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Some peat deposits in northern Penobscot, eastern Piscataquis, and eastern Aroostook Counties, Maine

by

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ABSTRACT

Fifty-six peat deposits in northern Penobscot, eastern Piscataquis, and eastern Aroostook Counties, Maine, were investigated for peat resources. The total yield is an estimated 35,196,000 short tons air-dried peat, predominantly sphagnum moss and reed-sedge types. This peat, suitable for horticultural and agricultural uses, also has higher heating values and lower sulfur contents than other peat.

INTRODUCTION

General nature of peat

Peat is light-brown to dark-brown or almost black residuum formed by the partial decay and disintegration of plants that grew in marshes and swamps or in damp places such as heaths. It may be (1) fibrous matted material composed of mosses, ferns, grasses, rushes, reeds, sedges, and woody material from trees and shrubs; (2) finely divided plants so decomposed that their biological identity has been lost; or (3) nonfibrous, plastic colloidal, and macerated material deposited at the bottom of lakes or other bodies of water. The U.S. Bureau of Mines classifies peat in three general types. Material derived from moss is moss peat; that from reed, sedge, shrub, and tree groups is classified as reed-sedge peat; and material so decomposed that its botanical identity has been obscured and its further oxidation impeded, is classified as humus peat. To avoid confusion with soil-science terminology, sphagnum moss peat in this report is equivalent to fibric peat, and reed-sedge peat is equivalent to hemic herbaceous peat (Olson and others, 1979). The American Society for Testing and Materials (ASTM) refined these definitions in 1969 to include in commercial-quality peat only that having an ash content of not more than 25 percent.

Uses of peat and outlook for peat industry

Virtually all peat sold in the United States in 1979 was used for agricultural and horticultural purposes. It was marketed through nurseries, garden centers, and chain stores chiefly in suburban areas of the North Central, Northeast, and Middle Atlantic States and Florida. Production during 1979 in the United States was estimated (Singleton, 1980) at 880,000 short tons, of which 60 percent was reed-sedge peat, 25 percent humus peat, 7 percent moss peat, and the remaining 8 percent unclassified peat. Value of the 1979 production

was about $15,000,000 f.o.b. (freight on board) mine, and the average value per ton was about $19.15. Apparent consumption of peat in the United States during this year, however, was 1,215,000 short tons, of which imports composed 400,000 short tons.

Demand for peat in the production of food is expected to increase from the 1978 demand at an average annual rate of about 3 percent to 1.4 million short tons in 1985 (Singleton, 1980). The demand for peat in the production of energy is also expected to begin. Experimental studies on the gasification of peat continue in the Midwest, and a large industrial corporation in North Carolina is investigating and promoting the possible commercial generation of electrical power from steam produced by direct burning of peat.

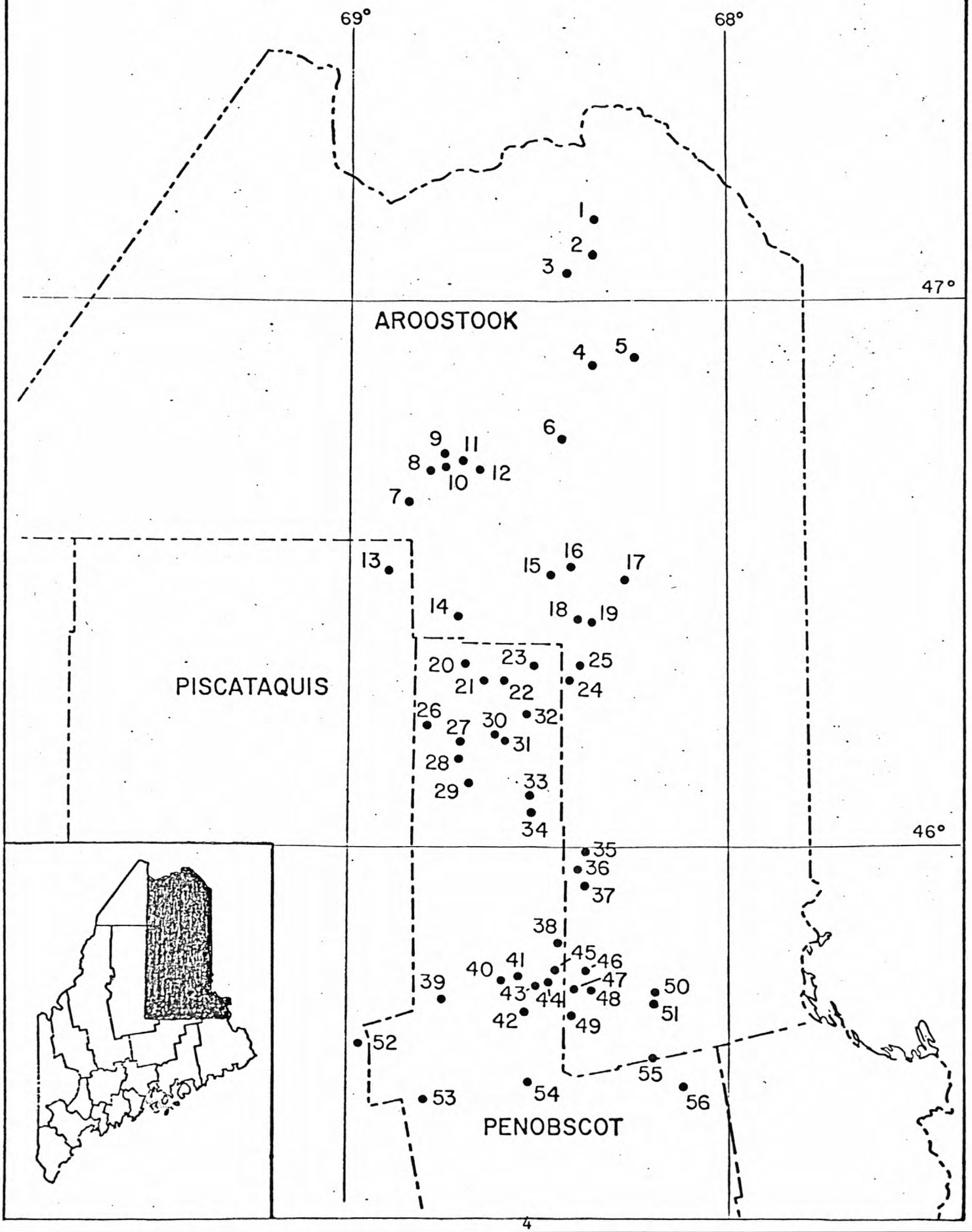
Scope of report

The purpose of this report is to provide information for use in the exploration and exploitation of peat deposits in northern Penobscot, eastern Piscataquis, and eastern Aroostook Counties, Maine. It is an expansion of the studies begun earlier in Washington and southeastern Aroostook Counties (Cameron, 1975; Cameron and Anderson, 1980), Hancock County (Cameron and Massey, 1978), and Penobscot County (Cameron and Anderson, 1979). Fifty-six peat deposits (whose locations are given in figure 1 and table 1) are described in this report.

Method of study

Field studies consisted of pace and compass traverses for determining extent of deposits. Stratigraphy was examined and samples obtained from cores taken with Macaulay peat augers and Davis peat samplers. Seven hundred ninety-three peat samples were analyzed in the U.S. Geological Survey laboratories for content of ash and moisture as received and pH. Proximate and ultimate analyses and the heating value of an additional 205 samples were obtained at the U.S. Department of Energy laboratories in Pittsburgh, Pa.

FIGURE 1. INDEX MAP SHOWING THE LOCATIONS OF 56 PEAT DEPOSITS IN AROOSTOOK, PENOBSCOT, AND PISCATAQUIS COUNTIES, MAINE, WHICH ARE DESCRIBED IN THIS REPORT.



Estimates of commercial-quality peat resources were based on acre-feet of peat where it was 5 or more feet thick and had an ash content not greater than 25 percent; this definition of commercial-quality peat resources is in accord with ASTM (1969) standards. The formula for converting acre-feet of peat to short tons of air-dried peat was devised by E. S. Bastin and C. A. Davis (1909) of the U.S. Geological Survey during their study to determine the extent and value of Maine's peat deposits as sources of potential fuel and as raw materials for various other uses. Bastin and Davis (1909, p. 24) stated, "the quantity of peat in a deposit may readily be calculated, with enough accuracy for practical purposes, by obtaining its average depth and its area, and assuming that it will yield at least 200 tons of dry machine-made fuel per acre, for each foot in depth." This formula was based on the following figures (Bastin and Davis, 1909, p. 62):

> "The specific gravity of the dry peat substance is slightly but not much greater than that of water. A cubic foot of water weighs 62.5 pounds. It is probable that a cubic foot of wet peat as it comes from the bog will weigh more than this, probably somewhat over 65 pounds...many peats as they come from the bog contain 85 to 90 percent of water by weight. In others the water percentage is lower, but for purposes of a conservative estimate it may be assumed that the vegetable matter constitutes only 10 to 15 per cent by weight of the wet peat. On this basis, a cubic foot of wet peat would contain only 10 to 15 per cent of 65 pounds or 6.5 to 9.75 pounds of vegetable material.
>
> The water contained in air-dried machine peat will probably average about 25 per cent by weight, but a conservative estimate may assume that it constitutes only 20 per cent...Forty pounds may be taken as an average figure [for the weight of air-dried machine peat per cubic foot]. Of this about 80 per cent, or 32 pounds, would be vegetable material.
>
> As each cubic foot of peat as it comes from the bog contains 6.5 to 9.75 pounds of vegetable matter, it would take...5 to 3.2 cubic feet of wet peat to make 1 cubic foot of air-dried machine peat. If we assume 4 cubic feet of wet peat as an average figure we have the following relations:

$$\frac{\text{Volume of wet peat in bog, in cubic feet}}{4} \times \frac{40 \text{ (average weight in pounds of 1 cubic foot of machine peat)}}{2{,}000} = \frac{\text{Volume of wet peat in bog, in cubic feet}}{200} = \left\{\text{Number of tons of air-dried machine peat which the bog can produce."}\right.$$

(number of cubic feet of wet peat equal to 1 cubic foot of machine peat)

(pounds in short ton)

Acknowledgments

The Maine Geological Survey supported this study with assistance from the Maine Office of Energy Resources, Augusta, Maine. Laboratory support by the Maine Geological Survey and logistical support of these organizations were greatly appreciated. Appreciation is also extended to Forest E. Walker, Chemist in Charge of the Coal-Analysis Division, U.S. Department of Energy, for sample analyses shown in table 2. Samples submitted to the U.S. Geological Survey laboratories were analyzed for the data listed in table 3 by Roosevelt Moore, Stanley Fleming, Joseph L. Harris, and D. W. Golightly, to whom appreciation is likewise extended. Finally, the excellent field assistance by Michael K. Mullen, Vernon L. Shaw, George H. Sweihart, and David H. Brown is gratefully acknowledged.

PHYSIOGRAPHY AND COMPOSITION OF THE DEPOSITS

The evolution, physiography, and stratigraphy of peat deposits described in this report in tables 1, 2, and 3 are generally similar to those of the deposits described by Cameron (1975) in Washington and southern Aroostook Counties. Most are, at least in part, raised sphagnum bogs covered by heath vegetation, which grades outward to marsh or forest borders.

The commercial-quality peat deposits contained in the 56 bogs, swamps, and bog and swamp complexes are defined as generally being at least 5 feet thick

and having an ash content not exceeding 25 percent. These deposits, which are located in figure 1 and described in table 1, range in area from less than 80 acres to 2,390 acres; most are 80-400 acres in size. Twelve deposits are less than 80 acres, three are between 200 and 300 acres, and nine are between 300 and 400 acres. One deposit is between 500 and 600 acres in size; one is between 700 and 800 acres; one is between 1,100 and 1,200 acres; one is 1,936 acres; and one is 2,390 acres. Average thicknesses of commercial-quality peat are as great as 15 feet. Fifteen deposits have average thicknesses of 5 feet. Ten deposits have average thicknesses of 6 to 9 feet. Fifteen deposits have average thicknesses of 10 feet, and four deposits have 11- to 15-foot average thicknesses. Seven deposits have average thicknesses within each deposit of from 5 to 7, 8, 10, 14, and 15 feet.

The deposits are predominantly of the sphagnum moss type, which is found in the domed part of the deposit. The shallowest deposits are commonly reed-sedge, which may include forest material. Reed-sedge-type peat also commonly occurs at the base of the sphagnum moss of the heath dome as shown in table 3. Clayey peat (ash content 25 percent to 50 percent), peaty clay (ash content 50 to 90 percent), and clay (ash content greater than 90 percent) separate the deposits of commercial-quality peat from the clay, silt, sand, gravel, or bedrock foundation. This clayey peat, peaty clay, and slightly organic clay represent the ancient freshwater pond deposit on which the marsh vegetation producing the reed-sedge peat grew. The sphagnum moss typically grows above the plane of the ancient pond surface. The humus peat is mostly disintegrated or weathered peat not mixed with much mineral matter.

The acidity of the peat and underlying materials is shown in table 3. Little difference appears to exist between the pH in the sphagnum peat and that in the reed-sedge peat. The pH appears to be affected by the quality of water brought into the deposit. High pH is typical of areas where the country rock is rich in lime.

RESOURCES

The resources of commercial-quality peat in the 56 deposits recorded in table 1 and located in figure 1 are estimated at 35,196,000 short tons air-dried peat. These resources are predominantly high-quality sphagnum moss and reed-sedge peat having very low ash contents. Most have less than 10 percent ash and may have less than 5 percent; pH is mostly between 3.5 and 4.5, as shown by analyses of samples (table 3).

These resources not only are valuable from an agricultural and horticultural standpoint, but they are also worth investigating for their fuel potential. Heating values as well as proximate and ultimate analyses for volatile matter, fixed carbon, ash, hydrogen, carbon, nitrogen, sulfur, and oxygen for samples representing the 35,196,000 short tons of air-dried peat of commercial quality are shown in table 2. Heating values are largely 9,000 to more than 10,000 BTU per pound. The low sulfur content is favorable because burning the peat will not violate air-quality standards, and the high hydrogen content favors gasification because little hydrogenization is required.

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Table 1. Estimated peat resources in each of 56 peat deposits shown on index map, Figure 1.

