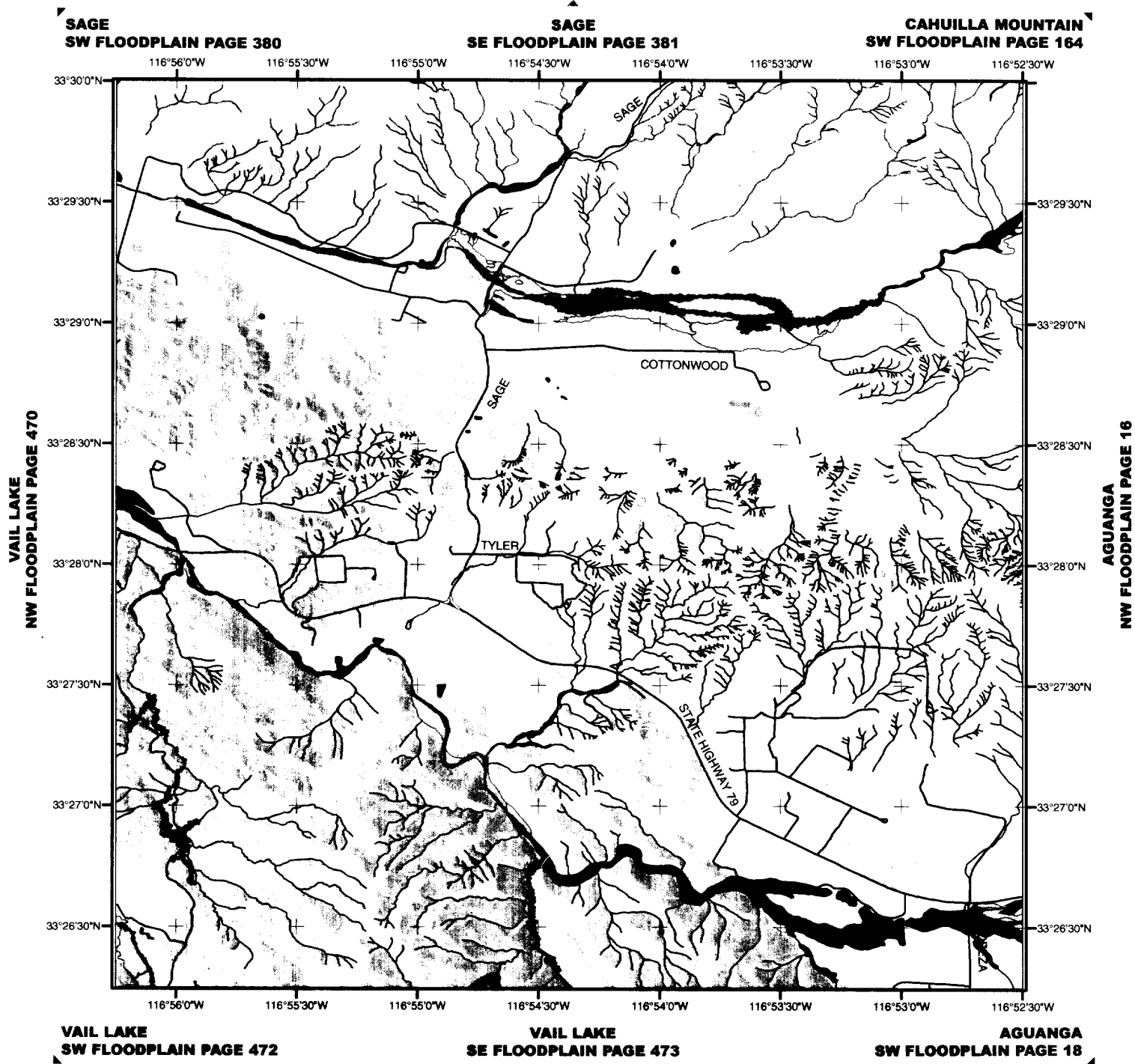
Hydrogeomorphic Floodplain Units for Aquatic Resources



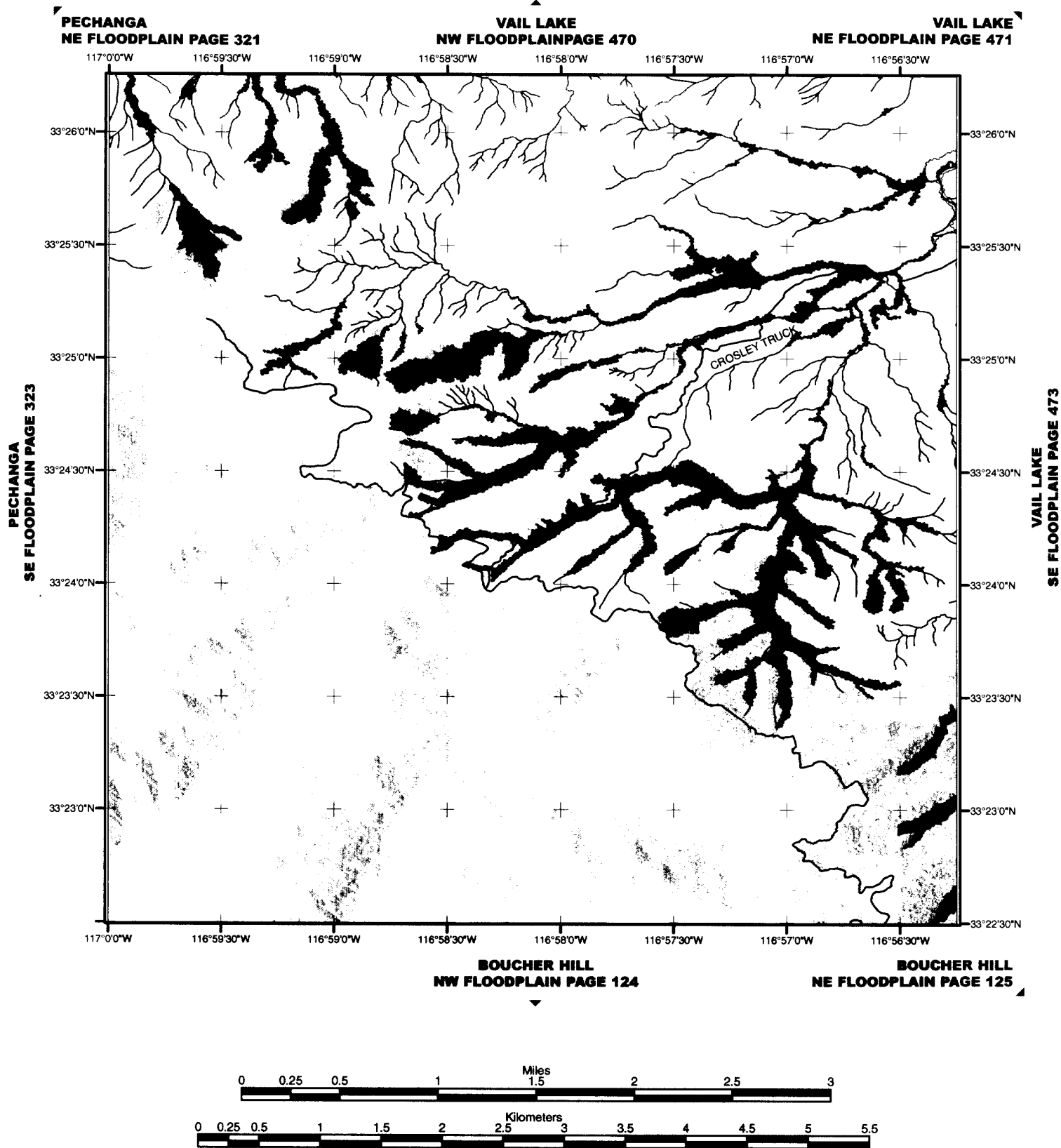
Vail Lake North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



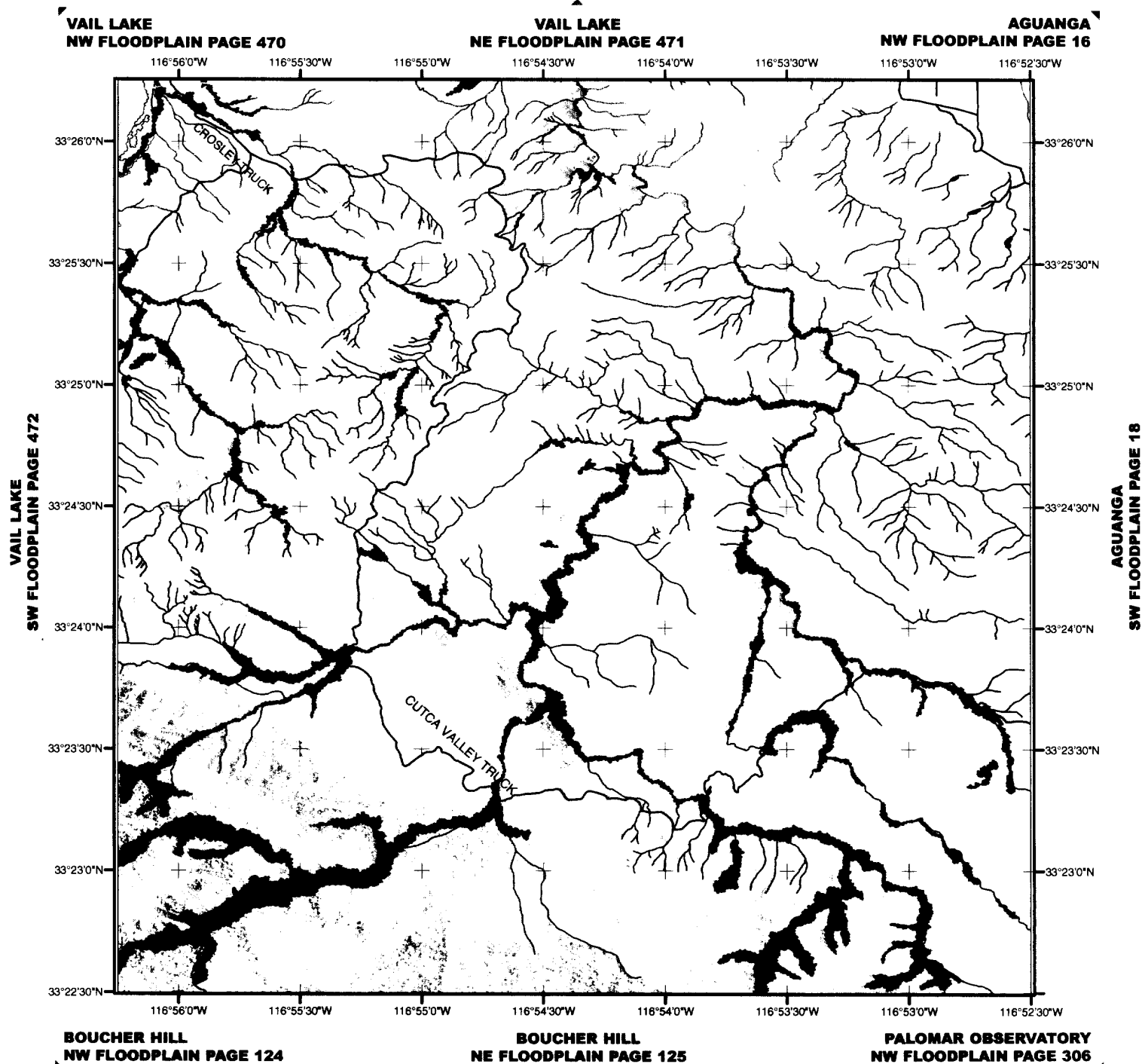
Vail Lake North East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



