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A preliminary study of peat resources in eastern Maine

By Cornelia C. Cameron



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U.S. GEOLOGICAL SURVEY
(WASHINGTON, D. C.)
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For release NOVEMBER 27, 1972

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1. Accelerations near faults that have moved during moderate-sized earthquakes, by David M. Boore and Robert A. Page. 12 p., 1 fig. 504 Custom House, San Francisco, Calif. 94111; 7638 Federal Bldg., Los Angeles, Calif. 90012.

2. Seismicity map of Greater San Francisco Bay Area, California (1969-1971) by the U. S. Geological Survey.

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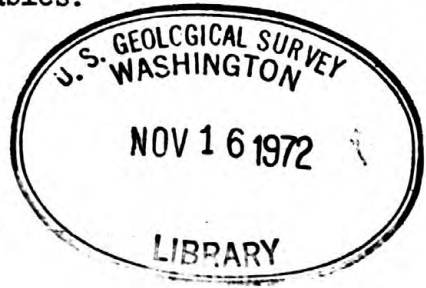
3. Complete Bouguer gravity anomaly map of parts of Beaver, Iron and Millard Counties, southwestern Utah, by Donald L. Peterson. 1 sheet, scale 1:250,000. 8102 Federal Office Bldg., Salt Lake City, Utah 84111; 101 Federal Bldg., Denver, Colo. 80202; Utah Geological and Mineralogical Survey, 03 Geological Survey Bldg., University of Utah, Salt Lake City, Utah 84142. Material from which copy can be made at private expense is available at Utah Geological and Mineralogical Survey.

* * *

The following report is also placed in open file, and is available for inspection at the U.S. Geological Survey Library, 1033 GSA Bldg., Washington, D.C. 20242; and at the Maine Geological Survey, State Office Bldg., Augusta, Maine 04330:

(4) A preliminary study of peat resources in eastern Maine, by Cornelius M. Leron. 25 p., including 2 text figs. and 7 tables.

* * *



A preliminary study of peat resources in eastern Maine

Cornelia C. Cameron

Nineteen peat deposits in southeastern Aroostook County (fig. 1) contain an estimated 4,987,000 tons of peat. The location, size and quality data for each deposit are given in tables 1, 2 and 3. Thirty-eight deposits in Washington County (fig. 2) contain an estimated 20,041,000 tons of peat. The location, size and quality data for each deposit are given in tables 4, 5 and 6. Twenty additional deposits containing estimated 3,802,000 tons in Washington County (fig. 2) were not sampled in detail but are described in tables 7 and 8. In addition to the deposits studied, it is estimated that there are at least as many more deposits of similar size and quality in the area studied.

Data in this study were obtained by conducting pace and compass traverses across swamps, marshes and heaths. Auger holes were put down by hand using a Davis sampler and Macaulay peat borer along the traverses to collect samples of the peat and to determine the thickness and stratigraphy of the deposits and the configuration of the depression in which they lie. The amount of peat was estimated from auger hole data and from the surface area measured on topographic and air photo maps. In calculating tonnages, 1 acre-foot of peat in place was considered equivalent to 200 tons of air-dried peat. Samples from all of the deposits were analyzed under the supervision of Irving May in the laboratories of the U.S. Geological Survey for moisture, ash, organic content, water-holding capacity, fiber size (exceeding 0.15mm), and acidity.

The help of Mr. Glen Jordan, soil scientist, U.S. Department of Agriculture, Machias, Maine for loan of air photographs, and Mr. Milford Savage, Island Falls, and Mr. Ted Lougee, Smyrna Mills, for logistic support while studying several heaths in Aroostook County is gratefully acknowledged.

Thanks are especially due Richard S. Rhodes, James K. Watson and Joseph C. Sarnecki who served as field assistants.