Deposit No.	Location as shown on U.S. Geological Survey 1:62,000 topographic quadrangle maps	Estimated resources	
		Acres of commercial-quality peat (peat that generally is at least 5 feet thick and has an ash content not exceeding 25 percent)	Short tons of air-dried peat (1 acre-foot = 200 short tons
1	Bog between Mud Lake and Cross Lake, T17 R5, Square Lake Quadrangle, Aroostook Co.	360 acres of which 230 have average thickness of 8 feet and 130 have average thickness of 5 feet	498,000
2	Bog in swamp SW of Cross Lake and NE of Square Lake, T17 R5 and T16 R5, Square Lake Quadrangle, Aroostook Co.	320 acres with average thickness of 3 feet	192,000
3	Bog between Square Lake and Eagle Lake, T16 R5, Square Lake Quadrangle, Aroostook Co.	210 acres with average thickness of 4 feet	168,000
4	Bog at Bog Lake, T14 R5, Portage Quadrangle, Aroostook Co.	75 acres with average thickness of 4 feet	60,000
5	Bog along inlet to Salmon Brook Lake, Perham Twp., Caribou Quadrangle, Aroostook Co.	245 acres with average thickness of 5 feet	245,000
6	Bog along Burpee Brook, SW corner T13 R5 and NW corner Ashland Twp., Ashland Quadrangle, Aroostook Co.	590 acres of which 430 have average thickness of 8 feet and 160 have average thickness of 5 feet	840,000
7	Bog along Dead Brook between Pratt Lake Stream and Rowe Lake, T11 R9, Mooseleuk Lake Quadrangle, Aroostook Co.	280 acres with average thickness of 12 feet	672,000
8	Bog 0.8 miles N of Big Machias Lake and 1.0 mile SW of Clayton Lake, T12 R8, Mooseleuk Lake Quadrangle, Aroostook Co.	142 acres with average thickness of 5 feet	142,000
9	Swamp at head of north-flowing stream NE of Clayton Lake, T12 R8, Mooseleuk Quadrangle, Aroostook Co.	20 acres with average thickness of 3 feet; not commercial quality	

Table 1. Estimated peat resources in each of 56 peat deposits shown on index map, Figure 1. --Continued

Deposit No.	Location as shown on U.S. Geological Survey 1:62,000 topographic quadrangle maps	Estimated resources	
		Acres of commercial-quality peat (peat that generally is at least 5 feet thick and has an ash content not exceeding 25 percent)	Short tons of air-dried peat (1 acre-foot = 200 short tons
10	Bog along east inlet of Clayton Lake and SW of Bald Mountain, center of T12 R8, Greenlaw Quadrangle, Aroostook Co.	30 acres with average thickness of 8 feet	48,000
11	Bogs at Greenlaw Pond and deadwater due east of Greenlaw Pond, T12 R7 and T12 R8, Greenlaw Quadrangle, Aroostook Co.	285 acres with average thickness of 6 feet	342,000
12	Bog SE of Greenlaw Pond at deadwater near west center of T12 R7, Greenlaw Quadrangle, Aroostook Co.	50 acres with average thickness of 6 feet	60,000
13	Bog along deadwater E of Mooseleuk Lake, T10 R9, Mooseleuk Quadrangle, Piscataquis Co.	280 acres with average thickness of 10 feet	560,000
14	Chandler Deadwater S of Chandler Mt., T9 R8, Grand Lake Sebois Quadrangle, Aroostook Co.	250 acres with average thickness of 10 feet	500,000
15	Bog S of Shields Brook, eastern T10 R6, Ashland Quadrangle, Aroostook Co.	80 acres with average thickness of 8 feet	128,000
16	Bog 2½ miles NW of Masardis, Ashland Quadrangle, Aroostook Co.	50 acres with average thickness of 5 feet	50,000
17	Bog along Blackwater River N of Cranberry Pond, T10 R4, Oxbow Quadrangle, Aroostook Co.	325 acres of which 185 have average thickness of 10 feet, 70 have average thickness of 7 feet, and 70 have average thickness of 5 feet	538,000
18	Bog along Houlton Brook deadwater, center of T9 R5, Oxbow Quadrangle, Aroostook Co.	215 acres with average thickness of 10 feet	430,000
19	Bog E of Route 11 and NW of Hall Brook, T9 R5, Oxbow Quadrangle, Aroostook Co.	70 acres with average thickness of 8 feet	112,000

Table 1. Estimated peat resources in each of 56 peat deposits shown on index map, Figure 1. --Continued

Deposit No.	Location as shown on U.S. Geological Survey 1:62,000 topographic quadrangle maps	Estimated resources	
		Acres of commercial-quality peat (peat that generally is at least 5 feet thick and has an ash content not exceeding 25 percent)	Short tons of air-dried peat (1 acre-foot = 200 short tons
20	Bog at N end of Grand Lake Sebois, T8 R7, Grand Lake Sebois Quadrangle, Penobscot Co.	140 acres with average thickness of of 7 feet	196,000
21	Lower Deadwater along Wadleigh Brook, T8 R7, Grand Lake Sebois Quadrangle, Penobscot Co.	130 acres with average thickness of 10 feet	260,000
22	Upper Deadwater along North and South Branches of Wadleigh Brook, T8 R7, Grand Lake Sebois Quadrangle, Penobscot Co.	310 acres of which 140 have average thickness of 7 feet and 170 have average thickness of 5 feet	366,000
23	Umcolcus Deadwater, T8 R6, Grand Lake Sebois Quadrangle, Penobscot Co.	335 acres of which 255 have average thickness of 10 feet and 80 have an average thickness of 5 feet	590,000
24	Bog at Smith Pond, T8 R5, Oxbow Quadrangle, Aroostook Co.	460 acres of which 140 have average thickness of 10 feet and 320 have average thickness of 6 feet	664,000
25	Bog NE of Smith Pond and SE of Beaver Pond W of Route 11, T8 R5, Oxbow Quadrangle, Aroostook Co.	105 acres of which 80 have average thickness of 8 feet and 25 have average thickness of 6 feet	158,000
26	Bogs along inlet to Scraggley Lake, T7 R8, Traveler Mountain Quadrangle, Penobscot Co.	135 acres of which 75 have average thickness of 10 feet and 60 have average thickness of 5 feet	210,000
27	Bog at Mud Pond, NE corner T6 R8, Shin Pond Quadrangle, Penobscot Co.	110 acres with average thickness of 5 feet	110,000
28	Bog N of Hay Lake along Hay Brook, T6 R8, Shin Pond Quadrangle, Penobscot Co.	150 acres with average thickness of 5 feet	150,000
29	Bog NE of Marble Lake at corner of T5 R8, T6 R8, and T6 R7, Shin Pond Quadrangle, Penobscot Co.	120 acres with average thickness of 10 feet	240,000

Table 1. Estimated peat resources in each of 56 peat deposits shown on index map, Figure 1. --Continued

Deposit No.	Location as shown on U.S. Geological Survey 1:62,000 topographic quadrangle maps	Estimated resources	
		Acres of commercial-quality peat (peat that generally is at least 5 feet thick and has an ash content not exceeding 25 percent)	Short tons of air-dried peat (1 acre-foot = 200 short tons)
30	Bog at Hobart Deadwater, mostly in T7 R7, Shin Pond Quadrangle, Penobscot Co.	115 acres with average thickness of 9 feet	207,000
31	Bog at Sebois Deadwater S of Whitehorse Lake, T6 R7 and T7 R7, Shin Pond Quadrangle, Penobscot Co.	45 acres with average thickness of 5 feet	45,000
32	Bog at Upper Deadwater of Hay Brook, T7 R6, Shin Pond Quadrangle, Penobscot Co.	160 acres with average thickness of 6 feet	192,000
33	Bog at S end of Upper Shin Pond, Mt. Chase Twp., Shin Pond Quadrangle, Penobscot Co.	40 acres-not commercial quality	
34	Bog at Akley Pond, Mt. Chase Twp., Shin Pond Quadrangle, Penobscot Co.	35 acres with average thickness of 9 feet	63,000
35	Bog 2 miles NNW of Crystal and 1 mile WSW of junction of Crystal Brook and Fish Stream, Sherman Quadrangle, Aroostook Co.	125 acres with average thickness of 5 feet	125,000
36	Thousand Acre Bog, heath area mostly in Crystal Twp., NW of Bangor and Aroostook RR between Crystal Station and Sherman Station, Sherman Quadrangle, Aroostook Co.	1,125 acres with average thickness of 10 feet	2,250,000
37	Swamps and small heaths SE of Bangor and Aroostook RR between Crystal and Sherman Stations, Sherman Quadrangle, Aroostook Co.	1,936 acres with average thickness of 10 feet	3,873,000
38	Bog at N end of Rush Pond, T2 R6, Sherman Quadrangle, Penobscot Co.	160 acres with average thickness of 5 feet	160,000
39	Bog at Smith Brook and Little Smith Pond, T1 R8, Norcross and Millinocket Quadrangles, Penobscot Co.	210 acres with average thickness of 11 feet	460,000

Table 1. Estimated peat resources in each of 56 peat deposits shown on index map, Figure 1. --Continued

Deposit No.	Location as shown on U.S. Geological Survey 1:62,000 topographic quadrangle maps	Estimated resources	
		Acres of commercial-quality peat (peat that generally is at least 5 feet thick and has an ash content not exceeding 25 percent)	Short tons of air-dried peat (1 acre-foot = 200 short tons)
40	Crowfoot Bog W of East Branch of Penobscot River, T1 R7 and T2 R7, Stacyville Quadrangle, Penobscot Co.	80 acres with average thickness of 5 feet	80,000
41	Bog ½ mile NE of Hay Brook Village, T2 R7 and T2 R6, Stacyville Quadrangle, Penobscot Co.	30 acres with average thickness of 5 feet	20,000
42	Hatham Bog, border of T1 R7 and T1 R6, Millinocket Quadrangle, Penobscot Co.	230 acres with average thickness of 10 feet	506,000
43	Bog at N end of Salmon Stream Lake, T1 R6, Mattawamkeag and Sherman Quadrangles, Penobscot Co.	300 acres of which 170 have average thickness of 14 feet and 130 have average thickness of 5 feet	606,000
44	Bog along Mud Brook, T1 R6 and T2 R6, Mattawamkeag and Sherman Quadrangles, Penobscot Co.	220 acres of which 150 have average thickness of 15 feet, 40 have average thickness of 10 feet, and 30 have average thickness of 5 feet	360,000
45	Bog along Salmon Stream, T1 R6 and T2 R6, Sherman Quadrangle, Penobscot Co.	390 acres of which 60 have average thickness of 20 feet, 50 have average thickness of 15 feet, 60 have average thickness of 12 feet, 100 have average thickness of 10 feet and 120 have average thickness of 5 feet	854,000
46	Bog at N end of Flynn Pond, Benedicta Twp., Sherman Quadrangle, Aroostook Co.	150 acres with average thickness of 10 feet	300,000
47	Bog along Little Molunkus Stream, T1 R5, Mattawamkeag Quadrangle, Aroostook Co.	320 acres with average thickness of 5 feet	320,000
48	Bog at S end of Flynn Pond, T1 R5, Mattawamkeag Quadrangle, Aroostook Co.	100 acres with average thickness of 10 feet	200,000
49	Bog along Wyman Brook, T1 R5, Mattawamkeag Quadrangle, Aroostook Co.	200 acres with average thickness of 10 feet	400,000

Table 1. Estimated peat resources in each of 56 peat deposits shown on index map, Figure 1. --Continued

Deposit No.	Location as shown on U.S. Geological Survey 1:62,000 topographic quadrangle maps	Estimated resources	
		Acres of commercial-quality peat (peat that generally is at least 5 feet thick and has an ash content not exceeding 25 percent)	Short tons of air-dried peat (1 acre-foot = 200 short tons)
50	Bogs along Macwahoc Stream near Clay Bluff, northern T1 R4, Wytopitlock Quadrangle, Aroostook Co.	240 acres with average thickness of 10 feet	480,000
51	Bogs along Macwahoc Stream at junction with Juniper Brook, T1 R4W, Wytopitlock Quadrangle, Aroostook Co.	785 acres with average thickness of 10 feet	1,500,000
52	Bog near Middle Jo-Mary Lake in eastern TA R10, Norcross Quadrangle, Piscataquis Co.	60 acres with average thickness of 10 feet	120,000
53	Bog N of Cedar Mt., TA R8 + 9, Norcross Quadrangle, Penobscot Co.	80 acres with average thickness of 7 feet	112,000
54	Inman Bog, Woodville Twp., Millinocket Quadrangle, Penobscot Co.	225 acres with average thickness of 13 feet	585,000
55	Bog adjacent to Crossuntic Stream, Macwahoc and Kingman, Aroostook and Penobscot Co.	60 acres with average thickness of 15 feet	180,000
56	Swamp along Mattawamkeag River, Drew Twp., Wytopitlock Quadrangle, Penobscot Co.	2,390 acres with average thickness of 5 feet	2,390,000

Table 2. Proximate and ultimate analyses and heating value of 205 peat samples from Aroostook, Penobscot, and Piscataquis Counties, Maine, arranged according to site, station, and depth in core. [Analyses by U.S. Department of Energy (DOE); all percentages are by weight]

					Proximate analysis				Ultimate analysis					
						Moisture free			Moisture free					
Deposit number	Station number	DOE sample number	Type of peat	Depth (feet)	Moisture as received (%)	Volatile matter (%)	Fixed carbon (%)	Ash (%)	Hydrogen (%)	Carbon (%)	Nitrogen (%)	Sulfur (%)	Oxygen (%)	Heating value BTU/lb
1	1	K97613	Reed-sedge	1½-3	85.4	72.8	24.9	2.3	6.6	59.6	2.0	0.2	29.3	10689
	2	K97614	Reed-sedge	2½-4	87.2	71.2	26.9	1.9	5.6	60.8	1.5	0.2	30.1	10683
	3	K97615	Reed-sedge	2½-4	88.1	70.7	28.2	1.1	5.7	59.9	1.7	0.2	31.4	10491
		K97616	Reed-sedge	6½-8	90.4	69.6	27.2	3.2	5.5	57.1	2.1	0.2	31.9	9943
	4	K97617	Humus	2½-4	89.5	69.8	29.0	1.2	5.6	59.4	1.5	0.2	32.1	10214
	5	K97618	Sphagnum	6½-8	91.7	69.0	29.1	1.9	5.7	59.5	1.5	0.2	31.3	10193
	7	K97619	Humus	2½-4	88.9	70.5	28.4	1.1	5.7	58.7	1.6	0.2	32.7	10190
		K97620	Sphagnum	6½-8	91.0	68.1	28.2	3.7	5.5	56.7	2.1	0.2	31.9	9789
3	2	K97623	Humus	2½-4	87.0	69.3	28.3	2.4	5.4	60.3	1.8	0.2	30.0	10615
	4	K97624	Sphagnum	4-5	89.0	64.7	25.6	9.7	5.3	55.2	2.2	0.2	27.4	9616
4	2	K97621	Sphagnum	2½-4	90.6	67.2	29.5	3.3	5.3	55.1	1.6	0.3	34.5	9148
		K97622	Clayey peat	6½-8	88.3	37.1	6.8	56.1	2.9	23.6	2.0	0.8	14.7	4168
5	2	K97625	Sphagnum	2½-4	91.1	66.3	27.7	6.0	4.7	54.8	1.6	0.3	32.7	9317
	3	K97626	Sphagnum	2½-4	91.0	61.5	23.0	15.5	4.8	48.5	1.6	0.9	28.3	8318
	7	K97627	Sphagnum	2½-4	89.8	64.6	31.7	3.7	5.3	57.5	1.5	0.2	31.8	9791
		K97628	Peaty clay	6½-8	86.1	35.4	5.7	58.9	3.1	22.1	1.8	12.5	58.9	4008
6	1	K97604	Reed-sedge	2½-4	89.0	67.9	29.2	2.9	5.4	57.7	1.5	0.2	32.4	9853
		K97605	Clayey peat	7-8	89.9	44.7	9.2	46.1	3.4	30.2	2.4	1.4	16.4	5188
	3	K97606	Sphagnum	6½-10	92.2	68.8	25.9	5.3	4.7	56.3	2.6	0.5	30.7	9719
	6	K97607	Sphagnum	2½-4	90.4	70.4	28.0	1.6	5.8	57.7	1.6	0.2	33.2	9892
	9	K97608	Sphagnum	2½-4	92.4	69.5	28.7	1.8	5.4	55.7	1.1	0.1	35.9	9365
		K97609	Clayey peat	7-8	90.3	42.8	10.3	46.9	3.5	29.0	2.3	1.0	17.0	5054
	11	K97610	Sphagnum	2½-4	89.5	68.5	29.2	2.3	5.7	57.9	1.4	0.2	32.5	9667
		K97611	Reed-sedge	6½-8	92.3	63.8	27.7	8.5	5.1	55.3	2.1	0.5	28.5	9359
		K97612	Clayey peat	9-10	90.6	48.6	12.8	38.6	4.1	33.9	2.6	2.1	18.7	6052

