43½ Langdon St., Cambridge, Mass, Jan. 10, 1892, DEN Mr. Briggs; I was very much pleased with the Mit Ataadu plants, and Dr. Robinson mishes me to thank you for the Specimen of Lycopodium alpmuu for the Gray HErbarium. I have put out the plants you requested and shall send them It you by Harriet as she returns in a few days to Drons. I certainly hope you may have the Success which should be expected an four his next Summer. I have not get definitely decided where I shall do my active field work in the Jumile but probably somewhere me the northern part of Maine. I have several enthusiastic correspondents in various ports of the state and we are all

planning to do more than ever next among the many interesting things have seen this year from Maine, is one which Miss Furbish collected at Ford Fairfield thelor years ago. It proves to be Myriophyllum alterniflower, or (See Morouf. in Porr. Bull. aug. 1891.) Thinking they may be of some net trest to you I have made a list of the more puportant Atasku plant which I have in my records. I have given the Collectors so far as I know them, but in Cash of common species only the earlier Collectors. n collecting next year. I will you -Very truly yours Mewith Lyndon Fernald.

MA Ktaadu Notes. Clematis verticillaris, DO. E. Br. of Penol, near Staaku (Scribner) Huthac Noliniamon, aix. E. Br. of Penob. (Young) Cardanine bellidifolia, L. Chickering, Scribner, Cremaria Growlandica all., Gertat. 151 Ed. Totrutilla fruticosa. L. J. a. Bailey & c. te, " tridentata, Rit. All. Amelanchier olijocarpa, Young. Hale. Sagifraja stellaris, V. comosa, Blake, Scribner. Heppines wilgaris. E. B. of Vewb. (Goodale) Sprlobume Hornemanni, Reich. Goodale Science. Biggs Viburnum paneiflowen Pylaie.
1Sanks of the Wassatagnort (Thurber) Enpatorium ageratoides. R. Solidago macrophylla Push. Scribner. " Virfa aurea. V. alpina Bailey Joing : 60,00. " Lucilis, Puch. Blake ? Digeron Lyssofafolics, Mx Gusphalium Supinum. Vill. Scribner. Brifs.

Tetasites polinata, Tray. Scribner. Arnica Chamissonis, Less, Goodale, " Briggs. Tecnanties Serpentaria V. nous. Scribner, Briggo. Vaccinin Penn, V. augusti John Scribner. Thurber, tc. tc. " Caespitosiui, Mx. " uligmosum, L. " " " Vitis-Idaea L. " " " Chetostophylos alpina, Spr. young. C. E. Smith, te, te. Cassiofre hypnoides, Don. " "" Bryonthus taxifolis, Fray, Thuber, Blake, &C &C, Rhododendeon dapponicum, Wahl. " Young &c, oc, Loiselauria procumbens, Dev. Tenbres ococ. Moneses froudiflow, Salist. Thurble, oc. Pyevla minor L Goodale. Diapensia Lapponica. L. Joung. octe, Halenia deflexa, Guseb. Young. oc. Costalleia Sallida V. Septentrionalis. Briggs, Polygonim viviparum. L. Scribner. Betrela papyrifica N. minor, " Salin argenocaepa, and. Bloke . Scribner.

Salix Marusi, Bush, Blake, tote, Empetrum nignum, L. all. Pauls Paulsiana, Lamb. E. B. of Ten, Mis Hawas Listera coedata, R. Dr. Scribner. Briggs, " Convallarioides, Mitt, Chickening. Habenaria aletusata, Rich. Young. Janens trifidus. L. Blake Scribner Briggs Lugala Spadicea. N. Meleuvearpa. all. " arcuata, Mey so. Goodall, " Spicata DESV. Blake, Scribner. Scirpus caespitasus. L. Thube tetete. Eriophorum alpinum ch. ? Briggo. Carex miliarish? amea Biley. Scribner (?) " refida. V. (Dipelovii, Fact. all, " Lenticulairs, Mx, Scribner. " torta, Booth, Port Cat. 15 Ed. " rariflora. Smith. Goodale. " Scripordea. My. Blake Scribner Briggo. " Careseeus. V. alpicola. Scribner. Buggo. " ahata, V. ovata Boot. Beiggo, Herochlae alpina, RoS. Young. Scubner. Thlewer alfrium. R. ? Briggs.