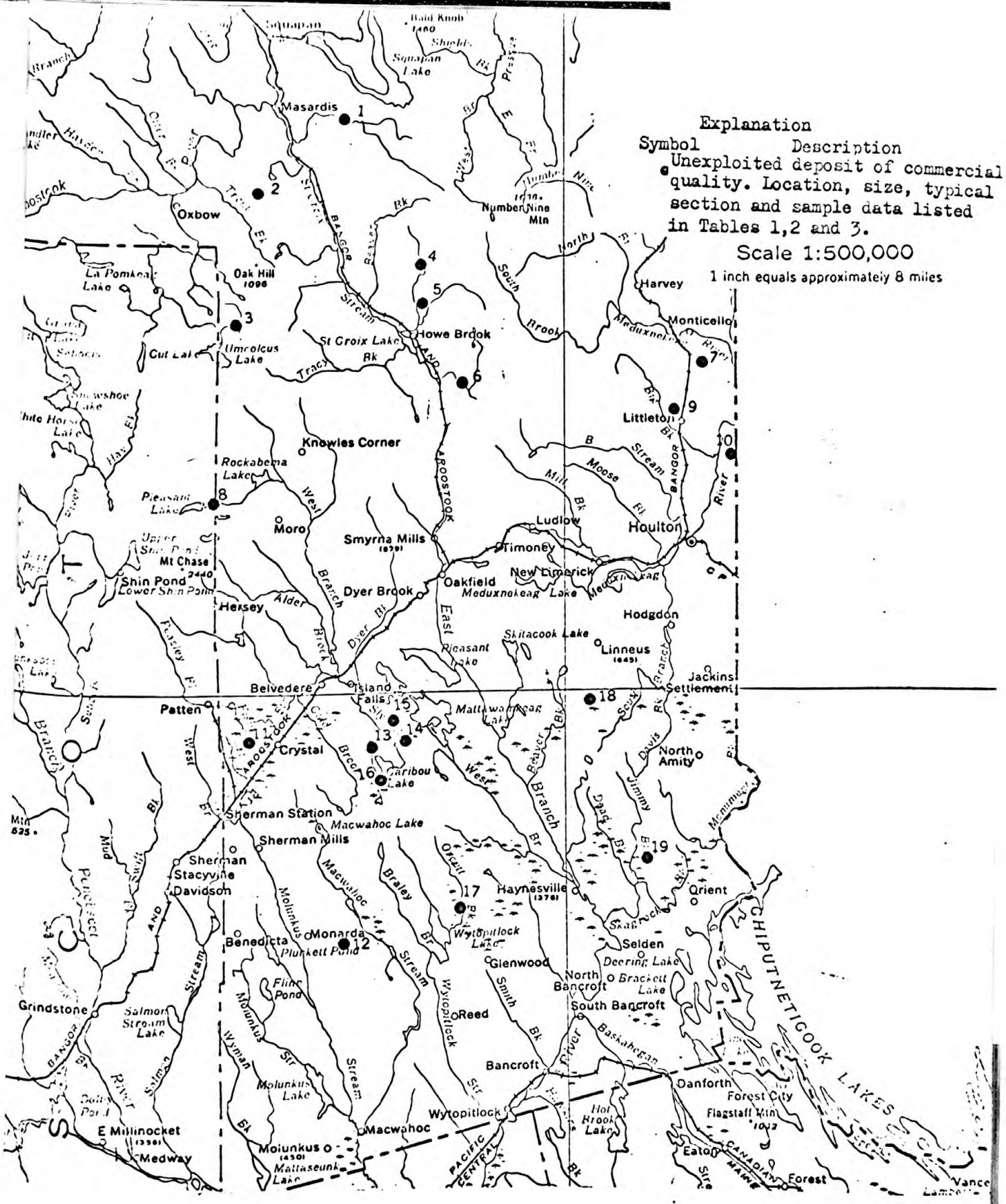


Figure 1. Selected peat deposits in southeastern Arcoostook County, Maine.

