Eastern Washington Stormwater Manual Isopluvial maps

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Figure 4.3.1: Average Annual Precipitation and Climate Regions
Figure 4.3.2: 2-year,2-hour Isopluvial Map
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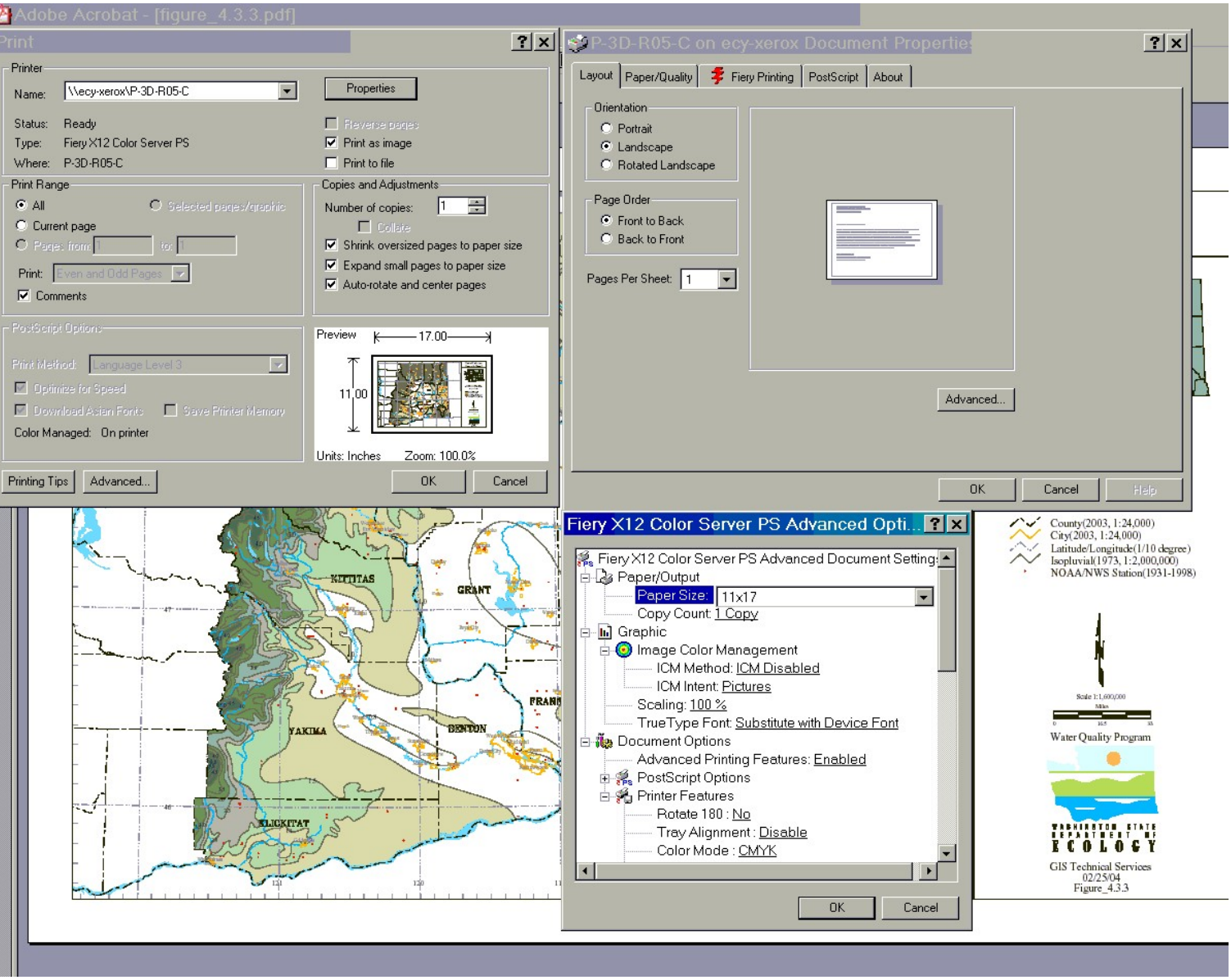
Directions for using Isopluvial maps:
This data set was developed specifically for the Stormwater Management Manual for Eastern Washington (Ecology, 2004). Precipitation values on all maps are shown in 1/10 inch increments along digitized Isopluvial Arcs. It is expected that all stormwater values extracted from these maps or from the data coverage sets will come from the Isopluvial Arcs and the Arc Attribute (.aat) table ONLY. Polygon values in the coverage data sets should not be used for determining stormwater precipitation, runoff or retention. Areas lying within a polygon and not directly on, or sufficiently close to, a value driven arc should be given an interpolated value between the two directly adjacent arcs. For example; if the desired location lies midway between isopluvial arc values 0.8 and 1.0, the interpreted value for the area will be 0.9 (the polygon value for this area may be 0.8 or 1.0, but for the intended use 0.9 is the correct value).

