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Alaska Forests. Evergreens-The Yellow Cedar and its Various Uses. The White Spruce-Pines and Cottonwoods-Firs and Hardwoods. Extent and Commercial Value of Alaska Forests-The 'Devil's Club.' (Special Correspondence of the Bulletin.) Fort Wrangel, October 8, 1879.

John Muir

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Evergreens .-- The Yellow Cedar and Various Uses.

The White Spruce---Pines and Cottonwoods ... Firs and Hardwoods.

Extent and Commercial Value of Alaska Forests-The "Devil's Club."

[SPECIAL CORRESPONDENCE OF THE BULLETIN.]

FORT WRANGEL, October 8, 1879. The bulk of the forests of Southeastern Alaska is made up of three species of evergreens, all is made up or times species of evergencias, and which are of good size, and grew close together, covering almost every acre of the islands, however rocky, and the margin of the coast and the mountain slopes, up to the height of about 2,000 feet.

THE TELLOW CEDAR.

THE IBLIOW CENDAR.

The most important of these as to timber is the yellow cedar, or cypress (Cupressus Nukatensis), a truly noble tree, attaining a height of icensis), a truly noble tree, attaining a height of 100 feet, and diameter of from 8 to 5 feet. The bronches are pinnate, drooping, feathery, disting into beautiful light green sprays, like 4 bee of the California libocedrus, but with finer foliage and more delicate plumes. The wood of this tree is undoubtedly the beat the wood or this tree is undouncedly increase the country affords, and one of the most valuable to be found on the whole Pacific Coast. It is palfy vellow, close grained, tough, durable, and takes a good polish; and to these qualities is added a pleasant fragrance, like that of sandal-wood.

vellow, close rrained, tough, durable, and takes a good pollsh; and to these qualities is added a pleasant fragrance, like that of sandal-wood. The only California wood that resemble this is the torrega, which has the same delicate yellow color and close texture, but the pleasant scent is wanting, while the trees are small and scattered in and out of the canyons. Some three or four ships have been built of yellow oddar, and small quantities, a few thousand feet at a time, have been sent to Fortland and San Francisco from Sitka, Fort Wrangel, Checan and Port Simpson, probably less than a million feet in all. Some little goes to China, and is hade into fancy boxes, it is said, to be returned your strength of the control of the contro

WHITE SPRUCE. The white spruce, or Sitka pine, (Lives Men-few) ranks next in value as to its timber, while it is far more abundant than the first. Perhaps The wince spruce, or since pine, (Asine-Mehifres) ranks next in value as to its timber, while
it is far more abundant than the first. Perhaps
one-half of all the individual trees in Southeastern Alaska belong to this species. In the
heaviest portions of the forest it grows to a
leight of from 150 to 175 feet, with a diameter of
from 3 to 6 feet, and in habit and general appearance resembles the Douglas spruce, an comhon abous Fuget Sound. It is somewhat less
slender, however, the branches cower a larger
portion of the trunk, and the needles, radiating
all around the branchlets, are stiffer, and so
sharp-pointed that the younger branches cannot
be comfortably handled without gloves. The
timber is tough, close-trained, white, and tooks
much like pine. It split freely, and makes cecellent shingles and shakes, and in general resti house-building takes the place of pine. It
more durable, and quite as strong as the
Pinget Sound spruce, and the best of it
would probably make quite as
the forests, however, the trees are too small for the
inasts and spars of the larger class or vessels.
A tree of this species, that grew back of Fort
Wrangel was a little over six feel in diameter.
Inside the bark, about fover six feel in diameter.
Inside the bark, about fover six feel in diameter.
In diameter, was 88 yearhold at the time it
was felled. Another species and the summ, was
764 years of age. I saw a raft of this spruce
that had been burdt for the legs of which
were a hundred feet in length, and nearly two
feet in diameter for the legs of which
were a hundred feet in length, and nearly two
feet in diameter for the length of the saverage height of the length of the larger class is the stump, was
104 years of age. Law a raft of this spruce
that had been beingthy or hinety feet, and diameter
ter at the ground, two feet, or perhass a little
ter at the ground, two feet, or perhaps a little
ter at the ground, two feet, or perhaps a little
tes.

The other species is the beautiful hen-lock spruce (Abies Mertensiana). Li is nore slender than its companion species, more slender than its companion species, but nearly as tall, and the young trees are more graceful in habit, but the timber is Inferior, and though very abundant is seldom made use of for any purpose, where any other may be had. Of the other species found in these dorests, but forming only a small portion of the whole, the most noteworthy is the grand arbor vitas [Thuig aignates], called red cedar hereabouts. It is distributed all the way up the coast from northern California. called red cedar hereabouts. It is distributed all the way up the coast from northern California, to about latitude 56 degrees. From the soft, easily-worked boles of this tree the Indians make their sine cances, some of them large enough to earry fifty or sixty men. A specimen nibbled out of a single log cut on the west coast of Vancouver Island is sixty, feet long, eight feet wide, and four feet deep.

better ten

· David

PINES AND COTTONWOODS. Of pines I have seen only one species (P., Contorta), a few trees of which, fifty or sixty feet high, may occasionally be found about the open edges of lakes and bogs. In the interior, beyond the mountains, it forms extensive forests. Cottonwoods, two or three feet-thick, and from forty to sixty feet high, grow on beds of flood-soil along the banks of the larger streams. PIRS-HABDWOODS.