Table 2. Proximate and ultimate analyses and heating value of 205 peat samples from Aroostook, Penobscot, and Piscataquis Counties, Maine, arranged according to site, station, and depth in core. (continued)

Deposit number	Station number	DOE sample number	Type of peat	Depth (feet)	Proximate analysis				Ultimate analysis					Heating value BTU/lb
					Moisture as received (%)	Moisture free			Moisture free					
						Volatile matter (%)	Fixed carbon (%)	Ash (%)	Hydrogen (%)	Carbon (%)	Nitrogen (%)	Sulfur (%)	Oxygen (%)	
7	1	K97018	Sphagnum	2½-4	90.8	70.6	27.5	1.9	5.6	52.3	1.4	0.2	38.6	8811
		K97019	Reed-sedge	6½-8	89.8	66.1	29.9	4.0	5.7	56.2	2.4	0.3	31.4	9686
		K97020	Clayey peat	10½-12	82.4	41.0	15.8	43.2	3.8	31.8	2.2	0.5	18.5	5664
	7	K97021	Clayey peat	2½-4	89.5	41.8	10.3	47.9	3.7	27.8	1.8	1.2	17.5	4910
		K97022	Clayey peat	6½-8	90.5	51.9	8.4	39.7				1.8		5384
		K97023	Peaty clay	10½-12	86.4	37.7	6.6	55.7				1.7		3667
	13	K97027	Sphagnum	2½-4	93.7	70.4	27.3	2.3	5.6	54.2	1.0	0.2	36.7	9217
	14	K97028	Sphagnum	2½-4	89.1	63.1	31.3	5.6	5.4	55.5	1.8	0.5	31.1	9409
8	1	K97013	Humus	1½-3	83.1	66.2	29.0	4.8	6.0	58.4	1.6	0.3	28.8	10295
	2	K97014	Reed-sedge	1	85.1	65.7	29.6	4.7	6.3	58.9	1.3	0.3	28.5	10413
	3	K97015	Reed-sedge	2	88.9	69.1	28.1	2.8	5.9	57.4	1.7	0.2	31.9	9963
	4	K97016	Reed-sedge	2½-4	81.9	59.3	26.4	14.3	5.6	51.1	1.6	0.3	27.1	9086
	7	K97017	Reed-sedge	2½-4	87.3	63.8	31.6	4.6	5.5	56.9	1.3	0.3	31.4	9771
10	1	K97011	Sphagnum	2½-4	88.6	64.0	30.9	5.1	5.9	56.1	1.6	0.2	31.2	9250
	2	K97012	Sphagnum	4-6½	88.7	63.4	31.7	4.9	5.8	55.7	1.8	0.4	31.3	9637
11	1	K96272	Clayey peat	6½-8	91.7	49.0	10.7	40.3	4.3	31.7	2.9	1.5	19.3	5792
	2	K96273	Sphagnum	2½-4	90.9	69.8	28.5	1.7	5.8	55.2	1.6	0.2	35.6	9512
	5	K96274	Sphagnum	2½-4	89.7	67.6	30.1	2.3	5.4	56.8	2.2	0.2	33.0	9705
	6	K96275	Reed-sedge	2½-4	89.3	66.6	31.2	2.2	5.6	57.9	1.7	0.2	32.4	9956
	8	K96276	Reed-sedge	2½-4	89.1	67.3	29.0	3.7	5.8	57.3	2.0	0.2	30.9	9826
	9	K96277	Reed-sedge	6½-8	90.8	67.9	26.9	5.2	5.7	54.8	1.9	0.4	32.1	9482
	10	K96278	Reed-sedge	2½-4	87.1	63.3	32.9	3.8	5.2	57.4	1.7	0.6	31.3	9556
12	1	K97004	Sphagnum	2½-4	89.1	66.0	31.6	2.4	5.7	58.4	2.2	0.3	30.8	9961
	2	K97005	Clayey peat	7	90.3	46.2	12.1	41.7	4.1	30.5	2.0	1.7	19.9	5451
13	3	K96279	Peaty clay	5	80.4	31.8	11.9	56.3	2.8	24.8	1.6	0.7	13.8	4190
	4	K96280	Peaty clay	6½-8	84.9	34.8	9.6	55.6	3.1	23.9	1.9	1.6	14.0	4212

Table 2. Proximate and ultimate analyses and heating value of 205 peat samples from Aroostook, Penobscot, and Piscataquis Counties, Maine, arranged according to site, station, and depth in core. (continued)

Deposit number	Station number	DOE sample number	Type of peat	Depth (feet)	Proximate analysis				Ultimate analysis					Heating value BTU/lb
					Moisture as received (%)	Moisture free			Moisture free					
						Volatile matter (%)	Fixed carbon (%)	Ash (%)	Hydrogen (%)	Carbon (%)	Nitrogen (%)	Sulfur (%)	Oxygen (%)	
13 con't	6	K96281	Peaty clay	6½-8	78.5	26.7	8.8	64.5	2.3	19.6	1.4	0.5	11.8	3302
14	1	K96993	Sphagnum	2½-4	90.9	70.4	27.6	2.0	5.8	54.5	1.4	0.2	36.1	9353
		K96994	Sphagnum	10½-12	88.2	65.0	30.7	4.3	5.4	56.8	1.7	0.6	31.1	9794
	2	K96995	Clayey peat	10½-12	92.7	51.4	18.3	30.3	4.6	39.8	2.6	0.8	21.9	7113
	3	K96996	Sphagnum	6½-8	91.5	69.6	28.5	1.9	5.8	55.6	1.2	0.2	35.3	9579
	4	K96997	Sphagnum	6½-8	92.2	70.7	28.0	1.3	6.0	55.4	1.3	0.2	35.8	9556
		K96998	Sphagnum	10½-12	93.7	62.5	23.0	14.5	5.5	48.3	2.5	0.8	28.3	8527
	5	K96999	Reed-sedge	6½-8	89.2	63.3	32.6	4.1	5.5	55.9	2.0	0.5	32.1	9798
		K97000	Clayey peat	10½-12	91.6	46.7	10.5	42.8	4.1	29.6	2.3	1.5	19.7	5220
	6	K97001	Reed-sedge	2½-4	91.1	67.7	30.2	2.1	5.8	56.1	1.6	0.2	34.2	9707
		K97002	Sphagnum	6½-8	88.8	65.3	30.9	3.6	5.6	56.0	1.6	0.3	32.6	9460
	7	K97003	Sphagnum	2½-4	89.8	68.2	28.1	3.7	5.9	56.0	1.9	0.2	32.3	9679
15	1	K97630	Sphagnum	2½-4	88.3	68.4	30.0	1.6	4.9	59.8	1.7	0.2	31.8	10102
		K97631	Reed-sedge	6½-8	90.5	62.1	32.5	5.4	4.8	56.1	1.9	0.4	31.5	9203
16	1	K97629	Reed-sedge	2½-4	87.5	70.1	28.5	1.4	6.2	61.5	1.5	0.2	29.2	10745
17	1	K96251	Sphagnum	2½-4	88.4	62.4	34.0	3.6	5.0	59.2	1.9	0.3	30.1	10333
		K96252	Clayey peat	6½-8	85.0	37.4	17.3	45.3	3.6	31.8	1.8	0.4	17.2	5346
		K96253	Peaty clay	10½-12	85.8	26.3	5.4	68.3	2.5	16.1	1.4	0.9	10.8	2825
	2	K96254	Reed-sedge	9	91.4	60.3	24.2	15.5	5.4	49.7	2.7	0.5	26.3	8691
	3	K96255	Sphagnum	2½-4	91.2	69.1	28.4	2.5	6.1	57.4	2.0	0.2	31.8	10053
		K96256	Sphagnum	6½-8	90.2	67.2	28.3	4.5	6.0	55.8	2.6	0.2	31.0	9584
		K96257	Clayey peat	10½-12	92.3	49.1	11.2	39.7	4.2	31.6	2.6	0.8	21.0	5573
	4	K96258	Sphagnum	2½-4	90.4	71.2	27.1	1.7	5.9	57.5	1.7	0.2	33.0	9883
		K96259	Sphagnum	6½-8	89.7	65.6	30.4	4.0	5.5	55.8	1.9	0.3	32.5	9402
		K96260	Clayey peat	11-12	92.1			36.5				0.9		5942
	5	K96261	Sphagnum	2½-4	88.2	64.8	31.3	3.9	5.5	57.9	2.1	0.2	30.4	10026
		K96262	Sphagnum	6½-8	88.1	66.2	29.8	4.0	5.6	55.4	2.2	0.2	32.6	9398

Table 2. Proximate and ultimate analyses and heating value of 205 peat samples from Aroostook, Penobscot, and Piscataquis Counties, Maine, arranged according to site, station, and depth in core. (continued)

Deposit number	Station number	DOE sample number	Type of peat	Depth (feet)	Proximate analysis				Ultimate analysis					Heating value BTU/lb
					Moisture as received (%)	Moisture free			Moisture free					
						Volatile matter (%)	Fixed carbon (%)	Ash (%)	Hydrogen (%)	Carbon (%)	Nitrogen (%)	Sulfur (%)	Oxygen (%)	
17 con't	5	K96263	Peaty clay	9½-11	89.4	38.1	8.4	53.5	3.4	24.2	2.1	0.9	15.9	4221
18	1	K96233	Reed-sedge	2½-4	89.4	62.9	31.9	5.2	5.3	55.8	2.2	0.3	31.3	9339
		K96234	Clayey peat	6½-8	91.1	46.4	13.4	40.2	4.3	32.2	2.6	0.5	20.2	5655
	2	K96235	Clavey peat	6½-8	94.1	54.0	17.4	28.6	4.7	39.5	2.8	0.5	23.9	6922
		K96236	Peaty clay	14½-16	88.7	33.1	6.2	60.7	3.2	19.9	1.7	0.7	13.8	3528
19	2	K97024	Sphagnum	2½-4	88.8	69.2	28.8	2.0	6.2	58.3	1.4	0.2	31.9	10343
	3	K97025	Sphagnum	6½-8	90.6	66.4	29.8	3.8	5.8	56.7	2.0	0.2	31.6	9899
23	1	K97006	Sphagnum	2½-4	87.3	58.9	28.7	12.4	4.9	51.1	2.1	0.5	29.0	8713
	2	K97007	Clayey peat	10½-12	91.0	47.3	11.1	41.6	4.1	29.3	2.5	0.8	21.8	5569
	3	K97008	Reed-sedge	2½-4	87.2	64.4	29.8	5.8	5.6	55.7	2.3	0.2	30.4	9388
	5	K97009	Reed-sedge	2½-4	91.3	67.0	29.5	3.5	5.5	54.7	1.9	0.4	33.9	8907
	6	K97010	Clayey peat	10½-12	88.2	43.5	16.9	39.6	4.2	34.3	2.2	0.5	19.3	5993
24	1	K97029	Clayey peat	2½-4	87.4	47.1	21.9	31.0	4.1	40.6	1.8	0.4	22.0	6837
	2	K97030	Clayey peat	6½-8	86.6	40.1	17.4	42.5	3.6	33.5	1.7	0.4	18.2	5716
		K97031	Clayey peat	10½-12	90.1	45.2	9.9	44.9	4.0	29.7	2.3	1.0	18.1	5301
	3	K97032	Clayey peat	10½-12	90.9	47.5	11.2	41.3	4.2	32.2	2.4	1.2	18.7	5715
	6	K97033	Reed-sedge	2½-4	85.2	64.5	32.5	3.0	5.5	58.2	1.5	0.2	31.5	9880
		K97034	Reed-sedge	6½-8	91.2	65.9	28.4	5.7	5.5	56.5	2.3	0.4	29.8	9758
	7	K97035	Clayey peat	10½-12	91.6			38.7				1.7		5791
25	2	K97598	Sphagnum	2½-4	92.1	70.1	28.3	1.6	5.0	55.1	1.2	0.1	36.9	9164
		K97599	Peaty clay	10½-12	85.8	42.9	9.1	48.1	3.5	29.1	2.3	0.7	16.4	5253
	4	K97600	Sphagnum	2½-4	88.5	65.9	31.0	3.1	5.0	58.7	1.7	0.2	3.14	10069
		K97601	Sphagnum	6½-8	89.3	62.7	32.7	4.6	5.3	57.6	2.2	0.3	30.1	9855
	7	K97602	Reed-sedge	6½-8	91.5	68.1	28.6	3.3	5.6	57.9	2.5	0.2	39.5	9991
	8	K97603	Reed-sedge	2½-4	89.9	69.5	29.3	1.2	4.8	59.2	1.4	0.1	33.3	10163

Table 2. Proximate and ultimate analyses and heating value of 205 peat samples from Aroostook, Penobscot, and Piscataquis Counties, Maine, arranged according to site, station, and depth in core. (continued)