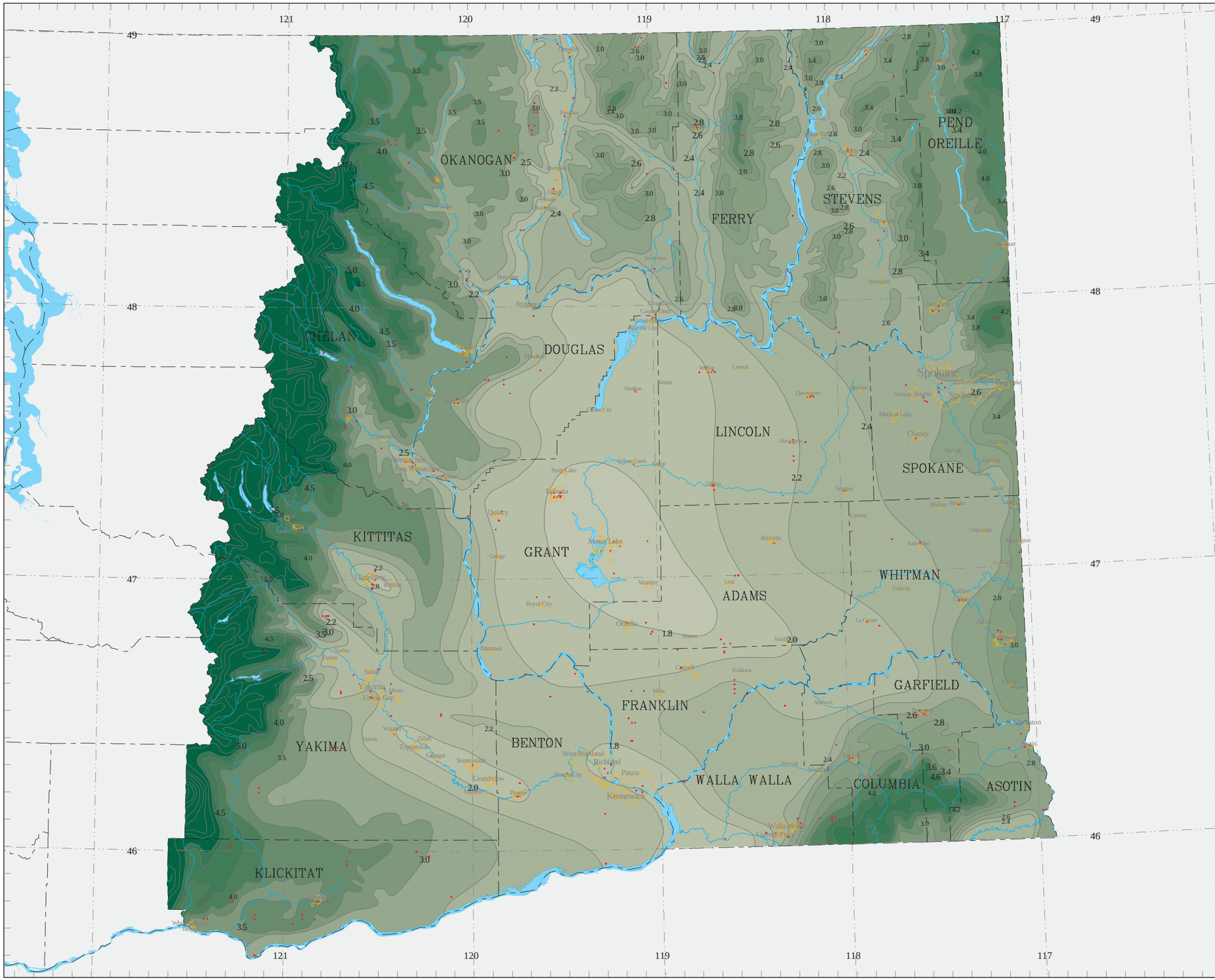
All maps are landscape format and 11x17 page size. See Print screen view and Help dialog on page two of this document for assistance printing these maps.

