

They Come and They Go and They
Come Again:
Trees on the Great Plains





Mural - Museo Nacional de Antropología, MX



Probable Variety of Migration Routes 10,000 years or More Ago











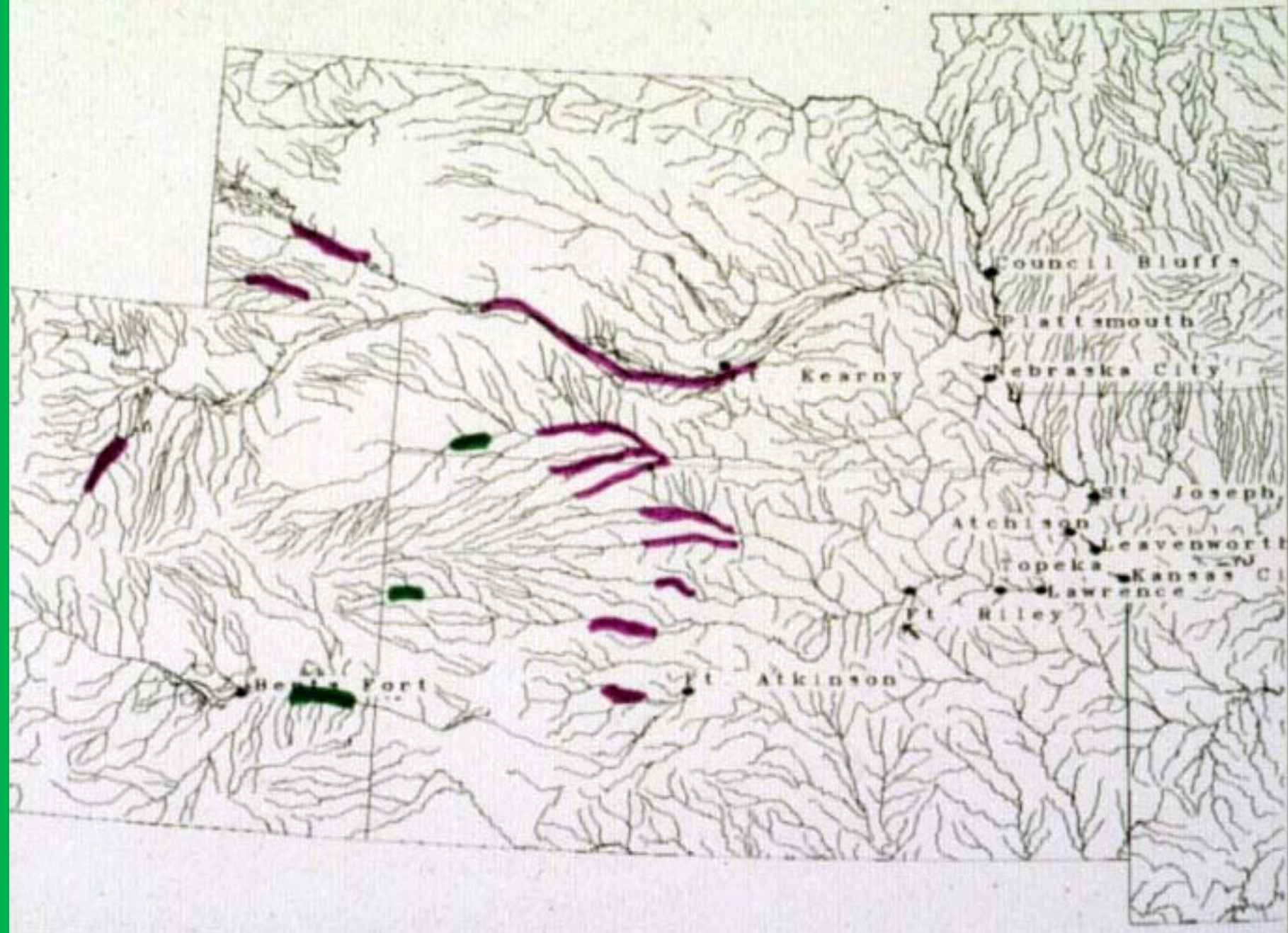