agrosto rupestros all.)
Camina, V. alfrica Joung. Briggs, Deschampsia flexuosa. Im, all, Toa laxa, Haente. Goring, Scribner. afropymu violacem. Bijp. Briggs, Oldrantum Pedatum. I. Briggo aspidium aculeatum, V. Dramei. Goodale. dycopodiem Selago. L. Jany. Scubner, Briggs 11 annotunem, V. Jungons, 1. vete, te, 1. alþrium, L. Briggo, Merritt Lyndon Fruald. Deulo, 1892.

PHILLIPS ACADEMY ANDOVER, MASSACHUSETTS DEPARTMENT OF AMERICAN ARCHAEOLOGY WARREN K. MOOREHEAD, DIRECTOR DOUGLAS S. BYERS, ASSISTANT DIRECTOR October 15, 1936 Dr. M. L. Fernald Gray Herbarium Cambridge, Mass. Dear Dr. Fernald: I have found some more lists of flora of Mt. Katahdin among the papers of Mr. Fred. P. Briggs. These may or may not be of some use. I am glad that the others were of some value. I always hesitate to throw anything away that is outside my field, as I never know whether I am throwing away something that might be of some value to other workers. Sincerely. Douglas S. Byers Douglas S. Byers enc. DSB/EW Oct. 17, 1936 THE NEW ENGLAND BOTANICAL CLUB Phillips Indom Academy

Lichens collected on Ml. Ataach, Me. Cetraria, Fahlunensis Schoor, Cetraria jumperina Ach. (on spruce) "Islandica, Ach. cuculata Parmelia stygia, Ach centrifuga, Ach Stereocaulor corallinum, tip. Cladonia gracilis, Fr, var verticellata Fr.
" Jamaniocrea lehaer.
" squamosa, " furcata, Floerk. var. enbulata, Flork " rangiferina stiff
i var alþestris, Floerbe. " conucoporder, In. Umblicaria probosiclea, De. .. hyperborea, Aff. erosa, Aeff Secidea sarguinaria, Ach. (on back of true) " contigua, Fix (on quanite.) Pagonation alpinion Rocht.

KTAADN.

Orthography.

Following are the different ways I have found the name of this moun
Kataadn, Ktahdn, Kataden,

tain in print" Ktaadn, Ktardn, Ktahden, Ktahden, and Katahden. The

first and last are more common than the others, at present. I have

taken considerable pains to find out which is the better method of

spelling, and herewith give the authority for the first, which I consider the only correct way.

Hon. James Hammond Trumball who is an eminent Philologist, and our best authority on the Indian language,—having been lecturer on the Indian language at Yale College, editor of "Roger Williams Key to the Indian Language," and said to be the only man who can read Elliot's Indian Bible,—says that this mountain is "prounounced Ktaadn by the Indians of Maine." This I consider decisive as the only rule for spelling such a language is to spell it as it is prounounced by the Aborigines.

in the Bulletin of the Museum of Comparative Zoology at Harvard

College for 1880-84, says in a foot note: "The spelling Ktaadn is

adopted in accordance with an opinion communicated to the writer by

J. Hammond Trumball of Hartford, the most eminent living authority upon

Indian dialects."

William Willis in an article on "Language of the Abaquis" spells it

Ktaadn. Judge C. E. Potter writing on the language of the Abnaqui

Indians spells it the same. In fact I find all writers on the

Indian language spell it Ktaadn.

I also quote Henry D. Thoreau in his well known book " The Maine Woods, " Dr. Charles T. Jackson, the first Geologist of Maine, in his report "Geology of Maine": John S. Springer, in his book "Forest Life and Forest Trees: " Capt. A. J. Farrar, in "Guide to Mooshead Lake and the North Maine Wilderness; " Lucius L. Hubbard, in "Guide to Moosehead Lake and Nothern Maine; " and F. E. Church, in "Camps and Tramps about Ktaadn; " in Scribners Monthly. I could add to this number but this is doubtless sufficient. Wishing to obtain as much information as possible, I wrote to the late Joseph Nicolar, an Indian at Old Town, who has been Govenor of that tribe, and who is the author of a book published in 1893, entitled "The Life and Traditions of the Red Man." I copy the following from his letters, giving it for what it is worth. "The word is in the language of the Penobscots, and ought to be spelled Ktardn, every letter having its sound." This spelling accords with that giving by Trumball, for the "aa" represents the broad sound, similar to "ar" of Nicolar's spelling. In the vicinity of the mountain are very neatly painted guideboards put up by the Appalachin Mountain Club, with the name spelled in this wau.