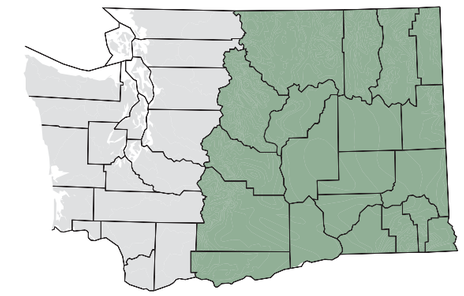
For additional help printing or viewing these maps please contact:
Mike Woodall, GIS-TSG, (360)407-6088 or miwo461@ecy.wa.gov



To print from Acrobat view screen;
click print
click the desired printer from Printer Name box dropdown box
click Properties
from the Properties window;
click Layout
click Landscape
click Advanced
from the Advanced window;
click the Paper Size dropdown arrow and choose 11x17
click Ok in the Advanced window
click Ok in the Properties window
the map should now show in full page size in the preview panel click Ok in the Print window to print

Eastern Washington Stormwater Manual





100-Year 24-Hour Isopluvials

Source: NOAA Atlas 2, Volume IX, 1973

Precipitation in inches

- County(2003, 1:24,000)
- City(2003, 1:24,000)
- Latitude/Longitude(1/10 degree)
- Isopluvial(1973, 1:2,000,000)
- NOAA/NWS Station(1931-1998)

N

Scale 1:1,600,000

Miles

0 16.5 33

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Figure_4.3.7

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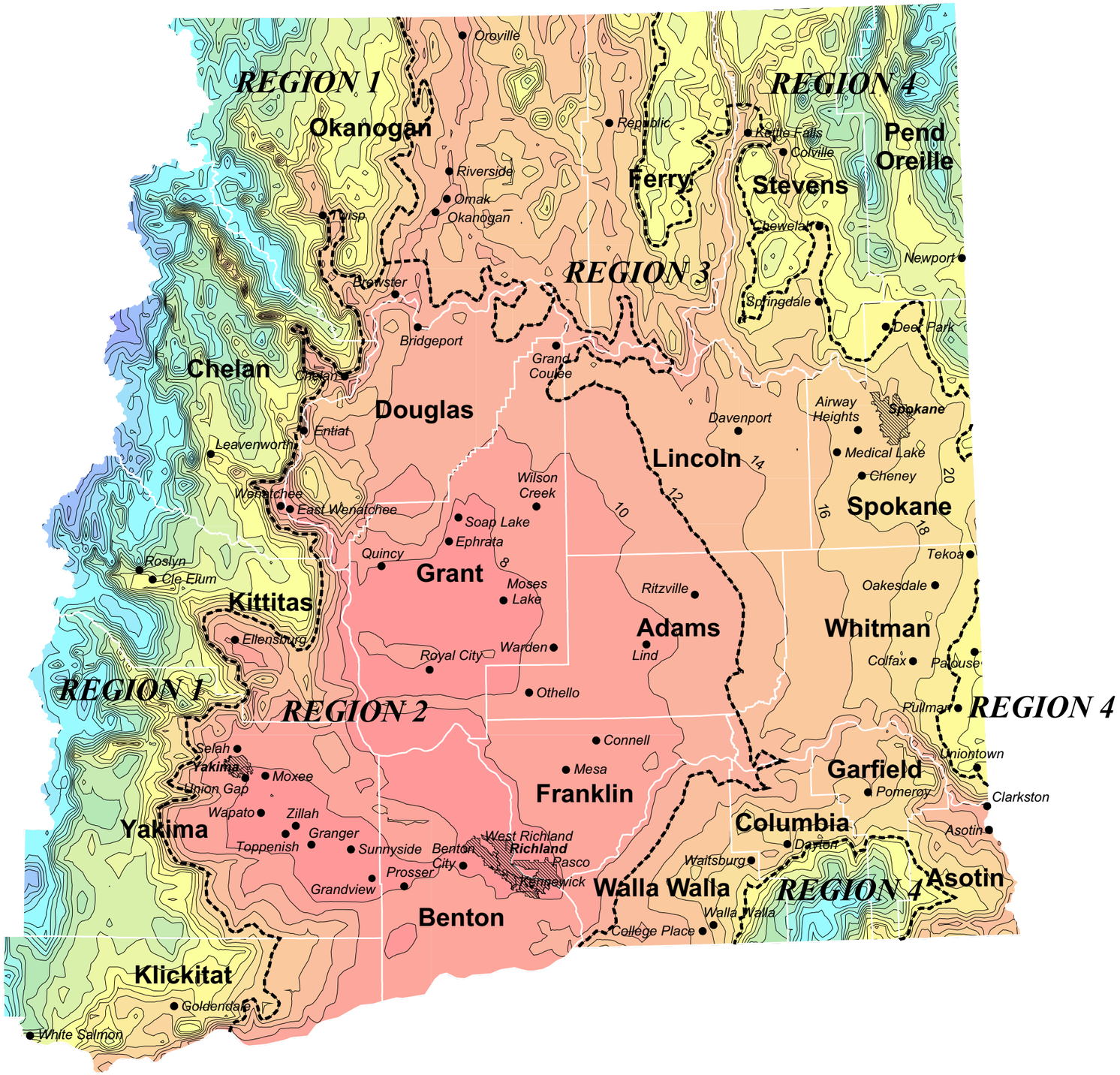
Average Annual Precipitation 1961-1990 With Climate Regions