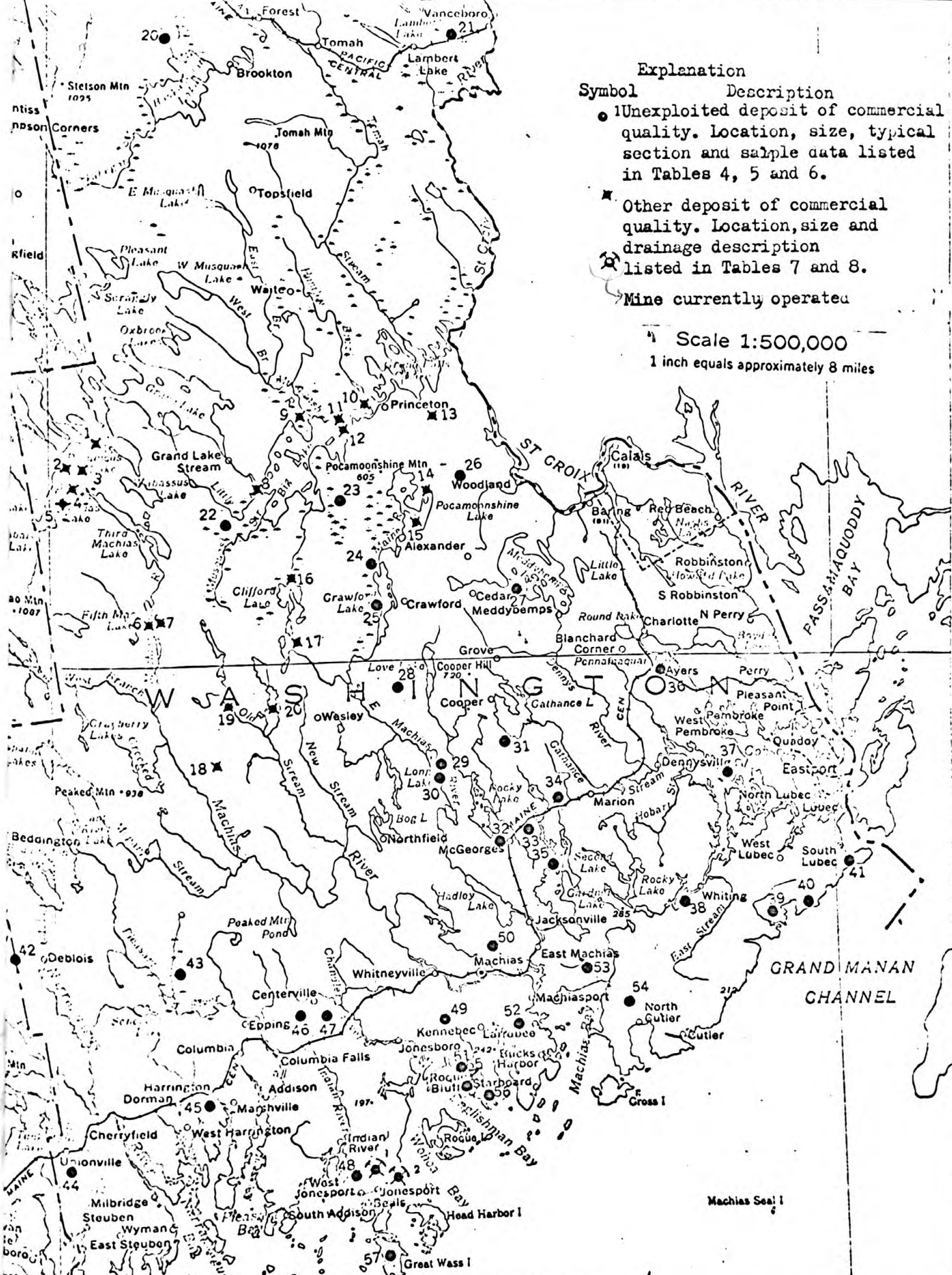


Figure 2. Selected peat deposits in Washington County, Maine.

Table 1.--Location of deposits in Aroostook County by quadrangle

<u>Deposit Number</u>	<u>Quadrangle (15 minute)</u>	<u>Location in quadrangle</u>
1.	Oxbow	Bog along Blackwater River north of Cranberry Pond
2.	Oxbow	Bog at Houlton Brook deadwater, T. 9, R. 5
3.	Oxbow	Bog at Smith Pond, T. 8, R. 5 WELS
4.	Howe Brook	Bog at Upper Deadwater on Howe Brook, Saint Croix Twn.
5.	Howe Brook	Bog at Lower Deadwater on Howe Brook, Saint Croix Twn.
6.	Howe Brook	Bog at Smith Brook Pond, Dudley Twn.
7.	Bridgewater	Bog at Gentle Lake, Monticello Twn.
8.	Island Falls	Bog at Mud Lake, Moro Twn. on County border
9.	Houlton	Edge of pond 0.4 mile south southwest of Littleton Station; Littleton Twn.
10.	Houlton	Edge of pond 1.2 miles southwest of Starkey Corner, Littleton Twn.
1.	Sherman	Thousand Acre Bog, Crystal and Sherman Twps.
2.	Sherman	Bog along Gulliver Brook, T. 2. R. 4 W
3.	Mattawamkeag Lake	Bog at north edge of Caribou Lake, Island Falls Twn.
4.	Mattawamkeag Lake	Bog between Sly Brook and Mud Pond, Island Falls Twn.
5.	Mattawamkeag Lake	Saucier Bog, Island Falls Twn.
6.	Mattawamkeag Lake	Bog at south edge of Caribou Lake, Island Falls Twn.
7.	Mattawamkeag Lake	Bog adjacent to Orcutt Brook, Glenwood Twn.
8.	Amity	Coffin Bog, Linneus Twn.
9.	Amity	Bog in northwest corner of Orient Twn.