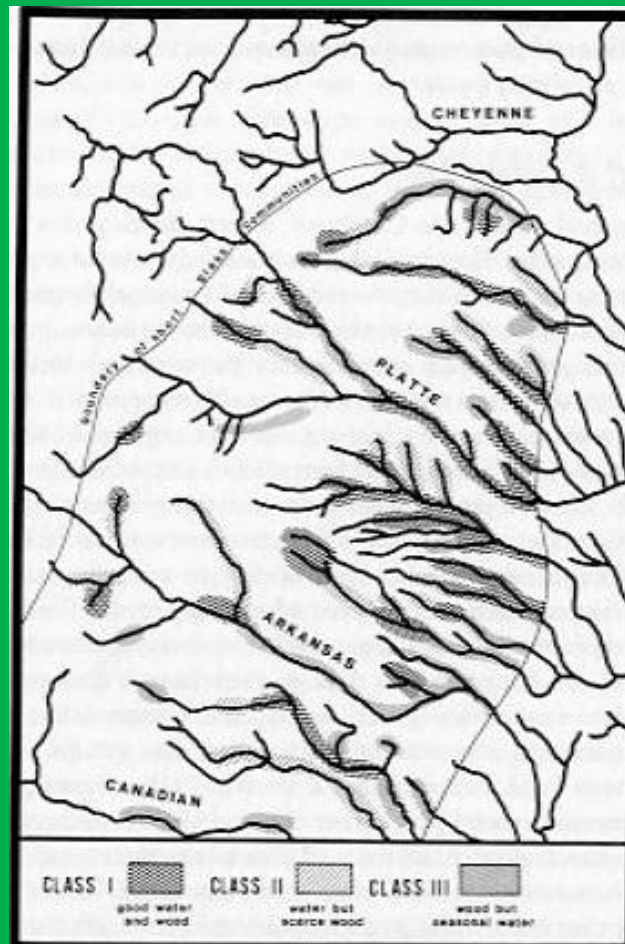


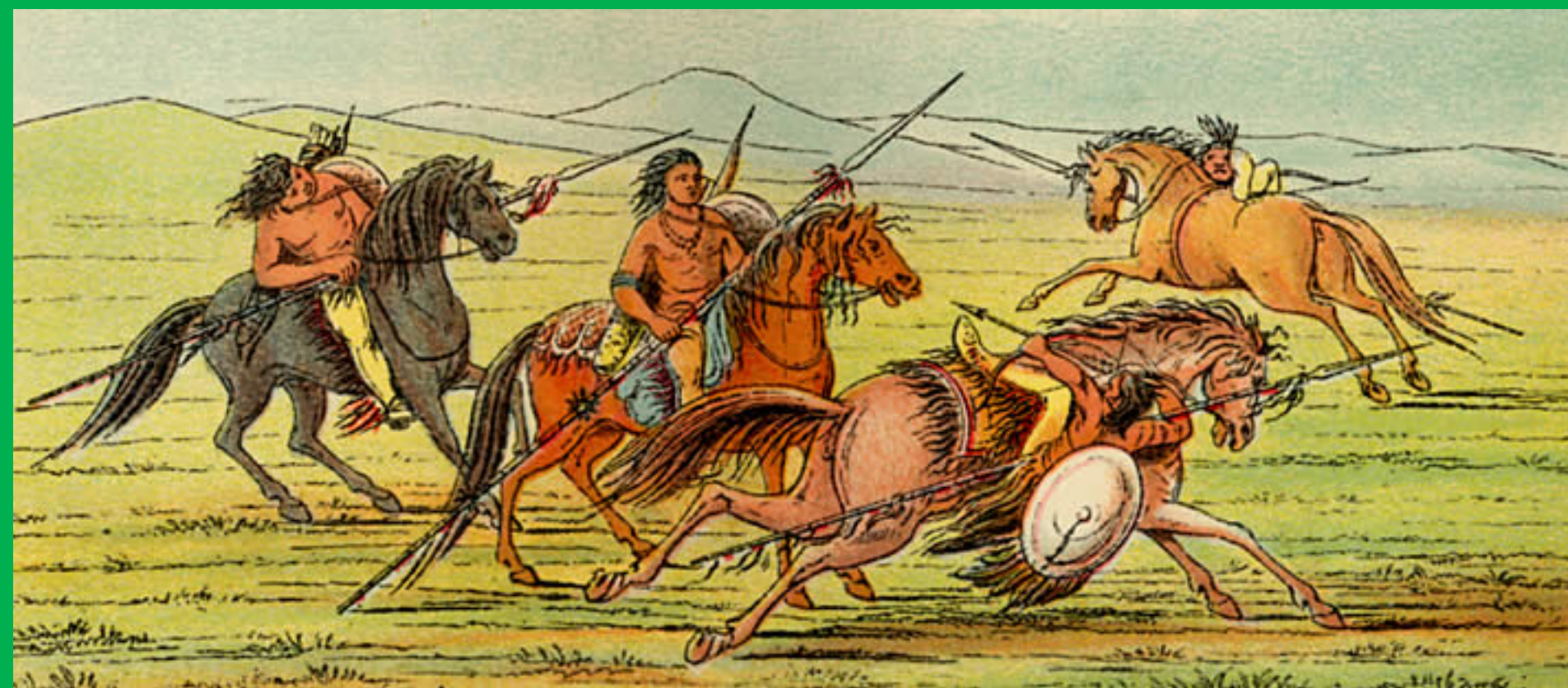
Riparian Woodlands





Wood and Water Overlapping