REGION 1: *East Slope Cascades*

REGION 2: *Central Basin*

REGION 3: *Okanogan, Spokane, Palouse*

REGION 4: *NE & Blue Mountains*

Inches Per Year

- 6-8
- 8-10
- 10-12
- 12-14
- 14-16
- 16-18
- 18-20
- 20-22
- 22-24
- 24-28
- 28-32
- 32-36
- 36-40
- 40-44
- 44-48
- 48-52
- 52-56
- 56-60
- 60-70
- 70-80
- 80-90
- 90-100
- 100-120
- 120-140
- 140-160
- 160-180
- 180-200

SOURCE: *Oregon Climate Service, U.S. Department of Agriculture, Natural Resources Conservation Service*

N W E S

Scale 1:1,600,000

0 10 20 30 40 50

Statute Miles

Map projection: State Plane Washington South, NAD 27

Created on March 28, 2002

Stormwater Management FOR EASTERN WASHINGTON

Figure 4.3.1

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2-Year 2-Hour Isopluvial Map

Isopluvials of 2-Year 2-Hour

Precipitation in Tenths of an Inch

SOURCE: *Dam Safety Guidelines, Technical Note 3, Design Storm Construction, Washington State Department' of Ecology, Water Resources Program, report 92-55G April 1993.*

Map projection: State Plane Washington South, NAD 27

Created on April 23, 2002

Stormwater Management FOR EASTERN WASHINGTON

Figure 4.3.2

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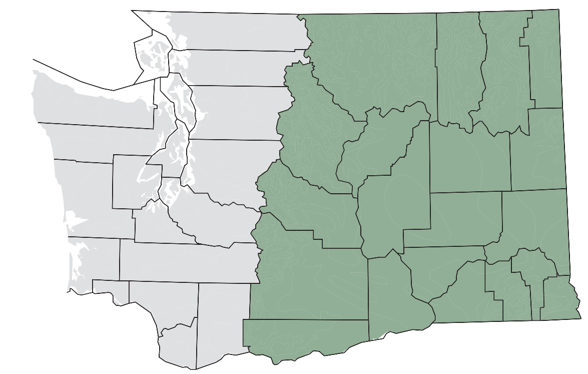

