

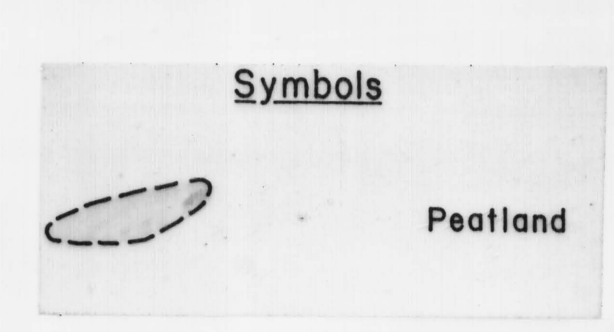


Prepared by:
 Alaska Department of Natural Resources
 Division of Geological and Geophysical Surveys
 3001 Porcupine Drive, Anchorage, Alaska 99501
 P.O. Box 80007, College, Alaska 99708
 and
 Northern Technical Services
 750 West 2nd Avenue, Anchorage, Alaska 99501
 Under Contract to:
 Alaska Department of Commerce and Economic Development
 Division of Energy and Power Development
 Mr. Donald R. Markle, Energy Projects Manager
 338 Denali Street, Anchorage, Alaska 99501
 Prepared for:
 U.S. Department of Energy
 Division of Fossil Energy
 Grant No. DE-FG18-81FC05112

In this report, total tons and total Btu values are for moisture- and ash-free peat. U.S. Department of Energy fuel-grade-peat criteria include a minimum of 8,300 Btu/lb (dry) and a maximum of 25 percent ash. However, 8,300 Btu/lb corresponds to an ash content of about 17 percent, which is considered critical for fuel-grade peat. Twenty-seven percent of all samples (n=511) analyzed for ash has less than 25 percent ash and 11 percent has less than 17 percent ash. Thus, values for total tons and total Btu's of *in-situ* fuel-grade peat are approximately 11 percent of those values shown, or 774×10^3 and 1.5×10^{13} , respectively; total quads is 0.015.
 If peat processing reduces the ash content by 50 percent, the maximum allowable *in-situ* ash content is 34 percent. Forty-three percent of all samples analyzed for ash has less than 34 percent ash; 43 percent of the total tons and total Btu's is $2,908 \times 10^3$ and 5.7×10^{13} , respectively; total quads is 0.057.

This report was prepared as an account of work sponsored by the United States Government. Neither the United States nor the United States Department of Energy, nor any of their employees, nor any of their contractors, subcontractors, or their employees, make any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness or usefulness of any apparatus, product, or process disclosed or represents that its use would not infringe privately-owned rights.

EXPLANATION

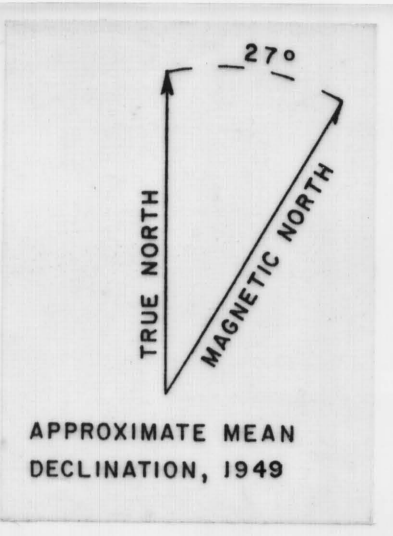
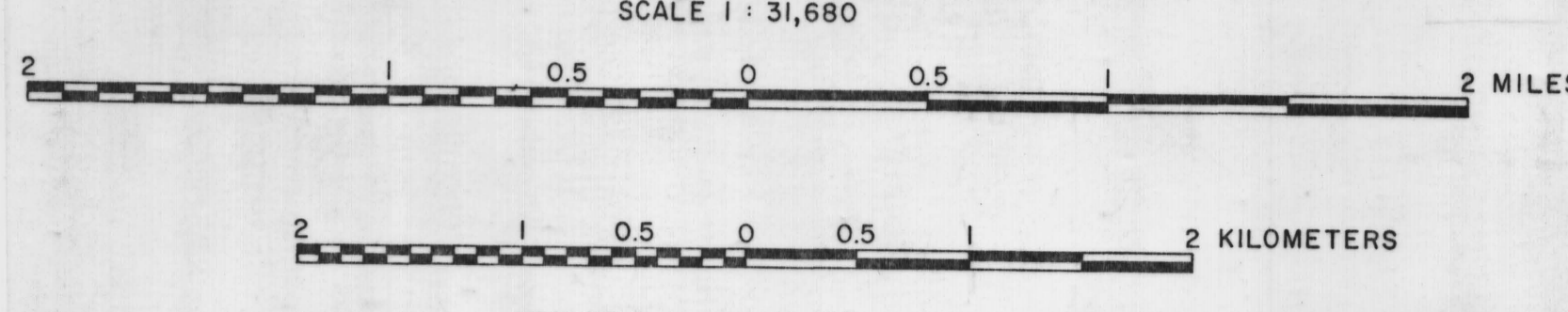
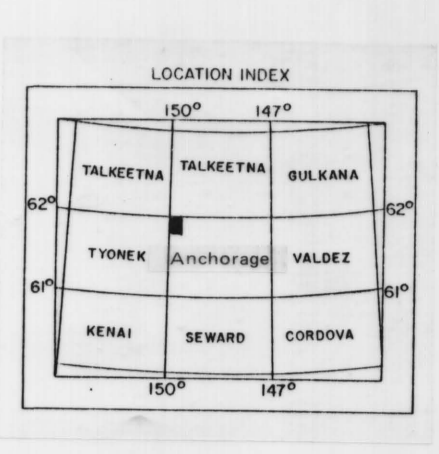


- Estimated Peat Resources**
- Bases**
- 7 lb. peat/ft.³, moisture and ash free (MAF)
 - 9,732 BTU/lb., mean moisture and ash free BTU determined from analyzed cores of this study
 - 6.1 ft. mean peat depth determined from cores on Alaska Open-File Reports 150I-M

	R4W		R3W	
	Acres	Tons X10 ³	Acres	Tons X10 ³
T22N	547	508.7	109	101.4
T21N	3,230	3,003.9	430	399.9
T20N	2,413	2,244.1	543	505.0
T19N				

Total Acres Peat 7,272
 Total Tons Peat, MAF 6,762 X10³
 Total Quads*, MAF 0.132
 *1 Quad = 10¹⁵ BTU

Base from U.S. Geological Survey Anchorage D-8 Quadrangle, Alaska, 1949
 Based on aerial photograph interpretation (NASA U-2, 1979, lines 101 and 102), September 1981 through November 1981.



**PEAT RESOURCE MAP,
 WESTERN ANCHORAGE D-8 QUADRANGLE, ALASKA**

by
 Rawlinson, S.E.¹, Huck, R.W.², and Hardy, S.B.¹

1982

¹ Alaska Division of Geological and Geophysical Surveys ² Northern Technical Services, Anchorage, Alaska

This is a preliminary publication of the Alaska Division of Geological and Geophysical Surveys and as such has not received final editing and review. The author will appreciate candid comments on the accuracy of the data, and welcome suggestions that will improve the report.