It is hoped our map-makers and our state papers may have their attention called to this matter, and hereafter spell the name of our grand old mountain according to the original Indian pronunciation.

Derivation.

The name Ktaadn is without doubt from the Indian language. I give to below all that I am able to find in regard to the meaning of this word. J. Hammond Trumball says it signifies "the greatest or chief mountain and is equivalent of Kittatimny, the name of a ridge of the Alleghanies." Again he says "In the Abnaki dialects the compound of mountain names is adene. Kit or Ket means great. The Abnaki name is Ketadene, the greatest or chief mountain."

Judge C. E. Potter, in an article on the language of the Abnakis, says "Ktaadn is doubtless a corruption of kees, "high", and auke, "a place". Keeraarge is a corruption of this word. The tribes eastward pronoune their words harder wind more gutterally, hence the difference insound."

Dr. J. A. Chute, who interviewed the Delaware Indians in 1834 and obtained his information from them, gives the meaning of Ktaadn, as "on the high hill."

William Willis states that his informant, Sockbasin an Indian, said it meant "large mountain or large thing.",
Henry D. Thoreau, in his list of Indian names, without giving his authority, states that it is said to mean "highest land."

L. L. Hubbard, who has published a list of Indian words given to lakes streams and mountains of Maine, says it means "the biggest mountain" from <u>Ket</u> or <u>k't</u>, "big" and the inseperable <u>adene</u>, "mountain."

Rev. Eugene Vetromile, missionary to the Etchemin Indians, gives it as signifying "the greatest of mountains."

Joseph Nicolar, a penobscot Indian, writes as follows: "The word means highest hill. It does not mean mountain because mountain is called watjo. It is a diffucult thing to explain to one who is not familiar with our language, because it cuts off a great many words which are required to express certain things. For instance: spee-gan "high", na-ker-spee-kuk, "highest" pa-nardn-ek, "hill" na-ker-kee-nardn-ek, "highest hill". When I was a very small boy my people said that a hill by itself, not connected with any range of mountains, the name of Ktardn was given to it."

Not being familiar with the Indian language I am not able to discuss the subject, but simply give statements as I find them. While there is some slight difference of opinion, these writers mainly agree.

Description.

Mount Ktaadn lies about Lat. 45 53 and Lon. 69 W. It covers most of Township No. 3, Range 9 in Piscataquis County, Maine. Its hight is not far from one mile above the level of the sea. It must be at least thirty miles in circumference at its base, and perhaps forty, it being very irregular. The sides are steep and hard to climb. The easiest approach is from the north. A road was cut here from the Wissattaquoik stream to the summit of Ktaadn in 18- by Mr. F. J. Tracy of Stacyville, and that gentleman informs me that he rode to the top on horseback. The deer, caribou, and moose, have followed the road in their backward and forward tramps. and in places it has the appearance of a cattle path through the forest. The top of the pountain consists of table lands, elevations and valleys. One slightly sloping plateau covers at least one hundred acres. The elevations are simply great piles of boulders the size of barrels and hogsheads, which look as if some grant Titan in ages past had heaped them up one by one. As seen at a distance the mountain shows two large peaks. The southern one is called Pamola in honor of an Indian Deity or "Big Devil" which they suppose dwelt there and caused the storms and winds. The nothern peak is Ktaadn proper. The pecularity about Ktaadn that makes it different from other mountain in the world and adds to it so much interest, is the "basin." This is a large horse-shoe shaped cavity, like the crater of a volcano except that it opens on one side toward the east. This basin is fully two and