Vail Lake South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

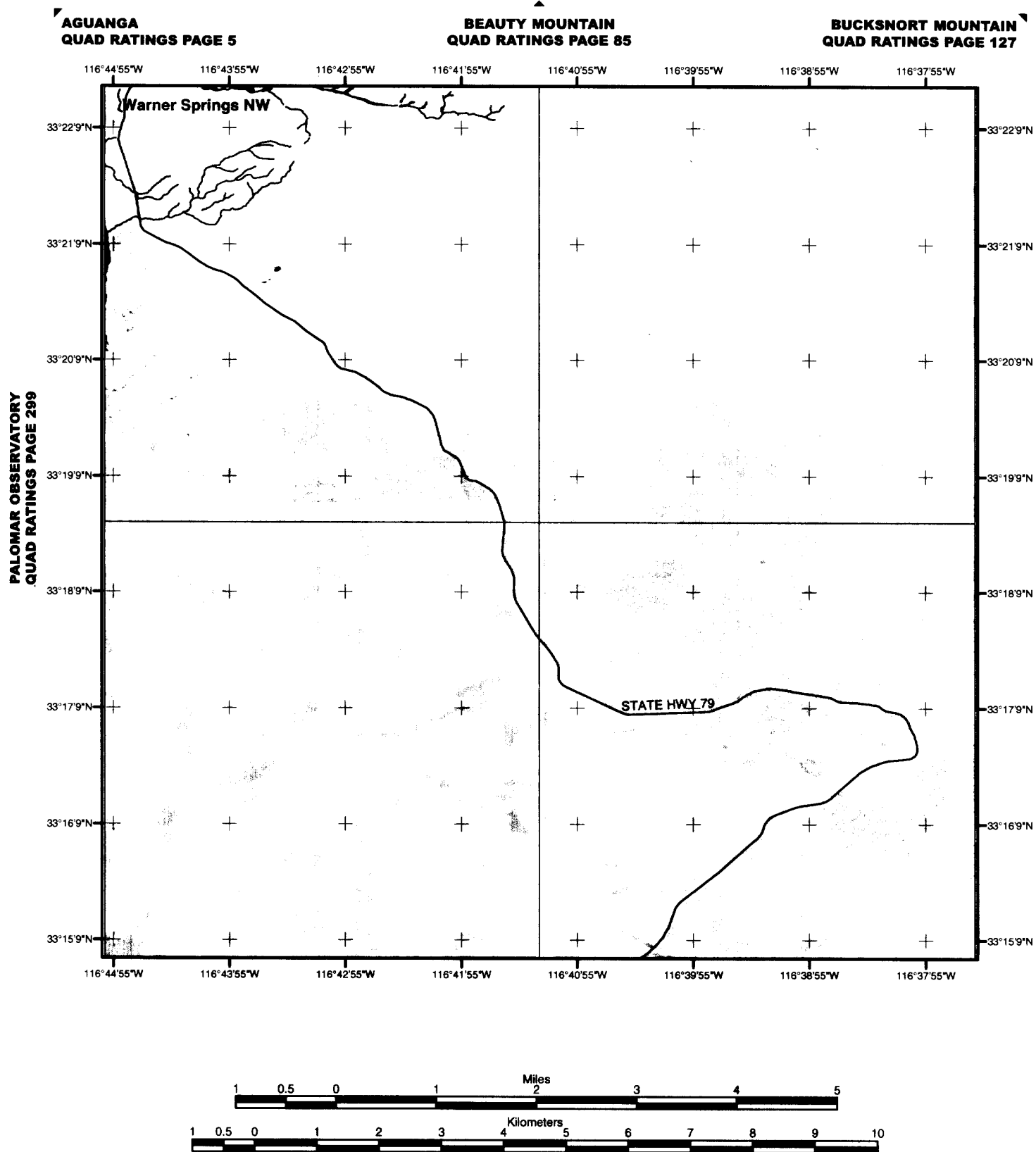


Vail Lake South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

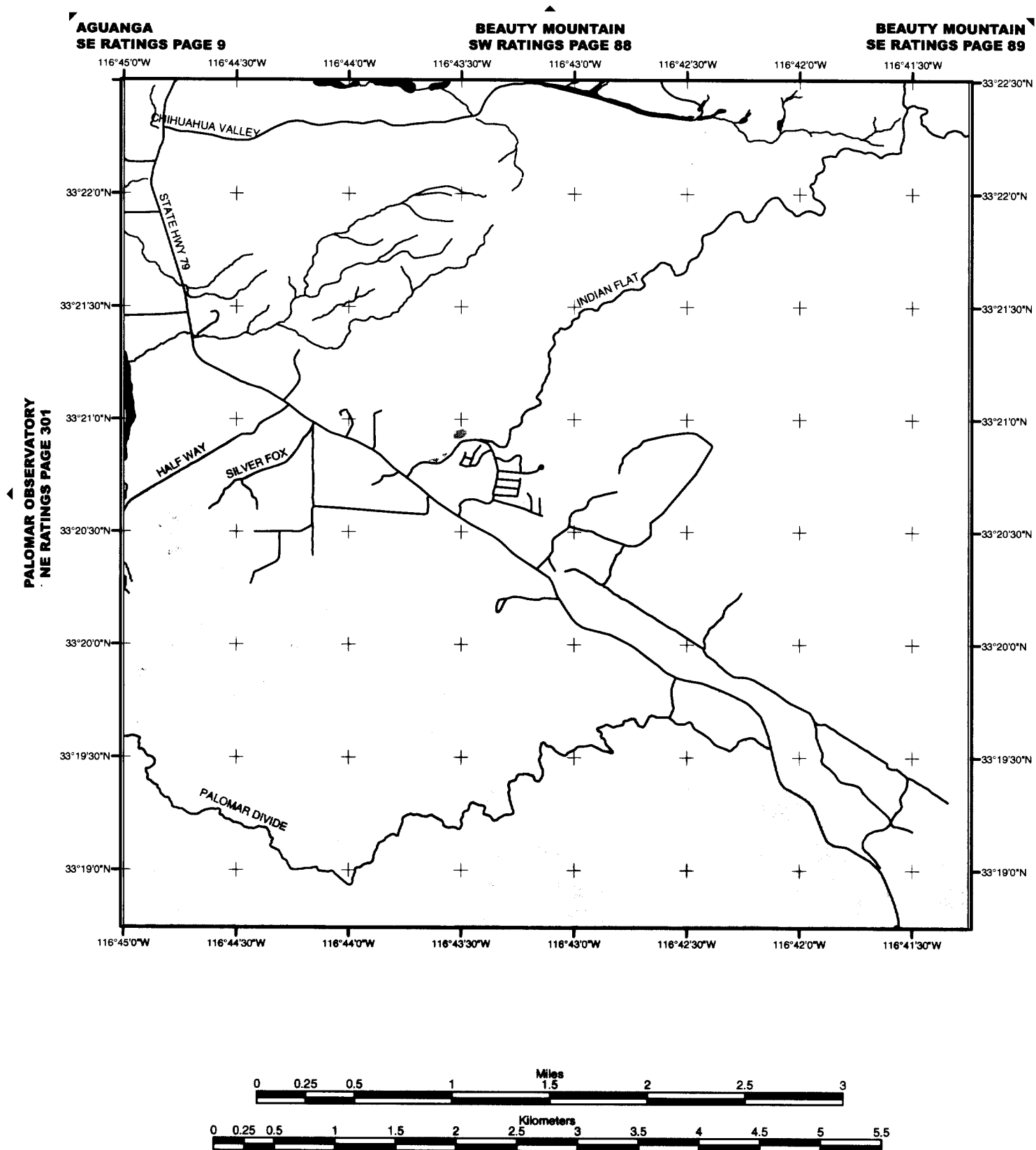


Warner Springs Quadrangle

Regulatory Probability Ratings for Aquatic Resources

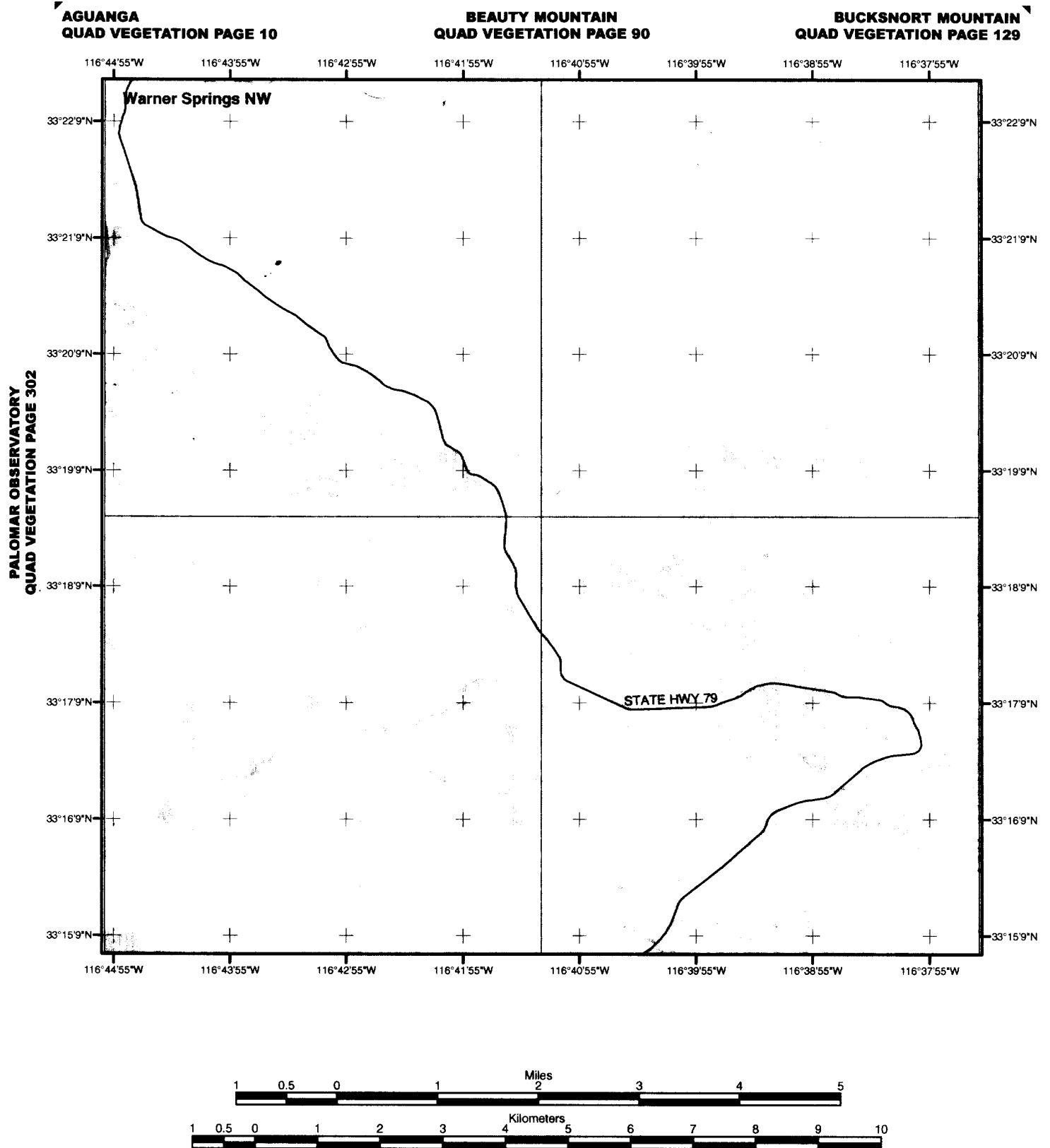


Warner Springs North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

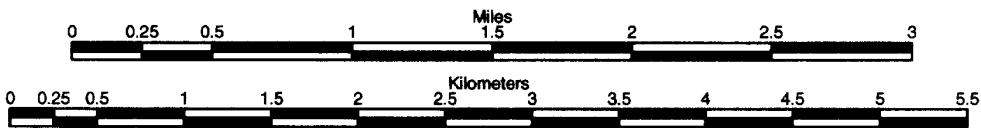
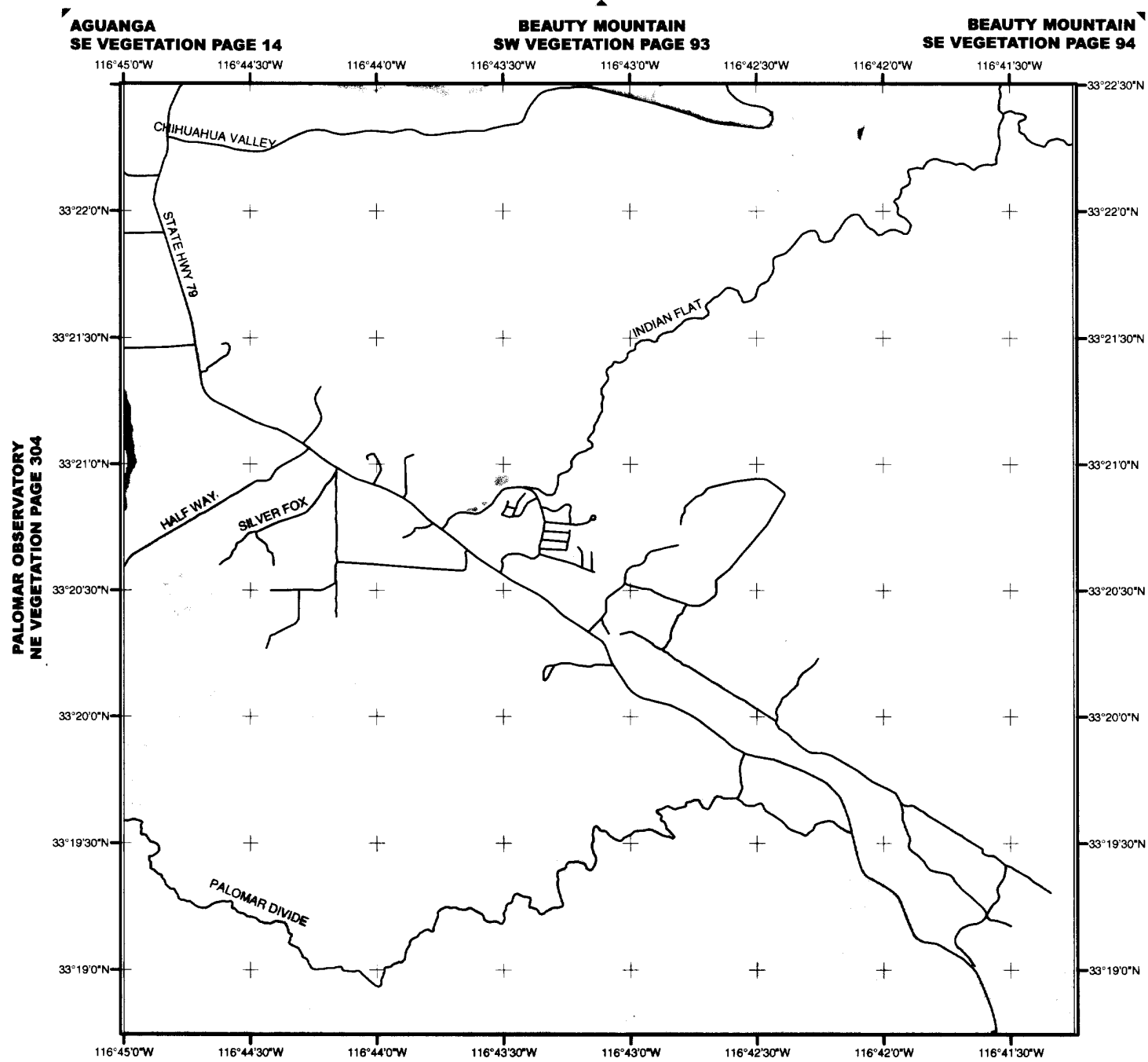