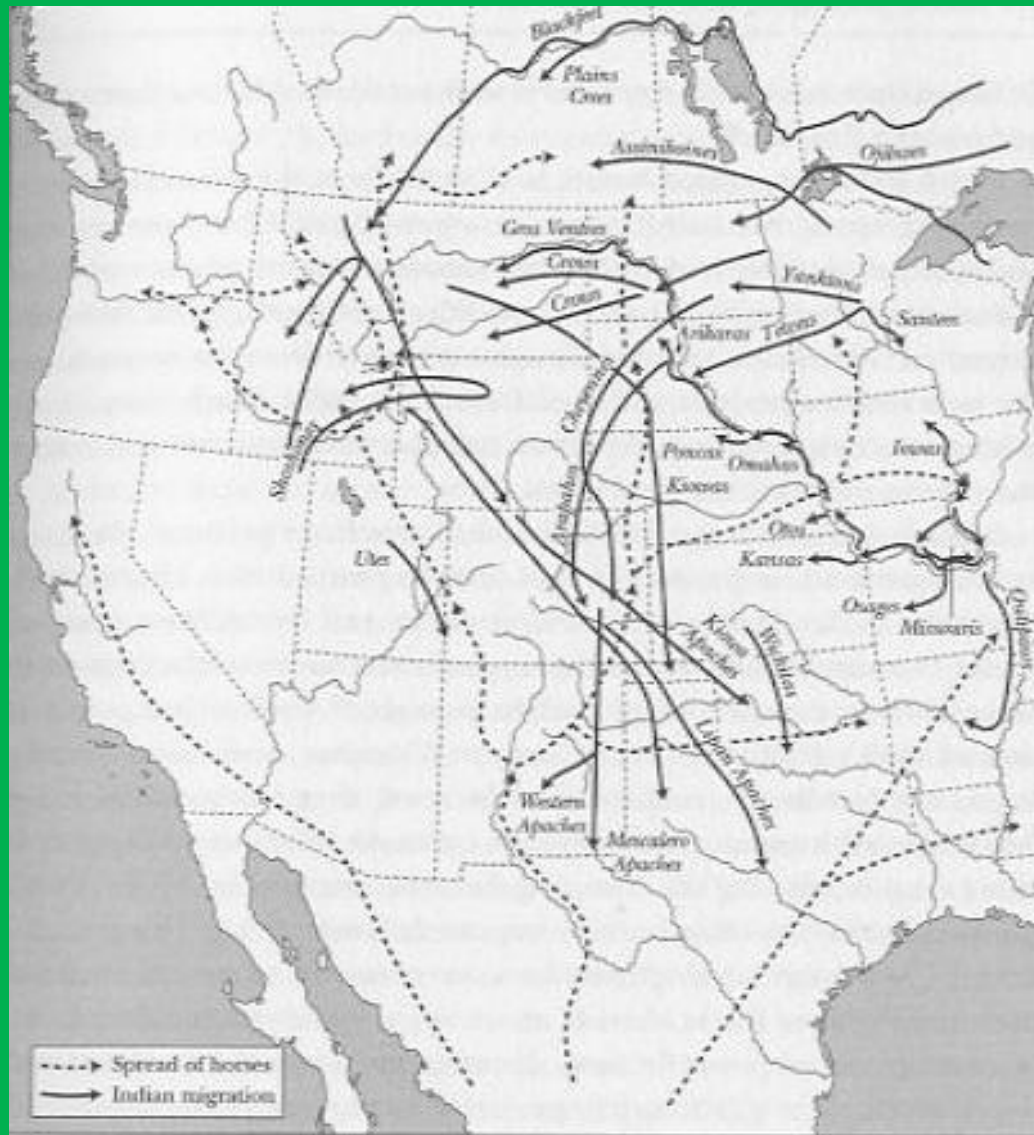






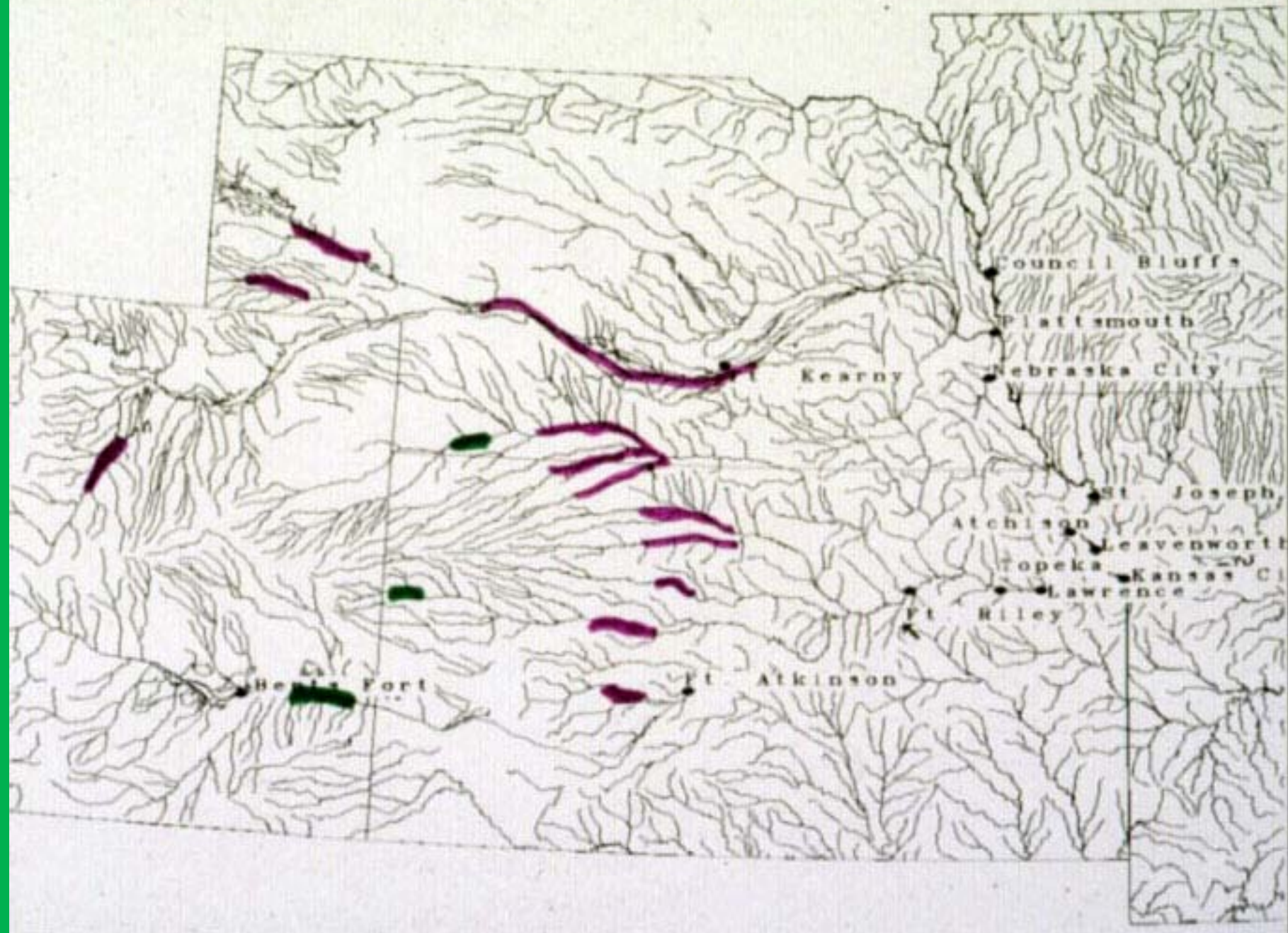


Migrations: Horses and People