one half miles long by one and one half wide. One writer says there are in it six ponds varying in size from two to ten acres. The walls are, perhaps, two thousand feet high, nearly perpendicular, amouth, and impossible to ascend. At little distances there are torrent beds in which during heavy rains the water rushes down, carrying heavy stones with it and wearing into the solid rock. One can ascend in one of these dry beds, provided he has enough nerve, strength and endurance. The principal danger for a party is that the one ahead may loosen a stone which is likely to send those beneath him into the basin and eternity. From hear the center of the basin a long ridge called the "saddle" runs to the summit, cutting the basin into. This ridge affords an easier and less dangerous ascent than the sides. The floor of the basin is covered with loose rocks which have fallen from the top and sides. Hamlin gives the floor of the basin as 29000 feet above the sea. He also says that the hight of the main peak is 2287 ft. above the basin, making it 5187 ft. above the sea level, and Pamola is 1895 ft. above the basin. At the time I visited the mountain the torrent beds had little streams of pure cool water trickling down them. I went down in one of these beds and climbed up in another. In some places I could stand erect and drink. from the rill where the water came gurgling down vertical ledges. I have to state here that in every place I drank water on Ktaadn it was pure, cool, sweet and refreshing. In no place did I find any mineral water or any that had any disagreeable qualities. We frequently spoke of the excellence of the water, and all of the brooks

running from the mountain are po table any time of the year.

Geology.

The mountain is composed of granite. There are two varieties the red and the gray. The former appears to be at the top and the latter at the base. The country around for miles is of granite also. first rock of a different kind that I found was melaphyr, about fifteen miles to the east. There were a number of boulders of this scattered along for a mile. I imagine it was in situ but have no proof of this. On the summit are evidences of glacial action such as worn pebbles of quartz, argyllite, etc., which shows conclusively that the ice must have passed over Ktaadn during the glacial period. There have been slides down the mountain side. Williams says that one took place on the S. W. side in 1816, 1 1/4 miles long. east side is less than a mile. It occured between the years 1820 and . Hunters Rest is a curious place and worthy of discription. It is at the base of the mountain, on the west side of the long ridge stretching away to the north and known as Russel mountain. It was doubtless formed by a large price of rock breaking away from the mountain side and sliding to the foot. It is a sort of covered room open The back side is nearly vertical, about the hight of on three sides. one's head and the ceiling extends out eight or ten feet horizontally, so that the top and sides form almost a right angle like an ordinary It is of solid grantte and looks as if it were cut out by man. room.

A few sticks of wood and the ashes and brands from a fire, showed that parties had camped there. It affords good protection from the weather, equalling an open camp, for a hunter, but the thought of what my chances would be if the massive roof should fall, was enough to prevent me from especially desiring to spend a night beneath it.

Meteorology.

Ktaadn is the residence of the Indian Pamola or Big Devil, and they have many traditions of his doings. It is not strange that they should have these fables as the mountain is the birthplace of storms. One writer who has witnessed a thunder storm here says that the lightning flashes were terriffic, and the roar of thunder reverbrating from side to side of the basin filled one with awe. Ktaadn is commonly cloud capped when all around is bright and clear. Often the coolness on the top is sufficient to precipitate moisture, and showers are of frequent occurrence as the condition of the fuel will testify. I camped for three days on the north side near the timber line, and even the dead standing trees were so wet that it was not easy to keep a fire. I have further evidences of showers on the mountain when below it is clear, as I spent one cold, wet, dreary and sleepless night there when six miles from the base of the mountain, as I learned the next day, there was no rain. One day in particular I remember, clouds were forming on the mountain top, while the sun shone out of a clear sky. At times a vista would open for a moment and one could catch a glimpse of some lake or stream, then it would close up again

and the world be shut out. The clouds would go scurrying past in streaks and patches, hurried along by the Wind. At one time the fog settled down into the basin completely filling it while above it was clear and beautiful. Standing on the brink of this cavity I gazed down on the smoky mass imperitable to the eye and realized for once I was above the clouds. Thoreau had an experience so nearly like my own that I quote his account of it.