Deposit number	Station number	DOE sample number	Type of peat	Depth (feet)	Proximate analysis				Ultimate analysis					Heating value BTU/lb
					Moisture as received (%)	Moisture free			Moisture free					
						Volatile matter (%)	Fixed carbon (%)	Ash (%)	Hydrogen (%)	Carbon (%)	Nitrogen (%)	Sulfur (%)	Oxygen (%)	
27	1	K96270	Reed-sedge	2½-4	89.2	64.7	31.7	3.6	5.1	57.4	2.3	0.3	31.2	9608
		K96271	Clayey peat	6½-7	90.9	48.8	10.4	40.8	4.1	31.7	2.7	1.4	19.3	5640
29	1	K96268	Sphagnum	2½-4	84.4	70.4	27.1	2.5	5.7	55.3	2.5	0.2	33.8	9514
		K96269	Sphagnum	4½-8	87.8	62.7	29.0	8.3	5.1	55.1	2.1	0.3	29.2	9514
30	1	K96287	Sphagnum	2½-4	88.9	66.9	28.3	4.8	4.5	56.1	1.9	0.2	32.5	9748
		K96288	Clayey peat	6½-8	88.5	43.7	19.1	37.2	3.2	37.5	2.1	0.5	19.4	6306
		K96289	Clayey peat	10½-12	91.9	47.4	10.4	42.2	2.6	32.4	2.9	1.9	18.7	5958
		K96290	Clayey peat	14½-16	93.1	59.9	11.7	28.4	4.4	38.9	3.4	1.8	23.1	7371
	2	K96291	Sphagnum	2½-4	89.9	72.9	25.2	1.9	5.3	55.8	1.9	0.2	34.8	9773
		K96292	Sphagnum	6½-8	89.1	69.8	27.7	2.5	5.9	56.2	2.2	0.3	32.9	9779
		K96293	Clayey peat	10½-12	90.1	43.4	7.2	49.4	3.8	27.7	2.6	1.1	15.3	5157
	3	K96294	Sphagnum	2½-4	90.8	71.2	27.6	1.2	5.4	56.2	1.4	0.2	35.6	9535
		K96294	Sphagnum	6½-8	89.7	68.8	29.2	2.0	5.8	57.5	1.6	0.2	32.8	9888
		K96296	Clayey peat	10½-12	90.4	47.0	10.4	42.6	4.0	31.3	2.7	0.8	18.5	5590
	4	K96297	Reed-sedge	2½-4	90.4	69.4	28.9	1.7	5.3	57.5	1.6	0.2	33.7	9773
		K96298	Reed-sedge	6½-8	92.0	63.5	25.5	11.0	5.3	51.8	2.7	0.5	28.8	9062
		K96299	Clayey peat	10½-12	91.8	60.4	13.5	26.1	4.9	40.2	3.5	1.9	23.5	7418
31	1	K96282	Reed-sedge	2½-4	87.4	62.7	30.8	6.5	5.1	55.0	2.9	0.7	29.9	9201
		K96283	Reed-sedge	6½-8	90.4	64.2	30.0	5.8	5.1	55.6	2.5	0.8	30.2	9650
		K96284	Clayey peat	8½-10	90.8	54.4	12.3	33.3	3.2	36.4	2.8	2.9	21.4	6622
	2	K96285	Reed-sedge	2½-4	87.4	64.0	30.8	5.2	5.4	55.6	2.9	0.8	30.0	9616
		K96286	Clayey peat	6½-8	89.6	46.8	11.2	42.0	3.6	32.0	2.4	1.7	18.3	5817
32	1	K96264	Clayey peat	2½-4	88.0	38.7	9.6	51.7	3.4	26.8	2.1	0.8	15.3	4727
	2	K96265	Sphagnum	2½-4	88.8	69.8	27.7	2.5	5.8	55.8	1.7	0.2	34.0	9357
		K96266	Peaty clay	6½-8	88.1	36.0	7.5	56.5	3.1	23.3	2.2	0.7	14.3	4120
	3	K96267	Reed-sedge	2½-4	89.9	65.1	32.6	2.3	5.2	58.0	1.7	0.2	32.7	9716

Table 2. Proximate and ultimate analyses and heating value of 205 peat samples from Aroostook, Penobscot, and Piscataquis Counties, Maine, arranged according to site, station, and depth in core. (continued)

Deposit number	Station number	DOE sample number	Type of peat	Depth (feet)	Proximate analysis				Ultimate analysis					Heating value BTU/lb
					Moisture as received (%)	Moisture free			Moisture free					
						Volatile matter (%)	Fixed carbon (%)	Ash (%)	Hydrogen (%)	Carbon (%)	Nitrogen (%)	Sulfur (%)	Oxygen (%)	
35	2	K97632	Sphagnum	2½-4	86.5	67.8	27.9	4.3	5.7	59.1	1.9	0.2	28.9	10299
36	1	K96237	Reed-sedge	2½-4	88.5	68.7	26.2	5.1	6.2	55.5	3.1	0.4	29.8	9459
		K96238	Reed-sedge	6½-8	88.3	63.8	29.3	6.9	5.7	54.2	1.8	0.7	30.7	9092
		K96239	Reed-sedge	10½-12	89.3	54.2	23.5	22.3	5.0	46.4	2.3	1.7	22.4	7981
	2	K96240	Sphagnum	2½-4	90.8	70.1	29.1	0.8	5.9	54.3	1.0	0.2	37.7	8772
		K96241	Sphagnum	6½-8	90.2	69.4	29.0	1.6	5.8	54.0	1.0	0.3	37.2	9022
		K96242	Sphagnum	10½-12	90.0	68.0	29.5	2.5	5.8	56.7	1.8	0.4	32.8	9074
		K96243	Reed-sedge	14½-16	94.2	72.7	16.8	10.5	6.2	50.1	4.7	1.3	27.1	9180
37	1	K96244	Sphagnum	5	84.9	66.2	29.1	4.7	5.8	55.0	2.7	0.6	31.2	9353
		K96245	Reed-sedge	8	91.6	65.1	14.3	20.6	5.5	43.1	3.7	2.3	24.8	7815
	2	K96246	Humus	5	84.8	55.2	21.8	23.0	4.8	46.3	2.7	3.0	20.2	7993
	3	K96247	Reed-sedge	5	90.1	64.6	28.7	6.7	5.5	54.3	3.2	0.9	24.4	9408
	4	K96248	Reed-sedge	5	90.9	58.7	28.5	12.8	4.7	51.1	2.2	1.5	27.7	8451
	5	K96249	Reed-sedge	5	85.5	63.4	32.1	4.5	5.7	54.6	2.5	0.3	32.5	9417
	6	K96250	Reed-sedge	2½-4	88.3	63.1	34.6	2.3	5.7	59.3	1.7	0.3	30.6	10022
39	1	K96064	Clayey peat	5	91.4	43.7	14.2	42.1	3.9	33.2	2.2	0.4	18.2	5732
		K96065	Clayey peat	9	89.3	36.2	10.8	53.0	3.4	26.8	1.9	0.4	14.6	4695
	2	K96066	Sphagnum	5	94.4	69.3	27.7	3.0	5.5	55.3	1.6	0.2	34.4	9439
		K96067	Clayey peat	13	92.3	43.9	11.1	45.0	3.5	30.6	2.2	0.5	18.2	5419
		K96068	Peaty clay	17	91.1	38.4	9.5	52.1	3.3	25.4	2.0	0.7	16.4	4553
40	1	K96094	Sphagnum	2½-4	88.9	68.5	29.5	2.0	6.2	60.0	1.8	0.2	29.9	10647
		K96095	Sphagnum	7-8	88.5	68.0	29.9	2.1	6.1	60.2	1.8	0.3	29.5	10458
41	1	K96093	Reed-sedge	2½-4	83.1	70.0	25.7	4.3	6.7	60.1	1.6	0.3	27.1	10655

Table 2. Proximate and ultimate analyses and heating value of 205 peat samples from Aroostook, Penobscot, and Piscataquis Counties, Maine, arranged according to site, station, and depth in core. (continued)

Deposit number	Station number	DOE sample number	Type of peat	Depth (feet)	Proximate analysis				Ultimate analysis					Heating value BTU/lb
					Moisture as received (%)	Moisture free			Moisture free					
						Volatile matter (%)	Fixed carbon (%)	Ash (%)	Hydrogen (%)	Carbon (%)	Nitrogen (%)	Sulfur (%)	Oxygen (%)	
42	1	K96074	Sphagnum	2½-4	91.3	69.2	28.1	2.7	5.5	58.0	2.0	0.3	31.5	10049
		K96075	Reed-sedge	6½-8	88.0	60.1	33.2	6.7	5.4	56.5	1.8	1.0	28.5	9617
	2	K96076	Sphagnum	6½-8	91.6	69.4	29.6	1.0	5.8	56.6	1.4	0.2	35.1	9712
43	1	K96083	Reed-sedge	2½-4	87.8	62.3	33.5	4.2	5.2	56.7	1.9	0.3	31.7	9537
		K96084	Reed-sedge	10½-12	90.4	63.8	26.7	9.5	5.4	53.3	3.2	0.8	27.8	9288
		K96085	Reed-sedge	14½-16	92.4	62.5	24.6	12.9	5.3	50.6	3.4	1.1	26.6	8979
	2	K96086	Sphagnum	10½-12	92.1	68.5	28.9	2.6	6.0	57.5	1.8	0.3	31.9	9825
	3	K96087	Clayey peat	6½-8	92.3	56.4	18.1	25.5	4.3	42.4	2.9	0.7	24.2	7504
	4	K96088	Reed-sedge	2½-4	88.6	63.8	31.7	4.5	5.2	57.8	1.9	0.5	30.1	9887
44	1	K96089	Reed-sedge	6½-8	93.9	59.0	16.8	24.2	4.8	42.6	3.3	0.9	24.2	7520
	2	K96090	Reed-sedge	6½-8	87.9	56.8	25.9	17.3	4.6	48.0	2.3	0.6	27.3	8122
		K96091	Clayey peat	12½-16	92.1	57.9	15.4	26.7	5.3	40.7	3.2	1.3	22.8	7413
	3	K96092	Reed-sedge	6½-8	89.5	60.0	28.7	11.3	5.2	52.1	2.5	0.7	28.2	8811
45	1	K96079	Reed-sedge	1-2½	85.3	52.5	22.2	25.3	4.4	42.9	2.6	0.4	24.2	7252
		K96080	Reed-sedge	11	91.1	61.2	25.4	13.4	5.2	51.4	3.0	1.1	26.0	9049
		K96081	Reed-sedge	15	92.9	60.4	14.6	25.0	5.3	40.4	3.3	2.1	23.9	7283
	5	K96082	Reed-sedge	2½-4	88.0	60.9	33.7	5.4	5.2	57.2	1.4	0.3	30.5	9508
49	1	K96050	Reed-sedge	2½-4	88.5	60.4	33.2	6.4	5.0	57.2	1.9	0.4	29.1	9621
	2	K96051	Sphagnum	2½-4	90.3	72.7	25.2	2.1	5.7	53.9	1.4	0.4	36.6	9034
		K96052	Sphagnum	6½-8	90.5	63.8	30.8	5.4	5.1	55.9	1.5	0.3	31.8	9340
		K96053	Clayey peat	14½-16	90.5	46.6	21.6	31.8	4.2	39.8	1.8	0.5	21.8	6755
	5	K96054	Reed-sedge	6½-8	90.1	55.8	26.5	17.7	4.9	47.6	2.0	0.5	27.4	8116
		K96055	Clayey peat	14½-16	89.3	45.0	18.3	36.7	3.9	37.3	1.9	0.6	19.6	6375
50	1	K96041	Clayey peat	6½-8	84.7	41.1	18.8	40.1	3.6	35.2	1.7	0.7	18.7	5906
	3	K96042	Sphagnum	2½-4	91.3	70.1	28.7	1.2	5.5	54.1	1.2	0.2	37.9	9040

Table 2. Proximate and ultimate analyses and heating value of 205 peat samples from Aroostook, Penobscot, and Piscataquis Counties, Maine, arranged according to site, station, and depth in core. (continued)

Deposit number	Station number	DOE sample number	Type of peat	Depth (feet)	Proximate analysis				Ultimate analysis					Heating value BTU/lb
					Moisture as received (%)	Moisture free			Moisture free					
						Volatile matter (%)	Fixed carbon (%)	Ash (%)	Hydrogen (%)	Carbon (%)	Nitrogen (%)	Sulfur (%)	Oxygen (%)	
50 con't	3	K96043	Reed-sedge	14½-16	93.1	63.1	14.9	22.0	5.4	42.1	3.3	3.0	24.3	7685
	5	K96044	Sphagnum	2½-4	91.8	72.4	26.1	1.5	5.8	54.7	1.6	0.3	36.2	9221
		K96045	Sphagnum	10½-12	90.8	68.7	28.3	3.0	5.8	57.0	2.6	0.4	31.1	10005
51	1	K96034	Sphagnum	2½-4	89.3	65.8	29.5	4.7	5.3	56.7	1.9	0.3	31.1	9329
		K96035	Reed-sedge	10½-12	90.3	64.6	27.6	7.8	5.4	55.3	2.4	0.6	28.5	9522
		K96036	Clayey peat	17	91.2	54.5	9.6	35.9	4.4	33.8	2.7	1.5	21.7	6069
	2	K96037	Reed-sedge	6½-8	89.6	62.7	26.8	10.5	5.0	52.1	2.5	0.6	29.2	8926
		K96038	Clayey peat	13	92.7	48.1	16.9	35.0	4.3	37.6	2.2	0.7	20.1	6521
		K96039	Reed-sedge	17	93.7	60.2	14.8	25.0	5.2	40.5	3.4	1.8	24.1	7236
	3	K96040	Clayey peat	6½-8	87.2	40.6	17.5	41.9	3.6	33.5	1.9	0.5	18.6	5687
52	1	K96077	Sphagnum	5	91.7	68.1	30.0	1.9	5.8	56.8	1.3	0.1	34.1	9584
	3	K96078	Sphagnum	10½	90.2	66.6	28.6	4.8	5.9	60.6	1.5	0.2	27.0	10679
53	1	K96069	Sphagnum	5	94.0	71.7	27.2	1.7	5.7	54.7	1.1	0.2	36.6	9235
	2	K96070	Sphagnum	5	91.7	70.2	28.7	1.1	5.4	55.6	0.9	0.2	36.9	9266
54	2	K96056	Reed-sedge	2½-4	92.6	70.5	28.8	0.7	5.7	54.2	1.0	0.2	38.1	8966
		K96057	Sphagnum	10½-12	91.1	67.7	31.2	1.1	5.9	57.6	1.2	0.2	34.0	9850
	4	K96058	Reed-sedge	2½-4	91.1	67.9	30.6	1.5	5.8	56.6	1.3	0.2	34.5	9576
		K96059	Reed-sedge	10½-12	92.6	67.2	31.1	1.7	5.6	56.6	1.0	0.2	35.0	9368
	5	K96060	Sphagnum	2½-4	90.2	70.0	29.3	0.7	5.9	56.0	1.3	0.2	36.1	9552
		K96061	Sphagnum	10½-12	91.2	70.1	28.8	1.1	5.8	56.8	1.4	0.2	34.6	9887
		K96062	Sphagnum	13	92.4	72.8	26.2	1.0	5.6	53.8	1.2	0.2	38.2	9039
	6	K96063	Sphagnum	10½-12	90.7	63.8	32.6	3.6	5.2	58.3	1.5	0.4	31.0	9894

