

By no class of students, however, is the inadequacy of equipment more keenly felt than by the senior. A great part of the thesis and research work necessarily includes the treatment of new and unusual ores. Unless machinery is provided to enable him to carry through the various processes of concentrating, amalgamating, and cyaniding he is obliged to resort to makeshifts and appliances of home made manufacture, which give inferior and more or less unreliable results at best. A great deal of money has been lost in the mineral development of the state by the hit or miss methods previously in vogue, and only lately has the importance of preliminary treatment of ore begun to be recognized. In the matter of reference books those on hand are obsolete and in no better way could a reasonable sum of money be employed than in the purchase of texts and works giving the latest developments of the industry. Our subscriptions to publications are confined to but five. Some provision should be made for binding the few on hand and completing the files. A great deal of miscellaneous material is necessary to the mining student before graduation. An exhibit of mine maps and lantern slides, types of drills and explosives, of cables and screens and working plans of machinery should be available. This list is but a brief synopsis of the most indispensable requirements.

In answer to the natural query regarding criteria upon which to base a judgment of the amount which should be devoted to a department in a state university and particularly one which has for its object the training of men who are to develop industrial resources of the state, there are at least three points of view from which a decision may be rendered as to what shall constitute a just share of support. One which shall be fair to the student and fair to the state. The provision accorded should be some relation to the output and probable quantity of the resource to be developed. It should compare favorably with the amount provided by similarly situated states for the same purpose.

It should also attempt to meet the demand of the students who desire to prepare for that line of work. The value of the mineral output of the state of Oregon for the year 1906 as tabulated by the Department of the Interior is as follows: