DE INTHE WER Untold Wealth of the Philippine Islands in the Finest of Hard Woods. Projected Railways will Soon Open Up the Timber to Mill Men. NORMOUS CANDES HOLLOW HARDITOOD DAMES PRECLOUS 15 VALUE ALUPAON, Ambos Camarines Prov- | on the Islands. CARABAO PULLING 2063 ON THE BEACH

what are probably the richest tropical forests in the world will be opened up to exploitation by the projected railway lines to be built in the Philippines under the supervision of the Insular Government of the Archipelago. The line leading from Manila south to the southern peninsula of Luxon will tap a dense virgin forest on the west coast of Ambos Camarines and Albay Provinces, 150 miles long azid is miles wide. The Government has accepted a bid for this line from Speyer Bros., and it will, with its total length of a little over 200 miles, including feeders, tap the timber beit of Pasacas, on the Gulf of Ragay, in less than two years. The line will place such important lumber.

Vast sawmilling plants in the States. But a giant plant would pay tremendously. There is nothing but grief and waste from a waste from the world will be opened up to exploitation by the projected railway lines in the object of the first worked up into marketable lumber.

Begining Exploitation.

When the Americans first occupied the archipelago. The intention of the cubic foot. Thus it sinks even in the time that the native begins to the cubic foot. Thus it sinks even in the subscit of the surface of the strongest, finest lite is to see with a bolo until it is worked up into marketable lumber.

Begining Exploitation.

When the Americans first occupied the archipelago in the feat was expressed that capital might exploit and ruthlessly destrop the forests regardless of the future, and the will, with its total length of the plant of the policy of the archipelago in the very door in the Philippines, for pounds to the cubic foot. Thus it sinks even in the cubic foot. Thus it sinks even in the cubic foot. Thus it sinks even in the time that the native begins to the cubic foot. Thus it sinks even in the cubic foot in the Philippines, for pounds in the Philippines, and the cubic foot in the Philippines, and rollers in the old type o road communication. The line leading north to Aparri, for the building of which the Manila & Dagupan Railroad is among its bidders, will open up some almost un known forested areas in Central Luzon there are no denser stands of hardwood timber anywhere than in the Philippine Islands. Their value is so enormous that it is estimated by the Forestry Bureau of insular government are already here. A the Archipelago at no less than \$2,000,000,000. No one knows, of course, just what It is estimated that two-thirds of the is the value of the standing timber in wonderful mahoganies, ebonies, ironwoods and other tropical hardwoods in the isiands, but it is so immense as to be scarcely susceptible of an accurate computation.

### Glory and Wonder of Forests.

Standing on the low-lying hills of the Island of Mindanae. Southern Peninsula of Luzon, one sees a typical Philippine forest-a vast sea of interwoven tree tops stretching for miles and miles in every direction and in the distance growing indistinct and merging

talist and lumberman, the forests of the Philippines probably excel the forests of any other portion of the world covering an equal area. With a charm and grandour all their own, with glant trees meeting in thick crown 50 to 150 feet overhead and shading the earth so that it is twilight at midday, with a firm carpet of dry mold clear of underbrush, like the park of a peer of England, and giving way often to huge tree forms 10 to 35 feet in height that seem like pigmy hothouse weaklings beneath such Cyclopean hardwood growths; there is a glory and won-der in the forests of the Philippines such as you will find nowhere else in the world.

## Riches Going to Waste.

In face of these statements one is apt to ask how it is that capital, ever seeking investment, has not entered into the Philippine lumber field. The answer comes back two-fold. In the first place, the Forestry Bureau has, until very lately, hampered even the legitimate development of the forests by a series of academic and unbusinessilke restrictions, so that millions and millions of feet of the finest tiffiber in the world have come to maturity and passed through the period of its commercial usefulness on to decay without vibrating to the stroke of the woodman's ax. The annual growth of the Philippine forests is estimated to be 1400,000,000 feet, or about three times the cut for 1900 in the entire United States. Fully 39 per cent of this annual growth is going to waste.