Table 2.--Size of deposits in Aroostook County
(See Figure 1 and Table 1 for location)

<u>Deposit Number</u>	<u>Estimated tons (air-dried)</u>	<u>Approximate number of acres</u>	<u>Thickness (feet)</u>	
			<u>Max.</u>	<u>Average</u>
<u>Deposits containing more than 2,000,000 tons</u>				
11	2,250,000	1,125	20	10
<u>Deposits containing 500,000 to 2,000,000 tons</u>				
17	640,000	320	21	10
<u>Deposits containing 100,000 to 500,000 tons</u>				
2	430,000	215	13	10
1	150,000	150	9	5
4	189,000	135	12	7
8	180,000	90	17	10
15	100,000	50	15	10
13	160,000	80	15	10
16	480,000	240	25	10
18	130,000	65	15	10
<u>Deposits containing 50,000 to 100,000 tons</u>				
3	98,000	70	10	7
6	90,000	90	7	5
19	90,000	90	9	5

Table 2.--Size of deposits in Aroostook County--continued

<u>Deposit Number</u>	<u>Estimated tons (air-dried)</u>	<u>Approximate number of acres</u>	<u>Thickness (feet)</u>	
			<u>Max.</u>	<u>Average</u>
<u>Deposits containing 10,000 to 50,000 tons</u>				
5	38,000	38	9	5
7	15,000	15	12	5
9	10,000	10	7	5
10	10,000	10	7	5
12	20,000	20	7	5
14	20,000	30	7	5

Table 3.--Typical section and sample data for deposits in Aroostook County

<u>Site</u>	<u>Typical section (thickness in feet)</u>	<u>Ash (percent dry weight)</u>	<u>Water holding capacity (percent)</u>	<u>Fiber greater than mm (percent)</u>	<u>pH</u>
	Peat, 0-9	12.2	1890		5.4
	Clayey peat, 9-12				
	Gray clay, 12+				
	Peat, 0-13	5.9	2930	57.8	6.0
	Clayey peat, 13-17				
	Gray clay, 17+				
	Peat, 0-10	2.3	2428	56.0	4.1
	Clayey peat, 10-16				
	Gray clay and gravel, 16+				
	Sphagnum moss peat, 0-7	2.6	2162	92.6	4.8
	Peat, 7-12	4.3	1708	47.4	5.4
	Clayey peat, 13-27	37.3			
	Peaty clay, 27-30				
	Gray clay, 30+				
	Peat, 0-7	8.0	1479	57.4	4.6
	Clayey peat, 7-10	39.2			
	Gray clay, 10-14				
	Gravel, 14+				
	Peat, 0-7	7.4	1253	64.7	5.6
	Clayey peat, 7-12				
	Gray clay, 12+				

Table 3.--Typical section and sample data for deposits in Aroostook County--
continued

<u>Site</u> <u>Number</u>	<u>Typical section</u> <u>(thickness in feet)</u>	<u>Ash (percent</u> <u>dry weight)</u>	<u>Water Holding</u> <u>capacity (percent)</u>	<u>Fiber</u> <u>greater than</u> <u>mm (percent)</u>	<u>pH</u>
	Sphagnum moss peat, 0-5	8.5	1318	73.6	6.0
	Peat, 5-12				
	Clayey peat, 12-16				
	Clay, sand, gravel, 16+				
	Peat, 0-10	8.2	2987	63.4	4.8
	Clayey peat, 10-15				
	Gray clay, 15+				
	Peat, 0-7	21.9	1026	66.9	5.7
	Gravel, 7+				
	Sphagnum moss peat, 0-9	7.3	1286	67.0	6.1
	Marl, 9-21				
	Gray clay, 21+				
	Sphagnum moss peat, 0-17	3.8	3435	70.0	5.0
	Peat, 17-18				
	Clayey peat, 18-20				
	Gray clay, 20+				
	Peat, 0-7	5.8	1956	56.5	5.6
	Clayey peat, 7-9				
	Gray clay, 9+				
	Sphagnum moss peat, 0-7	5.6	2638	72.8	5.0
	Peat, 7-12				
	Clayey peat, 12-15				
	Gray clay, 15+				

Table 3.--Typical section and sample data for deposits in Aroostook County--
continued

<u>Deposit number</u>	<u>Typical section (thickness in feet)</u>	<u>Ash (percent dry weight)</u>	<u>Water holding capacity (percent)</u>	<u>Fiber greater than mm(percent)</u>	<u>pH</u>
4.	Peat, 0-7 Clayey peat, 7-8 Gray clay, 8+	6.9	1065	45.2	5.8
5.	Peat, 0-17 Clayey peat, 17-21 Gray clay, 21+	2.5	2181	55.0	4.6
5.	Sphagnum moss peat, 0-7 Peat, 7-25 Clayey peat, 25-30	5.3	2178	69.2	5.0
7.	Peat clay, 30-33 Sphagnum moss peat, 0-9 Peat, 9-21 Clayey peat, 21-24 Gray clay, 24+	3.2	1631	91.7	5.4
.	Peat, 0-15 Clayey peat, 15-17 Sand, 17+	3.4	1654	48.1	4.1
.	Sphagnum moss peat, 0-5 Peat, 5-9 Gray clay, 9+	3.0	3699	66.8	4.3

Table 4.--Location of the peat deposits in Washington County by quadrangle
for which typical section and sample data are listed in Table 6.

<u>osit ber</u>	<u>Quadrangle</u>	<u>Location in quadrangle</u>
0	Danforth 15'	Webber Bog, Brookton Twn.
1	Vanceboro 15'	Bog north of Sussie Hill, Vanceboro Twn.
2	Wabassus Lake 15'	Bog, 0.5 mile south of junction of Little River and South Brook, T. 27 ED
3	Big Lake 15'	Eligah Brown Heath, Plantation No. 21 Twn.
4	Big Lake 15'	Bog at north end of Crawford Lake, Plantation No. 21 Twn.
5	Big Lake 15'	Bog at west side of Crawford Lake, Crawford Twn.
6	Calais 15'	Bog 1.0 mile east of South Princeton, Princeton Twn.
7	Calais 15'	Meddybemps Heath, Alexander and Cooper Twns.
8	Wesley 15'	Joe Hanscom Heath T. 19 ED.
9	Wesley 15'	Bog adjacent to East Machias River, north of Oak Point Meadow, T. 18 ED.
30	Wesley 15'	Bog at Oak Point Meadow, T. 18 ED
31	Gardiner Lake 15'	Bog at The Commons adjacent to Route 191, west of Lake Cathance
32	Gardiner Lake 15'	Bog west of Route 191 at south end of Rocky Lake Ridge East Machias Twn.
33	Gardiner Lake 15'	Bog along Maine Central Railroad on east side of Southern Inlet, T. 18 ED
34	Gardiner Lake 15'	Bog along Rocky Brook at southeast end of Patrick Lake, Marion Twn.

Table 4.--Location of the peat deposits in Washington County by quadrangle
for which typical section and sample data are listed in Table 6.--cont'd

<u>Deposit Number</u>	<u>Quadrangle</u>	<u>Location in quadrangle</u>
	Gardiner Lake 15'	Bog adjacent to Hammond Pond at north end of Gardiner Lake, Marion Twn.
	Pembroke 7 1/2'	Bog 0.4 mile east of Ayers junction, Pembroke Twn.
	Pembroke 7 1/2'	Bog at southeast end of Leighton Neck between Youngs Cove and Long Cove.
	Whiting 7 1/2'	Bog west of Route 1 at junction of Orange River and Reynolds Brook
	West Lubec 7 1/2'	Heath west of Balch Head and south of South Trescott
	Great Wass Island 7 1/2'	Heath between Boot Cove and Baileys Mistake
	Lubec 7 1/2'	Bog north of Carrying Place Cove between mainland and west Quoddy Head.
	Tunk Lake 15'	Denbow Heath on Washington-Hancock County line.
	Cherryfield 15'	Bog crossed by Pleasant River, T. 18 MD and Columbia Twn.
	Cherryfield 7 1/2'	Heath 1.0 mile south of Unionville, Steuben Twn.
	Harrington 7 1/2'	Heath south of Harrington and west of Route 1A.
	Columbia Falls 7 1/2'	Marst Heath, Columbia Falls Twn.
	Columbia Falls 7 1/2'	Heath south of Pecky Brook, Centerville Twn.
	Addison 7 1/2'	Heath on east quadrangle boundry south of Route 187.
	Whitneyville 7 1/2'	Heath north of Route 1, Witneyville Twn.
	Machias 7 1/2'	Runaway Pond Heath, East Machias and Marshfield Twns.

Table 4.--Location of the peat deposits in Washington County by quadrangle
for which typical section and sample data are listed in Table 6.--cont'd

<u>Site</u>	<u>Quadrangle</u>	<u>Location in quadrangle</u>
	Machias 7 1/2'	Heath 0.3 mile north of Great Cove, Rogue Bluffs Twn.
	Machias 7 1/2'	Heath 0.5 mile west of Larrabee Cove, Machiasport Twn.
	Machias Bay 7 1/2'	Heath northeast of Enoch Hill, Whiting Twn.
	Machias Bay 7 1/2'	Heath 1.5 mile south of Huntley Creek, Cutler Twn.
	Rogue Bluffs 7 1/2'	Heath west of Rogue Bluffs Road, Rogue Bluffs Twn.
	Rogue Bluffs 7 1/2'	Heath between Black Head and John Mountain, Rogue Bluffs Twn.
	Great Wass Island 7 1/2'	Heath east of Norton point, Beals Twn.