Warner Springs Quadrangle

Vegetation Species Association Units for Aquatic Resources

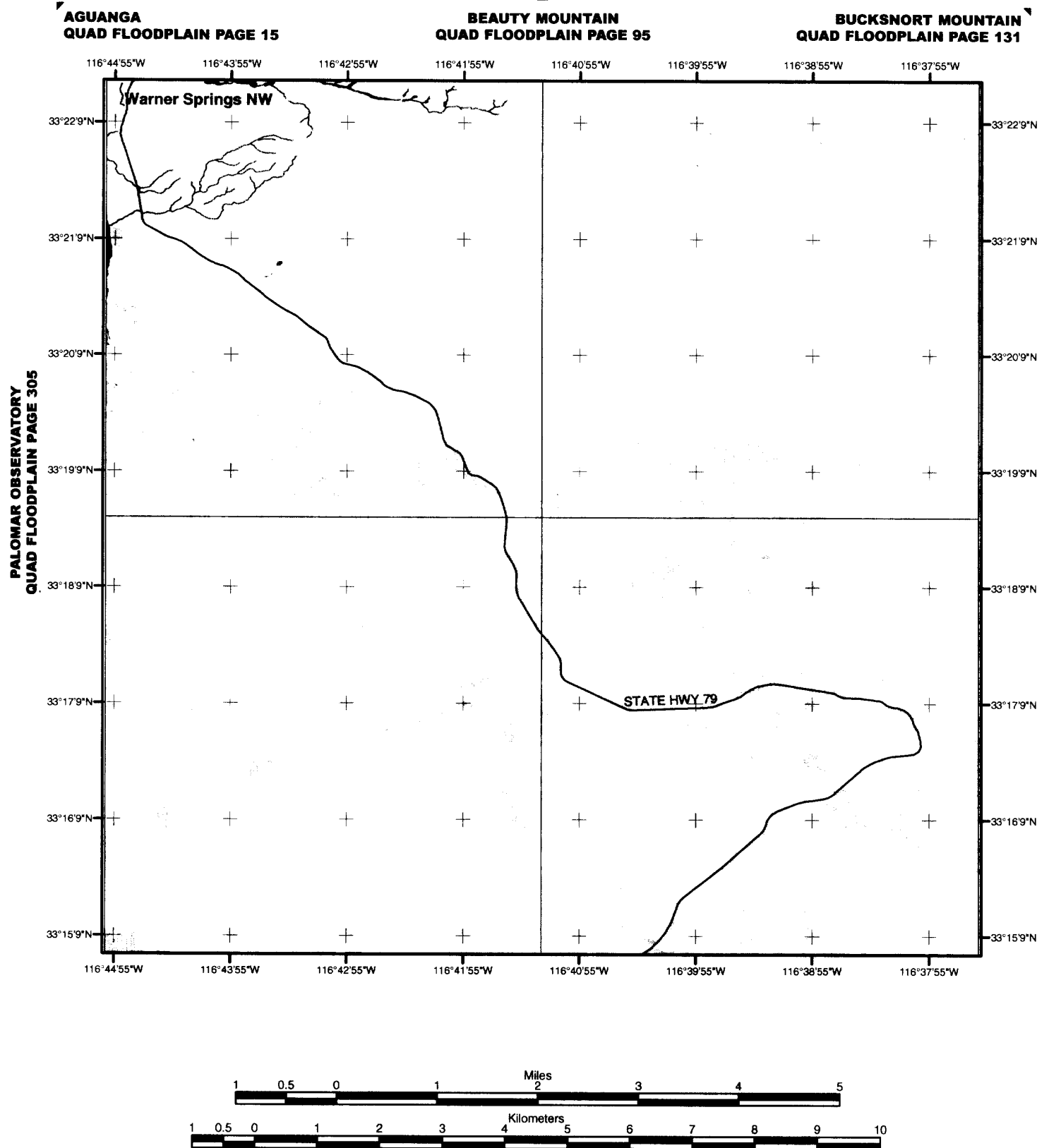


Warner Springs North West Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

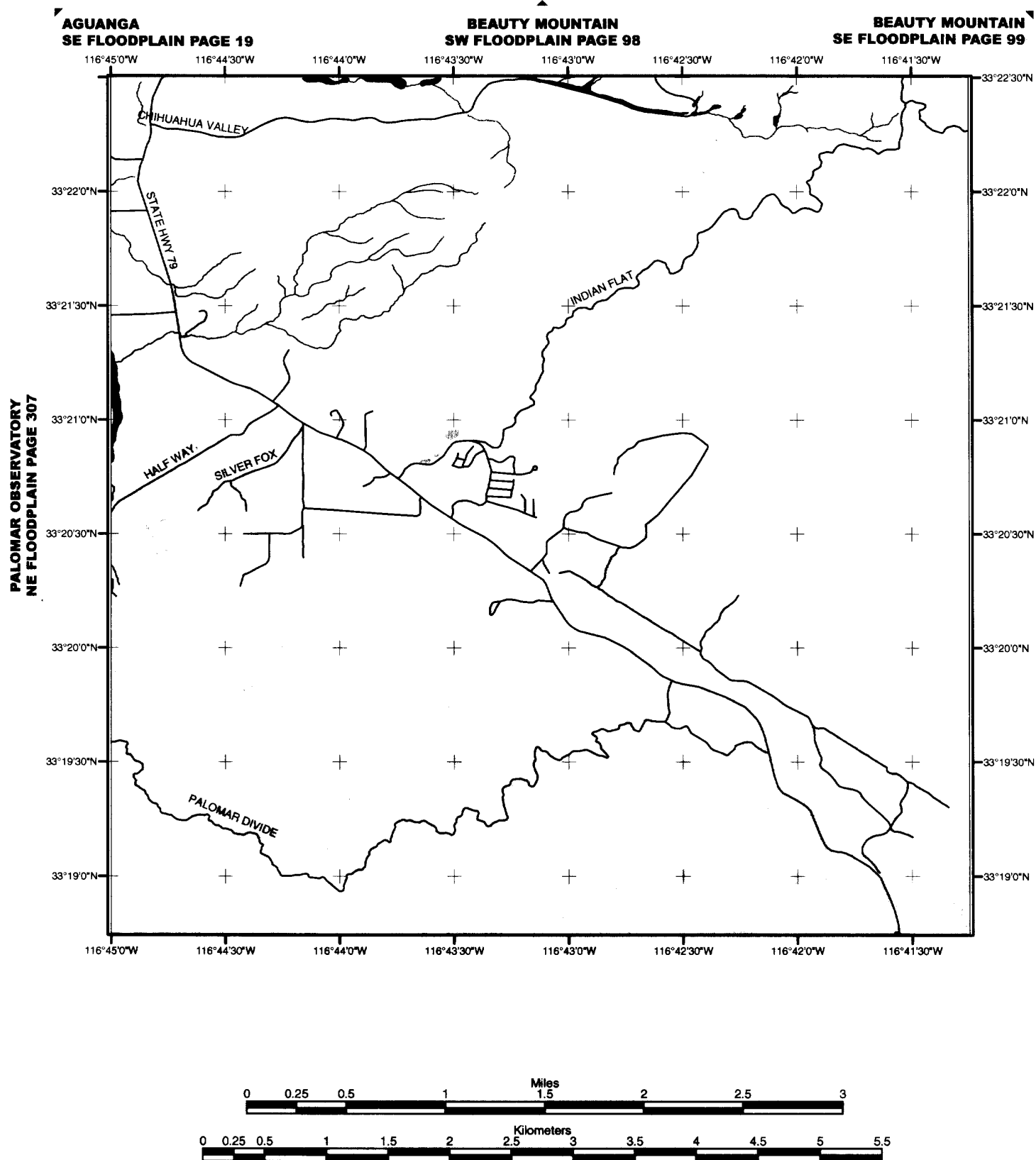


Warner Springs Quadrangle

Hydrogeomorphic Floodplain Units for Aquatic Resources

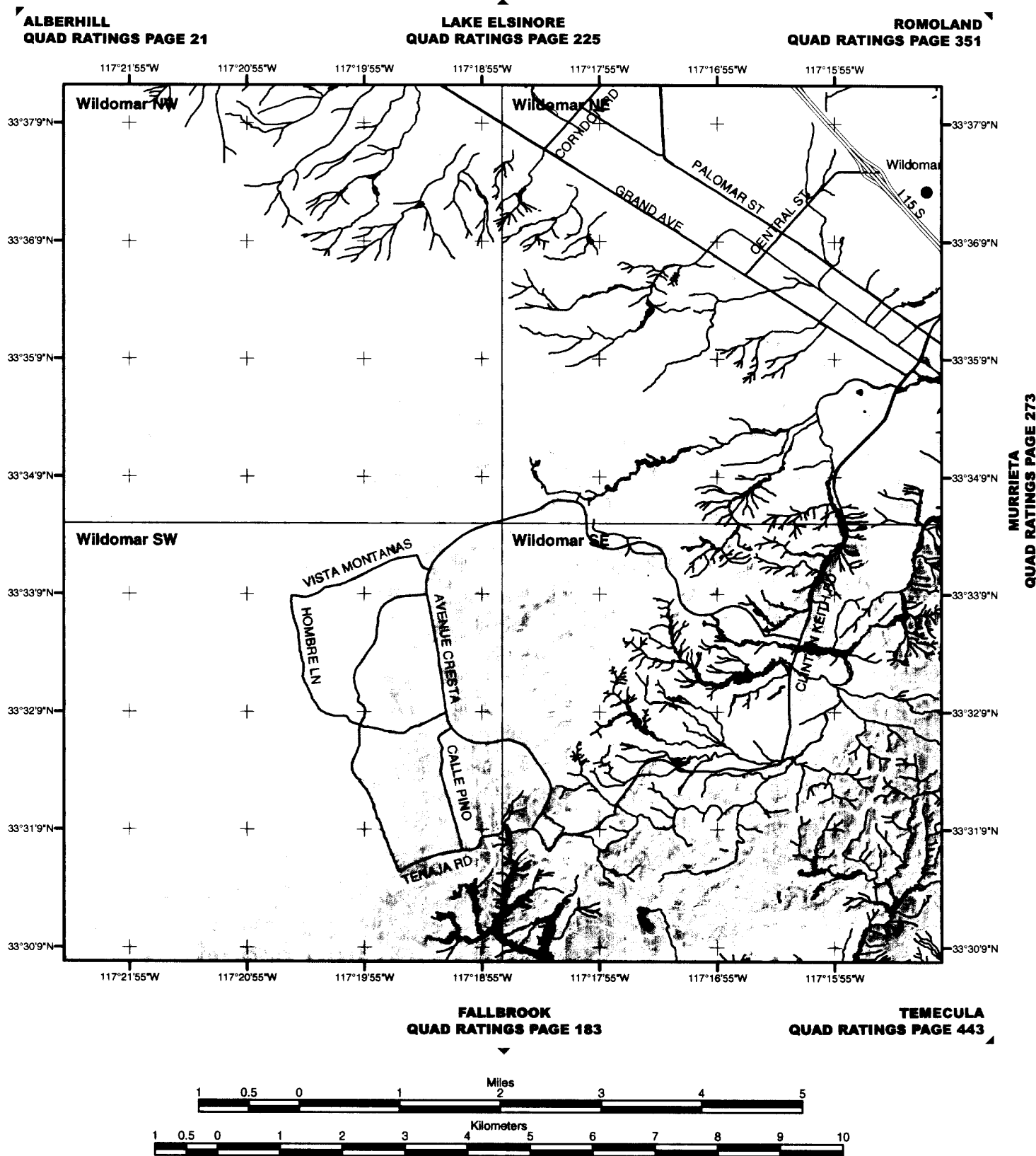


Warner Springs North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources

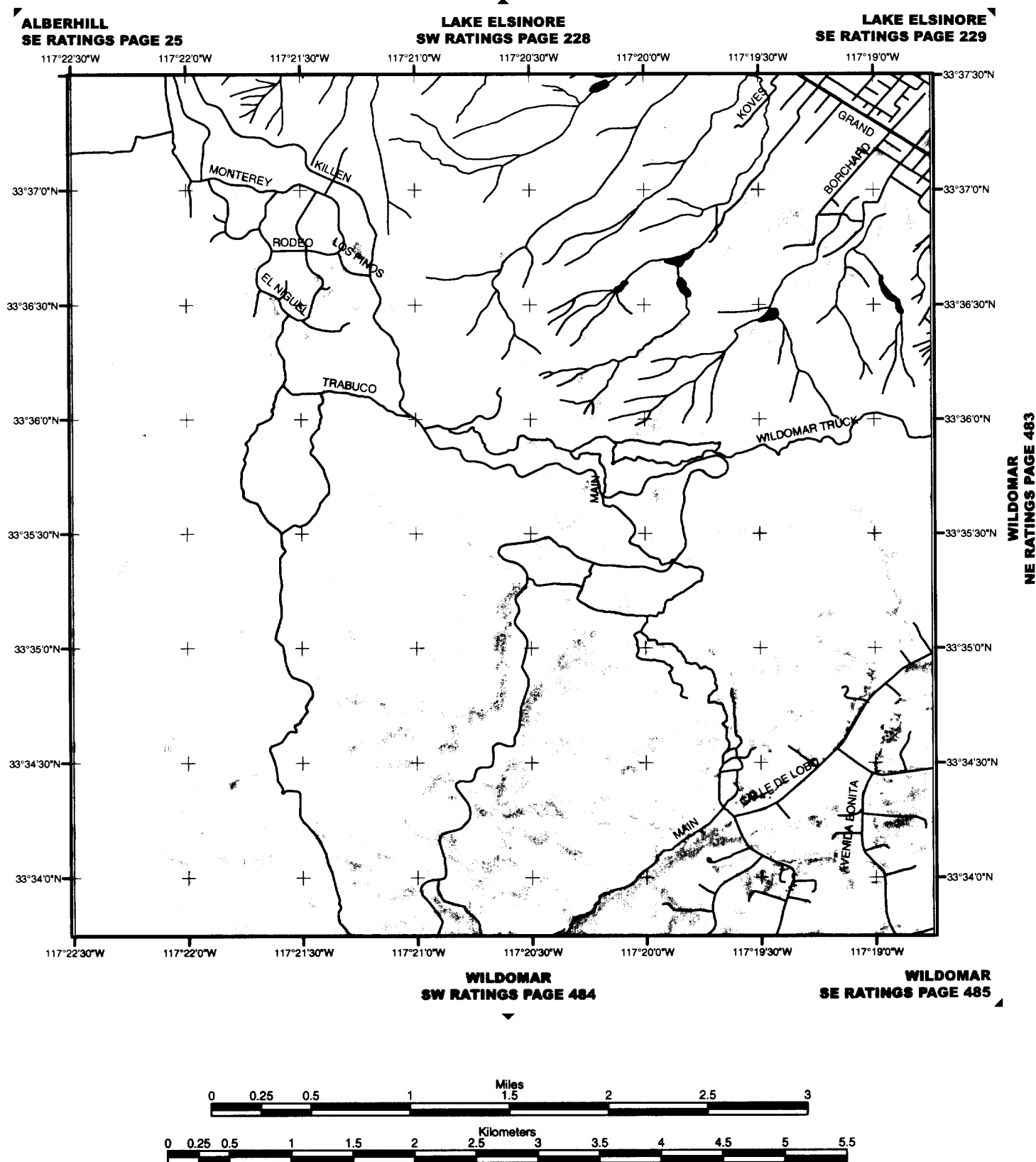


Wildomar Quadrangle

Regulatory Probability Ratings for Aquatic Resources



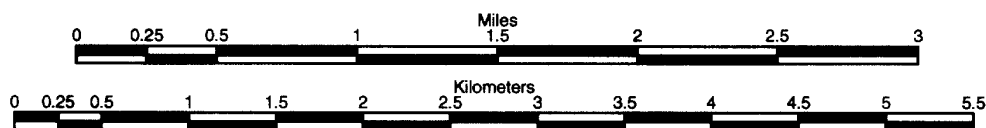
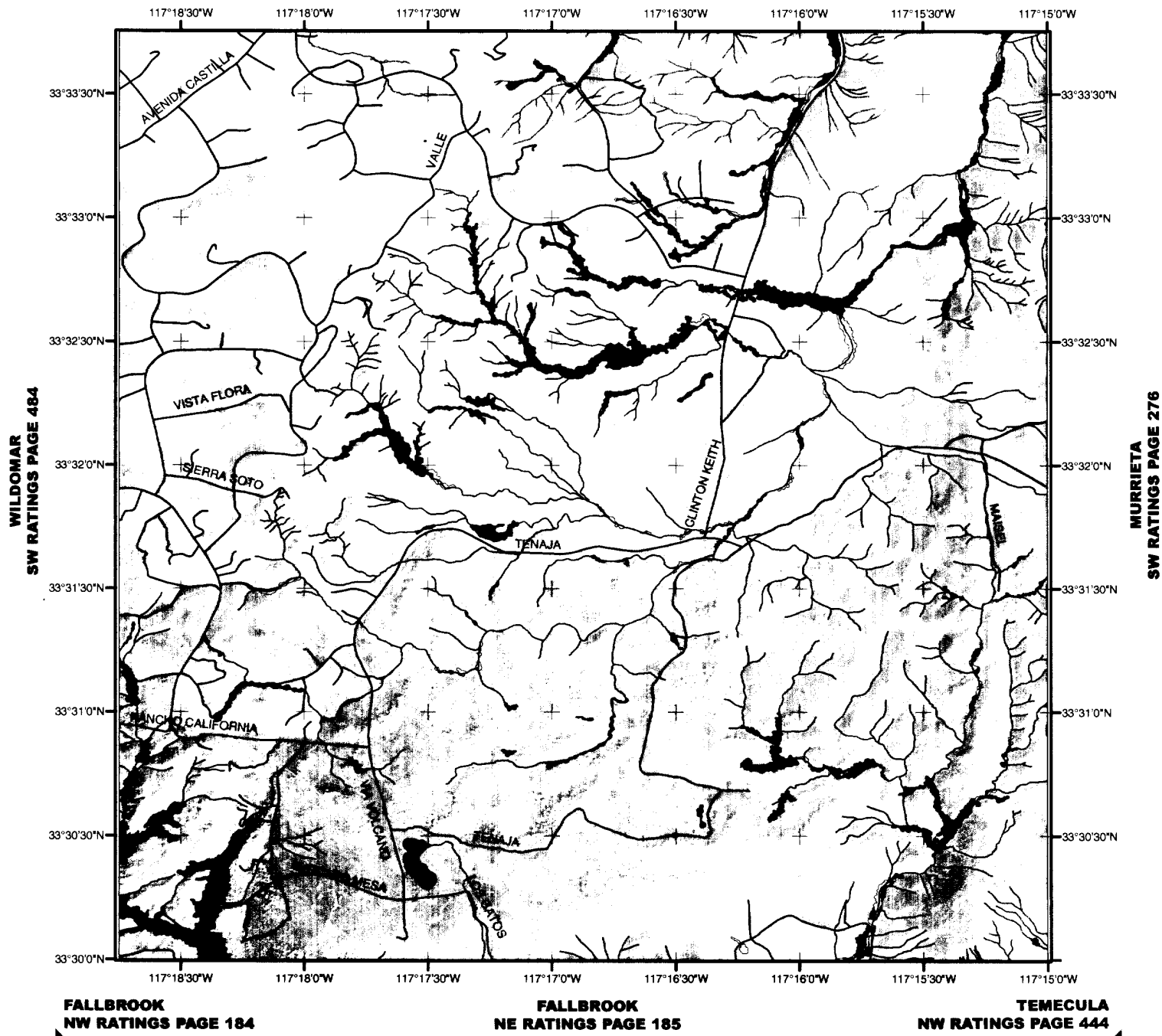
Wildomar North West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources





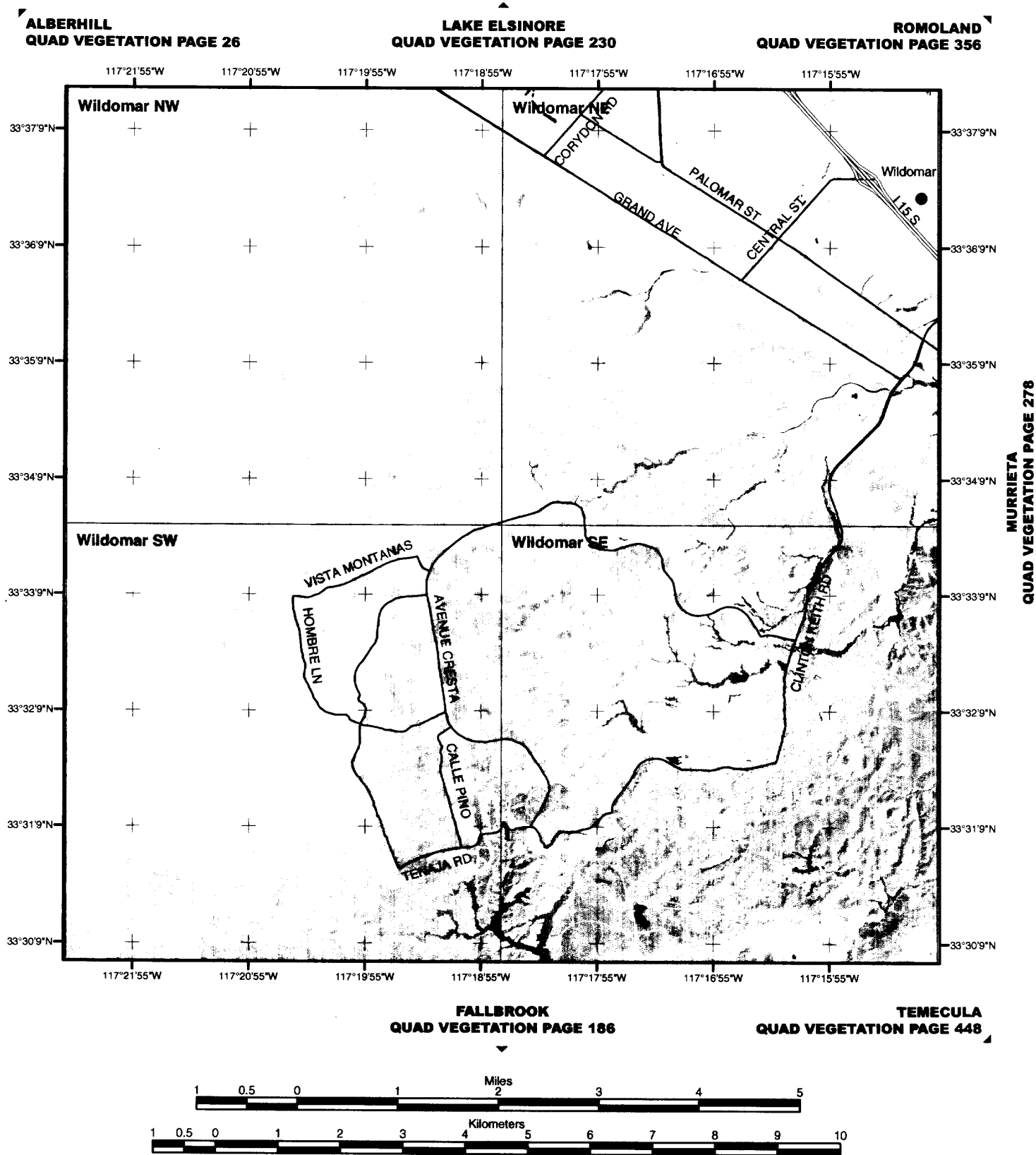
WILDOMAR
NW RATINGS PAGE 482

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NE RATINGS PAGE 483

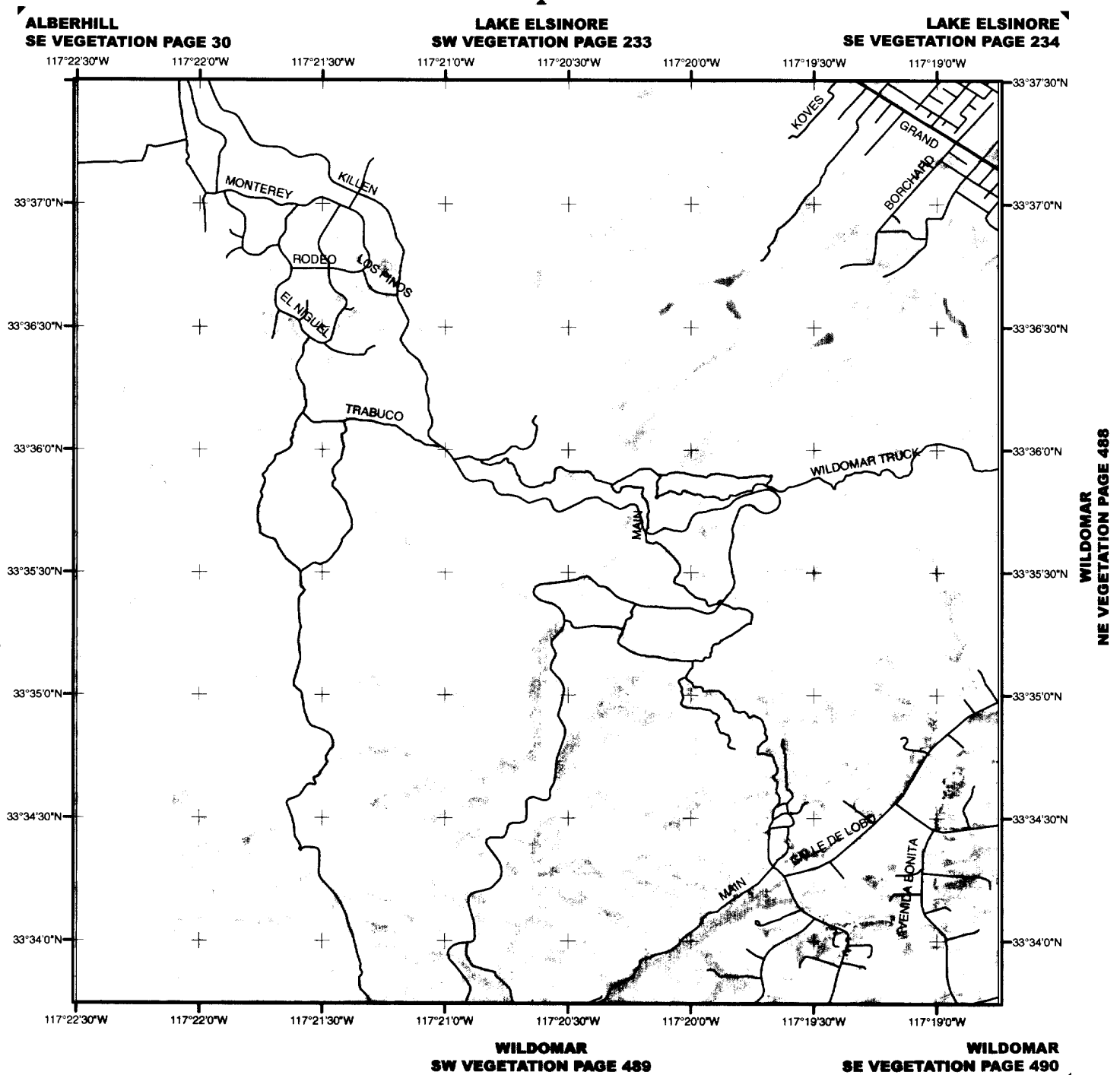
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Wildomar Quadrangle