Table 2. Proximate and ultimate analyses and heating value of 205 peat samples from Aroostook, Penobscot, and Piscataquis Counties, Maine, arranged according to site, station, and depth in core. (continued)

Deposit number	Station number	DOE sample number	Type of peat	Depth (feet)	Proximate analysis				Ultimate analysis					Heating value BTU/lb
					Moisture as received (%)	Moisture free			Moisture free					
						Volatile matter (%)	Fixed carbon (%)	Ash (%)	Hydrogen (%)	Carbon (%)	Nitrogen (%)	Sulfur (%)	Oxygen (%)	
55	1	K96046	Sphagnum	2½-4	90.3	63.3	30.9	5.8	5.3	56.3	1.8	0.3	30.4	9571
		K96047	Reed-sedge	10½-11	88.7	55.3	29.7	15.0	4.6	51.0	2.0	0.7	26.7	8666
	2	K96048	Sphagnum	6½-8	92.1	68.3	30.6	1.1	5.6	57.2	1.0	0.2	34.9	9726
		K96049	Sphagnum	10½-12	93.4	68.0	30.6	1.4	5.5	58.0	1.5	0.3	33.3	9746
56	1	K96071	Clayey peat	5	82.7	37.7	13.3	49.0	3.2	29.8	1.7	0.5	15.7	5113
	2	K96072	Clayey peat	5	83.4	40.5	14.0	45.5	3.4	31.0	2.1	0.4	17.6	5266
	3	K96073	Clayey peat	5	85.0	43.6	17.9	38.5	3.6	36.1	2.0	0.5	19.3	6126

Table 3. Ash and moisture contents and pH of 793 samples from 39 peat deposits in Aroostook, Penobscot, and Piscataquis Counties, Maine, arranged according to deposit, station, and depth in core. [Analyses by Roosevelt Moore, Stanley Fleming, Joseph L. Harris, and D. W. Golightly, U.S. Geological Survey]

Deposit Number	Station Number	Sample Number USGS 79-	Type of Peat	Depth (in feet)	pH	Weight percent ash (moisture free)	Weight percent moisture as received
1	1	689	Sphagnum	1½-3	4.75	2.19	85.86
	2	690	Reed-sedge	2½-4	4.18	1.28	87.53
		691	Reed-sedge	5½-6	4.55	3.22	90.38
		692	Peaty clay	6-6½	4.75	68.73	71.20
	3	693	Reed-sedge	2½-4	4.00	0.98	87.78
		694	Reed-sedge	6½-8	4.45	3.22	89.97
		695	Clayey peat	9	4.75	38.38	78.39
	4	696	Sphagnum	2½-4	4.22	0.74	85.51
		697	Sphagnum	6½-8	4.45	2.91	90.37
		698	Peaty clay	10½	4.40	57.12	70.17
	5	699	Sphagnum	2½-4	4.10	0.89	88.33
		700	Sphagnum	6½-8	4.30	5.92	90.44
		701	Sphagnum	9½-11	5.10	3.00	90.78
		702	Clay	11	4.50	90.51	36.08
	6	703	Sphagnum	2½-4	4.25	1.03	90.59
		704	Sphagnum	6½-8	4.22	2.99	90.65
		705	Sphagnum	9½-10½	4.70	4.80	90.76
		706	Reed-sedge	10½-11	4.30	21.21	86.50
	7	707	Humus	2½-4	4.12	1.22	87.97
		708	Sphagnum	6½-8	4.80	3.60	91.38
		709	Sphagnum	7½-8½	5.00	7.97	89.29
		710	Peaty clay	8½-8 3/4	5.20	70.26	68.27
	8	711	Sphagnum	2½-4	4.18	1.15	88.97
		712	Sphagnum	8-9	5.20	7.22	89.93
		713	Sphagnum	9	5.07	13.14	84.81
	9	714	Sphagnum	2½-4	4.10	1.93	87.94
		715	Reed-sedge	6½-8	5.10	22.39	87.23
		716	Peaty clay	8	5.15	61.28	75.93
	10	717	Sphagnum	2½	3.94	1.54	88.33
		718	Reed-sedge	7½-8	3.59	11.30	87.76
		719	Peaty clay	8½	3.01	76.43	78.73
2	1	720	Reed-sedge	1½-3	5.56	2.95	84.18
	2	721	Humus	1½-3	5.07	4.69	87.96
	3	722	Reed-sedge	1½-3	4.60	2.93	86.25
	4	723	Reed-sedge	2½-4	4.88	4.13	85.16

Table 3. Ash and moisture contents and pH of 793 samples from 39 peat deposits in Aroostook, Penobscot, and Piscataquis Counties, Maine, arranged according to deposit, station, and depth in core. [Analyses by Roosevelt Moore, Stanley Fleming, Joseph L. Harris, and D. W. Golightly, U.S. Geological Survey]

Deposit Number	Station Number	Sample Number USGS 79-	Type of Peat	Depth (in feet)	pH	Weight Percent ash (moisture free)	Weight percent moisture as received
2 con't	5	724	Reed-sedge	5	5.00	8.18	86.31
	6	725	Humus	2-3	4.75	4.99	84.91
	7	726	Humus	2-3	4.70	8.24	81.35
3	1	750	Humus	2½-4	5.00	2.64	87.01
	2	751	Humus	2½-4	4.90	1.09	86.89
		752	Humus	4-5	5.86	12.26	82.43
	3	753	Reed-sedge	2½-4	4.40	1.71	87.54
		754	Sphagnum	4-5½	5.48	4.40	79.43
	4	755	Sphagnum	2½-4	4.52	3.03	86.27
		756	Sphagnum	4-5	5.71	11.62	88.52
		757	Peaty clay	5¼	4.50	67.72	76.72
	5	758	Sphagnum	2½-4	4.72	8.18	83.53
		759	Sphagnum	4	5.05	10.13	85.62
4	1	727	Sphagnum	2½-4	5.50	15.91	91.53
		728	Clayey peat	6½-8	5.60	49.19	90.11
		729	Peaty clay	10½-12	4.48	54.14	91.15
		730	Clayey peat	14½-16	4.30	46.39	89.38
		731	Peaty clay	18½-20	3.80	55.28	90.88
		732	Clay	22½-24	6.03	93.83	55.39
		733	Clay	25½-27	8.48	97.85	11.51
	2	734	Sphagnum	2½-4	5.32	18.56	90.63
		735	Peaty clay	6½-8	5.74	57.93	87.13
		736	Clay	10½-11	7.90	93.70	55.63
	3	737	Sphagnum	2½-4	5.64	7.35	90.16
		738	Peaty clay	6½-8	4.63	54.80	90.25
		739	Clay	10½-12	7.70	92.00	64.11
		740	Clay	12½-14	3.70	94.31	50.06
	4	741	Sphagnum	1-3½	5.58	18.43	88.06
	5	742	Reed-sedge	2½-4	5.35	9.45	92.91
		743	Peaty clay	6½-8	4.85	59.65	88.90
		744	Peaty clay	10½-12	4.08	59.17	89.89
		745	Clay	14½-16	3.60	94.69	53.97
		746	Clay	16½-18	4.49	96.30	42.02

Table 3. Ash and moisture contents and pH of 793 samples from 39 peat deposits in Aroostook, Penobscot, and Piscataquis Counties, Maine, arranged according to deposit, station, and depth in core. [Analyses by Roosevelt Moore, Stanley Fleming, Joseph L. Harris, and D. W. Golightly, U.S. Geological Survey]

Deposit Number	Station Number	Sample Number USGS 79-	Type of Peat	Depth (in feet)	pH	Weight percent ash (moisture free)	Weight percent moisture as received
4 con't	6	747	Peaty clay	2½-4	5.22	57.35	87.77
		748	Peaty clay	6½-8	3.95	54.61	90.48
		749	Clay	10½-12	7.71	96.11	42.33
5	1	760	Clayey peat	5	5.25	25.37	86.77
		761	Peaty clay	6-7	4.85	52.76	84.39
	2	762	Sphagnum	2½-4	5.46	4.21	89.42
		763	Clayey peat	5-6½	4.88	44.77	85.91
	3	764	Sphagnum	2½-4	5.00	7.16	86.83
	4	765	Sphagnum	2½-4	4.85	3.09	87.18
		766	Sphagnum	6½-7½	7.74	7.83	91.91
	5	767	Sphagnum	2½-4	4.45	1.61	87.80
		768	Clayey peat	6½-8	5.73	47.52	91.26
		769	Clayey peat	8½-9	4.80	45.82	85.92
	6	770	Reed-sedge	2½-4	4.14	2.06	86.23
		771	Reed-sedge	4-5	4.50	7.46	85.39
	7	772	Sphagnum	2½-4	5.50	3.61	88.37
		773	Peaty clay	6½-8	4.10	63.52	83.45
		774	Clay	10½-12	7.64	95.57	45.50
6	1	650	Reed-sedge	2½-4	4.85	2.79	88.67
		651	Clayey peat	7-8	3.40	48.70	89.34
		652	Peaty clay	10½	3.30	89.36	54.59
	2	653	Sphagnum	2½-4	4.40	1.36	90.15
		654	Sphagnum	6½-8	5.71	4.56	90.78
		655	Clayey peat	10½-12	3.12	50.74	89.71
		656	Peaty clay	12½-13½	3.30	60.98	85.92
	3	657	Sphagnum	2½-4	5.08	2.03	89.65
		658	Sphagnum	6½-10	6.15	4.52	90.77
		659	Peaty clay	10½-12	3.60	62.38	86.94
	4	660	Sphagnum	2½-4	4.52	1.57	88.76
		661	Sphagnum	5-6½	5.10	3.64	91.49
		662	Clayey peat	10½-11	3.30	45.69	90.87
		663	Peaty clay	11½-12	3.18	60.62	86.11

Table 3. Ash and moisture contents and pH of 793 samples from 39 peat deposits in Aroostook, Penobscot, and Piscataquis Counties, Maine, arranged according to deposit, station, and depth in core. [Analyses by Roosevelt Moore, Stanley Fleming, Joseph L. Harris, and D. W. Golightly, U.S. Geological Survey]

Deposit Number	Station Number	Sample Number USGS 79-	Type of Peat	Depth (in feet)	pH	Weight percent ash (moisture free)	Weight percent moisture as received
6 con't	5	664	Sphagnum	2½-4	4.20	1.29	89.66
		665	Reed-sedge	6½-8	4.17	2.66	92.22
		666	Peaty clay	8-9	3.32	56.12	88.57
		667	Peaty clay	9-9½	3.20	80.88	71.81
	6	668	Sphagnum	2½-4	4.70	1.98	88.74
		669	Clayey peat	7½-8	5.30	32.08	91.32
		670	Peaty clay	8½-9½	3.30	55.86	87.79
	7	671	Sphagnum	2½-4	4.60	1.95	91.19
		672	Sphagnum	6½-8	5.70	4.20	91.19
		673	Clayey peat	8½-9	3.31	41.51	91.28
		674	Peaty clay	9-10	3.11	58.32	85.73
	8	675	Sphagnum	2½-4	5.25	1.77	89.84
		676	Clayey peat	7-8	3.65	37.50	91.26
		677	Peaty clay	9	3.30	89.31	60.95
	9	678	Sphagnum	2½-4	4.49	2.71	92.24
		679	Clayey peat	7-8	4.29	50.74	90.93
		680	Peaty clay	9½	3.25	62.85	87.84
	10	681	Sphagnum	2½-4	4.45	0.43	89.11
		682	Sphagnum	6½-8	4.71	3.05	90.21
		683	Clayey peat	8½-10	3.30	49.65	89.57
		684	Peaty clay	11	3.31	89.93	59.79
	11	685	Sphagnum	2½-4	4.56	1.76	89.41
		686	Reed-sedge	6½-8	5.73	13.78	90.79
		688	Peaty clay	9½-10½	3.30	62.18	84.76
7	1	494	Sphagnum	2½-4	4.85	1.52	92.08
		495	Reed-sedge	6½-8	5.80	3.42	89.53
		496	Clayey peat	10½-12	5.82	43.40	85.77
		497	Clayey peat	14½-16	5.03	43.65	90.72
		498	Clayey peat	18½-20	4.20	47.89	89.25
		499	Clayey peat	21	3.18	33.89	88.36
		500	Peaty clay	21	3.15	86.11	69.40
	2	501	Clay	28	8.64	95.78	23.70
	3	502	Sphagnum	2½-4	4.00	2.57	93.00
		503	Sphagnum	6½-8	5.30	3.90	91.96
		504	Reed-sedge	10½-12	5.60	15.71	89.67
		505	Clayey peat	14½-16	5.18	42.86	91.66
		506	Peaty clay	18½-20	3.08	54.00	87.63
		507	Clay	22½-24	5.08	97.96	22.55
		508	Clay	24	8.70	98.65	10.08

Table 3. Ash and moisture contents and pH of 793 samples from 39 peat deposits in Aroostook, Penobscot, and Piscataquis Counties, Maine, arranged according to deposit, station, and depth in core. [Analyses by Roosevelt Moore, Stanley Fleming, Joseph L. Harris, and D. W. Golightly, U.S. Geological Survey]

Deposit Number	Station Number	Sample Number USGS 79-	Type of Peat	Depth (in feet)	pH	Weight percent ash (moisture free)	Weight percent moisture as received
7- con't	4	509	Sphagnum	2½-4	4.58	2.79	91.75
		510	Sphagnum	6½-8	5.08	1.19	91.63
		511	Clayey peat	10½-12	5.80	48.71	89.90
		512	Clayey peat	14½-16	3.32	47.57	88.76
		513	Peaty clay	18½-19	3.45	88.72	66.48
		514	Clay	19-19½	6.30	95.39	29.30
	5	515	Sphagnum	2½-4	4.65	3.73	92.32
		516	Clayey peat	6½-8	5.15	47.51	86.65
		517	Clayey peat	10½-12	3.82	48.93	91.36
		518	Clay	14½-16	3.25	97.15	33.57
	6	519	Peaty clay	2½	5.38	80.66	62.07
		520	Peaty clay	2½-3	5.50	58.90	82.93
	7	521	Peaty clay	2½-4	5.49	60.77	82.90
		522	Clayey peat	6½-8	4.50	50.64	86.47
		523	Clay	10½-12	3.10	97.30	30.80
	8	524	Peaty clay	3	6.05	61.86	82.00
		525	Peaty clay	5	6.05	63.12	81.39
		526	Peaty clay	9	6.24	63.10	85.44
		527	Clayey peat	11	4.52	43.00	91.78
		528	Peaty clay	13	3.75	51.16	90.38
		529	Clayey peat	15	2.90	44.09	91.59
		530	Clayey peat	17	3.19	44.47	90.95
		531	Peaty clay	19	3.25	64.00	86.48
	9	532	Peaty clay	2½-4	5.40	53.07	81.43
		533	Peaty clay	6½-8	5.19	62.48	80.03
		534	Peaty clay	10½-12	5.35	62.04	84.27
		535	Peaty clay	14½-16	4.49	60.92	85.39
		536	Peaty clay	18½-20	3.94	51.49	87.82
		537	Peaty clay	21	3.88	50.87	87.37
		538	Clayey peat	25	3.51	40.85	88.98
		539	Peaty clay	27	3.44	63.87	82.46
		540	Clayey peat	31	3.50	46.51	88.72
		541	Clay	35	4.63	98.19	17.62
	10	542	Sphagnum	2½-4	4.62	2.05	92.02
		543	Sphagnum	6½-8	4.99	3.94	91.54
		544	Clayey peat	10½-12	5.38	50.29	88.69
		545	Clayey peat	14½-16	4.16	48.22	90.14
		546	Clayey peat	18½-20	3.68	42.47	91.46
		547	Clayey peat	22½-24	3.07	35.83	91.77
		548	Clayey peat	26½-28	3.27	44.25	89.82
		549	Peaty clay	30½-32	2.93	60.47	84.80
		550	Peaty clay	37	2.97	84.75	70.16