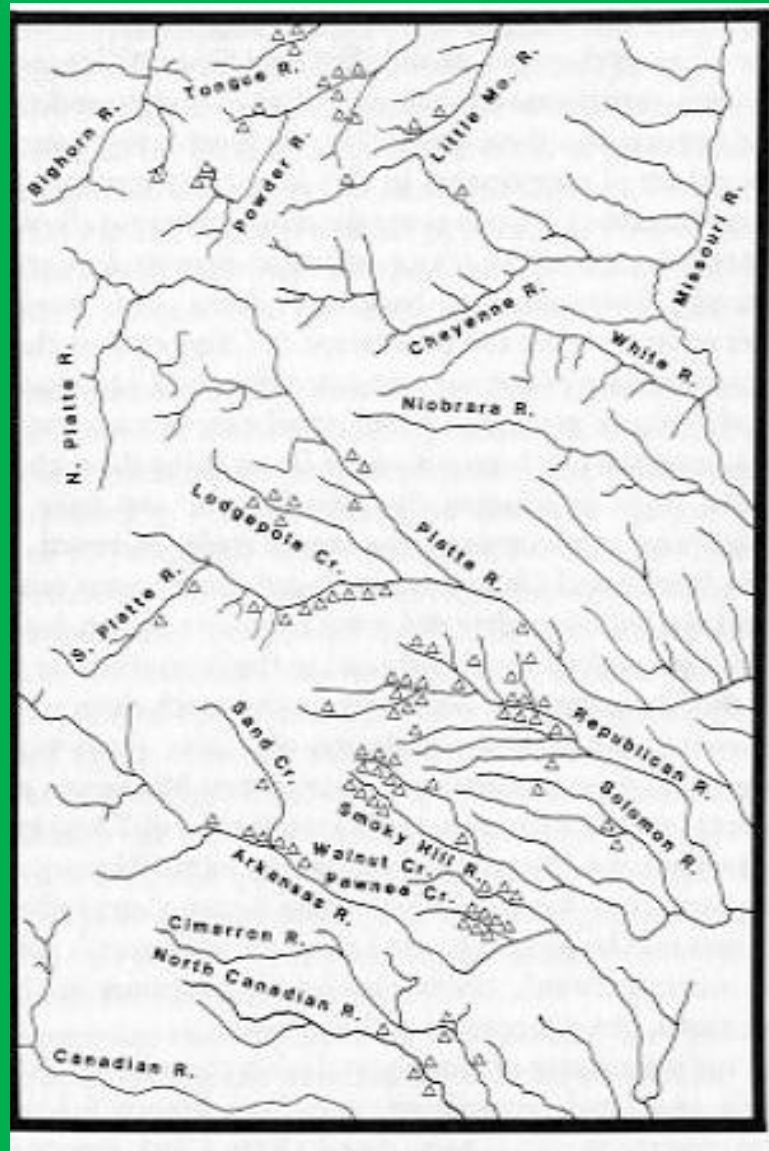




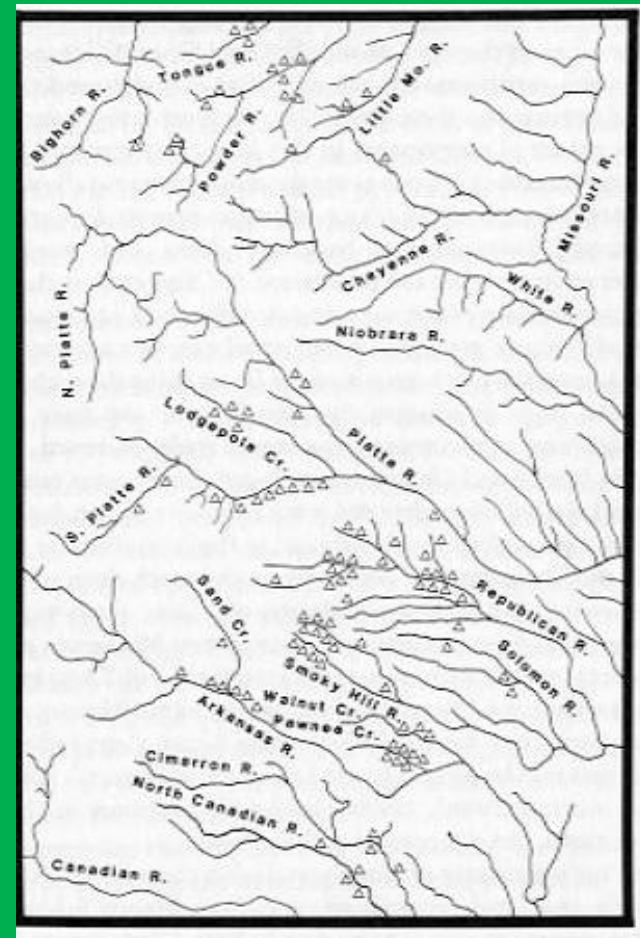
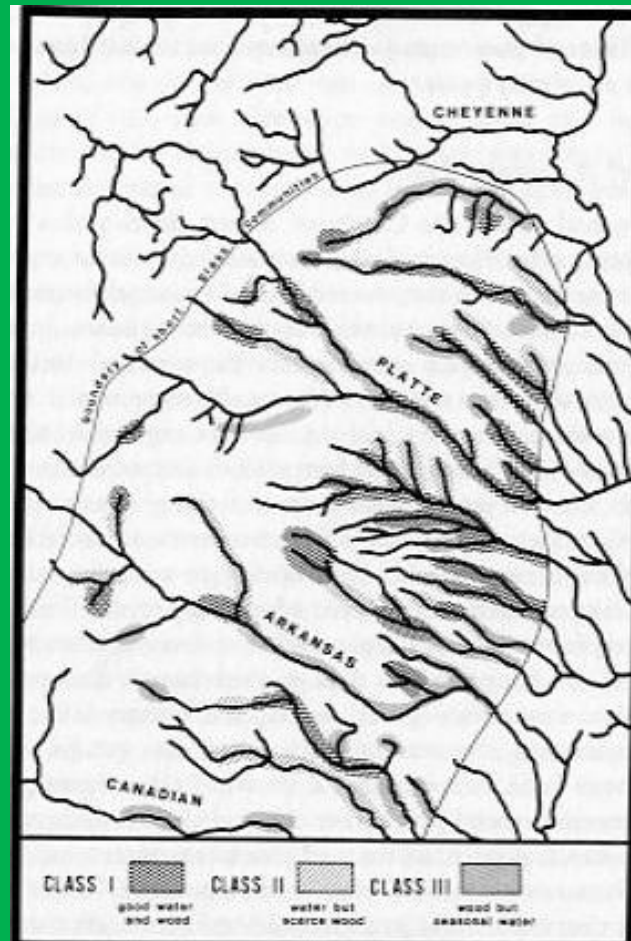