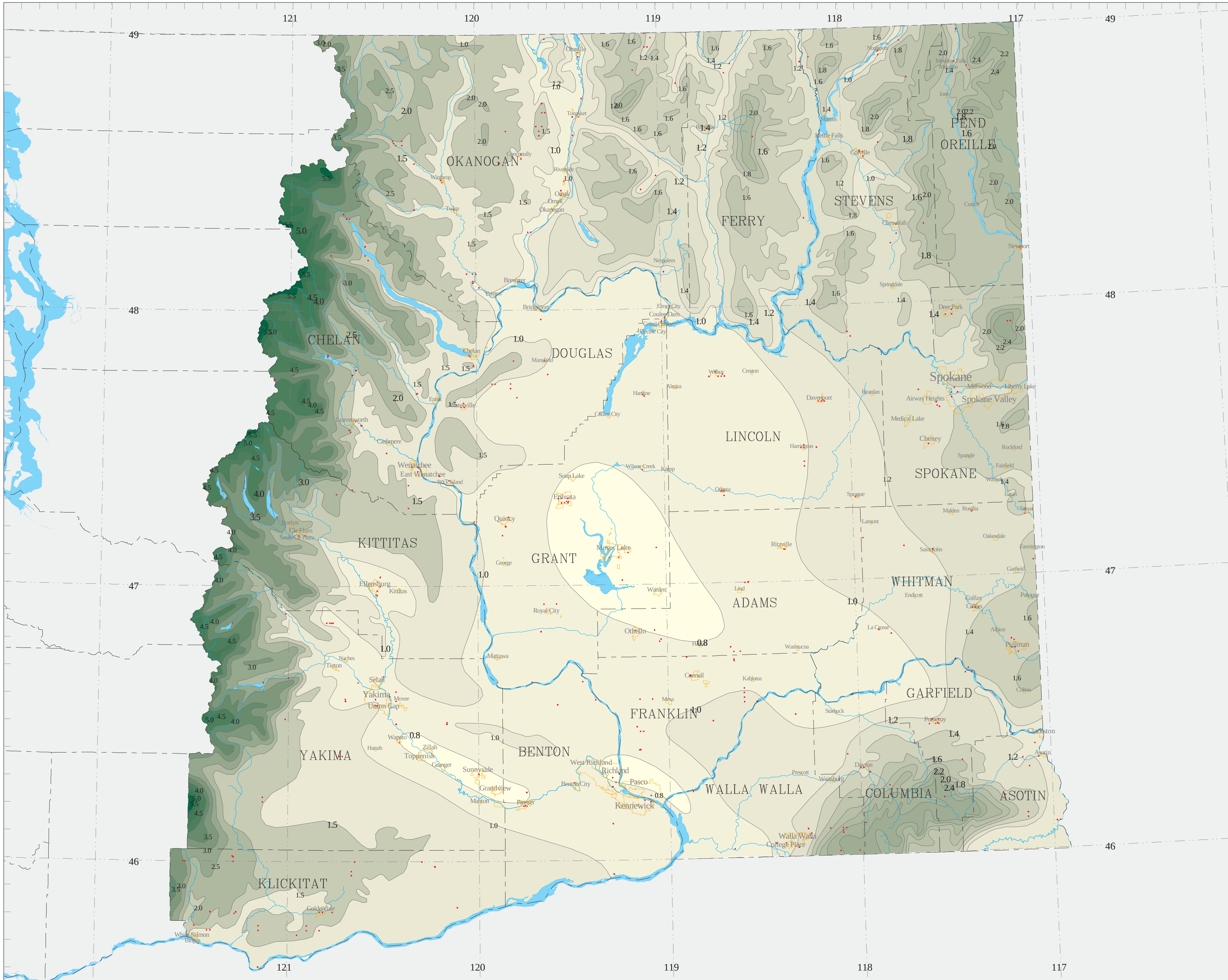

2-Year 24-Hour Isopluvials

Source: NOAA Atlas 2, Volume IX, 1973

Precipitation in inches

County(2003, 1:24,000)
City(2003, 1:24,000)
Latitude/Longitude(1/10 degree)
Isopluvial(1973, 1:2,000,000)
NOAA/NWS Station(1931-1998)