Table 5.--Size of deposits in Washington County for which typical section and sample data are listed in Table 6

<u>Deposit Number</u>	<u>Estimated tons (air-dried)</u>	<u>Approximate number of acres</u>	<u>Thickness (feet)</u>	
			<u>Max.</u>	<u>Average</u>
<u>Deposits containing more than 2,000,000 tons</u>				
27	6,240,000	2,080	20	15
43	8,000,000	4,000	20	10
<u>Deposits containing 5,000,000 to 2,000,000 tons</u>				
21	980,000	700	13	7
42	640,000	320	23	10
<u>Deposits containing 100,000 to 500,000 tons</u>				
20	200,000	200	7	5
23	200,000	100	21	10
24	340,000	340	6	5
25	490,000	245	21	10
26	260,000	260	13	5
28	240,000	120	23	10
29	120,000	120	13	5
30	100,000	100	8	5
31	224,000	160	12	7
32	120,000	60	13	10
35	126,000	70	18	7
44	270,000	100	15	9
45	168,000	120	8	7
46	324,000	180	10	9
52	120,000	100	15	6
54	100,000	100	9	5

Table 5.--Size of deposits in Washington County for which typical section and sample data are listed in Table 6--cont'd

<u>Deposit Number</u>	<u>Estimated tons (air-dried)</u>	<u>Approximate number of acres</u>	<u>Thickness (feet)</u>	
			<u>Max.</u>	<u>Average</u>
<u>Deposits containing 50,000 to 100,000 tons</u>				
39	70,000	70	15	5
47	65,000	65	6	5
48	72,000	40	18	9
49	56,000	40	9	7
50	90,000	90	10	5
51	55,000	55	8	5
<u>Deposits containing 10,000 to 50,000 tons</u>				
22	28,000	20	17	7
33	25,000	35	12	5
34	28,000	20	12	7
36	40,000	50	5	4
37	42,000	30	9	7
38	40,000	40	9	5
41	42,000	30	15	7
55	25,000	25	9	5
56	15,000	15	9	5
53	36,000	60	9	3
57	35,000	25	11	7
40	15,000	15	12	5

Table 6.--Typical section and sample data for deposits in Washington County
(See Figure 2)

<u>Site</u>	<u>Typical section (thickness in feet)</u>	<u>Ash (percent dry weight)</u>	<u>Water holding capacity (percent)</u>	<u>Fiber greater than mm (percent)</u>	<u>pH</u>
	Sphagnum moss peat, 0-4				
	Peat, 4-7	16.0	880	36.3	4.7
	Gray clay, 7+				
	Peat, 0-13	4.0	1540	49.2	5.0
	Sand & gravel, 13+				
	Sphagnum moss peat, 0-11	3.0	4700	72.4	4.0
	Peat, 11-17	1.0	2310	53.3	4.1
	Peaty clay, 17-21				
	Sphagnum moss peat, 0-7	0.6	3460	66.8	3.8
	Peat, 7-11	1.0	1980	52.3	3.8
	Clayey peat, 11-13				
	Sand, 13+				
	Peat, 0-6	<10.0	>1000	33.4	--
	Sand, 6+				
	Sphagnum moss peat, 0-16	1.0	3620	67.2	4.0
	Peat, 16-20				
	Peaty clay, 20-21				
	gray clay, 21+				
	Sphagnum moss peat, 0-7	1.0	4000	75.0	3.7
	Peat, 7-13	3.7	1120	46.3	4.9
	Gray clay and sand 13+				
	Sphagnum moss peat, 0-11	0.9	3000	73.5	3.9
	Peat, 11-20	3.0	1130	40.0	4.3
	Clayey peat, 20-25				
	Silty clay, 23+				

Table 6:--Typical section and sample data for deposits in Washington County
(See Figure 2) -- continued

<u>Site</u>	<u>Typical section (thickness in feet)</u>	<u>Ash (percent dry weight)</u>	<u>Water holding capacity (percent)</u>	<u>Fiber greater than mm (percent)</u>	<u>pH</u>
	Sphagnum moss peat,0-17	0.7	4220	72.6	4.2
	Clayey peat, 17-23				
	Gray clay, 23+				
	Peat, 0-9	1.0	2770	56.6	3.8
	Clayey peat, 9-13				
	Gray silt, 13+				
	Peat, 0-8	<10.0	>1000	> 33.4	
	Peaty clay, 8-9				
	Gray clay 9+				
	Peat, 0-9	1.0	2670	64.2	3.8
	Clayey peat, 9-12				
	Sand, 12+				
	Sphagnum moss peat,0-8	4.0	3920	79.8	4.0
	Peat, 8-10	3.0	640	34.2	4.0
	Silt, 10+				
	Sphagnum moss peat, 0-10	2.0	3300	66.2	3.9
	Peat, 10-12				
	Peaty clay, 12-17				
	Gray clay, 17+				
	Peat, 0-12	5.5	1790	51.4	4.5
	Peaty clay , 12-16				
	Gray clay, 16+				