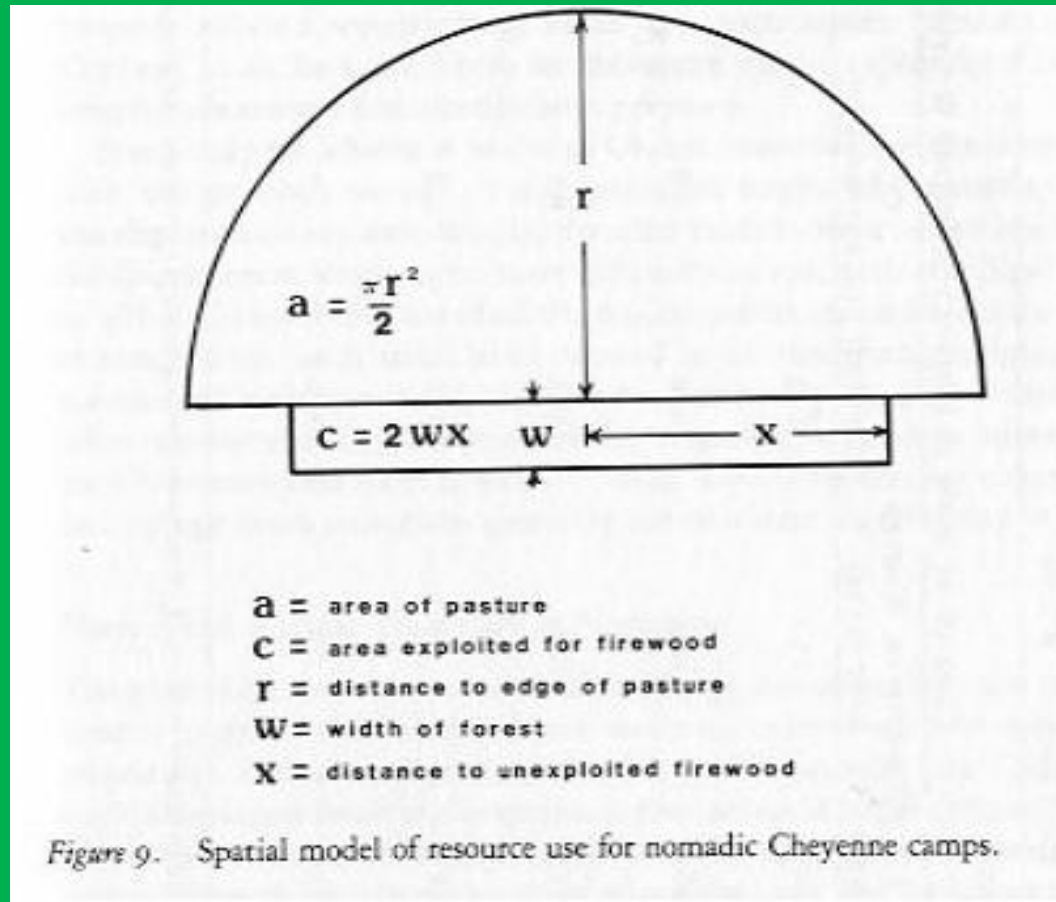
Cheyenne Winter Camps



Wood & Water/Winter Camps



Calculation of Firewood Use



Firewood Used in Winter Camps

- Distance along stream for available wood x width of band of timber = size of area of gathering (in sq. m.)
- Divided by 10,000 = number of hectares
- Multiplied by 15 (number of cords gathered per hectare)
- Multiplied by 128 = cubic feet of firewood gathered

Firewood Gathered: Big Timbers

Big Timbers of Arkansas

300 m. x 500 m = 150,000
sq. m.

150,000 / 10,000 = 15 hectares

15 hectares x 15 cords = 225
cords

225 cords x 128 cu. ft. = 28,000
cu. ft. of firewood gathered

Big Timbers of Smoky Hill

1,166 m. x 150 m. = 174,900
sq. m.

174,900 / 10,000 = 17.49
hectares

17.49 hectares x 15 cords =
262.35 cords

262.35 x 128 cu. ft. = 33,580
cu. ft. of firewood gathered



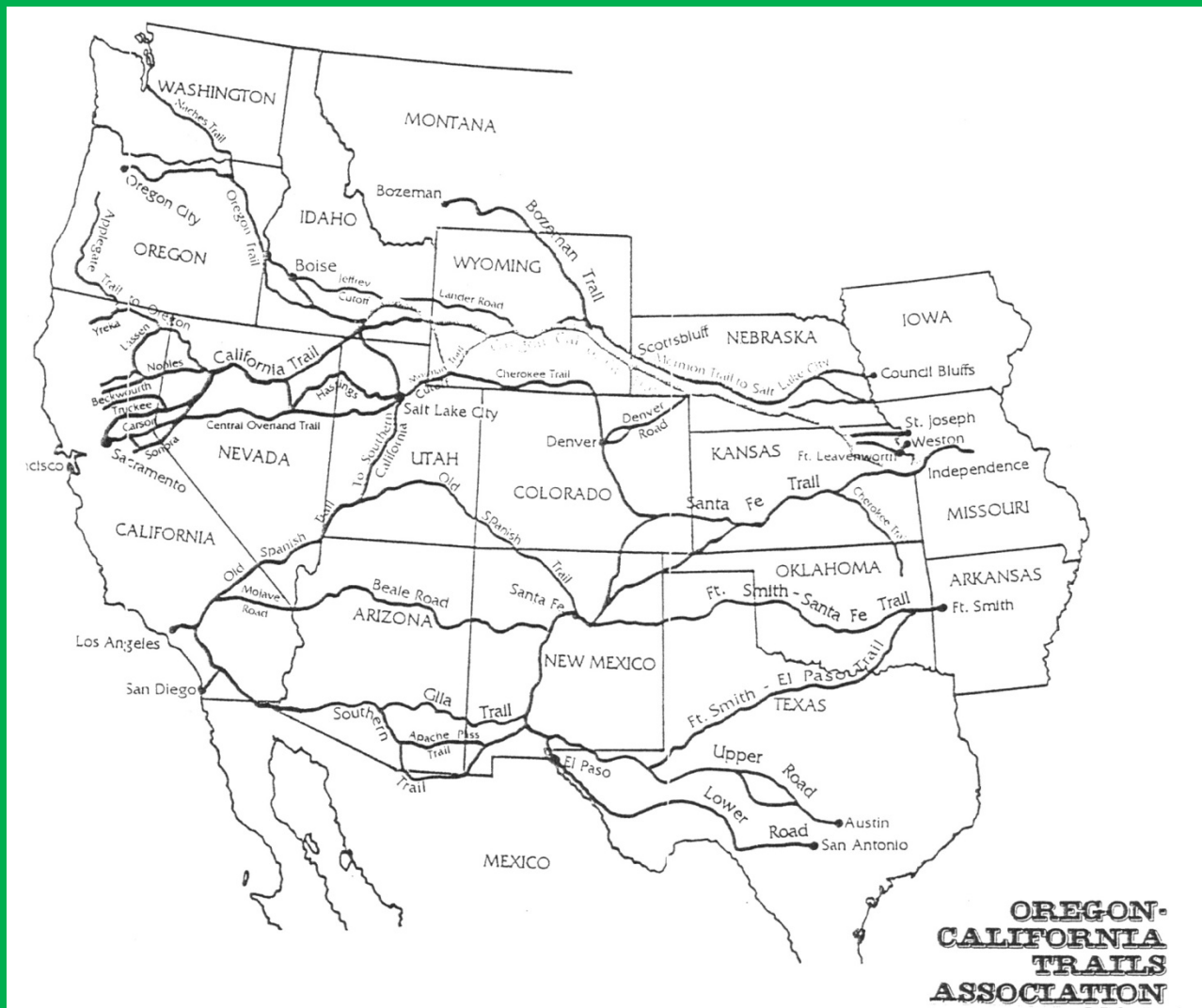
4,054 cu. ft.