Table 3. Ash and moisture contents and pH of 773 samples from 39 peat deposits in Aroostook, Penobscot, and Piscataquis Counties, Maine, arranged according to deposit, station, and depth in core. [Analyses by Roosevelt Moore, Stanley Fleming, Joseph L. Harris, and D. W. Golightly, U.S. Geological Survey]

Deposit Number	Station Number	Sample Number USGS 79-	Type of Peat	Depth (in feet)	pH	Weight percent ash (moisture free)	Weight percent moisture as received
7 con't	11	551	Sphagnum	2½-4	4.52	1.05	93.69
		552	Sphagnum	6½-8	4.60	1.46	93.83
		553	Clayey peat	10½-12	4.96	33.54	90.94
		554	Clayey peat	14½-16	4.12	43.38	90.93
		555	Clayey peat	18½-20	3.50	49.20	90.39
		556	Clayey peat	22½-24	3.00	36.74	92.43
		557	Peaty Clay	26½-28	3.22	59.34	86.21
		558	Clayey peat	30½-32	3.20	48.11	90.31
		559	Peaty clay	37	2.88	87.55	63.65
	12	560	Reed-sedge	2½-4	4.30	1.26	90.17
		561	Peaty clay	6½-8	3.40	55.37	86.82
		562	Peaty clay	8½-10	2.85	81.51	73.75
		563	Clay	10½-11	3.22	98.39	19.75
	13	580	Sphagnum	2½-4	4.05	2.71	92.39
		581	Clayey peat	6½-7	3.60	44.23	88.96
		582	Peaty clay	9	2.80	81.49	69.42
	14	583	Sphagnum	2½-4	4.23	4.66	88.19
		584	Peaty clay	6½-8	3.78	60.82	84.99
		585	Clay	8½-9	3.30	93.80	41.43
	15	586	Humus	1	3.85	3.18	84.79
		587	Peaty clay	2½-4	4.32	75.65	65.65
	16	588	Sphagnum	2½-4	5.00	2.72	91.05
		589	Sphagnum	6½-8	5.56	5.93	91.54
		590	Clayey peat	10½-12	5.60	31.38	90.99
		591	Peaty clay	14½-16	3.20	57.46	91.85
		592	Peaty clay	18½-20	2.98	83.60	71.66
	17	593	Reed-sedge	2½-4	4.15	1.43	91.60
		594	Reed-sedge	6½-7	4.48	2.54	90.67
		595	Clayey peat	7-8	3.32	34.96	90.34
		596	Peaty clay	8-8½	3.08	84.56	70.52
	18	597	Clayey peat	2½-4	5.15	50.87	83.02
		598	Peaty clay	6½-7	3.05	74.69	75.78
		599	Clay	7-8	3.08	90.02	55.42
8	1	461	Humus	1½-3	4.50	6.50	82.05
		462	Reed-sedge	3-3½	4.49	4.68	90.82
	2	463	Reed-sedge	1	4.35	4.29	84.30
	3	464	Reed-sedge	2	4.35	1.84	86.80
		465	Reed-sedge	3½-4	4.40	2.43	87.29
		466	Reed-sedge	3½-4½	4.40	3.36	84.94

Table 3. Ash and moisture contents and pH of 793 samples from 39 peat deposits in Aroostook, Penobscot, and Piscataquis Counties, Maine, arranged according to deposit, station, and depth in core. [Analyses by Roosevelt Moore, Stanley Fleming, Joseph L. Harris, and D. W. Colightly, U.S. Geological Survey]

Deposit Number	Station Number	Sample Number USGS 79-	Type of Peat	Depth (in feet)	pH	Weight percent ash (moisture free)	Weight percent moisture as received
8 -- con't	4	467	Reed-sedge	2	4.40	3.93	85.61
		468	Reed-sedge	2½-4	4.40	8.46	81.12
		469	Reed-sedge	4½-5	4.67	16.54	87.00
	5	470	Reed-sedge	2	3.95	1.23	87.76
		471	Reed-sedge	2½-4	3.93	2.42	85.53
		472	Reed-sedge	5-6	4.60	1.74	90.04
		473	Clayey peat	7-7½	3.10	47.90	86.36
		474	Peaty clay	8	3.10	74.43	67.52
	6	475	Reed-sedge	2½-4	4.80	4.05	83.05
		476	Peaty clay	4-4½	3.52	70.83	78.17
	7	477	Reed-sedge	2	4.10	6.00	84.17
		478	Reed-sedge	2½-4	4.10	6.35	87.35
		479	Reed-sedge	4½-5	4.50	17.88	96.85
		480	Peaty clay	5-6	3.40	72.72	75.94
		481	Clay	7	3.30	96.30	35.87
	8	482	Reed-sedge	2	4.20	1.88	87.75
		483	Reed-sedge	2½-4	3.70	12.52	86.10
		484	Reed-sedge	5-6	4.15	5.21	87.98
		485	Reed-sedge	6½-7	4.40	2.05	92.07
		486	Peaty clay	7-8	3.50	59.43	84.10
		487	Peaty clay	8	3.00	87.70	55.28
		488	Clay	8½-9	3.20	97.41	27.81
	9	489	Reed-sedge	2	3.94	1.19	86.80
		490	Reed-sedge	2½-4	3.68	1.56	86.09
		491	Reed-sedge	5½-6	4.00	1.81	91.54
		492	Peaty clay	7½-7 3/4	3.34	65.21	77.50
		493	Clay	7 3/4-8	3.97	97.02	19.24
9	1	366	Peaty clay	0-1	5.89	61.06	72.63
		367	Peaty clay	1-2	5.68	72.33	59.22
		368	Clayey peat	2-3	6.24	26.85	41.49
	2	369	Peaty clay	0-1	5.85	64.33	70.71
		370	Peaty clay	1-2	5.68	79.01	66.33
		371	Peaty clay	2-3	5.76	64.04	60.69
		372	Reed-sedge	3	6.11	24.35	37.37
	3	373	Peaty clay	0-1	6.10	65.85	70.30
		374	Peaty clay	1-2	5.60	73.55	60.53
		375	Peaty clay	2-3	5.87	63.07	69.83
		376	Peaty clay	3	5.80	66.14	39.08

Table 3. Ash and moisture contents and pH of 793 samples from 39 peat deposits in Aroostook, Penobscot, and Piscataquis Counties, Maine, arranged according to deposit, station, and depth in core. [Analyses by Roosevelt Moore, Stanley Fleming, Joseph L. Harris, and D. W. Golightly, U.S. Geological Survey]

Deposit Number	Station Number	Sample Number USGS 79-	Type of Peat	Depth (in feet)	pH	Weight percent ash (moisture free)	Weight percent moisture as received
10	1	402	Clay	4	5.67	92.97	59.40
		403	Sphagnum	6½-7½	5.97	5.05	90.42
		404	Peaty clay	7½-8	5.95	51.44	86.83
		405	Peaty clay	8½-9½	2.90	69.60	83.19
		406	Peaty clay	9½-10	3.22	86.58	65.02
	2	407	Sphagnum	2½-4	5.88	4.49	88.33
		408	Sphagnum	4-6½	6.32	6.12	87.90
		409	Reed-sedge	6½-8	6.41	23.79	87.30
		410	Reed-sedge	8-8½	6.53	8.07	92.45
		411	Peaty clay	8½-10	3.95	57.14	87.74
		412	Peaty clay	10-10½	3.00	80.50	84.96
		413	Peaty clay	10½-11	2.90	66.79	84.66
		414	Clay	11-12	3.20	92.68	52.33
	3	415	Sphagnum	2½-4	4.75	2.14	91.09
		416	Sphagnum	4½-6	6.00	4.09	87.95
		417	Reed-sedge	6½-8	6.32	4.77	87.85
		418	Reed-sedge	8½-9½	6.41	8.95	77.99
		419	Clayey peat	9½-10	5.62	34.84	89.01
		420	Peaty clay	10½-11	3.00	64.90	87.05
		421	Peaty clay	12-12½	2.88	67.26	87.33
		422	Peaty clay	12½-13	3.20	77.61	79.52
		423	Clay		3.42	95.26	44.47
	4	424	Reed-sedge	2½-4	5.79	5.25	86.61
		425	Reed-sedge	4½-6	6.00	7.09	88.67
		426	Reed-sedge	6½-8	6.30	5.78	89.91
		427	Reed-sedge	8½-9½	6.00	7.31	88.83
		428	Clayey peat	9½-10	4.39	45.14	89.63
		429	Peaty clay	11	3.22	60.41	86.81
		430	Clay	12-12½	3.62	97.19	28.12
	5	431	Sphagnum	2½-4	5.45	8.56	85.74
		432	Sphagnum	4½-6	6.12	6.11	87.67
		433	Reed-sedge	6½-8	5.71	17.27	96.31
		434	Peaty clay	8½-10	3.17	58.91	87.62
		435	Clay	10½-11	3.44	97.45	26.37
	6	436	Sphagnum	2½-4	4.38	2.12	90.56
		436A	Sphagnum	4½-6	5.27	3.47	87.71
		437	Peaty clay	6½-8	6.30	61.65	87.82
		438	Sphagnum	8½-10	3.35	3.84	88.50
		439	Clay	11½-12	3.25	89.23	65.58
	7	440	Sphagnum	2½-4	4.80	2.05	89.11
		441	Reed-sedge	4½-6	5.54	3.20	88.12
		442	Reed-sedge	6½-8	5.90	4.92	89.27
		443	Peaty clay	8½-10	3.30	63.98	86.01
		444	Clay	10½	3.43	95.80	37.29

Table 3. Ash and moisture contents and pH of 793 samples from 39 peat deposits in Aroostook, Penobscot, and Piscataquis Counties, Maine, arranged according to deposit, station, and depth in core. [Analyses by Roosevelt Moore, Stanley Fleming, Joseph L. Harris, and D. W. Colightly, U.S. Geological Survey]

Deposit Number	Station Number	Sample Number USGS 79-	Type of Peat	Depth (in feet)	pH	Weight percent ash (moisture free)	Weight percent moisture as received
10-con't	8	445	Sphagnum	2½-4	6.02	5.83	88.36
		446	Reed-sedge	4½-6	6.20	7.86	88.26
		447	Sphagnum	6½-8	6.30	4.77	90.00
		448	Clayey peat	8½-9	6.08	32.19	90.58
		449	Peaty clay	9-10	4.18	54.66	88.22
		450	Peaty clay	12	3.00	74.29	86.88
	9	451	Sphagnum	2½-4	5.90	5.04	89.10
		452	Reed-sedge	4½-6	6.20	6.02	88.59
		453	Reed-sedge	6½-8	6.41	5.30	88.55
		454	Peaty clay	8½-10	3.85	57.11	86.53
		455	Peaty clay	12	3.15	87.62	65.72
	10	456	Reed-sedge	2½-4	5.44	4.35	90.50
		457	Reed-sedge	4½-6	5.80	3.99	89.14
		458	Reed-sege	6½-8	6.22	4.97	88.35
		459	Peaty clay	8½-10	3.38	65.16	84.79
		460	Clay	10½	3.60	96.50	34.53
11	1	220	Sphagnum	2½-4	4.82	10.15	86.28
		221	Clayey peat	6½-8	3.10	43.88	82.24
		222	Clayey peat	10-11	3.25	48.22	90.37
	2	223	Sphagnum	2½-4	4.16	0.92	87.66
		224	Sphagnum	6½-8	4.85	1.97	91.02
		225	Clayey peat	10½-12	3.65	38.39	90.90
		226	Reed-sedge	16	3.50	18.51	91.39
	3	227	Sphagnum	2½-4	3.98	1.69	89.95
		228	Sphagnum	6½-8	5.17	5.63	89.93
		229	Clayey peat	10-11	3.65	36.98	89.48
	4	230	Sphagnum	2½-4	4.42	9.50	88.35
		231	Peaty clay	6½-8	3.90	54.05	88.55
		232	Clayey peat	10½-12	2.99	48.44	91.67
		233	Peaty clay	15	2.99	58.62	88.66
		234	Peaty clay	16	2.90	85.03	75.47
	5	235	Sphagnum	2½-4	4.69	2.58	89.78
		236	Reed-sedge	6½-8	6.05	4.72	88.05
		237	Reed-sedge	10½-12	6.13	6.17	90.11
		238	Clayey peat	15½-16	3.42	49.25	89.00
		239	Peaty clay	21	3.60	85.01	69.14
	6	240	Reed-sedge	2½-4	4.18	2.46	88.88
		241	Clayey peat	6½-8	2.80	38.96	88.06

Table 3. Ash and moisture contents and pH of 793 samples from 39 peat deposits in Aroostook, Penobscot, and Piscataquis Counties, Maine, arranged according to deposit, station, and depth in core. [Analyses by Roosevelt Moore, Stanley Fleming, Joseph L. Harris, and D. W. Golightly, U.S. Geological Survey]