Scale 1:1,600,000

Miles

0 16.5 33

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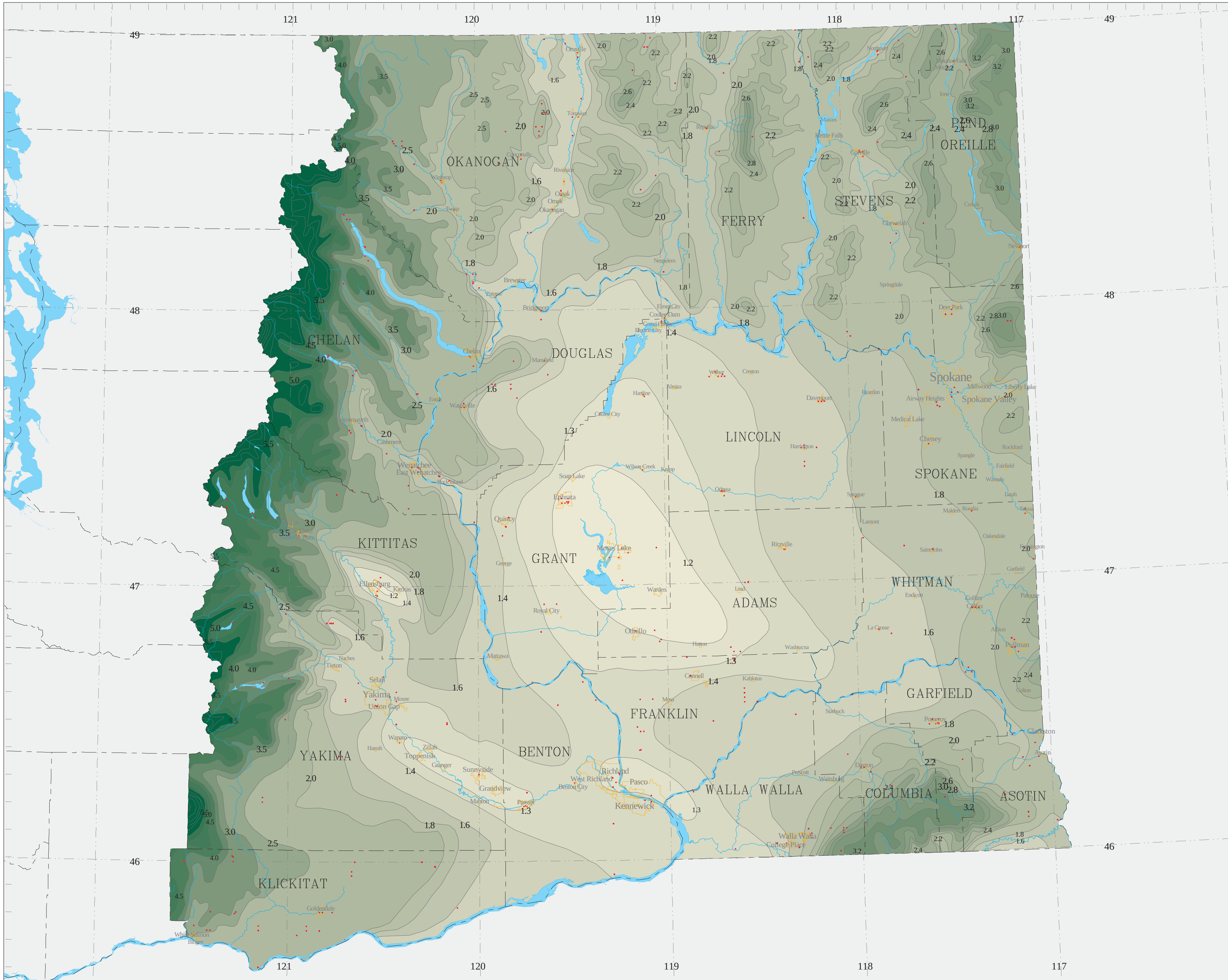

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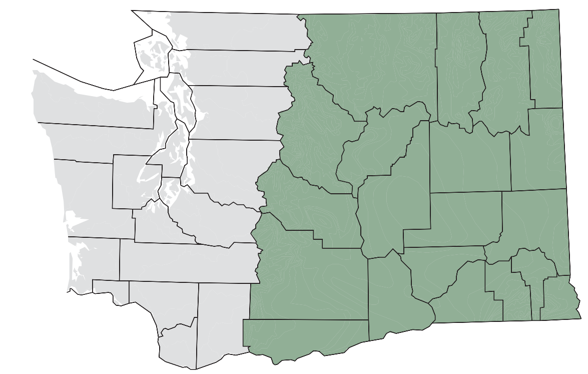

10-Year 24-Hour Isopluvials

Source: NOAA Atlas 2, Volume IX, 1973

Precipitation in inches

County(2003, 1:24,000)
City(2003, 1:24,000)
Latitude/Longitude(1/10 degree)
Isopluvial(1973, 1:2,000,000)
NOAA/NWS Station(1931-1998)