53 ft. long x 8.5 ft. wide x 9 ft. high





Overland Trails



Overland Migration

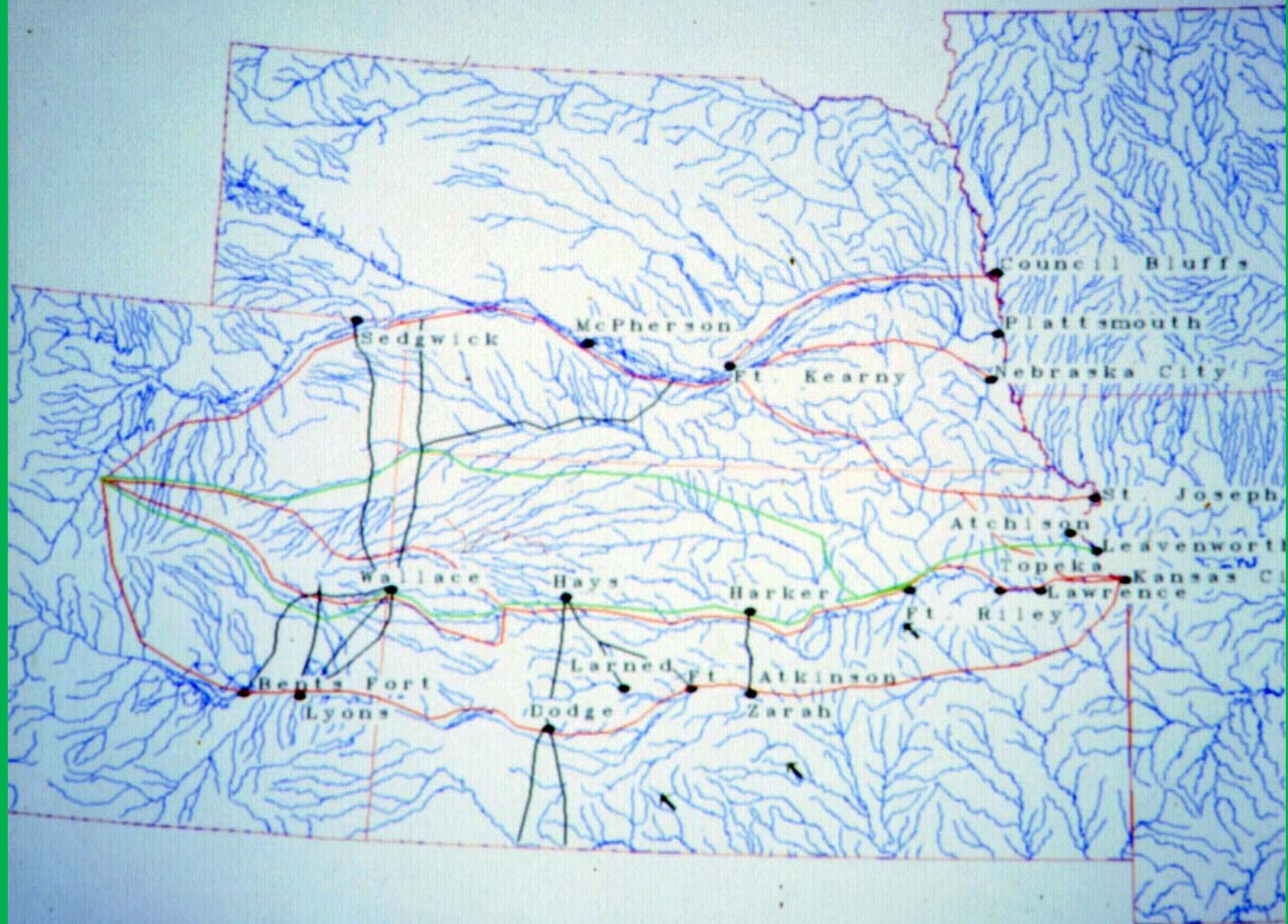
- To Pacific Coast, 1840-48: 14,247
- To Utah, 1840-48: 4,600
- Total, 1840-48: 18,847
- To Pacific Coast, 1849-60: 239,150
- To Utah, 1849-60: 38,262
- Total, 1849-60: 277,412
- *Grand Total, 1840-60: 296,259*