Deposit Number	Station Number	Sample Number USGS 79-	Type of Peat	Depth (in feet)	pH	Weight percent ash (moisture free)	Weight percent moisture as received
11 con't	7	242	Sphagnum	2½-4	3.38	1.33	88.72
		243	Peaty clay	6½-8	2.80	51.10	89.23
		244	Peaty clay	8-8½	2.89	51.38	89.33
	8	245	Reed-sedge	2½-4	5.70	4.49	88.65
		246	Clayey peat	6½-8	3.15	60.61	86.95
		247	Clay	10½	8.42	98.27	2.14
	9	248	Sphagnum	1½-3	4.00	2.56	88.15
		249	Reed-sedge	3-4	4.48	1.95	91.26
		250	Reed-sedge	6½-8	5.59	2.72	89.08
		251	Clayey peat	10½-12	3.60	46.39	91.22
		252	Peaty clay	14½-16	2.80	52.16	88.82
		253	Clay	18	7.60	98.00	3.67
	10	254	Reed-sedge	2½-4	4.70	4.19	85.98
		255	Clayey peat	6½-8	3.72	46.78	88.09
		256	Clay	10-10½	3.20	92.57	55.82
12	1	344	Sphagnum	2½-4	4.60	1.88	89.03
		345	Clayey peat	7	3.25	48.72	87.94
		346	Clay	8½	3.45	97.84	18.59
	2	347	Sphagnum	2½-4	4.06	1.29	89.14
		348	Clayey peat	7	3.15	48.72	88.14
		349	Clay	8½	3.19	97.15	9.42
	3	350	Sphagnum	2½-4	4.65	2.80	89.15
		351	Clayey peat	7	3.42	41.00	87.71
		352	Peaty clay	9	3.34	68.99	69.68
		353	Clay	9¼	3.98	94.52	20.76
	4	354	Reed-sedge	2½-4	4.80	3.95	89.11
		355	Clayey peat	7	3.48	47.83	88.32
		356	Clayey peat	9	3.49	50.33	89.75
		357	Peaty clay	10	3.20	74.66	78.18
		358	Clay	10¼	3.37	91.90	40.35
	5	359	Sphagnum	2½-4	5.52	3.93	88.82
		360	Sphagnum	6½-8	5.60	5.00	88.67
		361	Clayey peat	10 3/4	3.50	36.88	92.83
		362	Clayey peat	11-12	3.64	46.81	89.67
		363	Clayey peat	12-13	3.60	41.59	90.75
		364	Peaty clay	13-13½	3.72	71.40	83.15
		365	Clay	14	3.59	87.36	68.88
13	1	257	Reed-sedge	1	3.82	6.93	82.78

Table 3. Ash and moisture contents and pH of 793 samples from 39 peat deposits in Aroostook, Penobscot, and Piscataquis Counties, Maine, arranged according to deposit, station, and depth in core. [Analyses by Roosevelt Moore, Stanley Fleming, Joseph L. Harris, and D. W. Golightly, U.S. Geological Survey]

Deposit Number	Station Number	Sample Number USGS 79-	Type of Peat	Depth (in feet)	pH	Weight percent ash (moisture free)	Weight percent moisture as received
13 con't	2	258	Reed-sedge	1	4.10	3.36	85.03
		259	Reed-sedge	2	3.98	4.44	79.86
	3	260	Clayey peat	1	5.67	34.13	81.91
		261	Clayey peat	2	5.62	27.38	82.38
		262	Peaty clay	3	5.52	58.16	78.70
		263	Peaty clay	5	5.10	55.48	78.92
		264	Peaty clay	6½-8	4.90	52.75	85.01
		265	Peaty clay	10½-12	2.88	58.79	85.26
		266	Peaty clay	14	2.92	87.24	62.00
		267	Clay	14¼	4.00	97.39	27.51
	4	268	Peaty clay	1	5.00	76.20	63.27
		269	Peaty clay	2	4.95	79.40	59.12
		270	Peaty clay	3	5.05	87.41	53.24
		271	Clayey peat	6½-8	3.30	43.69	84.59
		272	Peaty clay	10½-11	2.50	79.66	74.57
		273	Clay	11-11½	4.00	97.77	21.57
	5	274	Peaty clay	1	5.20	63.86	74.02
		275	Peaty clay	2	5.30	63.35	74.28
		276	Clayey peat	3½-4	5.30	48.99	79.61
		277	Peaty clay	6½-8	5.12	61.25	80.99
		278	Peaty clay	10½-12	3.90	57.36	85.27
		279	Peaty clay	14½-16	2.64	71.51	84.09
	6	280	Peaty clay	2½-4	5.24	65.58	74.43
		281	Peaty clay	6½-8	5.42	67.00	79.24
		282	Peaty clay	10½-12	4.60	63.34	84.43
		283	Peaty clay	14½-15	3.58	63.39	84.04
		284	Peaty clay	15-16	2.45	71.05	82.39
14	1	303	Sphagnum	2½-4	4.74	2.24	91.15
		304	Sphagnum	6½-8	5.61	3.02	90.52
		305	Sphagnum	10½-12	5.52	7.61	91.02
		306	Clayey peat	14½-16	4.80	47.99	89.97
		307	Clayey peat	18½-20	5.11	47.16	89.20
		308	Peaty clay	21	3.52	64.29	85.40
		309	Peaty clay	25	3.20	80.10	76.24
		310	Clay	29	8.10	97.45	25.36
	2	311	Sphagnum	2½-4	5.90	4.91	88.95
		312		6½-8	5.94	4.62	90.98
		313	Clayey peat	10½-12	5.05	41.84	92.11
		314	Peaty clay	14½-16	3.30	54.18	90.45
		315	Peaty clay	18½-20	3.20	63.78	86.78
		316	Clay	21	3.25	96.22	32.67

Table 3. Ash and moisture contents and pH of 793 samples from 39 peat deposits in Aroostook, Penobscot, and Piscataquis Counties, Maine, arranged according to deposit, station, and depth in core. [Analyses by Roosevelt Moore, Stanley Fleming, Joseph L. Harris, and D. W. Golightly, U.S. Geological Survey]

Deposit Number	Station Number	Sample Number USGS 79-	Type of Peat	Depth (in feet)	pH	Weight percent ash (moisture free)	Weight percent moisture as received
14 con't	3	317	Sphagnum	2½-4	4.30	1.15	91.02
		318	Sphagnum	6½-8	4.70	1.29	92.29
		319	Sphagnum	10½-12	5.40	3.77	90.44
		320	Clayey peat	14½-16	3.40	31.36	88.45
		321	Peaty clay	18½-19	3.12	62.43	85.25
		323	Clay	21	4.00	96.37	25.90
	4	324	Sphagnum	2½-4	4.20	1.02	89.51
		325	Sphagnum	6½-8	4.65	1.71	90.03
		326	Sphagnum	10½-12	4.78	9.92	93.18
		327	Peaty clay	14½-16	2.99	55.27	90.54
		328	Peaty clay	18½-19	3.00	65.27	85.69
		329	Peaty clay	19-20	3.00	77.35	82.03
		330	Clay	23	7.50	92.14	57.48
	5	331	Sphagnum	2½-4	5.64	4.00	89.83
		332	Reed-sedge	6½-8	5.88	4.66	88.12
		333	Clayey peat	10½-12	3.93	42.58	91.15
		334	Peaty clay	14½-16	2.82	61.98	85.10
		335	Clay	18½-20	8.10	97.57	15.74
	6	336	Reed-sedge	2½-4	4.75	1.21	89.57
		337	Sphagnum	6½-8	5.95	3.95	90.37
		338	Clayey peat	10½-12	4.50	42.59	91.01
		339	Peaty clay	14½-15	3.20	50.08	89.05
	7	340	Sphagnum	2½-4	6.40	5.08	89.33
		341	Sphagnum	6½-8	6.45	5.90	88.59
		342	Clayey peat	10½-12	3.65	48.02	90.41
		343	Clayey peat	14-14½	3.4	42.95	91.92
15	1	777	Sphagnum	2½-4	4.11	1.49	86.40
		778	Reed-sedge	6½-8	5.56	6.41	91.52
		779	Clayey peat	11½	3.03	47.65	87.45
	2	780	Sphagnum	2½-4	4.49	1.94	88.29
		781	Reed-sedge	6½-8	5.50	5.85	90.32
		782	Peaty clay	9½	3.18	50.88	86.50
16	1	775	Reed-sedge	2½-4	4.00	2.25	84.59
		776	Reed-sedge	6-7½	4.57	3.48	88.80
17	1	189	Sphagnum	2½-4	4.99	4.41	88.07
		190	Clayey peat	6½-8	5.60	44.96	83.67
		191	Peaty clay	10½-12	3.50	70.01	84.02
		192	Clay	14½-16	5.15	97.34	31.42

Table 3. Ash and moisture contents and pH of 793 samples from 39 peat deposits in Aroostook, Penobscot, and Piscataquis Counties, Maine, arranged according to deposit, station, and depth in core. [Analyses by Roosevelt Moore, Stanley Fleming, Joseph L. Harris, and D. W. Golightly, U.S. Geological Survey]

Deposit Number	Station Number	Sample Number USGS 79-	Type of Peat	Depth (in feet)	pH	Weight percent ash (moisture free)	Weight percent moisture as received
17 con't	3	194	Sphagnum	2½-4	5.18	2.03	89.96
		195	Sphagnum	6½-8	6.13	5.15	88.63
		196	Reed-sedge	10	5.82	6.19	90.52
		197	Clayey peat	10½-12	4.70	35.03	93.63
	4	198	Sphagnum	2½-4	4.65	2.75	89.96
		199	Sphagnum	6½-8	5.80	1.90	89.29
		200	Clayey peat	11-12	4.00	44.92	90.58
		201	Peaty clay	14	4.10	51.78	88.49
	5	202	Sphagnum	2½-4	5.30	12.06	87.61
		203	Sphagnum	6½-8	5.45	5.96	88.30
		204	Peaty clay	9½-11	3.80	59.26	88.17
	6	205	Peaty clay	2½-4	5.20	58.37	81.18
18	1	166A	Reed-segdg	2½-4	4.67	5.71	88.33
		167	Clayey peat	6½-8	5.01	48.47	89.25
		168	Peaty clay	11-11½	3.40	79.04	76.18
	2	169	Sphagnum	2½-4	4.85	1.76	87.66
		170	Clayey peat	6½-8	5.39	24.70	89.84
		171	Peaty clay	10½-12	3.55	84.15	94.05
		172	Peaty clay	14½-16	4.28	62.25	89.82
19	1	564	Peaty clay	1-2½	4.65	69.22	65.56
	2	565	Sphagnum	2½-4	4.24	1.20	86.35
		566	Reed-sedge	6-7	5.27	3.56	90.82
		567	Reed-sedge	7-8	5.89	22.41	96.61
		568	Clayey peat	8-9	5.17	41.46	89.52
		569	Peaty clay	9-9½	3.75	88.06	54.66
	3	570	Sphagnum	2½-4	4.50	1.19	88.69
		571	Sphagnum	6½-8	4.57	4.32	90.82
		572	Peaty clay	10½-11	3.60	82.71	72.01
		573	Peaty clay	11-11½	3.53	89.05	62.01
		574	Clay	11½-12	3.65	97.26	29.08
	4	575	Sphagnum	2½-4	5.33	3.87	88.70
		576	Reed-sedge	6½-8	5.85	4.86	91.29
		576A	Clayey peat	9½-10	6.30	35.48	90.91
		578	Peaty clay	11-12	4.10	59.76	84.46
		579	Clay	13-14	7.45	97.98	18.88
23	1	377	Sphagnum	2½-4	5.59	11.52	87.19

Table 3. Ash and moisture contents and pH of 793 samples from 39 peat deposits in Aroostook, Penobscot, and Piscataquis Counties, Maine, arranged according to deposit, station, and depth in core. [Analyses by Roosevelt Moore, Stanley Fleming, Joseph L. Harris, and D. W. Golightly, U.S. Geological Survey]

Deposit Number	Station Number	Sample Number USGS 79-	Type of Peat	Depth (in feet)	pH	Weight percent ash (moisture free)	Weight percent moisture as received
23 con't	1- con't	378	Clayey peat	6½-8	5.63	40.01	87.25
		379	Peaty clay	11	2.95	64.69	84.07
		380	Clay	12	3.14	92.46	53.73
	2	381	Sphagnum	2½-4	6.38	7.48	89.74
		382	Sphagnum	6½-8	6.38	5.74	89.60
		383	Clayey peat	10½-12	5.19	47.53	90.43
		384	Peaty clay	14½-15	3.55	58.01	88.23
		385	Clay	15-16	3.14	90.05	58.65
	3	386	Reed-sedge	2½-4	5.18	4.72	88.20
		387	Reed-sedge	6½-8	5.10	21.02	89.56
		388	Peaty clay	8-8½	3.70	56.51	87.36
	4	389	Reed-sedge	2½-4	5.34	5.49	87.32
		390	Reed-sedge	6½-8	5.65	3.63	88.72
		391	Peaty clay	10½-12	3.92	54.49	88.33
		392	Peaty clay	13½-14	3.21	78.81	77.88
		393	Clay	14-15	3.21	95.56	46.02
	5	394	Reed-sedge	2½-4	4.15	3.20	88.53
		395	Reed-sedge	4-5½	3.42	23.38	90.53
	6	396	Reed-sedge	2½-4	5.15	4.18	88.99
		397	Reed-sedge	6½-8	5.68	5.99	89.36
		398	Clayey peat	10½-12	5.95	41.95	88.52
		399	Clayey peat	14-16	3.99	46.25	89.60
		400	Peaty clay	18	3.38	75.07	78.88
		401		20	3.62	5.19	87.98
24	1	600	Clayey peat	2½-4	5.50	21.52	83.32
		600A	Peaty clay	6½-8	3.80	54.52	86.99
	2	601	Sphagnum	2½-4	4.48	2.51	89.79
		602	Clayey peat	6½-8	6.18	54.54	84.67
		603	Clayey peat	10½-12	4.86	47.09	89.52
		604	Clay	14½-20	3.42	91.45	62.94
	3	605	Sphagnum	2½-4	4.82	1.48	90.15
		606	Peaty clay	6½-8	5.65	55.95	82.79
		607	Clayey peat	10½-12	4.40	43.54	90.20
	4	608	Sphagnum	2½-4	4.35	0.78	90.62
		609	Reed-sedge	6½-8	4.95	3.91	94.38
		610	Peaty clay	10½-12	3.90	52.45	90.07
		611	Peaty clay	15	3.20	64.44	81.13

Table 3. Ash and moisture contents and pH of 793 samples from 39 peat deposits in Aroostook, Penobscot, and Piscataquis Counties, Maine, arranged according to deposit, station, and depth in core. [Analyses by Roosevelt Moore, Stanley Fleming, Joseph L. Harris, and D. W. Golightly, U.S. Geological Survey]