"At length I entered within the skirts of the cloud which seemed forever drifting over the summit, and yet would never be gone, but was generated out of that pure air as fast as it flowed away; and when, a quarter of a mile further I reached the summit of the ridge, which those who have seen in clearer weathersay is about five miles long, and contains a thousand acres of table-land, I was deep within the hostile ranks of the clouds, and all objects were obscured by them Now the wind would blow me out a yard of clear sunlight, wherein I stood; then a gray, dawning light was all it could accomplish, the cloud line ever rising and falling with the winds intensity. Some times it seemed as if the summit would be cleared in a few moments, and smile in sunshine; but what was gained on one side was lost on allother. It was like sitting in a chimney and waiting for the smake to blow away. It was, in fact a cloud factory; these were the cloud works, and the wind turned them off done, from the cool, bare rocks."

Snow remains late in the spring and falls early in the autumn.

One party records snow and hail falling the latter part of September.

It is not easy to get a clear view of Ktaadn and many writers have been dissapointed. I obtained a good view of the country near by but it was in dog-days when the air is thick, and at a distance of thirty or forty miles everything appeared hazy gradually growing more and more indistinct till it was lost in a blur.

Watahdin.

Wouldst thou hear music such as ne'er was planned
For mortal ear? Song wilder than the tune

The Arctic utters when its waters croon

Their angry chorus on the Norway strand, Or where Nile thunders to a thirsty land

With welcome sound from Mountains of the

Or lone Lualaba from his lagoon

Draws down his murmurous wave? Then thou shouldst stand

Where dark Katabdin lifts his sea of pines To meet the winter storm, and lend thine ear

To the horse ridges, where the wind entwines With spruce and fir, and wakes a mighty

Till the roused forest, from its far confines, Utters its voice, iremendous, lone, austere. William Prescott Foster in the Century. SALE-A new milen cow, young, sound and an easy milker, particularly suited for a family. Joseph A, Thompson, 83 Centre St. mar29 24*

range; one Glenwood parlor stove; one parlor set: two oak chamber sets and other household furniture. Inquire o' Wm. Corson, 28 Maple St, 2 to 4 p. m. mar29 3t*

S55; good as new; cost \$125. E. B.

TOUS PALE CHEAP—S cam launch, 22 X4% in good repair. Launch is at Now-port, Me. For particulars, address 22 Temple St., Boston, Mass. mch25 11v*

bugty, sleigh, pung, harness and robes. Geo. A. Mason, Kenduskeag Bridge m n21 tf

Rose SALF—The undersigned offers for sale his Iron Foundry, with its fixtures and equipments in good received and in the

Fauna.

Deer, caribou, and moose inhabit the forests on the slopes, and deer at least go to the very top, as I saw signs of their being all over the mountain and even found horns which they had shed on the summit. Bears are common around the base, and without doubtall the an imals of Northern Maine ascend to a greater or less hight. As I was espically interested in studying the plants of this region I did not observe the fauna closely so an not able to give an extended account of it. One party noticed a nearle in the basin, near then camp. I saw ruffed grouse as far as the timber line extended, one flock even near the top at the scrub. Toads were abundant in the woods up to where the firs were but a foot high. This was our common toad (Bufo). I saw at least two species of beetles on the summit, and on the southern slope there were numbers of green grasshoppers (Peyotettex glacalis, Soud). Last but not least by any means, were black flies. On the highest points the wind would generally blow them away, but on the sheltered side of a rock pile and they would swarm on one. It was almost impossible to endure lafe unless one was besmeared with grease containing tar, pennyoyal, or some other odoriferous substance.

Flora.

The mountain is well wooded on the sides and at the base. A great deal of lumbering has ben done around it, but lumbermen say that as soon as one begins to ascend the timber is not so good. The principal growth is spruce, This is mixed with fir, some birch and other trees. As one ascends, the spruce gradually gives way to fir which grows smaller and smaller till it dwindles away to a little sprawling evergreen that one walks over as he would boughs lying on the ground. the top of the mountain in the valleys is what is known as "scrub." This consists of fir growth about four feet high and three and three to six inches in diameter at the base. It is generally partially dead at the top, stands close together as it can grow, and has its craftly branches woven together so as to form an almost impenetrable barrier, One could scarcely penetrate a mile of it in a day. A section through one of these trees, if they can be called trees, about six inches in diameter, showed over one hundred rings so narrow that they could, with diffzeulty be counted. the wood was very hard and everything bore evidence of its slow growth. In one place on a smooth slope, firs about four feet high were growing snug together like a hedge, and so thickly were the branches intermingled that one of the party lay down and rolled over and over on the top for two or three rods, without breaking through. All vegetation hugs the ground. Willows spread out on the rocks and run along like creepers. Nothing rises higher than a few inches. Plants blossom with a half-inch of stem.