In the second place, it is only recently

the second place, it is only recently that the true worth of the Philippine forests has been recognized, or that anything like modern methods of lumbering have come to take the place of the anti-quated, costly and inefficient logging and milling systems of the old Spanish and Philippine lumbermen. Outside of Ma-nilla, Dalupach, in the southern peninsul-of Lozon, and Santa Maria, on the Island pd Mindanao, there is not a modern plant

D ALUPAON, Ambos Camarines Province, July 1—(Special Correspondence of The Sunday Oregonian.)—
What are probably the richest tropical forests in the world will be opened up to exploitation by the projected railway lines to be built in the Philipoines under the

ers, tap the timber beit of Pasacas, on the Gulf of Ragay, in less than two years. The line will place such important lumbering stations as Octoc Point, Binahian, Dalupaon and Jamuraun within easy raila trained expert of the forestry bureau. Often it happened that the expert on going out with the cutters was unable to identify the trees he had previously marked. But the old order of things is changed. The forestry bureau is invitand along the great Cagayan River. The ing lumbermen with capital. The Filipino railroads in the southern islands will per-form a similar office. Acre for acre there are no denser stands of hardwood and settlers. The surveyors and contract-ors for a great system of railroads to be built under the supervision of the

Philippine archipelage is covered with timber. With the exception of the most densely settled areas and the interior mountains of Northern Lazon, almost the entire Philippines are covered with huge forests of dense trees. The finest merchantable forests in the islands are for in the southern peninsula of Luzon, the southern peninsula of Luzon, the lands of Mindoro and Negros and on the

### Value Beyond Comprehension.

A few weeks ago the writer sought out John Orr, a Scotchman of 14 years' restand miles in every direction and in the distance growing indistinct and merging into the vista of bright green color that is characteristic of the foliage.

Wonderful are the forests of the Philippines: Either from the viewpoint of the artist and Nature-lover or the capitalist and lumberman, the forests of the line of the color of the line of the capitalist and lumberman, the forests of the line of the capitalist and lumberman, the forests of the line of the capitalist and lumberman. lumbering. Three weeks in the forests with Mr. Orr, investigating the size, texture, character and extent of the forests, revealed the fact that it is difficult for the man who has not actually been in the great lumber districts to understand their tremendous value and possibilities. In fact, the forcets of the Philippines possess possibilities for development as

great as any of the once great lumbering regions of the United States.

With the exception of the pine forests on the east and west coasts of Northern Luzen and the huge calentas or Philippine cedars found throughout the islands, all of the compercial woods of the Philippines are hard woods of the Philippines. the Philippines are hard woods. Their specific gravity is so dense and their texture so close that most of them, even when dry, will sink in sait water like so much lead. These woods not only occur in chonics and mahoganics, from which is made the most exquisite furniture, but they possess timbers of wenderful strength for building purposes and poculiarly suited to the tropies.

# Various Hardwoods.

There are two kinds of hardwoods in the islands, known roughly as construction woods and cabinet woods. Even many species of the construction woods, many species of the construction woods, which are deemed adapted to decorrative work in any country where hardwood is less abundant. Taking up the construction woods, probably the most possible and all the construction woods, probably the most possible and all the construction woods, probably the most possible and are huge and straight, are saved into logs. However, in any country where hardwood is less abundant. Taking up the construction woods, probably the most possible and the possible and

the planking and decks of ships in the world. It is found all over the Philip-pines, and probably in appearance resem-bles black oak more closely than any other tree. The logs come straight 40 feet long and 29 inches in diameter.

tree being somewhat larger in size and even greater in specific gravity than the narra. It is "one of the most valuable jewels of the home, where it remains for-ever impervious to decay," says an old Spanish padre (priest). "In China formerfeet long and 20 inches in diameter.

A wood something like the molave is the yacal, having a yellowish color. It is a tremendous weight-carrier. The logs come 70 feet long and 40 inches in diameter. The yacal is not as exceptionally hard as is the molave. One of the lighter woods in the Philippines is the mangachupay. It weighs about 62 pounds to the cubic foot, and, though much heavier than our commercial woods in the United States, many of the mangachupay logs will float. Mangachupay logs will float logs will float logs will floa

the states now, a forest running 5000 feet to the acra is a fortune. In general the Freetry Bureau counts on about 40,001 feet b. m. to the acra as the forests run, taking in both thick and thin

### Using the Carabao for Work.

In the Philippine forests the logs, after being cut, are hauled down to the water's edge by carabao teams. Frewater's edge by carabao teams. Frequently these huge timbers are of such extraordinary weight that, even when skidways are built, it will take from eight to 12 enormous carabao to haul them through the woods. Often when a difficult place is encountered, where there is a slight upward grade, it is necessary to make use of block and tackle, thus pulling with double the strength, to remove the great log that is as ponderous and obstinate as some giant boulder. When the logs have reached the ocean beach or the deep water of some river, they are attached to bamboo poles in order that they may be floated out to the sailing vessel or lighter in which they are carried to Manila.