Scale 1:1,600,000

Miles

0 16.5 33

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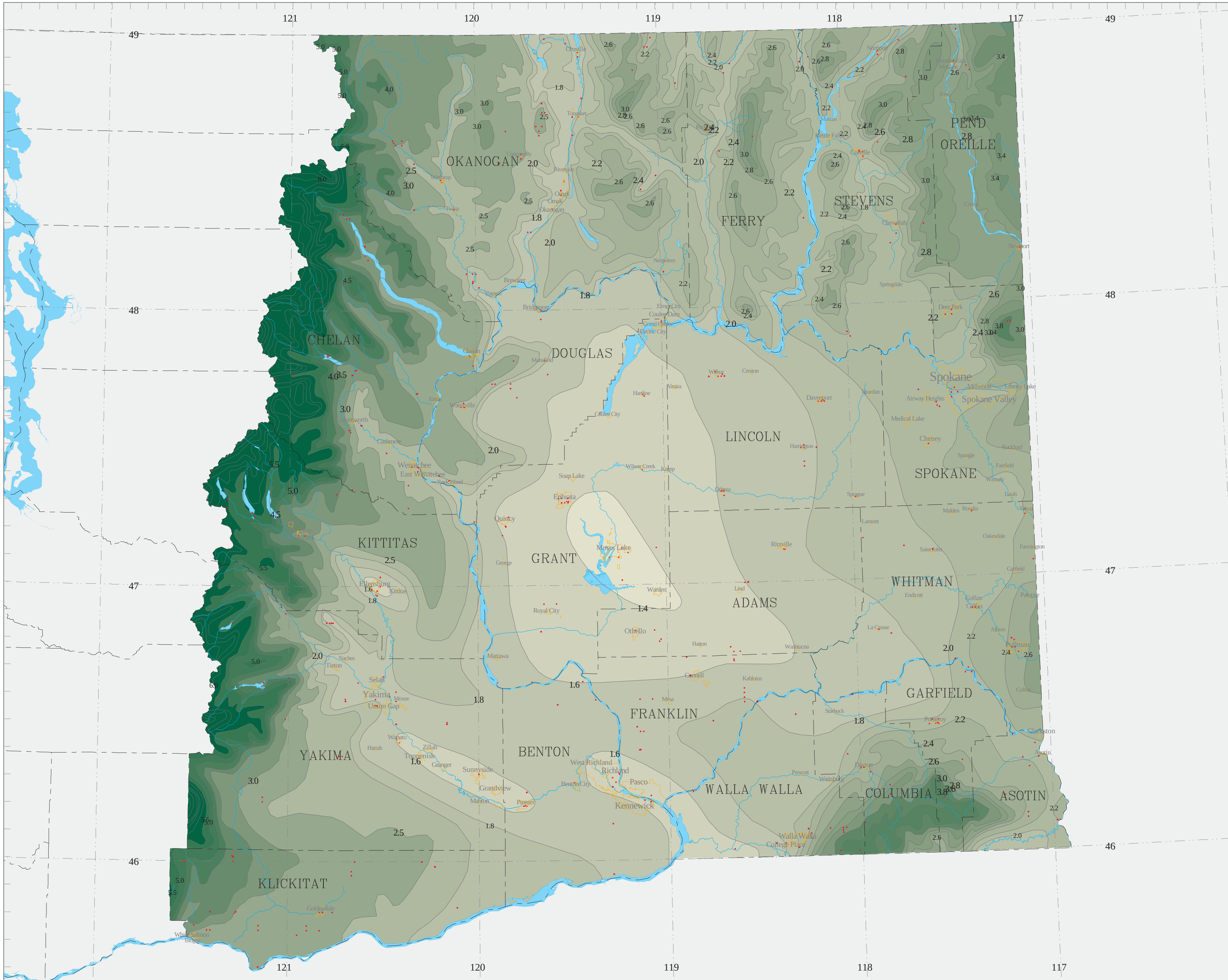
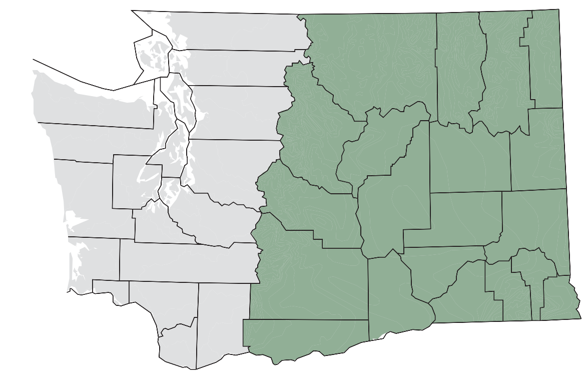


25-Year 24-Hour Isopluvials

Source: NOAA Atlas 2, Volume IX, 1973

Precipitation in inches



- County(2003, 1:24,000)
- City(2003, 1:24,000)
- Latitude/Longitude(1/10 degree)
- Isopluvial(1973, 1:2,000,000)
- NOAA/NWS Station(1931-1998)