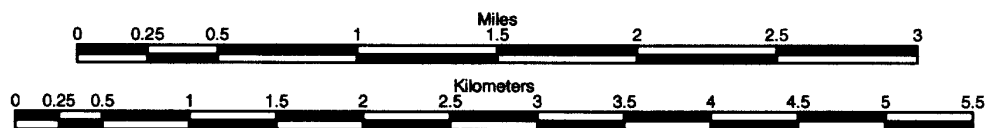
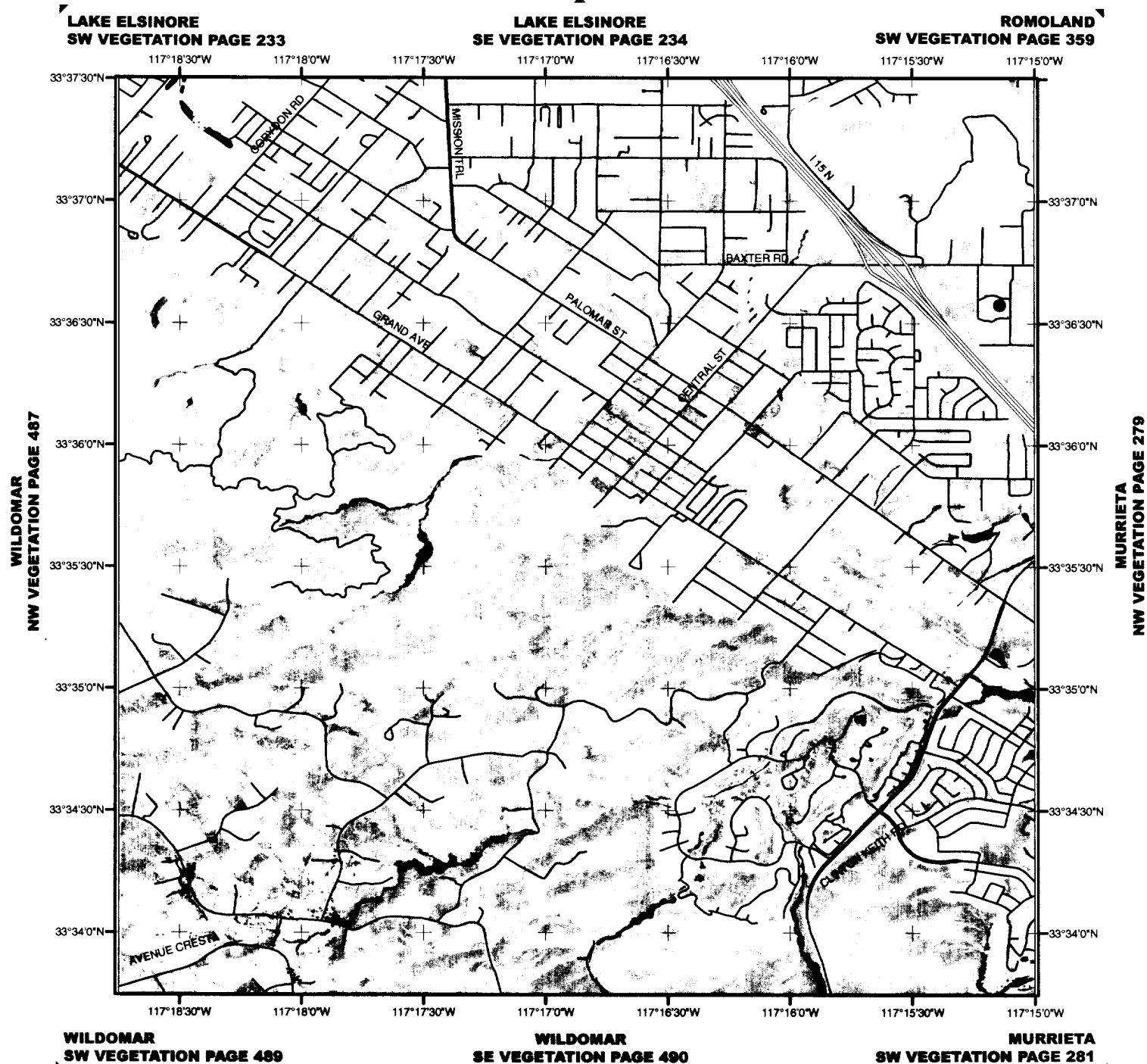
Vegetation Species Association Units for Aquatic Resources



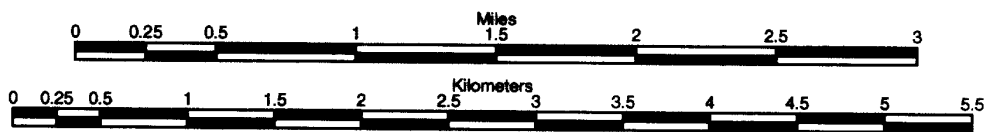
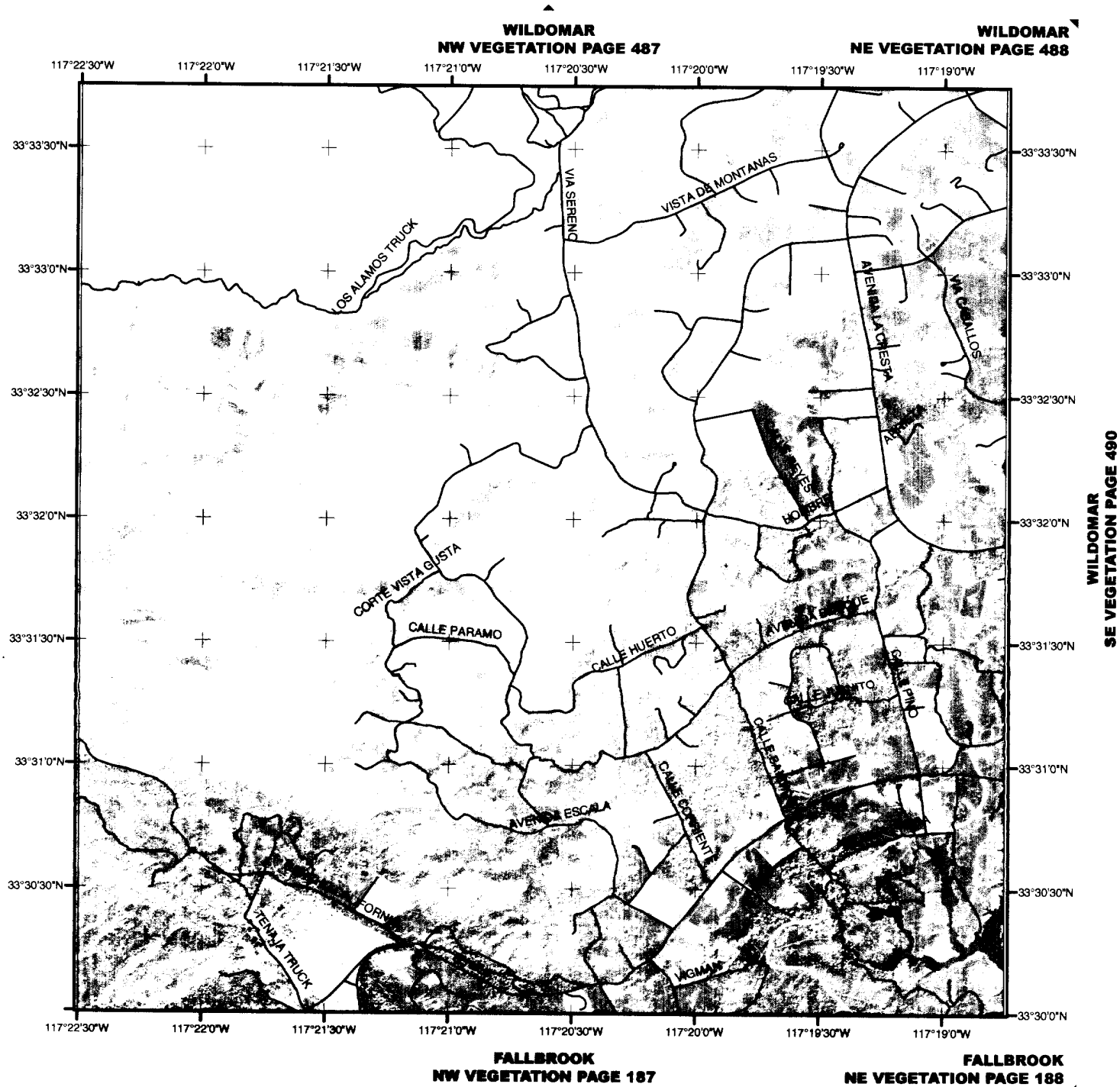
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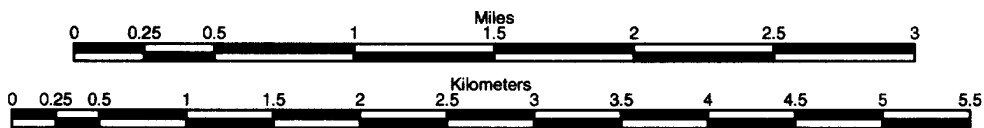
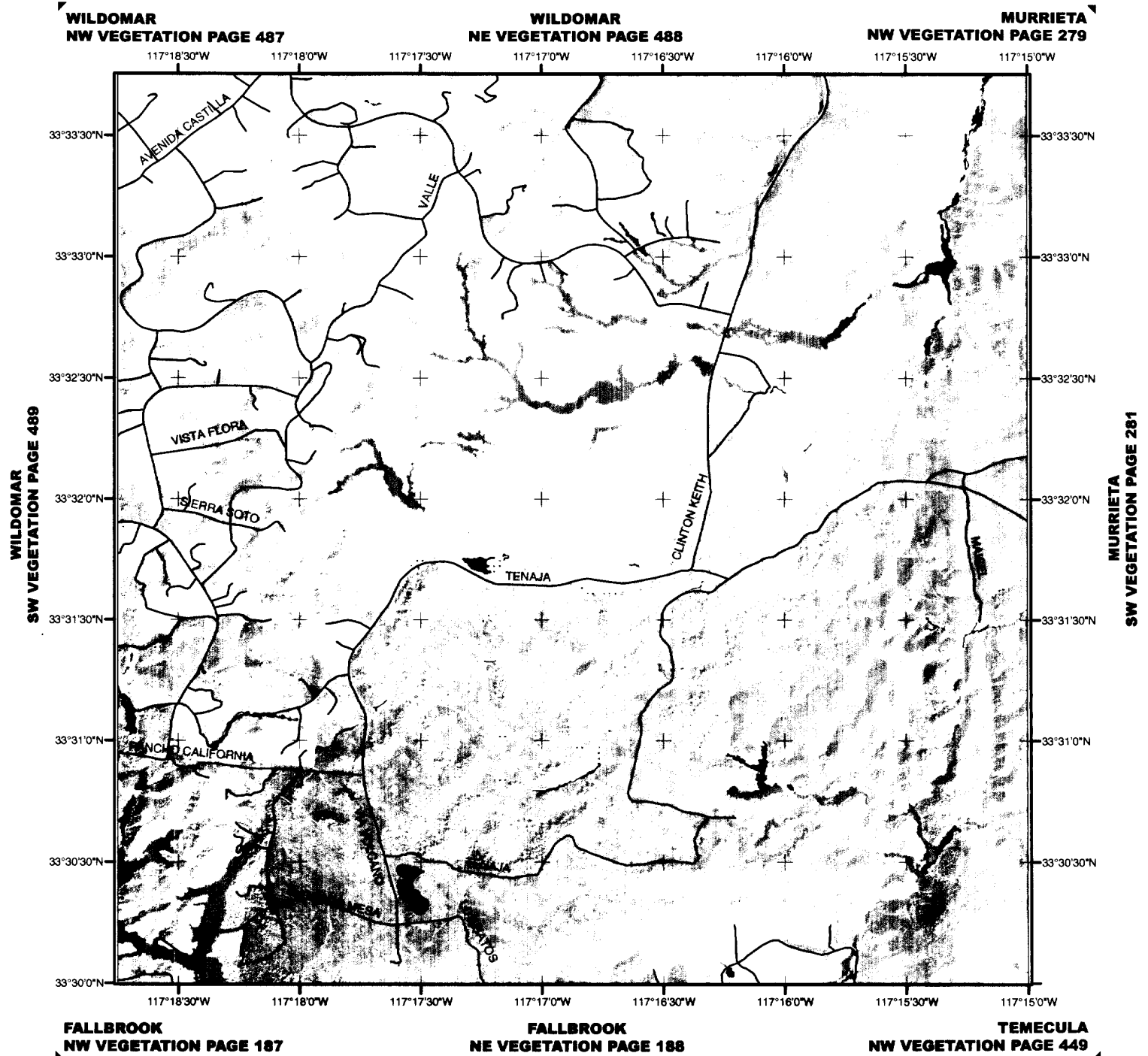
Wildomar North East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources



**Wildomar South West Quarter-Quadrangle
Vegetation Species Association Units for Aquatic Resources**

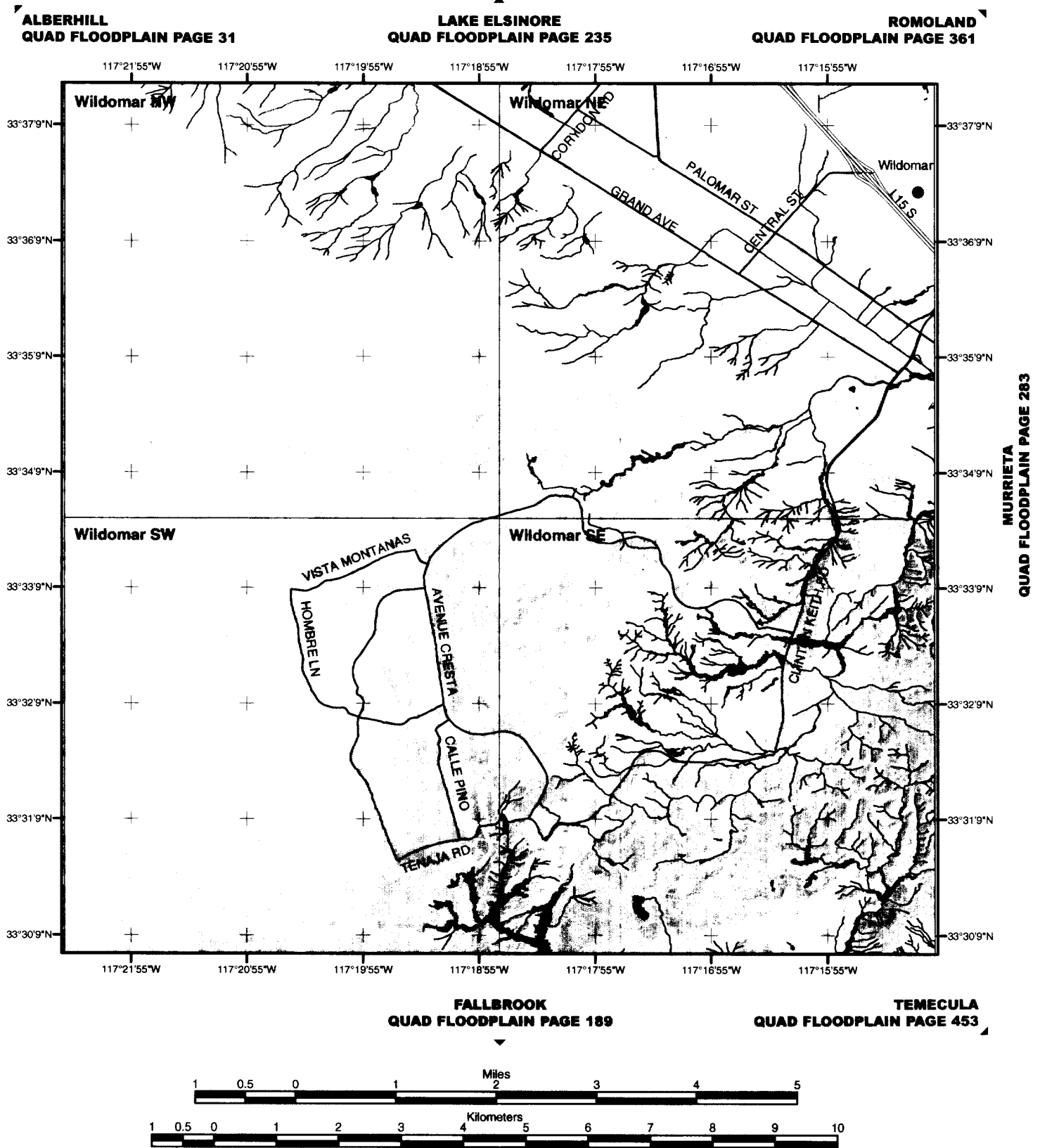


Wildomar South East Quarter-Quadrangle Vegetation Species Association Units for Aquatic Resources