Philippine imber is so heavy that half of a vessel's hold full generally loads her down close to the water line. For this reason in the islands one never sees a vessel with her decks covered with lember.

Hunters and lumbermen in the Philipas the supa.

Probably no tropical region in the

tically no competition. When the writer was recently on the Island of Mindoro he met three representatives of a big French firm who, after a year's tour over the world, had decided to locate in the Philippines.

At a conservative estimate, fair stands of timber in the Pnilippines will run about 100 valuable commercial trees to the acre, which, when put into log, will run not less than 30 cubic feet to the log. A cubic foot is equal to 12 feet board measure. The cheapest Philippine wood, red lauan, is bringing \$43 Amarican money per 1000 feet, heard measure. Molave is bringing \$125; red narra, \$150; acle, \$150. In fact standing timber in the Philippines is probably worth from \$400 to \$1200 American money to the acre, even where the growths run from 12,000 to 14,000 feet board measure an agre. In the states now as forest running \$000 poselbly get a shot. If takes buckshot or No. 2 shot to bring a callac down from the tops of the trees, though their bones are brittle and they die easily if HAMILTON WRIGHT.

MANSION BUILT OF

SOLID MAYOGAN

### APACHES WORSHIP THE SUN

Pray to Orb of Day at Outset of Every Great Undertaking.

The Apaches, like many other North American tribes, are sun worshipers. Their myths tell them that the sun is the

Their inyths tell them that the sun is the all-powerful delix, and to it all supplications are addressed. On going into battle planting com or on starting on a cattle-stealing expedition the sun is asked to look with favor.

That they baleve in a future world is proved by their custom of killing horses and burying them, as well as their clothing and implements of the chase, for life in the future world. Not only the medicine men, but the people, claim to hold communion with the Chindi, or spirits of their ancestors. their ancestors.

They are also great ballevers in omens.

tallemens and amulets, but are very con-servative, and it is with difficulty that one gets them to discuss things super-They will not talk among their own people with familiarity, and scarcely at all with the white man. among their

### Are You a Millionaire?

Teu may be a millionaire and yet not be aware of the fact.

Don't faint-here's the smelling salts.

Now we'll proceed.

A "dollar" millionaire is worth that number of simoleons.

A "cent" millionaire is the A "cent" millionaire is the possesor of

A "mill" millionaire is forth just \$1000. But to what class do you belong? Aha, we thought so.
Your millions, like our own, can only



huge calentas or cedar. It grows every-where, floats high out of the water, and almost all of the cigar boxes of the Orient are made of calentas. An enormous calentas timber exhibited at the St. Louis Exposition was cut not far from Dalupaon, where I am writing this article. A well-known construction and cabinet wood is the camagon; it comes both in jet black and asby red.

Among the cabinet woods is the narra, or Philippine mahogany, an immense tree found in great abundance and furnishing

An ordinary log is about 89 feet long and 20 inches in diameter. In giving the dimensions of logs, the average good-sized log is given rather than the extraordinary sizes.

A wood something like, though not quite as valuable as the mangachupay, is the guije.

The Philippine Ccdar.

A soft wood of the Philippines is the huge calentas or cedar. It grows everywhere, floats high out of the water, and An ordinary log is about 60 feet long and | wood polished, in time it becomes so lus- | ers as being valuable, but which have inrds appreciated the wonderful wonds. In remote provinces in the islands one will find mansions built by the old Spanirads with huge boards two feet in breadth, and shining like mirrors, bolted to the fleors; great doors made of single boards in natural color, wine black and red, that would have graced the homes of Washington or Jefferson. These are the kind of houses that one would be proud to be born in, get married in and die in. Such a dwelling is the one in which I am writing this article. "Kins John the First of Dulapon" they call the owner, from Singapore to Nagasaki, because of the many people under him.

The Ebony.

### The Ebony.

Probably ne tropleal region in the world possesses such an abundance of the most magnificent and costly hardwoods as do the Philippines. Nor is there any region where these woods can be more easily and cheaply lumbered. The great swamps which are such a hindrance to commercial lumbering in most tropical forests are not present here in the archipelago, where the forests are usually found on the hillsides or rolling country. These hills would allow of working overland cable stages, as worked in California and Canada.

Money Value of a Tree