Deposit Number	Station Number	Sample Number USGS 79-	Type of Peat	Depth (in feet)	pH	Weight percent ash (moisture free)	Weight percent moisture as received
24 con't	5	612	Sphagnum	2½-4	4.20	1.26	89.99
		612A	Reed-sedge	6½-8	5.41	18.57	92.10
		613	Peaty clay	10	3.00	60.93	82.60
	6	614	Reed-sedge	2½-4	5.22	3.54	89.35
		615	Reed-sedge	6½-8	5.60	4.93	88.78
		616	Clayey peat	10½-12	4.10	45.30	90.35
		617	Clay	14½-15	3.20	96.99	36.53
	7	618	Sphagnum	2½-4	4.38	3.00	89.51
		619	Sphagnum	6½-8	5.40	3.57	88.97
		620	Clayey peat	10½-12	3.20	45.29	90.42
		621	Clay	14	3.48	96.49	36.21
25	1	622	Sphagnum	2½-4	4.70	2.86	89.50
		623	Peaty clay	6½-8	5.24	53.53	88.99
		624	Peaty clay	8½-10	3.98	54.85	87.28
	2	625	Sphagnum	2½-4	4.35	2.22	90.09
		626	Reed-sedge	6½-7½	5.80	3.41	91.69
		627	Clayey peat	7½-8	5.85	45.75	89.58
		628	Peaty clay	10½-12	4.20	53.58	88.88
		629	Peaty clay	13½-15	3.20	59.32	85.93
	3	630	Sphagnum	2½-4	4.00	1.81	89.66
		631	Sphagnum	6½-8	5.35	3.22	88.20
		632	Clayey peat	10½-12	4.30	45.39	89.73
		633	Peaty clay	14½	2.80	59.70	84.06
	4	634	Sphagnum	2½-4	5.14	0.93	85.23
		635	Sphagnum	6½-8	6.28	5.09	89.71
		636	Clayey peat	9-10	3.65	46.62	89.25
	5	637	Sphagnum	2½-3½	4.65	2.21	90.93
		638	Sphagnum	6½-8	5.80	5.71	89.61
		639	Peaty clay	8-9½	3.80	51.19	88.98
	6	640	Sphagnum	2½-4	6.08	5.74	88.79
		641	Clayey peat	6½-8	6.10	42.35	89.47
		642	Peaty clay	8½-9	3.45	55.44	88.17
	7	643	Reed-sedge	2½-4	4.30	1.39	90.41
		644	Reed-sedge	6½-8	5.47	0.85	91.75
		645	Peaty clay	10 3/4	3.25	60.79	84.99
	8	646	Reed-sedge	2½-4	4.22	1.38	89.41
		647	Reed-sedge	6½-7½	5.20	3.50	91.53
		648	Clayey peat	7½-8	5.35	33.95	89.99

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Deposit Number	Station Number	Sample Number USGS 79-	Type of Peat	Depth (in feet)	pH	Weight percent ash (moisture free)	Weight percent moisture as received
25 con't	8 con't	649	Reed-sedge	8-10	3.18	22.89	85.45
29	1	214	Sphagnum	2½-4	4.95	2.78	84.42
		215	Sphagnum	4½-8	5.70	7.38	86.82
		216	Sphagnum	10½-12	5.71	7.16	85.81
		217	Clayey peat	14-15	3.40	47.62	90.06
32	1	206	Clayey peat	2½-4	4.55	41.59	87.26
		207	Clayey peat	5-5½	2.50	48.81	89.08
	2	208	Sphagnum	2½-4	4.75	2.47	87.22
		209	Peaty clay	6½-8	4.20	55.94	95.82
		210	Clayey peat	10½-11	3.40	34.25	90.35
	3	211	Reed-sedge	2½-4	4.54	2.23	89.41
		212	Clayey peat	6½-8	4.00	46.84	87.55
		213	Peaty clay	10½-11	3.02	51.00	85.01
35	1	783	Sphagnum	2½-4	4.70	6.85	84.77
	2	784	Sphagnum	2½-4	5.52	11.40	87.89
	3	785	Reed-sedge	7-7½	4.69	3.80	85.80
		786	Clayey peat	7½	3.01	31.03	89.09
37	2	182	Humus	5	5.02	6.46	86.11
	3	183	Reed-sedge	5	5.81	6.60	86.46
	4	184	Reed-sedge	5	5.31	13.05	89.07

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Deposit Number	Station Number	Sample Number USGS 79-	Type of Peat	Depth (in feet)	pH	Weight percent ash (moisture free)	Weight percent moisture as received
37- con't	5	185	Reed-sedge	5	5.87	5.77	87.47
		186	Reed-sedge	9	5.80	9.51	93.94
		187	Clay	12½	7.15	94.52	42.21
	6	188	Reed-sedge	2½-4	3.94	2.15	89.19
40	1	163	Sphagnum	2½-4	4.10	2.14	87.82
		164	Sphagnum	7-8	4.65	4.88	89.90
	2	165	Sphagnum	2½-4	4.25	5.51	89.84
		166	Sphagnum	5½-6½	4.49	1.92	87.33
41	1	162	Reed-sedge	2½-4	4.30	3.36	85.62
42	1	99	Sphagnum	2½-4	4.80	2.50	90.63
		100	Reed-sedge	6½-8	4.98	2.18	89.69
	2	101	Sphagnum	2½-4	4.38	1.55	90.62
		102	Sphagnum	6½-8	4.52	0.69	93.44
		103	Sphagnum	10½-12	4.70	1.20	91.23
		104	Peaty clay	17	3.50	67.74	79.92
	3	105	Sphagnum	2½-4	4.20	1.03	92.22
		106	Sphagnum	10½-12	4.71	1.65	91.37
		107	Reed-sedge	17	5.20	6.47	95.21
		108	Clayey peat	21	3.10	28.86	93.12
43	1	135	Reed-sedge	2½-4	5.80	4.53	88.31
		136	Peaty clay	6½-8	5.50	74.42	88.62
		137	Reed-sedge	10½-12	5.70	9.08	89.51
		138	Reed-sedge	14½-16	4.70	34.72	91.93
		139	Peaty clay	19	2.80	67.37	82.31
	2	140	Sphagnum	2½-4	4.45	1.19	91.31
		141	Sphagnum	10½-12	5.25	3.22	89.76
		142		14½-16	4.00	22.84	93.68
	3	143	Sphagnum	2½-4	4.25	2.15	88.87
		144	Clayey peat	6½-8	5.20	25.80	92.07
		145	Peaty clay	10-10½	2.90	69.65	86.01
	4	146	Reed-sedge	2½-4	4.15	3.73	87.22
		147	Peaty clay	5½	3.15	75.33	96.31

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Deposit Number	Station Number	Sample Number USGS 79-	Type of Peat	Depth (in feet)	pH	Weight percent ash (moisture free)	Weight percent moisture as received
44	1	148	Sphagnum	2½-4	4.57	5.11	86.56
		149	Reed-sedge	6½-8	5.81	27.67	92.23
		150	Clayey peat	10½-12	3.30	29.65	94.82
		151	Clayey peat	14½-16	2.50	43.31	92.47
	2	152	Clayey peat	2½-4	5.42	27.45	86.01
		153	Reed-sedge	6½-8	5.40	19.29	86.55
		154	Sphagnum	10½-12	5.52	11.17	92.87
		155	Clayey peat	12½-16	4.80	26.64	91.84
		156	Clay	19	3.29	90.29	60.23
	3	157	Reed-sedge	2½-4	5.40	10.54	87.73
		158	Reed-sedge	6½-8	5.48	13.06	88.06
		159	Reed-sedge	10½-12	5.72	13.50	90.94
		160	Clayey peat	14-15	2.99	44.69	90.34
		161	Peaty clay	15-16	2.70	60.67	86.80
45	1	119	Reed-sedge	1-2½	5.00	26.34	85.03
		120	Clayey peat	3	5.31	35.91	85.20
		121	Clayey peat	7	5.40	37.59	87.73
		122	Reed-sedge	11	5.52	12.32	90.82
		123	Reed-sedge	15	3.28	26.21	83.57
		124	Clayey peat	17	3.25	38.86	90.95
	2	125	Reed-sedge	3	5.31	9.37	88.51
		126	Reed-sedge	6	3.90	12.23	89.67
	3	127	Reed-sedge	5	5.50	13.42	91.21
	4	128	Reed-sedge	2½-4	5.10	6.52	87.12
		129	Clayey peat	10½-12	5.30	27.80	89.94
		130	Clayey peat	14½-16	3.44	37.81	82.79
	5	131	Reed-sedge	2½-4	5.15	8.43	86.51
		132	Reed-sedge	6½-8	5.78	6.77	93.20
		133	Clayey peat	10½-12	5.50	32.49	91.34
	6	134	Peaty clay	4	5.39	64.06	74.05
49	1	43	Reed-sedge	2½-4	5.52	9.66	86.91
		44	Reed-sedge	6½-8	5.33	18.10	89.75
		45	Clayey peat	8-9	3.48	47.06	89.03
	2	46	Sphagnum	2½-4	4.80	1.69	89.94
		47	Clayey peat	7½-8	5.38	25.37	84.66
		48	Clayey peat	10½-12	5.33	25.97	89.64
		49	Reed-sedge	14½-15	5.38	15.74	92.89

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Deposit Number	Station Number	Sample Number USGS 79-	Type of Peat	Depth (in feet)	pH	Weight percent ash (moisture free)	Weight percent moisture as received
49 con't	2 con't	50	Reed-sedge	18½-20	4.92	7.85	52.03
		51	Peaty clay	21	4.28	50.90	
		52	Clayey peat	25	3.42	29.59	73.66
	3	53	Sphagnum	2½-4	4.08	1.94	90.21
		54	Reed-sedge	5½-7	3.50	22.87	92.90
	4	55	Sphagnum	2½-4	4.33	3.80	87.10
		56	Sphagnum	6½-8	5.01	2.92	89.89
		57	Sphagnum	10½-12	5.10	1.08	95.37
		58	Clayey peat	13½-15	3.55	36.39	91.29
	5	59	Sphagnum	2½-4	4.40	0.84	91.11
		60	Reed-sedge	6½-8	5.20	14.39	92.11
		61		10½-12	6.00	20.95	89.86
		62	Clayey peat	14½-16	6.15	29.77	91.64
		63	Clayey peat	18½-20	5.55	43.40	92.92
		64	Clayey peat	21	4.15	28.24	93.59
		65	Clayey peat	25	4.80	32.22	93.72
		66	Peaty clay	29	2.90	75.16	80.58
		67	Clay	33	4.50	98.00	28.88
	6	68	Peaty clay	2½-4	4.70	69.36	89.97
		69	Sphagnum	6½-8	5.22	5.43	91.17
		70	Sphagnum	10½-12	4.92	4.64	91.49
		71	Reed-sedge	14½-16	5.32	16.68	92.96
		72	Clayey peat	21	4.72	43.57	90.02
		73	Peaty clay	25	2.89	69.95	81.87
50	1	18	Clayey peat	2½-4	4.71	46.60	82.70
		20	Reed-sedge	12-13	5.71	16.91	82.85
	3	21	Sphagnum	2½-4	4.38	1.50	89.30
		22	Reed-sedge	6½-8	4.59	5.00	96.00
		23	Reed-sedge	10½-12	5.37	2.95	90.50
		24	Reed-sedge	14½-16	3.32	25.43	93.00
	5	25	Sphagnum	2½-4	4.58	2.20	91.35
		26	Sphagnum	6½-8	5.21	2.80	90.90
		27	Sphagnum	10½-12	4.89	10.80	93.15
		28	Peaty clay	21	3.51	73.00	85.00
52	1	109	Sphagnum	2½	4.72	2.86	91.02
		110	Sphagnum	5	4.70	1.70	84.53
		111	Reed-sedge	13	5.20	11.70	88.78
	2	112	Sphagnum	2½	4.30	1.18	91.26
		113	Sphagnum	5	4.01	1.37	90.99

Table 3. Ash and moisture contents and pH of 793 samples from 39 peat deposits in Aroostook, Penobscot, and Piscataquis Counties, Maine, arranged according to deposit, station, and depth in core. [Analyses by Roosevelt Moore, Stanley Fleming, Joseph L. Harris, and D. W. Colightly, U.S. Geological Survey]

Deposit Number	Station Number	Sample Number USGS 79-	Type of Peat	Depth (in feet)	pH	Weight percent ash (moisture free)	Weight percent moisture as received
52 con't	2 con't	114	Sphagnum	10	3.80	1.15	87.26
		115	Reed-sedge	14	3.70	2.79	90.68
	3	116	Sphagnum	2½	4.09	2.57	87.66
		117	Sphagnum	5	4.30	2.98	87.34
		118	Sphagnum	10½	4.72	27.94	85.55
53	1	91	Sphagnum	5	4.30	0.47	93.61
		92	Reed-sedge	9	4.52	10.69	89.20
	2	93	Sphagnum	5	4.00	1.19	92.00
		94	Sphagnum	9	4.62	1.92	91.41
		95	Clayey peat	13	4.90	31.47	88.48
54	2	74	Reed-sedge	2½-4	4.20	0.21	92.87
		75	Sphagnum	10½-12	3.92	0.22	90.98
		76	Sphagnum	21	4.15	0.13	92.11
	4	77	Reed-sedge	2½-4	4.10	4.72	81.77
		78	Reed-sedge	10½-12	4.00	1.44	91.66
		79	Clayey peat	16	3.20	29.29	87.73
	5	80	Sphagnum	2½-4	3.90	0.29	89.69
		81	Sphagnum	10½-12	4.10	0.63	91.24
		82	Sphagnum	13	4.60	1.60	89.70
	6	83	Sphagnum	2½-4	3.80	0.27	92.46
		84	Sphagnum	10½-12	4.00	2.63	89.53
		85	Sphagnum	11½-13	4.30	4.04	88.24
55	1	29	Sphagnum	2¼-4	4.41	5.49	88.35
		30	Sphagnum	6½-8	5.17	3.82	87.95
		31	Peaty clay	11½-12	5.07	65.94	88.80
		32	Clay	14½-16	5.25	91.13	77.90
		33	Clayey peat	21	3.80	44.08	90.45
	2	34	Sphagnum	2½-4	4.14	2.12	90.55
		35	Sphagnum	6½-8	4.29	1.57	90.14
		37	Clayey peat	14½-16	4.27	27.08	92.51
		38	Peaty clay	18	3.30	74.75	80.28
	3	39	Sphagnum	2½-4	4.50	2.14	92.29
		40	Sphagnum	6½-8	4.60	0.47	90.38
		41	Sphagnum	10½-12	4.83	2.24	92.40
		42	Reed-sedge	14½-16	4.12	5.55	94.06

Table 3. Ash and moisture contents and pH of 793 samples from 39 peat deposits in Aroostook, Penobscot, and Piscataquis Counties, Maine, arranged according to deposit, station, and depth in core. [Analyses by Roosevelt Moore, Stanley Fleming, Joseph L. Harris, and D. W. Golightly, U.S. Geological Survey]

Deposit Number	Station Number	Sample Number USGS 79-	Type of Peat	Depth (in feet)	pH	Weight percent ash (moisture free)	Weight percent moisture as received
56	1	96	Peaty clay	4	5.70	62.25	78.63
	2	97	Clayey peat	5	5.30	47.37	81.88
	3	98	Clayey peat	5	5.30	29.63	85.22