Sometimes the flowers are just sticking out of the ground. In places there are flat green patches covered with grasses, sedges, and rushes. The most common of these are Deschampsia caespitosa, Carex rigida, var. biglovia, and Juneus trifida. Thebillberry (Vaccinium uliginosum) was very abundant and one was suprised to see such quantities of blue, bright berries in so barren a region. (vaccinium vitiridea) and black enowberry The mountain cramberry (Empetrum nigrum) were common, and these varities of blue, black, and med berries when gathered and stewed with a liberal allowance of sugar made an appetizing sauce. Other plants which distinctly alpine and are more or less common on the summait, are willow (Salix uva-ursa), bearberry (Arctsostaphylos alpina), golden rod (Solidago vigaurea, var. alpina), mountain sandwort (Arenaria groenlandica) and club moss (Lycopodium selago). spot are common under and between rocks, and black and yellow lichens, the granite boulders. The following list of plants grow on the mountain All of these were observed after I had climbed some distance. Around the base of the mountain can be found all of the plants co......on to the nothern part of the state.

Lichens. Cetraria fahlunensis, Schaer. Cetraria juniperina, Ach. Cetraria cuculata, Cetraria islandica, Ach. Parmelia stygia, Ach. Parmelia centrifuga, Ach. Stereocaulon corallinum, Fr. Cladonia gracilis, Fr. var. vertici: lata, Fr. amaurocrea, Schaer. squamosa, furcata, Floerk. var. subulata, Floerk. rangiferina, Hoff. " var. alpestris, Floerk. cormecopoides, Fr. Umbilicaria probosidea, Dc. hyperborea, Hoff. li erosa, Hoff. Lecidea sanguinaria, Ach. Lecidea contigua, Fr.

Salix argyrocarpa, Anders. Salix uva-ursi, Pursh. Salix herbacea, L. Empetrum nigrum, L. Picea alba, Link. Abies balsamea, Miller. . Listera cordata, R. Brown. Habemaria dilitata, Gray. Habenaria obtusata, Rich. Smilacina trifolia, Desf. Maianthemum canadense, Desf. Juneus filiformis, L. Juneus, trifidus, L. Luzula spadicea, DC. var. melanocarpa, Meyer. Luzula arcuata, Meyer. Luzula spicata, Desv. Scirpus caespitosus, L. Eriophum alpinum, L. Carex atrata, L. var. ovata, Boott. Carex rigida, var. biglovii, Tuck. Carex lenticularis, Mx. Carex torta, boott. Carex rarifiora, Smith. Carex scirpoidea, Mx. Carex canescens, L. var. alpicola, Wanl. Hierochioe alpina, R & S. Phreum alpirum, L. Agrostis scalra, Willa. Agrostis canina, L. var. alpina, Oakes. Cima pendula, Trin. Leschampsia flexuosa, Trin. Poalaxa, Haenke. Agropyrum violaceum, Lange. Aspidium aculeatum, Swartz. var. braunii, Koch. Osmunda regalis, L. Lycopodium serago, L. Lycopodium annotinum, L. var. pungens, Spreng. Lycopodium alpinu..., L.

Lit. Ktaadn Piora.