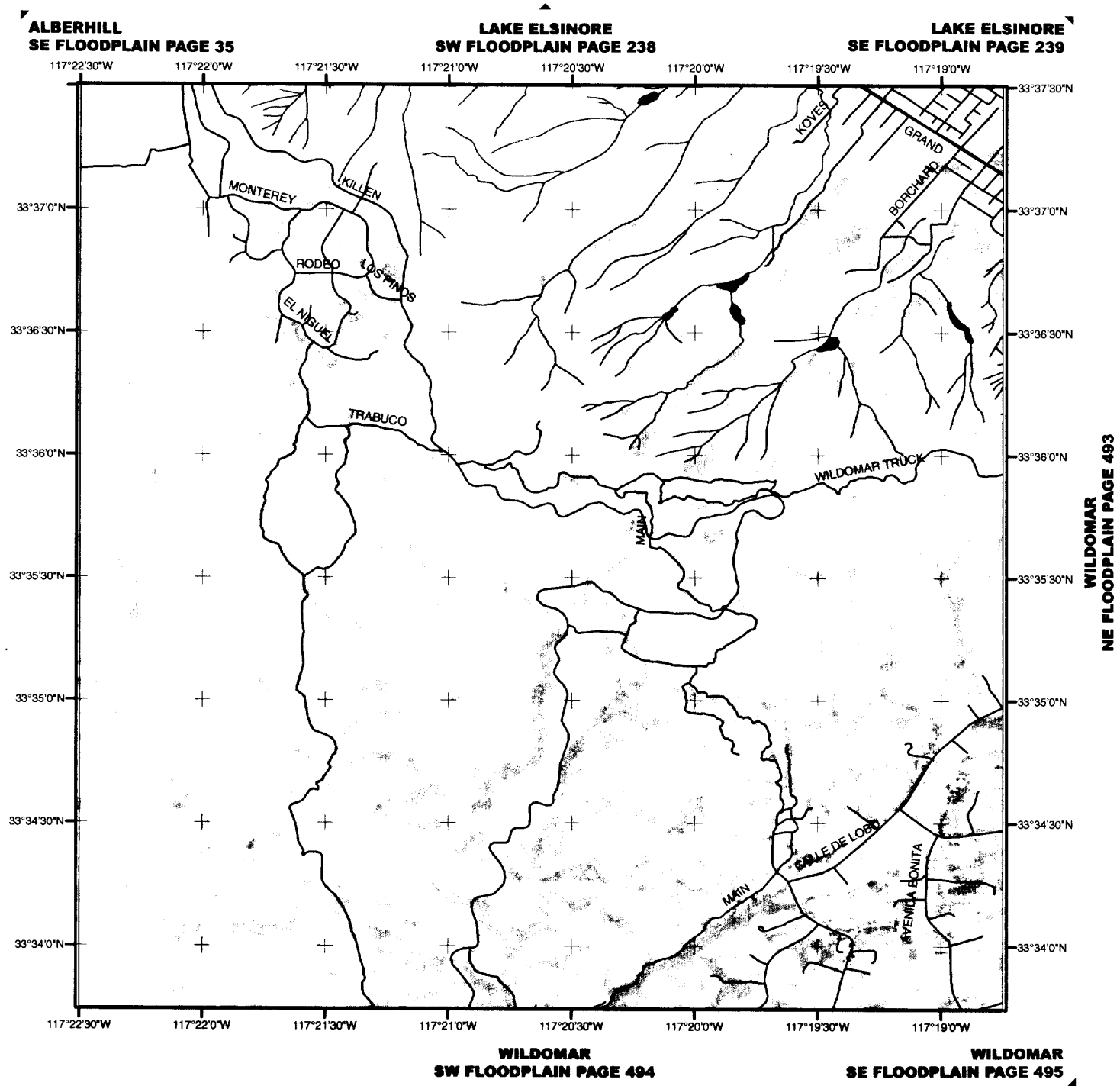


Wildomar Quadrangle

Hydrogeomorphic Floodplain Units for Aquatic Resources

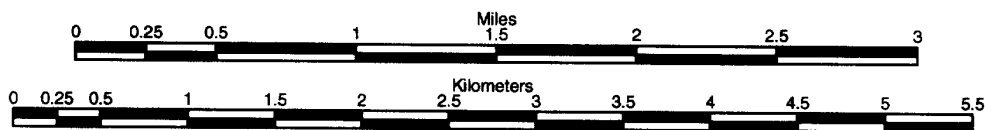
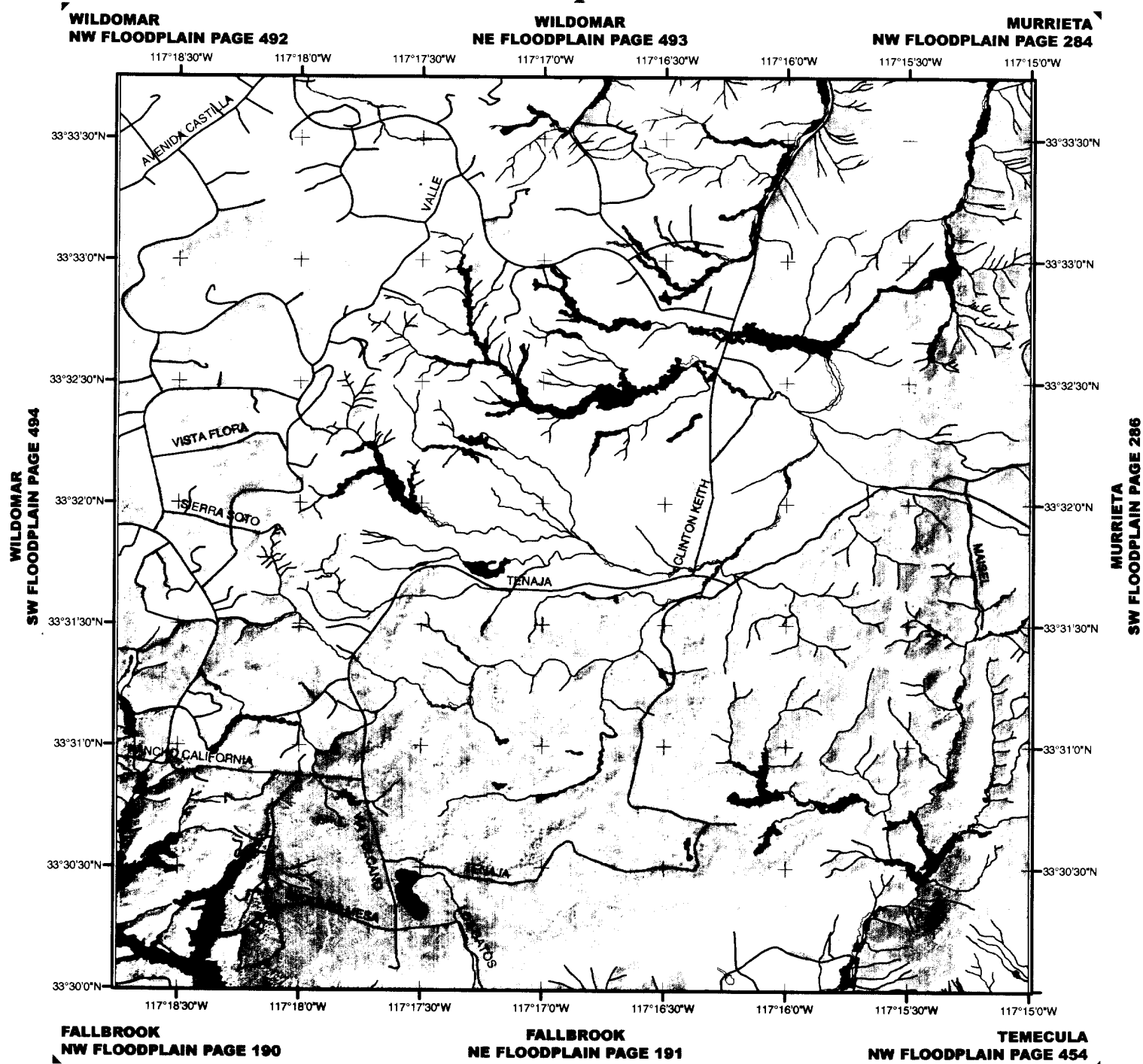


Wildomar North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



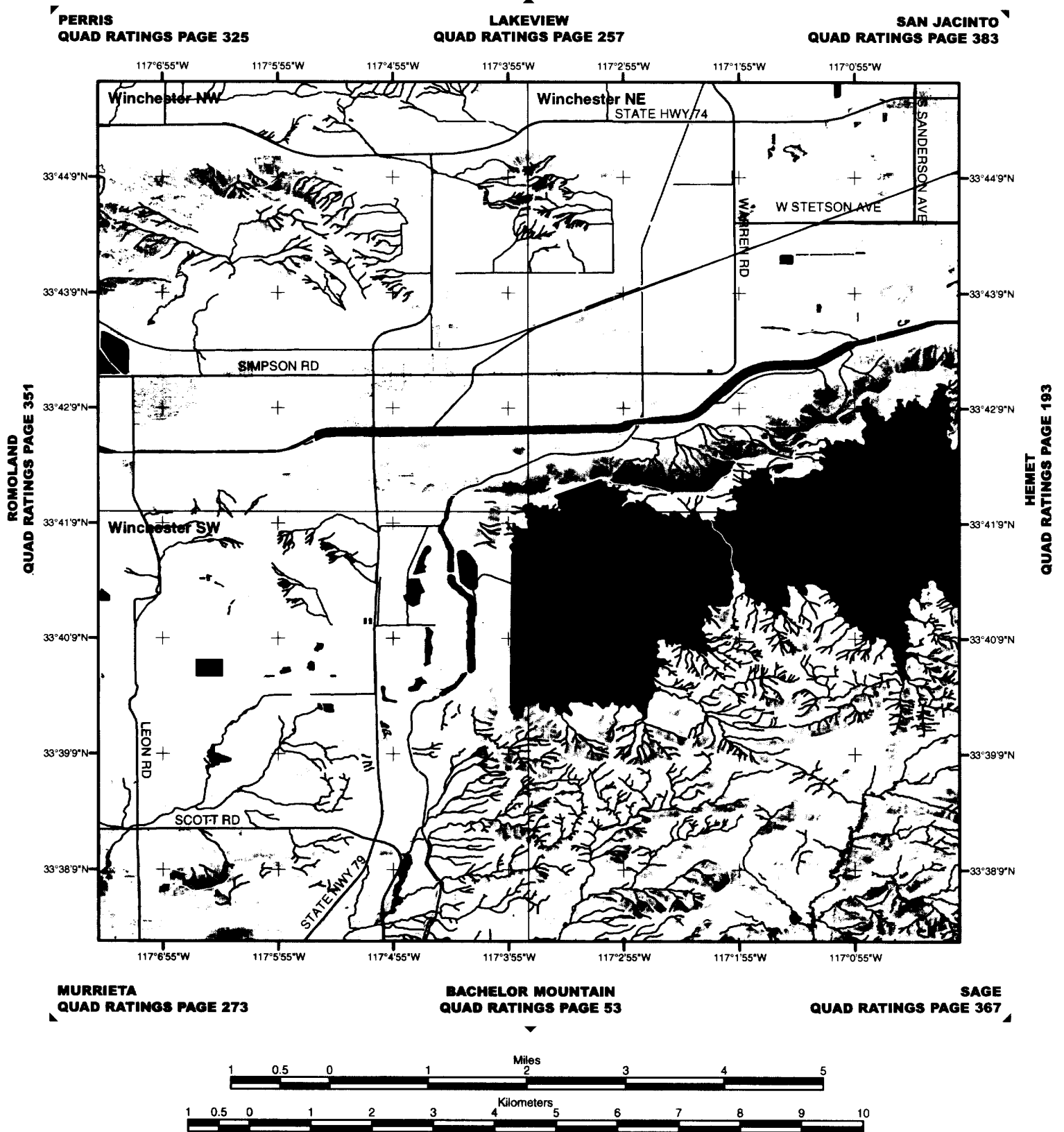
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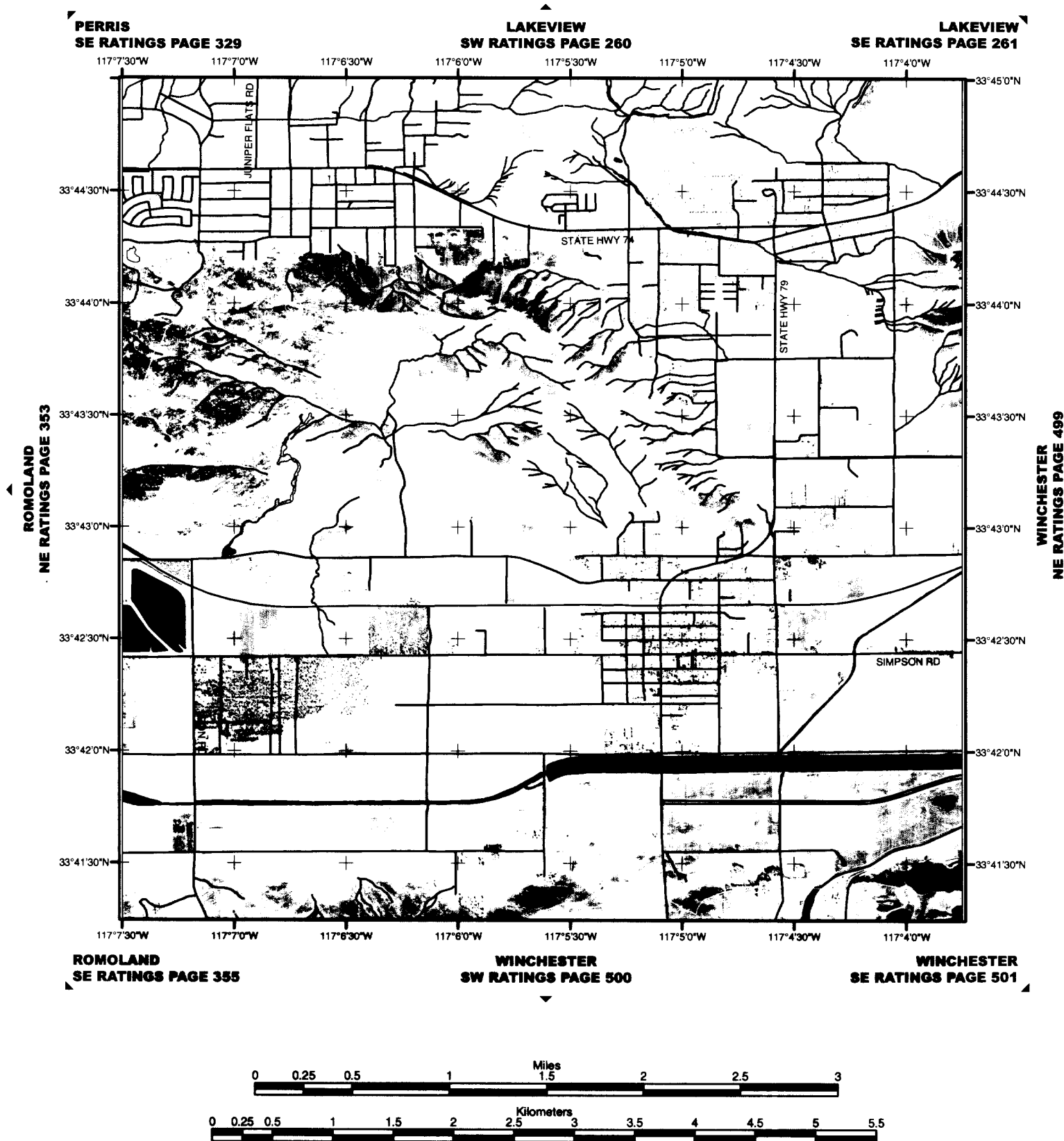


Winchester Quadrangle

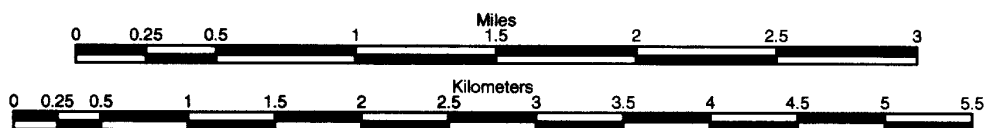
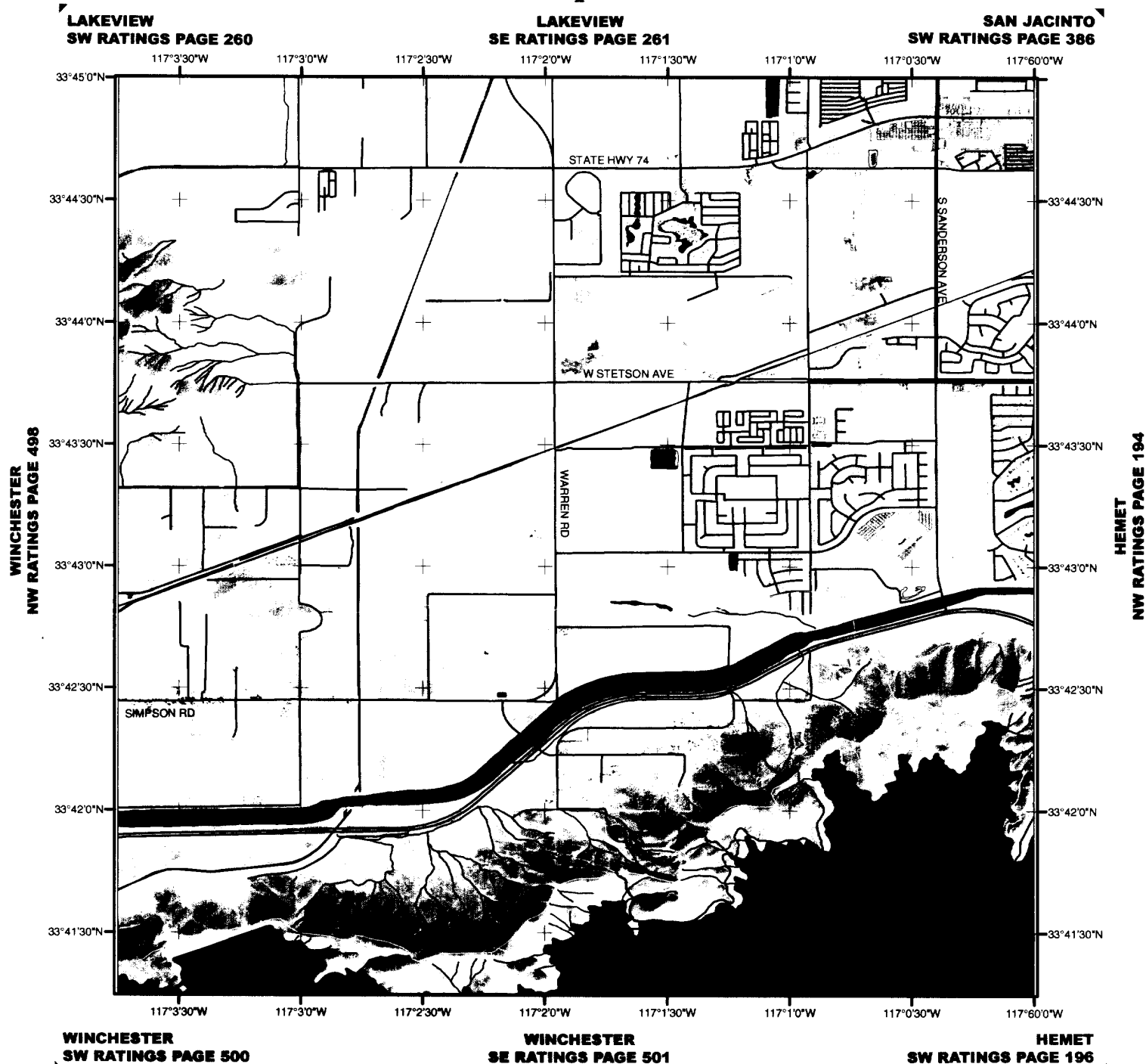
Regulatory Probability Ratings for Aquatic Resources