Table 6.--Typical section and sample data for deposits in Washington County
(See Figure 2)

<u>Site</u>	<u>Typical section (thickness in feet)</u>	<u>Ash (percent dry weight)</u>	<u>Water holding capacity (percent)</u>	<u>Fiber greater than mm (percent)</u>	<u>pH</u>
	Sphagnum moss peat, 0-12	1.0	3780	66.5	3.7
	Peat, 12-16				
	Clayey peat, 16-18				
	Gray Clay, 18+				
	Peat, 0-5	7.0	840	44.5	4.5
	Gray clay, 5+				
	Sphagnum moss peat, 0-9	2.0	3290	83.9	4.0
	Peaty clay, 9-10				
	Gray clay, 10+				
8	Sphagnum moss peat, 0-4				
	Peat, 4-9 ft	1.0	2680	62.4	4.6
	Clayey peat	63.0	300	11.9	5.3
9	Sphagnum moss peat, 0-7	2.0	4500	70.9	4.1
	Peat, 7-15	6.0	2270	48.2	4.9
	Gray clay, 15+				
10	Sphagnum moss peat, 0-11	3.5	2620	74.0	4.8
	Peat, 11-12				
	Gray silty clay, 12+				
11	Peat, 0-15	0.6	3000	42.0	4.3
	Peaty clay, 17-19+				
12	Sphagnum moss peat, 0-13	1.0	3360	71.6	
	Peat, 13-23	2.0	2820		
	Clayey sand, 23+				

Table 6:--Typical section and sample data for deposits in Washington County
(See Figure 2)

<u>Site</u>	<u>Typical section (thickness in feet)</u>	<u>Ash (percent dry weight)</u>	<u>Water holding capacity (percent)</u>	<u>Fiber greater than mm (percent)</u>	<u>pH</u>
	Sphagnum moss peat,0-8.	0.5	4120	99.2	4.2
	Peat, 8-15	1.5	1855	54.9	4.1
	Peat, slightly clay,15-18	4.0	1010	36.7	4.4
	Peaty clay, 18-19	74.0			4.6
	Silt, 19+				
	Sphagnum moss peat,0-11	1.0	4830	76.3	3.7
	Peat, 11-15	1.0	3010	49.3	5.0
	Peaty clay, 15-16				
	Gray clay, 16+				
	Sphagnum moss peat,0-8	2.0	3650	72.7	3.8
	Peaty clay, 8-9				
	Tan clay, 9+				
	Sphagnum moss peat,0-7	2.0	3750	68.8	4.6
	Peat humus, 7-10	10.0	800	30.8	5.3
	Silty clay				
	Peat, 0-6	6.0	930	42.6	4.6
	Gray clay, 6+				
	Sphagnum moss peat., 0-18	3.0	3110	68.8	4.8
	Gray clay, 18+				
	Peat, 0-9	1.0	1660	52.6	3.9
	Gray clay, 9+				

Table 6.--Typical section and sample data for deposits in Washington County
(See Figure 2)

<u>Site</u>	<u>Typical section (thickness in feet)</u>	<u>Ash (percent dry weight)</u>	<u>Water holding capacity (percent)</u>	<u>Fiber greater than mm (percent)</u>	<u>pH</u>
	Peat, 0-7	2.8	1670	54.1	4.5
	Clayey peat, 7-8				
	Peaty clay and gray clay, 8+				
	Sphagnum moss peat, 0-8	2.0	3130	68.1	4.2
	Peaty clay, 8-8				
	Gray clay, 9+				
	Sphagnum moss peat, 0-8	1.0	2570	75.8	4.0
	peat, 8-15	3.0	1420	47.4	4.4
	Gray clay, 15+				
	Humus, 0-3				
	Sphagnum moss peat, 3-7	3.0	4920	70.1	9.8
	Peat humus, 7-9	19.0	650	20.6	5.5
	Silt, 9+				
	Sphagnum moss peat, 0-7	3.0	4920	70.1	9.8
	Peat humus, 7-9	19.0	650	20.6	5.5
	Silt, 9+				
	Sphagnum moss peat, 0-9	1.0	3760	71.7	4.2
	Peaty clay, 9-16				
	Fine sand, 10+				
	Peat, 0-9	2.0	1820	55.9	3.6
	Peaty clay, 9-10	28.0	480	33.0	4.0
	Sand, 10+				