Scale 1:1,600,000

Miles

0 16.5 33

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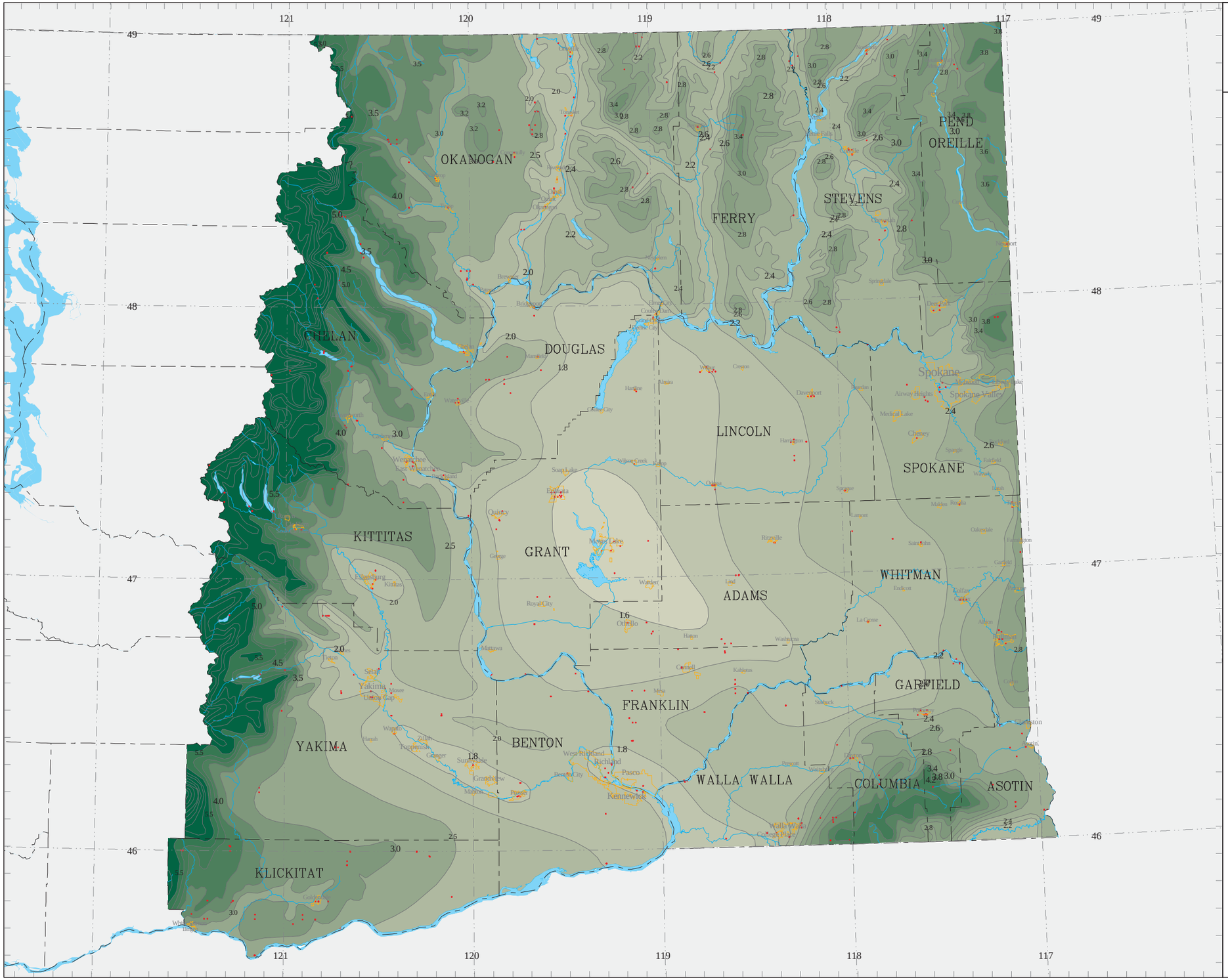

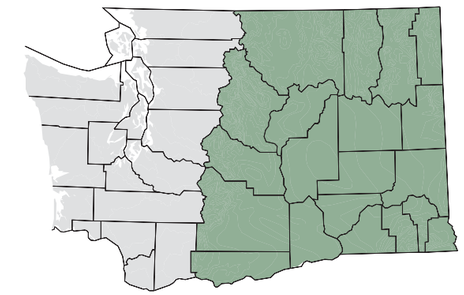

50-Year 24-Hour Isopluvials

Source: NOAA Atlas 2, Volume IX, 1973

Precipitation in inches

- County(2003, 1:24,000)
- City(2003, 1:24,000)
- Latitude/Longitude(1/10 degree)
- Isopluvial(1973, 1:2,000,000)
- NOAA/NWS Station(1931-1998)

N

Scale 1:1,600,000

Miles

0 16.5 33

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Figure_4.3.6