Overland Trails/Woodlands







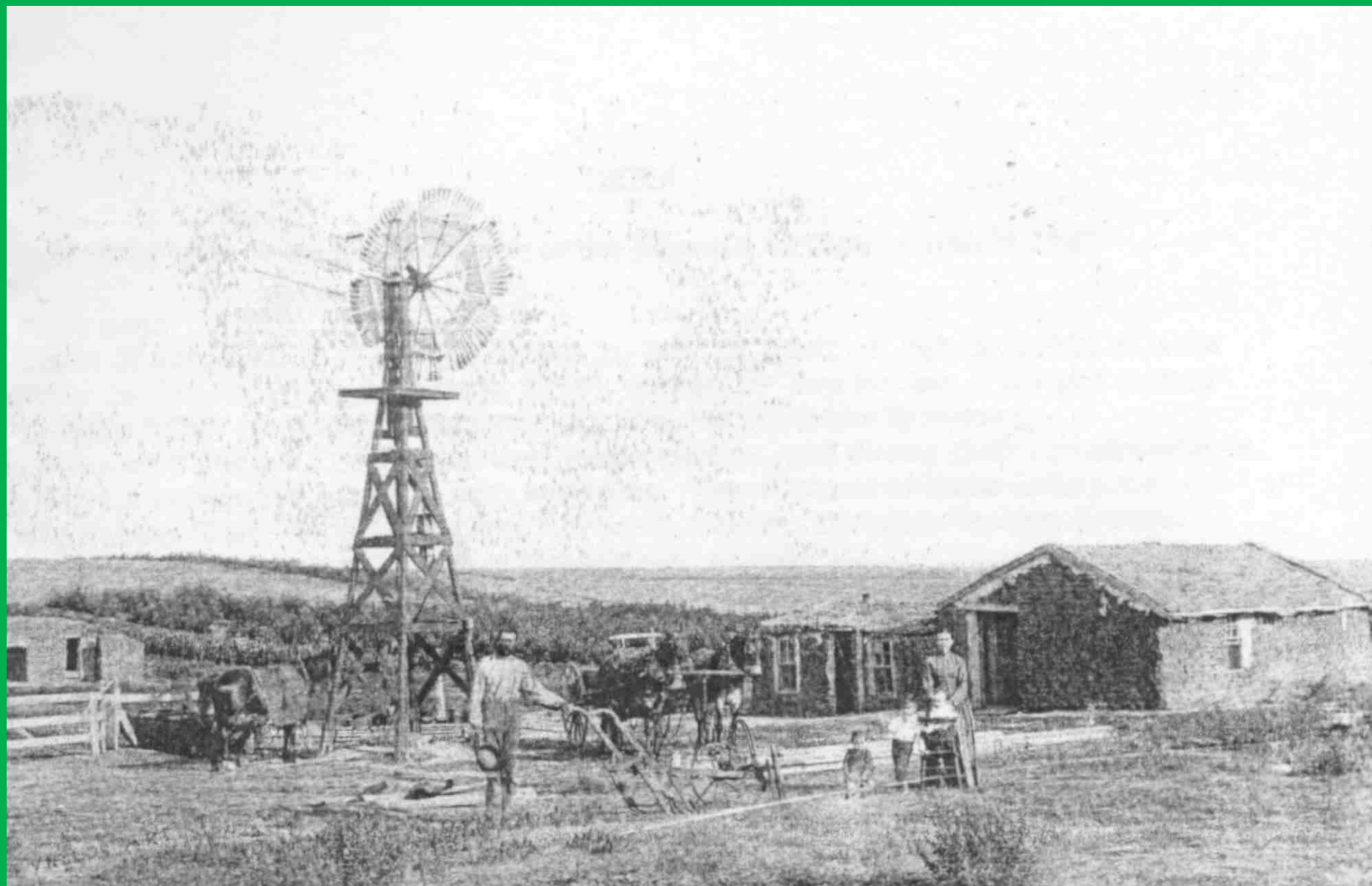


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Population: Kansas Counties

	1870	1875	1880
• Smith	66	3,876	13,883
• Osborne	33	3,467	12,517
• Barton	2	99	10,318
• TOTAL	101	7,442	36,718







Timber Culture Act, 1873

11-2281

Timber Culture Certificate No. 527
 SECTION 4th

THE UNITED STATES OF AMERICA,

Be all to whom these presents shall come, Greeting:

Whereas there has been awarded to the **SHERMAN LAND OFFICE** of the United States a Certificate of the Bureau of the Land Office
 of Denver Colorado _____, whereby it appears that, pursuant to the Act of Congress approved March 3, 1873
 (Act, 18, 1873, and Act 14, 1875, "To encourage the Growth of Timber on the Western Prairies," the case of Charles A. White
White _____ has been submitted and duly considered, in accordance to law, for the
Small tract quarter of Section 36 in Township 34 North of Range 5 East of the 4th Principal Meridian in Colorado, containing 320 acres of land
there _____

according to the Census Plan of the Bureau of the said Land Office to the **SHERMAN LAND OFFICE** of the Bureau of the _____

Now Know YE, That there is hereby granted by the United States unto the Charles A. White _____
 _____ the tract of land above described: To HAVE AND TO HOLD the said tract of land, unto the aforementioned
 named unto the said Charles A. White _____ and to his
 heirs and assigns forever, subject to any valid and lawful water rights for mining, agricultural, stockraising, or other purposes, well right to those not otherwise said to
 accordance with such water rights, as may be required and acknowledged by the local residents, laws, and customs of such, and also subject to the right of the proprietor of a
 mine or lode to mine and remove the ore therefrom, except the same be found to be situated on land granted by the United States, or granted by the State, Territory,
 _____, or the same may present a right of way, right of easement, or interest, controlled by the State of Colorado _____

In testimony whereof Benjamin Harrison _____ President of the United States of America,
 have caused these letters to be signed in my name, and the seal of the Bureau, hereunto is by the Bureau, at _____

Witness under my hand and the Great Seal of the United States, this fourth day of May _____ at the city of _____

right hereunto and signed: Benjamin Harrison _____ and of his Adjutant-General of the United States has not been read out for the _____

By the John Benjamin Harrison _____ Secretary
to the Bureau _____

 Recording of the original land title
and witnesses

RECORDED in _____ Page 453



Photo courtesy of Aaron Plunk Green



Dodge City, 1876



Arbor Day



Nebraska National Forest





1059
D1467