Table 6.--Typical section and sample data for deposits in Washington County
(See Figure 2)

<u>Site</u>	<u>Typical section</u> <u>(thickness in feet)</u>	<u>Ash (percent</u> <u>dry weight)</u>	<u>Water holding</u> <u>capacity (percent)</u>	<u>Fiber</u> <u>greater than</u> <u>mm (percent)</u>	<u>pH</u>
	Peat, 0-5	2.0	3510	60.3	4.1
	Peat, 5-11	3.0	1900	47.8	4.1
	Clayey peat, 11-14	36.0	920	21.7	4.1
	Gray clay and sand, 14+				

Table 7.--Location of other peat deposits of commercial quality in Washington County (see Figure 2)

<u>Deposit Number</u>	<u>Quadrangle</u>	<u>Location in quadrangle</u>
1	Wabassus Lake 15'	Bog north of Dark Cove Mountain, T. 5 ND
2	Wabassus Lake 15'	Bog north of Fourth Machias Lake, T. 5 ND
3	Wabassus Lake 15'	Bog adjacent to Fourth Lake Stream 0.5 mile east of outlet, T. 5 ND
4	Wabassus Lake 15'	Bog north of Dead Stream east of Fourth Machias Lake
5	Wabassus Lake 15'	Bog south of Dead Stream east of Fourth Machias Lake
6	Wabassus Lake 15'	Bog south of Second Machias Lake along Machias River, T. 37 MD
7	Wabassus Lake	Bog at Southeast end of Second Machias Lake T. 37 MD
8	Big Lake 15'	Bog between mouth of Grand Lake Stream and Little River Bluff, T. 27 ED
9	Big Lake 15'	Bog between Musquash Stream and Cass Cove, Grand Lake Plantation Twn.
10	Big Lake 15'	Bog on west side of Lewy Lake, Indian Twn.
11	Big Lake 15"	Bog west of Long Lake Campground, Indian Twn.
12	Big Lake 15'	Bog between Greenland Cove and Jimmy Libby Cove, Princeton Twn.
13	Big Lake 15'	Sawtelle Heath, north of Route 1
14	Big Lake 15'	Bog along lower reaches of Dog Brook and west side of Brown Cove, Princeton Twn.

Table 7.--Location of other peat deposits of commercial quality in Washington County (see Figure 2) -- continued

<u>Deposit</u>	<u>Quadrangle</u>	<u>Location in quadrangle</u>
Big Lake 15'		Bog south of Morrison Point on Pocomoonsshine Lake
Big Lake 15'		Bog along Clifford Stream north of East Arm of Clifford Lake
Big Lake 15'		Bog along Beaverdam Stream near quadrangle boundry, T. 26 ED
Tug Mountain 15'		Bog along Pembroke Stream deadwater north of Route 9, T. 31 MD
Tug Mountain 15'		Bog on west side of Old Stream north of Canaan dam T. 31 MD
Wesley 15'		Bog on southwest side of First Chain Lake, northwest corner of Wesley Twn.

Table 8.--Size and drainage description of peat deposits in Washington County listed in Table 7

Deposit Number	Estimated tons (air-dried)	Approximate number of acres	Thickness (feet)		Drainage
			Max.	Average	
1	180,000	90	22	10	Good on domed heath
2	60,000	30	22	10	Good on domed heath
3	30,000	30	7	5	Controlled by Lake dam
4	448,000	280	20	8	Controlled by Lake dam
5	1,536,000	900	20	8	Controlled by Lake dam
6	90,000	45	22	10	Good on dome at south end
7	280,000	200	15	7	Good on domed heath
8	64,000	40	10	8	Fair on domed heath
9	120,000	120	6	5	Good on domed heath
10	64,000	40	10	8	Largely drowned heath
11	50,000	50	6	5	Dome is too low to permit good drainage
12	100,000	100	6	5	Good on domed heath
13	200,000	100	15	10	Fair to good near center
14	224,000	160	15	7	Fair on dome partly drowned
15	64,000	40	10	8	Fair on dome partly drowned
16	208,000	260	15	4	Drainage controlled by Stream dam
17	84,000	60	15	7	Good on domed heath

Table 8.--Size and drainage description of peat deposits in Washington County listed in Table 7 -- continued

<u>Deposit Number</u>	<u>Estimated tons (air-dried)</u>	<u>Approximate number of acres</u>	<u>Thickness (feet)</u>		<u>Drainage</u>
			<u>Max.</u>	<u>Average</u>	
18	168,000	140	10	6	Fair on low dom-
19	200,000	100	15	10	Good on domed heath
20	3,000	5	13	10	Dome partly drowned by high lake level

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