Coptis trifolia, Salisb. Cardamine bellidifolia, L. Arenaria groenlandica, L. Oxalis acetoseila, L. Nemopanthes fascicularis, Raf. .. Rhamnus alnifolia, L'Her. Acer spicatum, Lam. Rubus chamaemorus, L. Geum maerophyllum, Willd. Potenti la fruticola, L. Potentilla tridentata, Ait. Pyrus arbutifolia, L. f. Pyrus americana, DC. Amelanchier oligocarpa, Roem. Saxifraga stellaris, L. var. comosa, Willd. Mitella muda, L. Ribes prostratum, L'Her. Epirobium normemanni, Reich. Circaea alpina, L. Heracleum lanatum, Mx. Cornus canadensis, L. Virurnum pauciflorum, Pylaie. Lonicera ca erulea, L. Solidago macrophylla, Pursh. Solidago virgaurea, L. var. alpina, Ligel. Aster radula, Ait. Aster acuminatus, Mx. Gnaphatium supinum, Vill. Arnica chamissonis, Less. Prenanthes serpentaria, Lursh. var. nana, Gray. Prenantnes boottii, Gray. Campanula rotundifolia, L. Vaccinium canadense, Kalm. Vaccinium pennsylvanicum, Lam. var. angustifolium, Gray. Vaccinium uliginosum, L. Vaccinium caespitosum Mx. Vaccinium vitis-idaea, L. Chiogenes serpyllifolia, Salisb. Arctosta hyllos alpina, Spreng. Cassandra calyculata, Don. Cassiope hypnoides, Don. Bryanthus taxifolius, Gray. Kalmia glauca, Ait. Rhododendron rhodora, Don. Rhododendron lapponicup, Wahl. Ledum latitolium, Ait. Loiseleuria procumbens, Desv. Moneses grandiflora, Salisb. Pyrola minor, L. Diapensia lapponica, L. Trientalis america, Pursh. Castilleia pallida, Kunth. var. septentrionaris, Gray. Polygonum viviparum, L. Letula lutea, Mx. f. Betula populiforia, Ait. Letula papyrifera, Marshall. var. minor, Tuck. Letura grandulosa, Mx. Almus viridis, DC.

Routes.

There are three approaches to the mountain, one of which is usually taken. One of these is on the south-swest leading from the West Branch of the Penobscot, another is from the basin on the southeast, and the third is from the north. Travellers choosing the first route ascend the West Branch in a canoe with an Indian or woodsman for a guide. The other two roads are by train to Stacyville, then by buck-board or foot, to the mountain about thirty miles. For directions, suggestions, and advice as to travelling, camping, etc. the reader is reffered to Hubbard's or Farrars "Guide to Nothern Maine" Williams says that the first party ever wisiting Ktaadn ascended in 1804, going up the West Branch.

The literature on Ktaadn is not large. There are but few really good accounts, principally because it has not been worked up. Jackson and Hitchcock our only two state Geologists, visited the mountain, but their reports are meagre. No survey has ever been taken of it, so all distances are mere guesses. Its height was determined by Dr. M. C. Fernald who carried a barometer to the summit in 1874, and found it to be 5215 feet above the sea level. This was found by barometre readings on the mountain compared with others in Winn. My own observations at Ktaadn were principally on the flora, and the list of plants given here is all I can vouch for, although everything found in this article is as near correct as I have been able to ascertain. If I have made any wrong statements it is due to ignorance, and I should be only too glad to correct them in a future article which I anticipate. I shall be glad to receive information from any one regarding Ktaadn. It is not easy to investigate this place, as one must go a considerable distance on foot over a rough country, carry his provisions and bedding, endure flies and mosquitos, take the chance of stormy weather, wade brooks and streams, climb rocks, scramble over logs, and crawl through brush. One can only carry food enough to last a few days, hence his stay is usually shott. For this reason our information is meagre.

I quote from a few writers just enough to interest the reader so that he may find the whole account and read for himself: First a few lines from Dr. C. T. Jackson.

"Leaving our camp on the mountain side the next morning at seven o'clock, we set out for the summit of Ktaadn, travelling steadily up the side, clambering over loose boulders of granite, trap, and graywacke, which are heaped up in confusion along its course. We length at reached a place where it was dangerous to walk on the loose stones, and passing over the right hand side, clambered up along the dwarfish bushes that cling to the side of the mountain."

"Two of our party became discouraged on reaching this point and, there being no necessity of their accompanying us, they were allowed to return to camp. The remainder of our ascent was extremely difficult, and required no small perseverance. Our Indian guide, Louis, placed stones along the path, in order that we might more readily find the way down the mountain, and the wisdom of this precaution was fully manifested in its sequel. At ten o'clock we reached the tableland which forms the mountainstop, and ascends gradually to the central peak. Here the wind and driving snow and hail rendered it almost impossible to proceed, but we at length reached the central peak. The true altitude of Mount Ktaadn, above the level of the sea, is a little more than one mile perpendicular elevation. It is, then evidently the highest point in the State of Maine, and is the most abrupt granite mountain in New England."