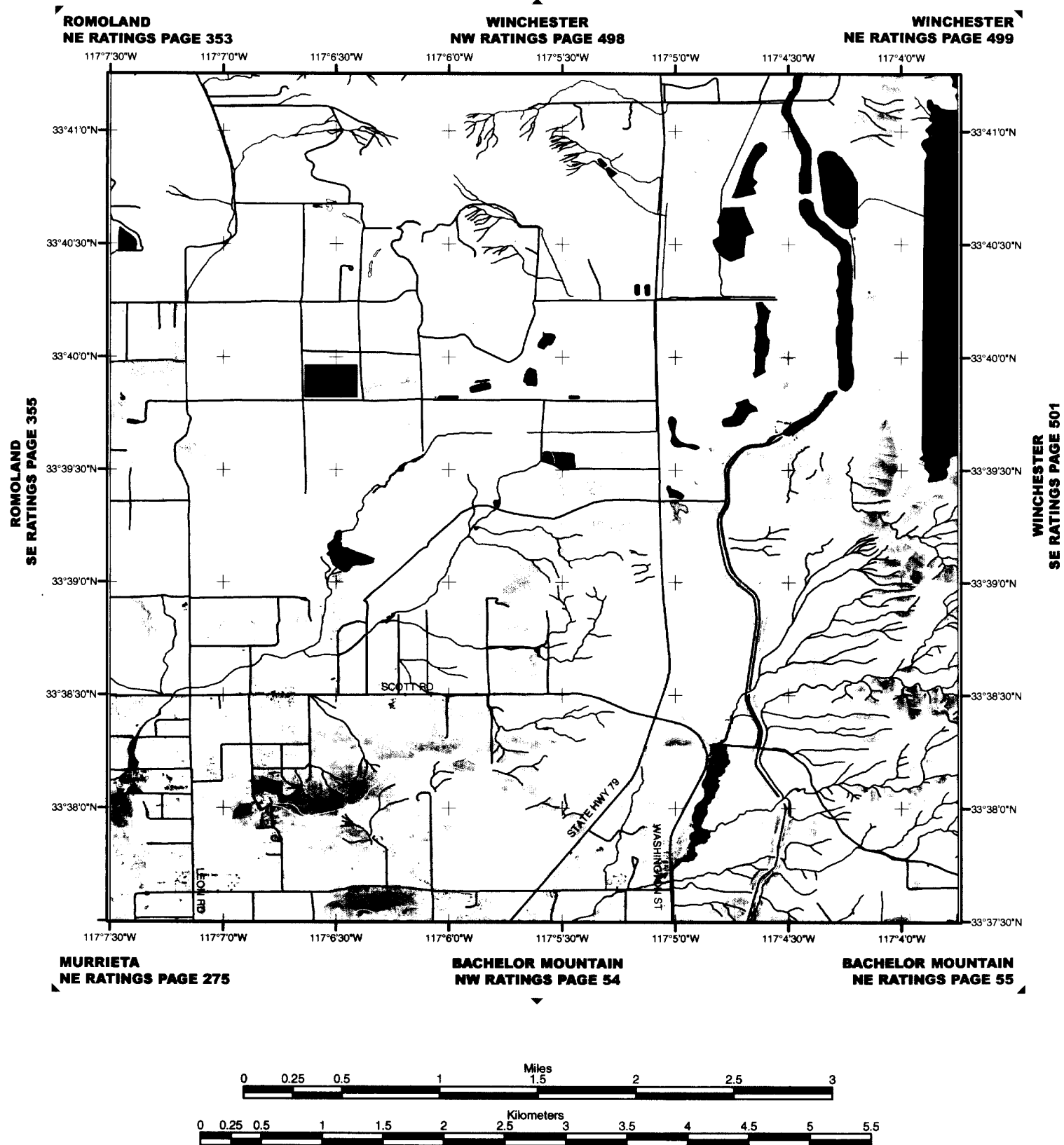
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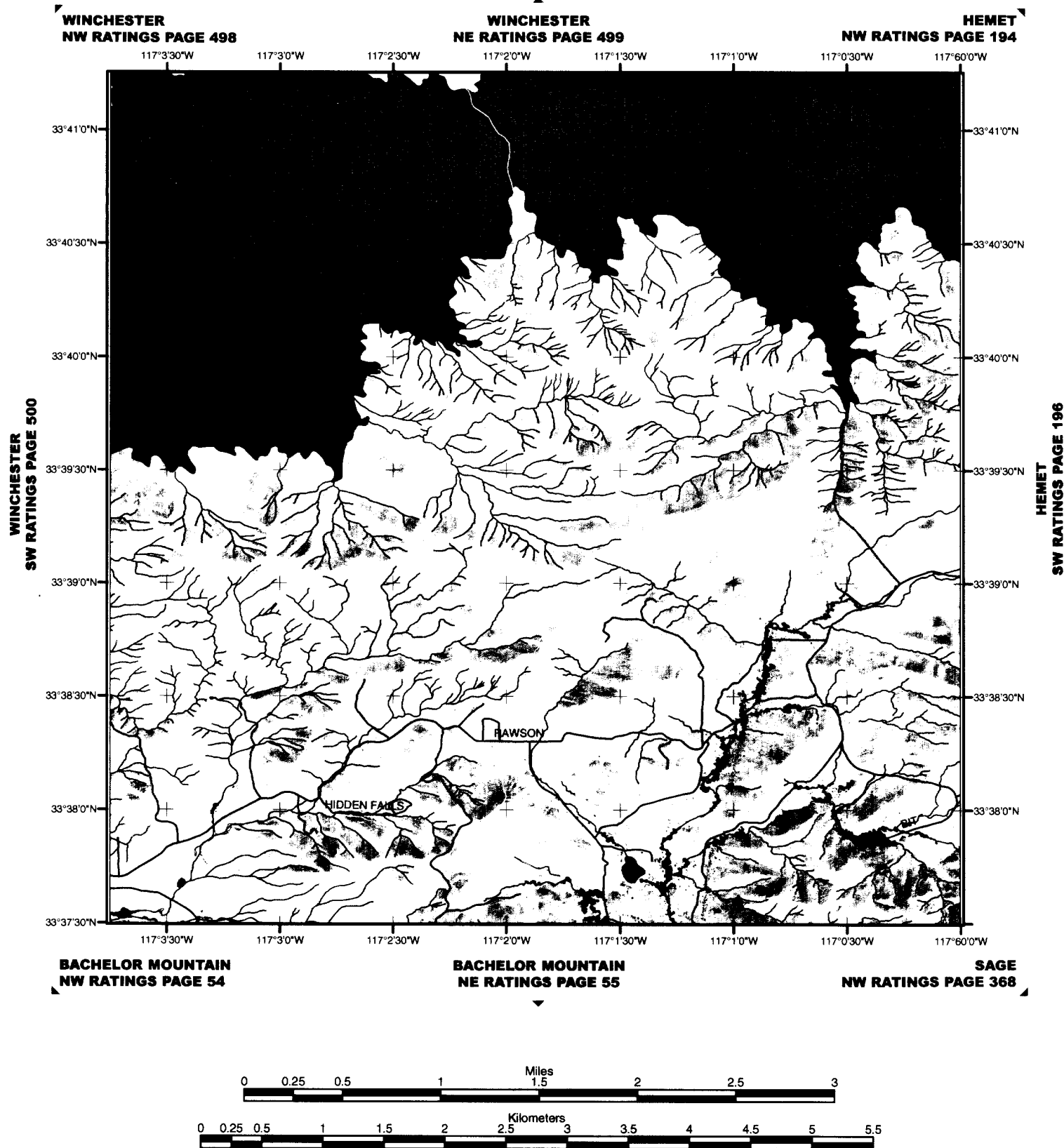
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Winchester South West Quarter-Quadrangle Regulatory Probability Ratings for Aquatic Resources

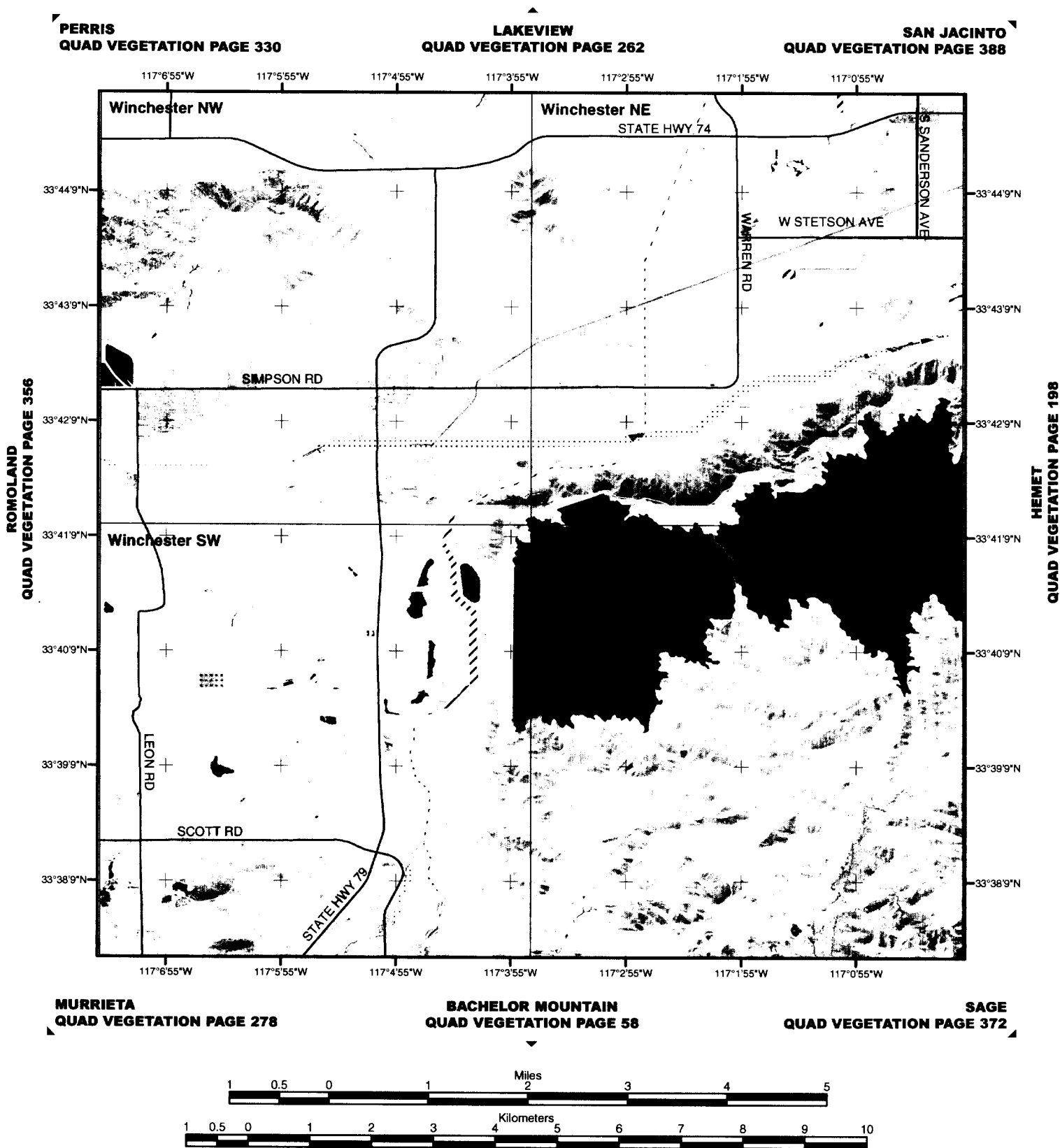


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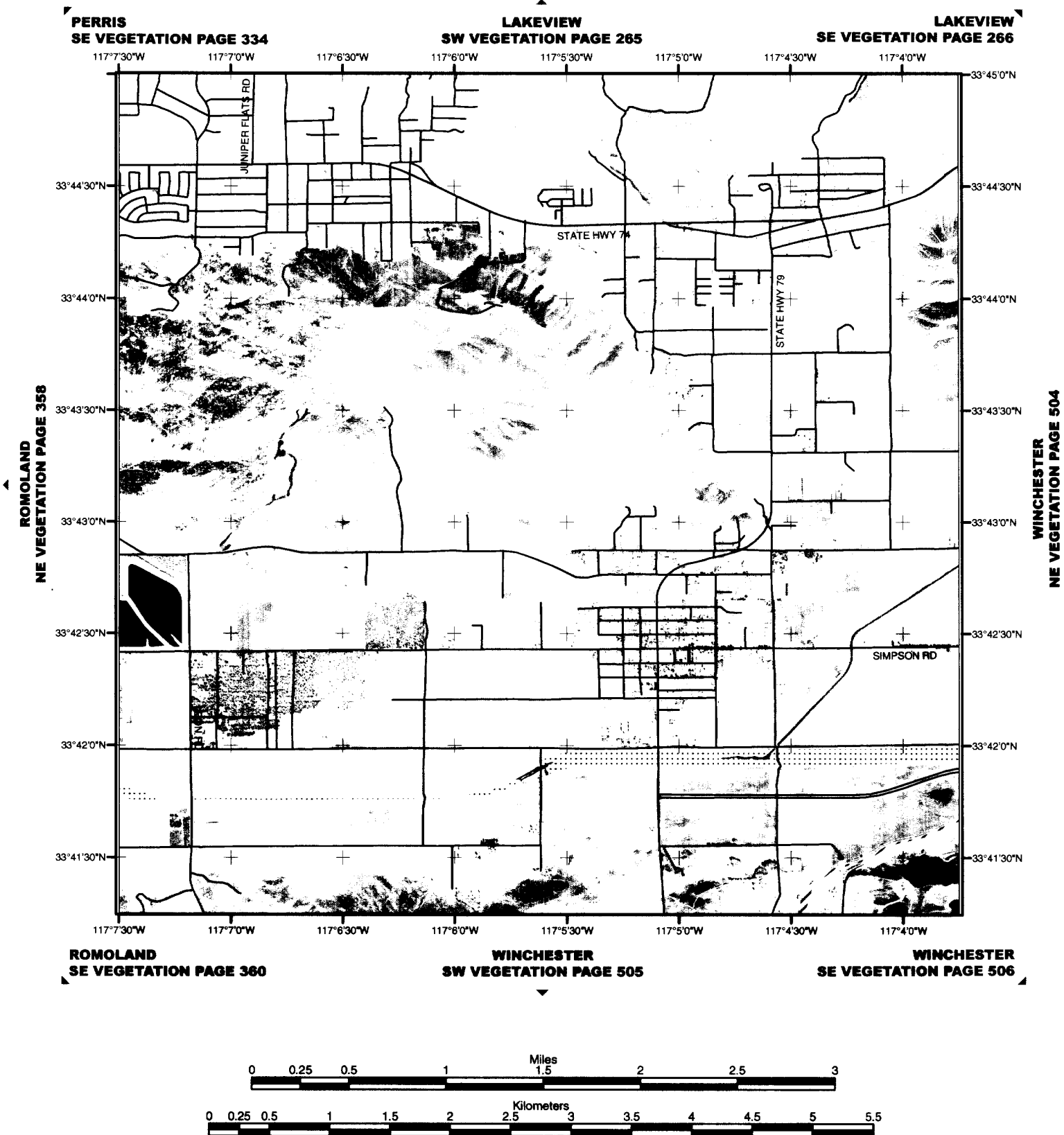