A fir like Pieca Grandis is common on the mountain slopes of the mainland. It is usually quite small however, seldom formed to exceed a height of 60 or 70 feet, and the timber is of a very inferior quality. And up on the cold canyon sides along the banks of the glaciers, there is a very handsome little space like the Wilsiamseon of the upper forests of the Sierra. The conty hardwood L have seen in Alaska is alder, maple, wild apple and birch-nor species of seach. The birch grows mostly on steep declivities well back in the Coast Range in company with spruce and fir. The largest specimens are about forty feet high and a foot thick. The other species are found only about the margins of the main forests. The trees are quite small, deostly about eight or nine inches in diameter or less. mountain slopes of the mainland. It is usually

EXTENT AND VALUE OF ALASKAN FORESTS.

It appears, therefore, that, with the important exception of the yellow cedar, timber trees for every use, as good or better in quality, nor every use, as good or center in quanty, abound in California, Oregon, Washington Territory and British Columbia, while those sources of supply are also nearer the markets of the world. And it will only be after those pre exhausted on the more accessible portions of the coast that these grand Alaska forests will to any considerable extent be made available. Seward expected Alaska to become the shippard of the world. So it may a century hence. In the meantime this supply will keep. These Alaska forests are not threatened with fire, or any other destruction dependent on the agency of man. They are too wet to burn. I have never yet seen a trace of fire in all these woods. The roots are set in a deep sponge of wet mosses, kept saturated by the abundant rains that fall throughout all the segsous, so that running fires see impossible here while the climate remalaba as it is. Beyond the mountains in the interior forests the conditions are different—less rain and greater summer heat—so that these woods are oftentimes securged with fires as destructive as those that sweep the forest belt of the Sierra. In the vast region drained by the Yukon the principal tree, according to Kellogg & Dail, is the "white sprince," (Abès Albaz.) I saw it on the Arctic divide, near the headquarters of the Yukon. It is an exceedingly slender tree, spiry, erect and closely clad with short, leafy sprays, forming the sharpest and most arrow-like spires I ever saw in any forest. The tail-cat are about 125 feet high. Some of this inland timber may sometimes be made available for ship spars by floating it down to tide water; but centuries, will probably clapse before this time of used will come on the horizontal palmate portions of the main branches fifty or even a hardred feet above the ground. It is only where snow and rock avalanches have occurred that a bright grass-green is seen.

around. It is only where show and constant annehes have occurred that a bright grass-green is seen.

A forest pest—the "dryll's club."

Landing almost anywhere to take a walk in these woods you have first to fight your way through a fringe of bushes tedlously intertangled—rubus, huckleberry, dogwood, williow, elder, etc., and a strange looking woody plant about six feet high, with limber, rope-like stems and a head of broad leaves spread out however the covered with keen, spires, so that it is impossible to grasp it anywhere without getting a multitude of, thorns in the desh. This is echinogenest horizontally intertained by the Indians to threath witches—the most—truly—diabolical thrashing instrument, conceivable. It is the only plant that seems out of place here, it seems, rather, from its vince-like learning stems and heads of ample transluscent leaves, to belong to the tropics. Back in the shady deeps of the, woods the ground is covered with a thick felt of mosess but little roughened with bushes of any kind, and not a track will you see of the, not even those of the deer or bear that in-habit these woods; for on account of the obstructions offered by failed from the work of bulging roots; the animals follow the waterwary, leaving the woods virgin. But when from any cause they are traversed, lo the salted in the sky

ible track is left, any more than if they had walked in the air.

AGE OF ALASKA: From the universal distribution of the woods one would, be led at first sight to suppose that Alaska was an old country, considered with reference to its regeneration at the close of the Alaska wees an oid country, considered with reference to its regeneration at the close of the glacial period, and that it had been long exposed to the disintergrating action of post-glacial forces, and had thus been covered with soil and then planted with trees. But, on the contrary, Alaska is a very young country, and its forests are mostly set on solid rock that bad, but just emerged from beneath the ice-sheef. The existence of forests on so bare a surface is possible only in a wet and temperate climate like this. As soon as the ice leaves the rock it is covered with moss, a deep, hossy blanket of it, in which the tree-seeds find lodgment, and grow and weave their roots together into a sod, so that one supports tho other, and thus with a little anchoracy here and there in flasured spots they are enabled to stand on steep slopes even, without any soil about their roots, or covering vary sort save the damp mosses. On the very steepes and smoothest declivities the whole soil of trees with smoothest decliving the whole sou of trees will at times give ways and slip down in a heap to the foot of the wall. But on the ruins another and another growth is built, until the whole is covered. One has only to go to the banks of the existing glaciers to see this forest work

done.
Glre to Alaska the climate of California, and these evergreen islands and shores would be treeless, sun-beaten rocks.

JOHN MCI.