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Gold, \$22,548; silver, \$4,954; nickel, \$355,498; copper, \$121,545; arsenic, \$2,238; and the following decreases—Iron ore, \$35,353; pig iron, \$40,821.

The increase in quantity and value of nickel and copper is notable, part of the gain in value being due to the larger output, and part to the fact that the mattes of the Sudbury District are now brought to a much greater richness in metallic contents than formerly.

The decrease in the output of iron ore is more apparent than real, and is explained mainly by the fact that navigation on Lake Superior had not opened on March 31, and therefore none of the product of the Helen mine had been moved.

The quantity of pig iron produced was almost exactly the same in both periods, but the value this year is somewhat less. About 52 per cent. of the ore smelted was from Ontario mines, as compared with 43 per cent. in 1901.

FOREST ENGINEERING.

A. T. Drummond, in an article in Queens' Quarterly on the need of forest engineers in Canada, says:

Our interest in Canada on these great problems of forest preservation, water supply, and, it might be added, irrigation, should be as great as that of the people of the United States. The various pulp companies now in operation or being started in the spruce districts, the large mill owners whose timber limits are in some cases so extensive, the water power companies which are so dependent on uniform lake and river levels, and our local governments which derive such a large revenue from the forests are all directly concerned not only in preventing the exhaustion of the timber, but in recuperating the extensive tracts of country which have already been exhausted by fire or the axe. The Dominion itself has also an especial interest in the subject. The clearing of the forests directly curtails the water supply in our canals, navigable rivers, and smaller lakes, by allowing the rains and melted snows to run rapidly off in the spring, and by immensely increasing the evaporation during the summer. The forest preserve around the lakes and other headwaters which feed our canals and navigable

rivers is all important to the continuance of unobstructed navigation.

The work thus far done by our Dominion and provincial governments has been of a very practical nature and has been most valuable. Large forest reserves have been created in Ontario and Quebec, as well as in the North-West Territories; the co-operation of many of the large limit holders has been secured in endeavoring to lessen the great annual destruction arising from forest fires; and in the North-West Territories tree-planting on the open prairie has been directly encouraged. Can we take any further steps in forest preservation and extension, either in the direction of what has proved valuable in the experience of the United States Bureau or otherwise? The continuance of great forest fires alone shows that much has yet to be done, while the advent, recently, of so many United States lumbermen as operators in Canada, the marked increase in the pulp business, and the enlarging government revenues from the Crown domain, all point to the importance of recuperating the very extensive tracts already cut over

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