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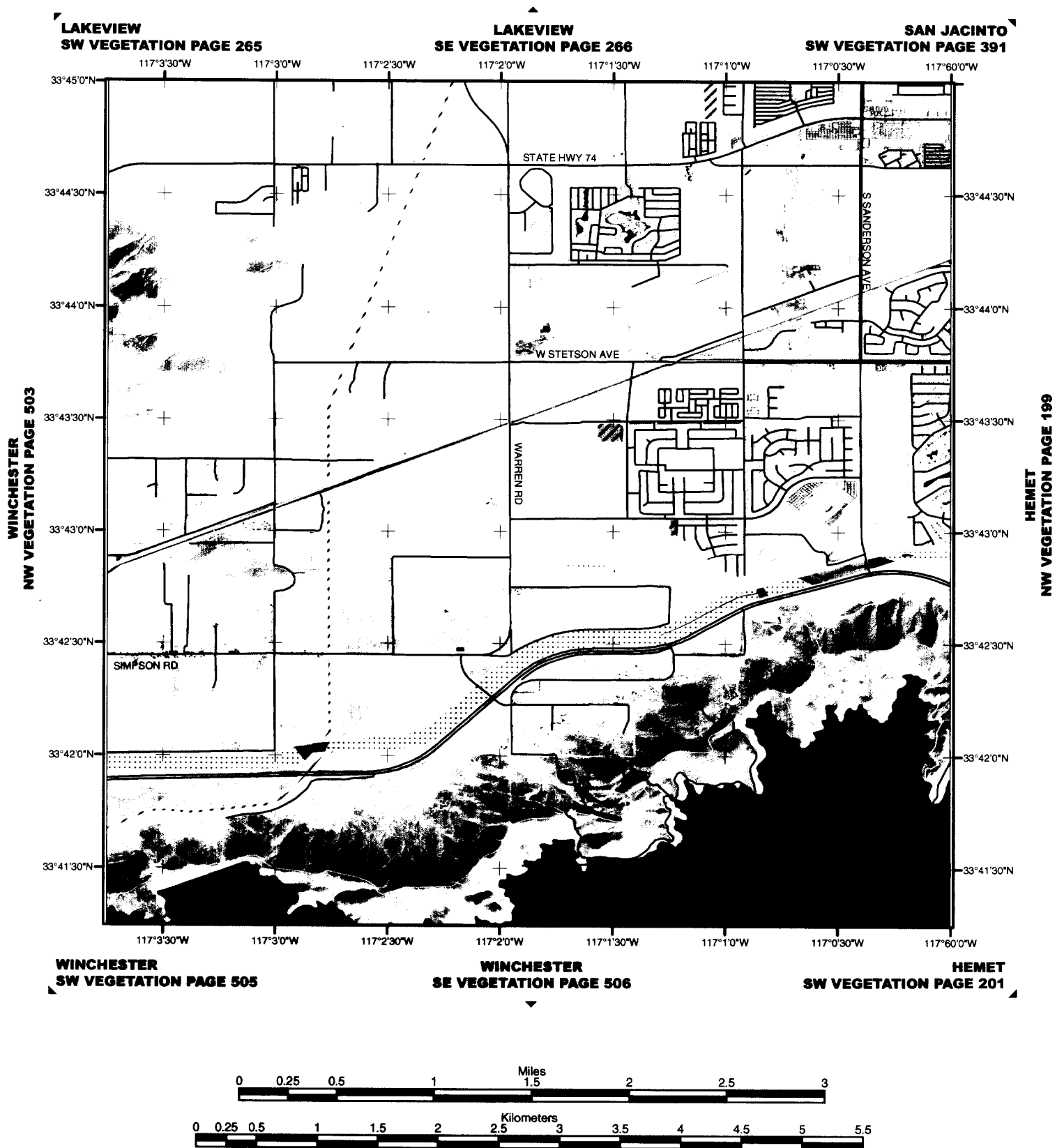
Vegetation Species Association Units for Aquatic Resources



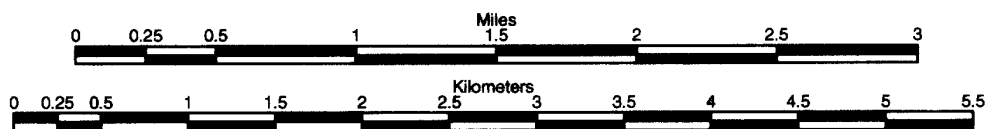
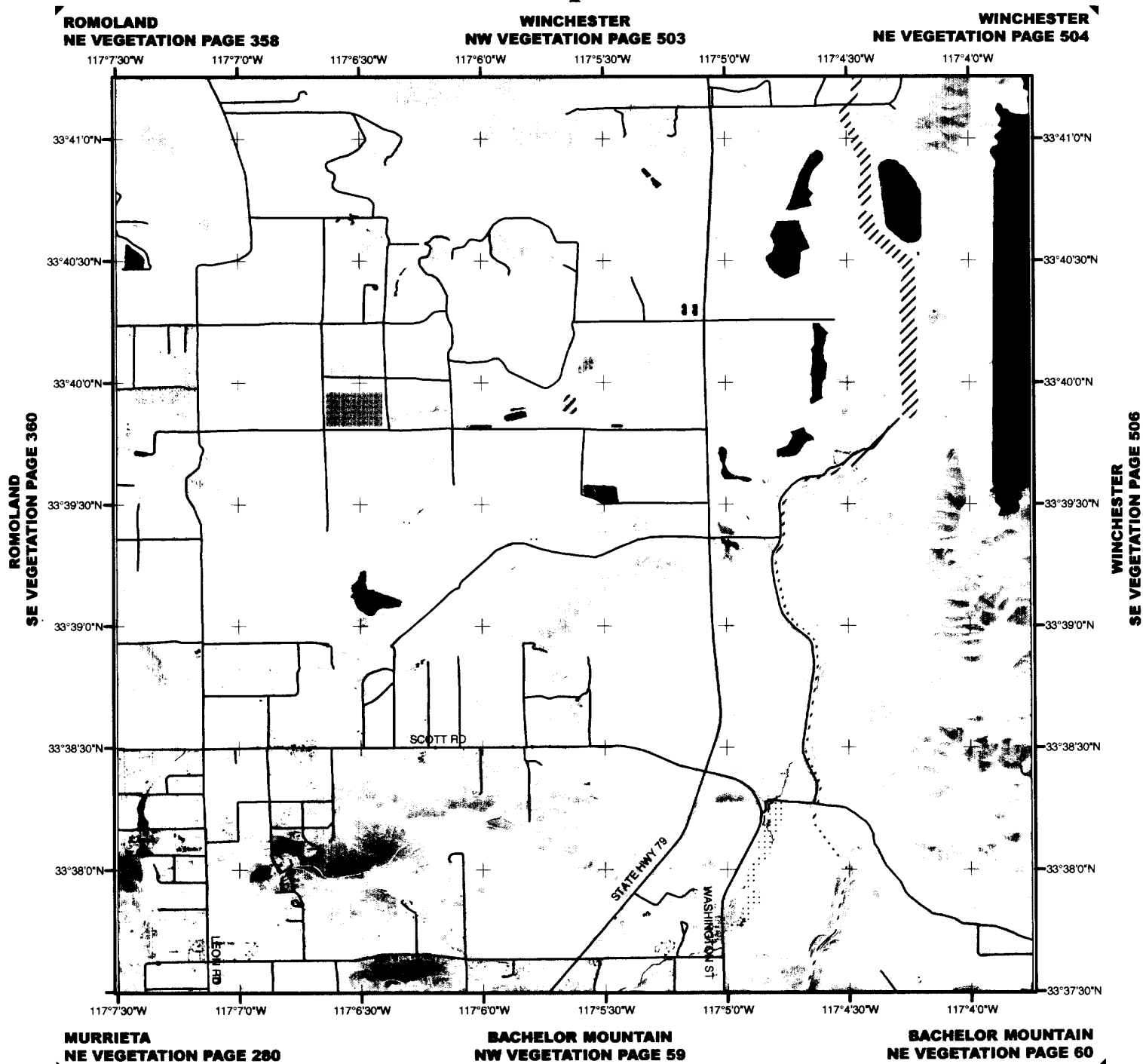
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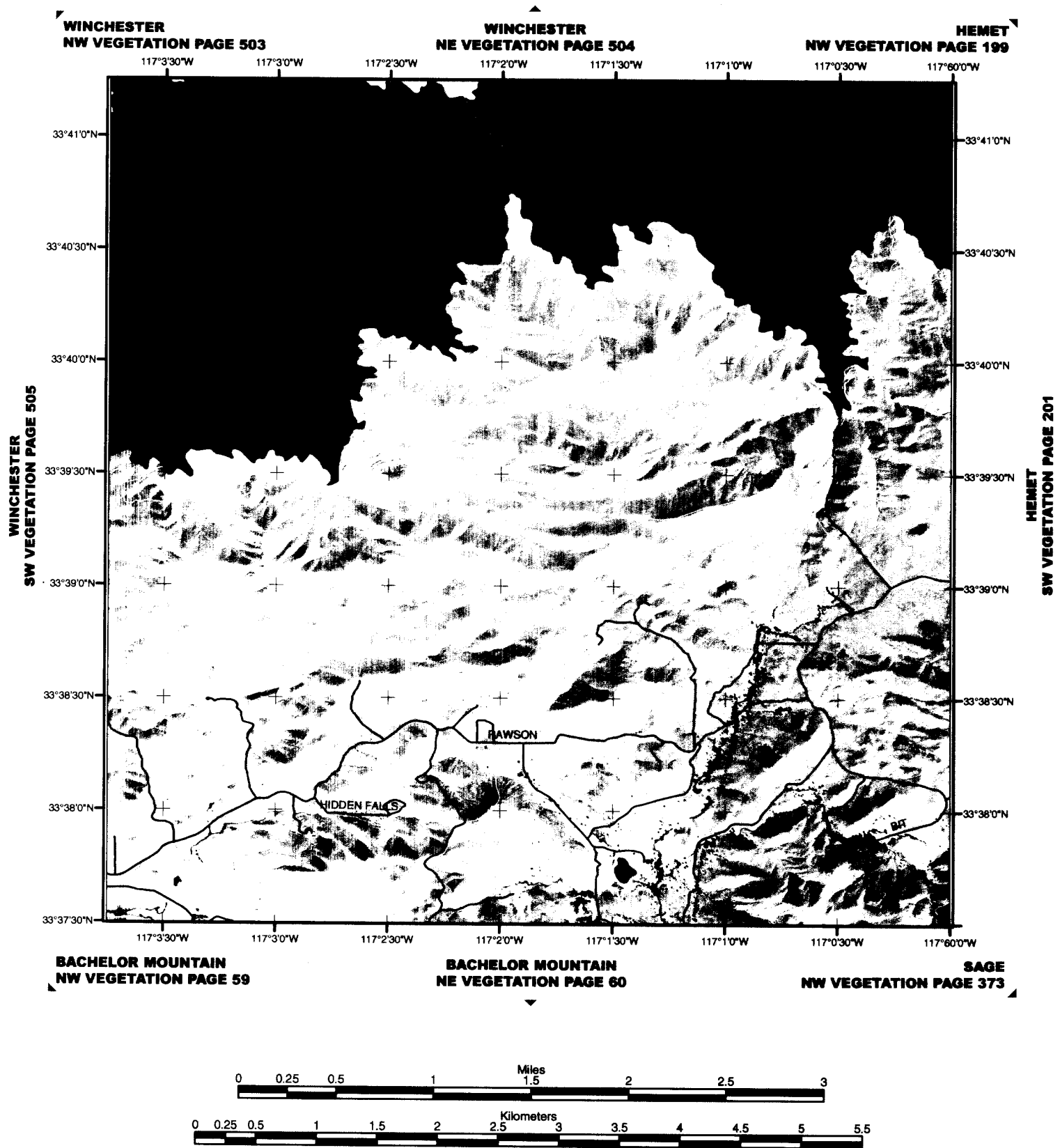
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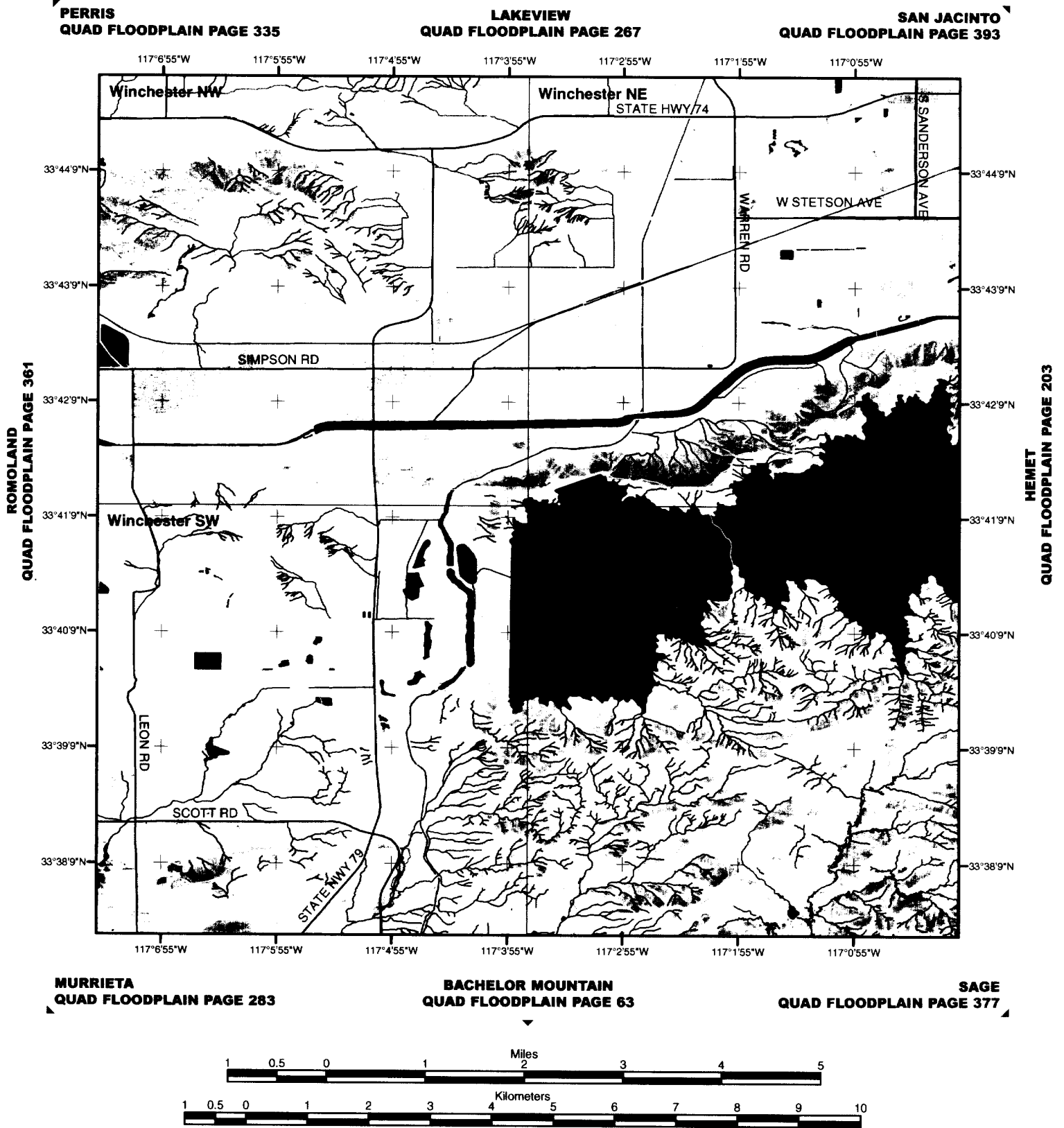


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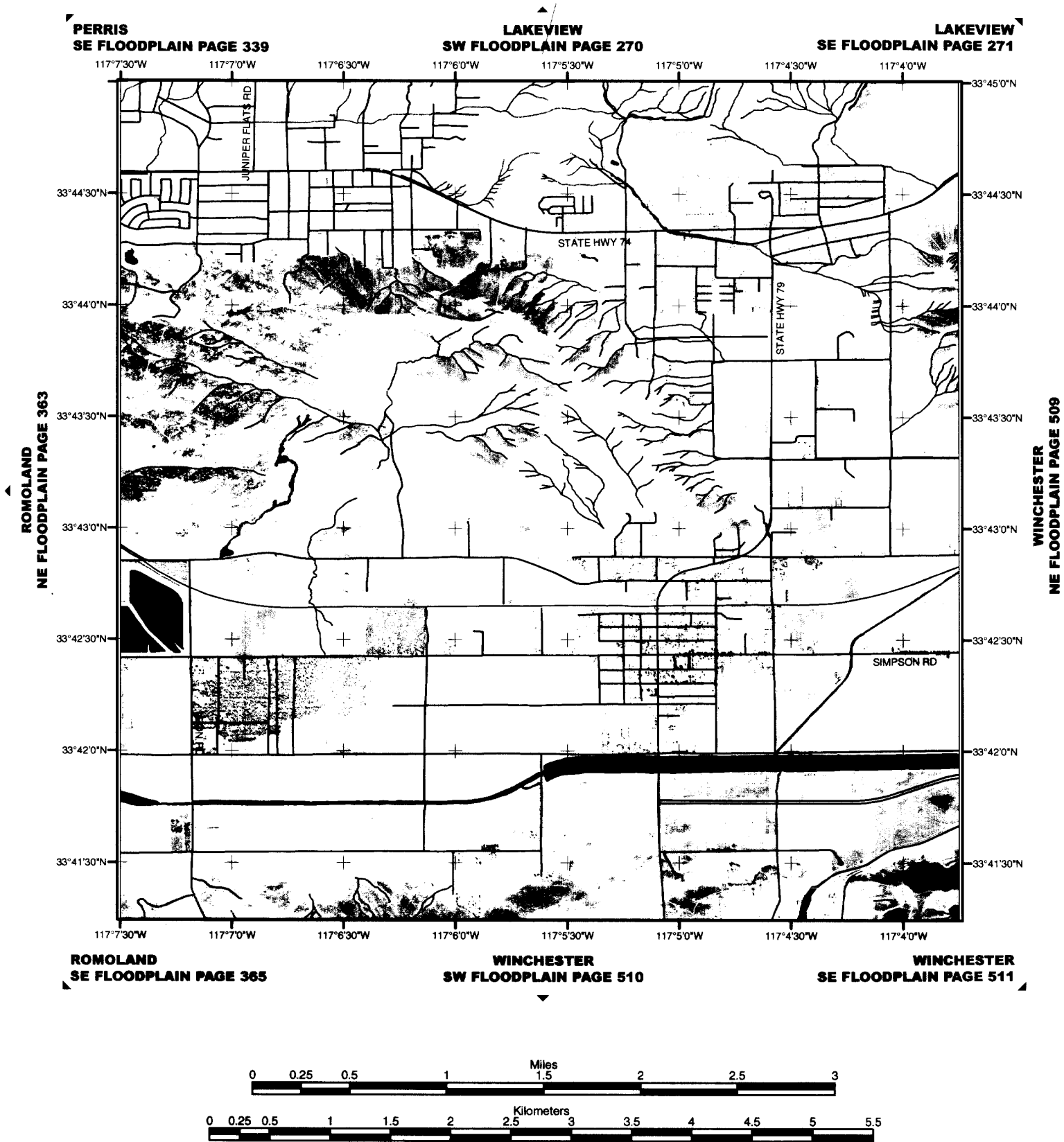