(P215)

Next From John S. Springer.

"Rough granite, moss-covered rocks are spread over its whole surface from the short growth upward. Blueberries and cranberries grow far up the sides. At the time of our visit considerable snow lay on its summit and lined the walls of the great basin. The party, of course, found plenty of drink. The Avalanch brook, having its source about the middle of the slide, furnished water pure as crystal. The ascent was attended with some danger and fatigue. Butwhat a view when the utmost heights are gained. What a magnificent panarama of forests, lakes, and distant mountains. The surface of the earth, with its many tinted verdure, resembled, in form and smoothness the swelling sea. In the course of the forenoon, light fogs from all the lakes ascended, and, coming to Ktaadn, interwined themselvesmost fantastically above our heads, then settled down and dispersed. But what can be fitly said about the wast expanse of the heavens, to be seen from such an elevation, especally when the sun goes down, and the glowing stars appear in silent majesty? All the gorgeous, artifical brilliancy of man's invention is more than lost in the comparison. Language has no power to describe a scene of this nature. The height of Ktaadn above the level of the sea is five thousand three hundred feet. Its position is isolated, and its structure is immense curiosity. From its summit very few populous places are visible, so extensive is the intervening wilderness. On its sides the growth of wood is beautiful, presenting a regular

variation in altitude and size all the way up to the point where it ceases." (P 209)

Thoreau. gives the following account of the roughness of the mountain

"Having slumped, scrambled, rolled, bounced, and walked by turns, over this scraggy country, I arrived upon a side-hill, or rather side- mountain, where rocks, gray, silent rocks, were the flocks and herds that pastured, chewing a rocky cud at sum set.

They looked at me with hard gray eyes, without a bleat of low.

The mountain seemed a vast aggregation of loose rocks, as if some time it had rained tocks, and they lay as they fell on the mountain sides, nowhere fairley at rest, but leaning on each other, all rocking stones with cavities between, but scarcely any soil or smoother shelf.

They were the raw material of a planet dropped from an unseen quarry, which the vast chemistry of nature would anon work up, or work down, into the smiling and verdant plains and valleys of earth. This was an undone extremity of the globe; as in lignite we see coal in the process of formation." (P 2224 223)

Winthrop says in his pleasant way .-

"Ktaadn's self is finer than what Ktaadn sees. Ktaadn is distinct, and its view is indistinct. It is a vague panarama, a mappy, unmethodic maze of water and woods, very roomy, very vast, very simple, - and these are capital qualities, - but also quite monotonous. A lover of largeness and scope has the proper emotions stirred, but a lover of variety very soon finds himself counting the lakes. It is a wide view, and it is a proud thing for a man six feet or less high to feel that he himself, standing on something he himself has climbed, and having Ktaadh under his feet for a mere convience, can see all Maine. It does not make Maine less but the spectator more, and that is a useful moral result. Maine's face thus exposed has no features; there are no great mountains visible, none that seem more than green hillocks in the distance. Besides sky, Ktaadn's view contains only the two primeal necessities wood and water. Nowhere have I seen such breadth of solemn forest, gloomy, were it not for the cheerful interruption of many fair lakes and brights ways of river linking them. " (P 231)

Willaimson in his history of Maine says: "The Indians feared till lately to bisit the summit of Ktaadn. They superstitiously supposed it to be the summer residence of an evil spirit, called by them Pamola who in the beginning of Snow-time rose with a great noise, and took his flight to some unknown warmer regions. They tell a story, that seven Indians, a great many moons ago, too boldly went up the mountain and were certainly killed by the great Pamola: for, they say, 'we never hear of them more, and our fathers told us, an indian never goes up to the top of Ktaadn and lives to return.'

They say that Pamola is very great and very strong indeed; that his head and face are like a man's, his body, shape and feet, like an eagle's, and that he can take up a moose with one of his claws"

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