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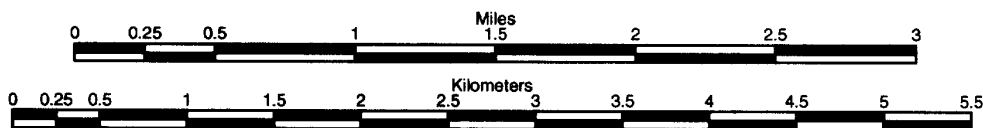
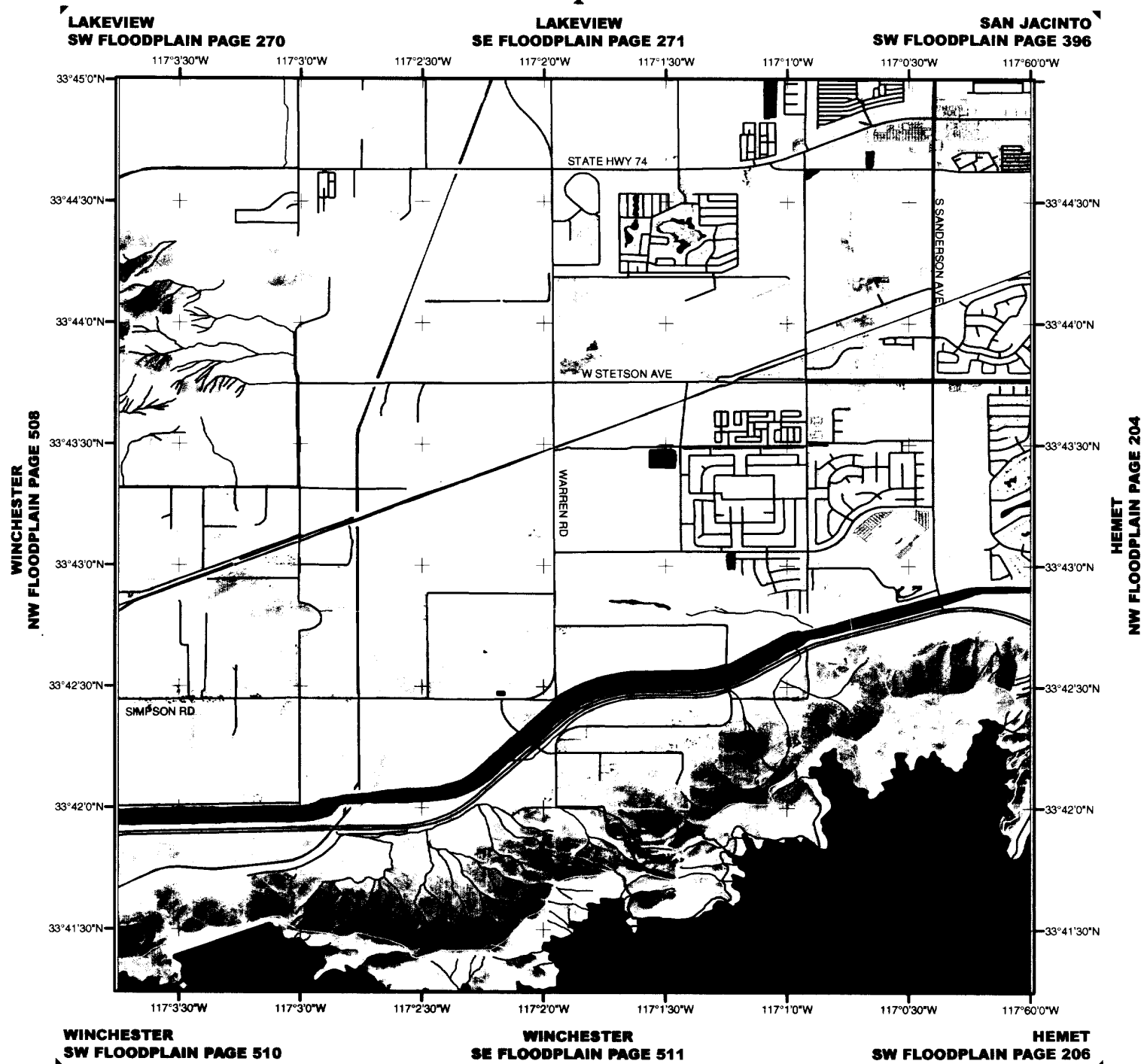
Hydrogeomorphic Floodplain Units for Aquatic Resources



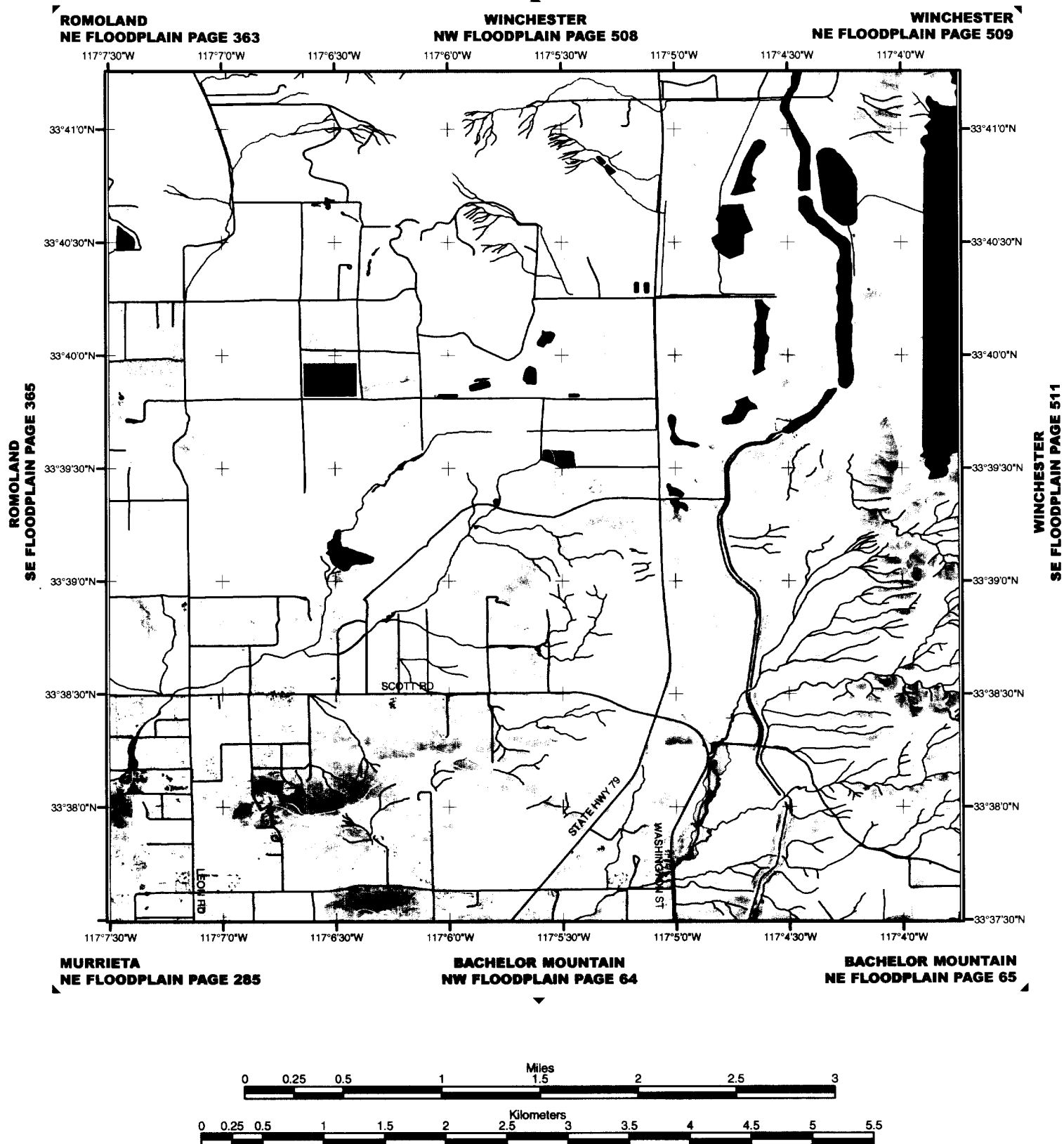
Winchester North West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



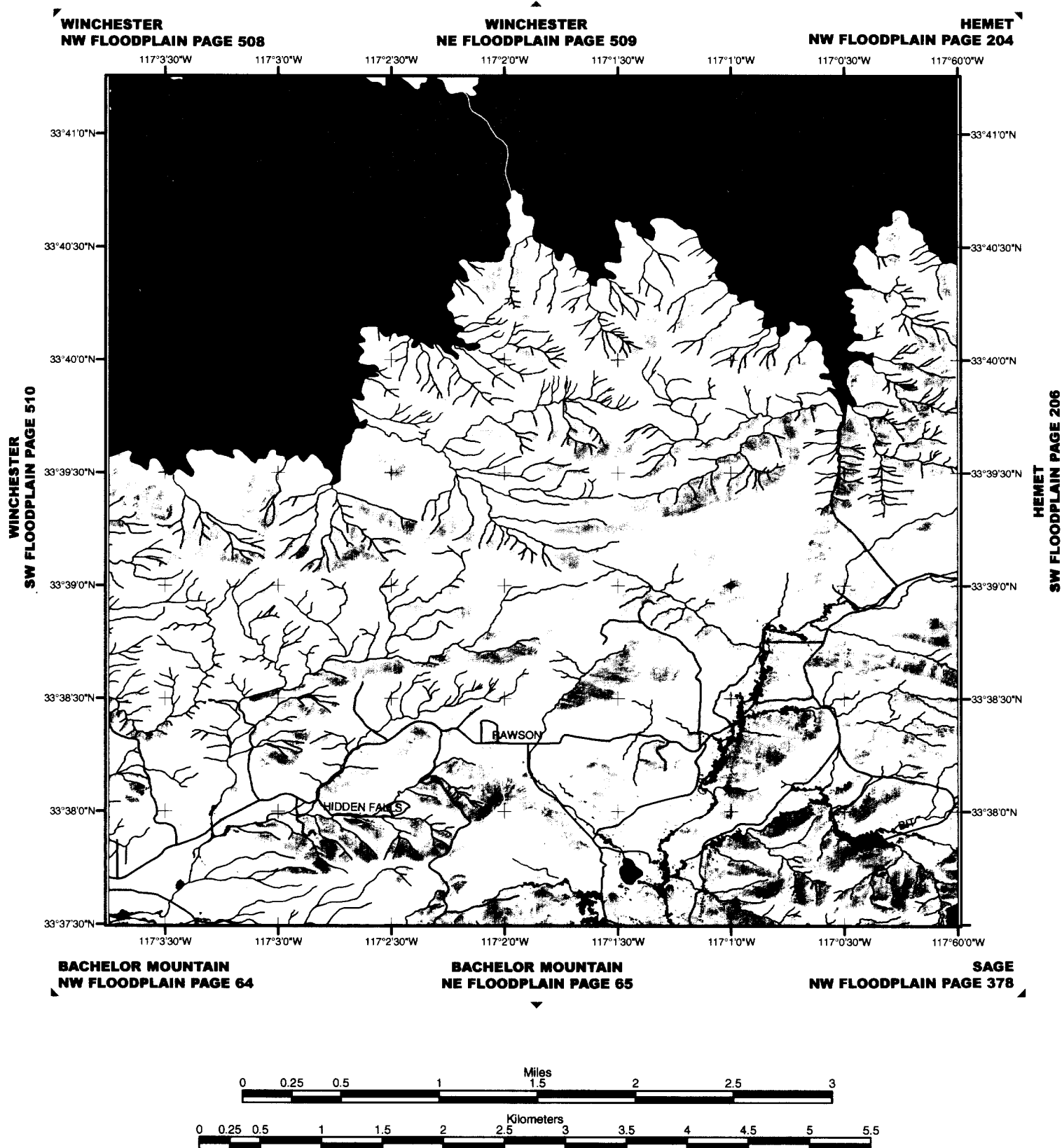
Winchester North East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



Winchester South West Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



Winchester South East Quarter-Quadrangle Hydrogeomorphic Floodplain Units for Aquatic Resources



Map Legend

Boundaries

San Jacinto and Portions of the Santa Margarita Watershed
Hydrologic Sub Area

Transportation

— Roads
— Freeways

Regulatory Probability Rating Units

- 1 Types meet the criteria for a wetland or WoUS 100% of the time
 - 1 Springs meet the criteria for a wetland or WoUS 100% of the time
 - 1 Washes meet the criteria for a wetland or WoUS 100% of the time
- 2 Types meet the criteria for a wetland or WoUS 67 - 98% of the time
- 3 Types meet the criteria for a wetland or WoUS 33 - 66% of the time.
- 4 Types meet the criteria for a wetland or WoUS 2 - 32% of the time (primarily uplands)
- 5 Types meet the criteria for a wetland or WoUS <2% of the time (primarily uplands)
- 6 Unregulated upland
- Problematic Active Floodplain

Hydrogeomorphic Floodplain Units

- Abandoned Floodplain/Terrace (Inundation Re occurrence Interval Between 10 and 100 years)
- Active Floodplain (Inundation Re occurrence Interval Between 1 and 10 years)
- Non Floodplain Riparian (Inundation Re occurrence Interval >100 years)
- Problematic Active Floodplain (Inundation Re occurrence Interval Between 1 and 10 years)
 - Springs (Inundation Re occurrence Interval of 2 years)
 - Washes (Inundation Re occurrence Interval of 2 years)

Vegetation Species Association Units

Artificial Structure

- Aquaduct
- Constructed Wetlands
- Disturbed Sites
- Flood Control Structure
- Lined Pond/Fountain
- Pond
- Retention Basin
- Sewage Pond

Juncus Meadow

- Juncus effusus*
- Juncus mexicanus*

Water Body

- Freshwater Pond
- Lake
- Pond
- River
- Spring

Montane Forest

- Abies concolor*
- Pinus coulteri*
- Pinus jeffreyi*
- Pinus ponderosa*
- Pseudotsuga macrocarpa*

Herbaceous

- Native**
 - Riparian Dry (Dry Species)
 - Riparian Moist (Moist Species)
 - Riparian Wet (Wet Species)
- Non Native**
 - Agricultural Weeds
 - Common Weeds

Grassland

Native

- Leymus triticoides*
- Muhlenbergia rigens*
- Polypogon* spp.
- Sporobolus* spp.
- Stipa pulchra*

Non Native

- Agropyron repens*
- Avena barbata*
- Avena fatua*
- Bromus diandrus*
- Bromus rubens*
- Bromus tectorum*
- Cynodon plectostachyus*
- Echinochloa muricata*
- Hordeum leporinum*
- Lolium perenne*

Chaparral

- Adenostoma sparsifolium*
- Arctostaphylos pungens*
- Arctostaphylos* spp.
- Baccharis sarathroides*
- Ceanothus tomentosus*
- Quercus berberidifolia*
- Rhus integrifolia*
- Rhus ovata*
- Rhus trilobata*

Alkali Marsh

- Alkali Marsh
- Distichlis spicata*
- Typha* spp.

Problematic Active Floodplain

Shrub

Native

- Salix* spp.
- Artemisia nova*
- Artemisia tridentata*
- Atriplex californica*
- Atriplex canescens*
- Baccharis pilularis*
- Baccharis salicifolia*
- Bebbia juncea*
- Brickellia californica*
- Chilopsis linearis*
- Encelia farinosa*
- Eriodictyon crassifolium*
- Eriogonum fasciculatum*
- Eriogonum wrightii*
- Gutierrezia sarothrae*
- Isocoma menziesii*
- Juniperus californica*
- Lepidospartum squamatum*
- Salix exigua*
- Salix goodingii*
- Salix laevigata*
- Salix lasiolepis*
- Salix melanopsis*
- Salvia mellifera*
- Sambucus mexicana*
- Senecio flaccidus*

Non Native

- Nicotiana glauca*
- Olea europea*
- Tamarix* spp.

Man Made Structures__Disturbed Sites

Trees/Woodland/Forest

Native

- Alnus rhombifolia*
- Fraxinus dipetala*
- Fraxinus velutina*
- Platanus racemosa*
- Populus balsamifera*
- Populus tremontii*
- Quercus agrifolia*
- Quercus chrysolepis*
- Quercus engelmannii*
- Quercus kelloggii*
- Salix exigua*
- Salix goodingii*
- Salix laevigata*
- Salix lasiolepis*
- Salix* spp.
- Washingtonia filife*

Non Native

- Eucalyptus* spp.
- Schinus molle*

Freshwater Marsh

- Azolla filiculoides*
- Disturbed Wetland
- Eleocharis* spp.
- Juncus effusus*
- Juncus mexicanus*
- Scirpus acutus*
- Scirpus americanus*
- Scirpus microcarpus*
- Typha* spp.

Unvegetated

- Dry Wash Channel
- Lakeshore

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6. AUTHOR(S) Robert W. Lichvar and Michael Ericsson				5d. PROJECT NUMBER	
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14. ABSTRACT The purpose of the map series presented here is to visually present the identified aquatic resources in San Jacinto River and portions of the Santa Margarita River watersheds in western Riverside County, California, as part of the Special Area Management Plan (SAMP). A SAMP is a comprehensive aquatic resource planning effort in the context of Section 404 of the Clean Water Act (CWA). The U.S. Army Corps of Engineers, Los Angeles District is leading the development of the SAMP, and the Riverside County Flood Control District, representing the County of Riverside, is the local stakeholder. These are the spatial results of an overall study undertaken by the SAMP. The size of the study area is 36,1953 ha (894,405 acres). Mapped results of this study were compiled in the field using ArcView 3.2 geographic information system (GIS) and mapped at a scale of 1:4800 using Color Infra-Red Digital Orthoquads (DOQ) imagery. A unique method of combining the occurrence of vegetation communities and fluvial surfaces to determine the probability of being regulated was used to identify aquatic resources that might be considered as regulated under Section 404 of the CWA.					
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