

EXCERPTS FROM THE THIRTIETH ANNUAL REPORT

1911

George B. Co. 1911

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Year	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930
Population	10,000,000	10,500,000	11,000,000	11,500,000	12,000,000	12,500,000	13,000,000	13,500,000	14,000,000	14,500,000	15,000,000	15,500,000	16,000,000	16,500,000	17,000,000	17,500,000	18,000,000	18,500,000	19,000,000	19,500,000	20,000,000
Area (sq. mi.)	3,600,000	3,600,000	3,600,000	3,600,000	3,600,000	3,600,000	3,600,000	3,600,000	3,600,000	3,600,000	3,600,000	3,600,000	3,600,000	3,600,000	3,600,000	3,600,000	3,600,000	3,600,000	3,600,000	3,600,000	3,600,000

RECOMMENDATIONS
 The following recommendations are based on the data presented in the preceding pages. They are intended to guide the selection of the most suitable material for the purpose of the investigation.

Table 1. Summary of Data for the Investigation of the Properties of the Various Materials.

RECOMMENDATIONS

BASED ON THE RESULTS OF THE INVESTIGATION

No. 1.

Date of Issue: 1930

The results of the investigation have shown that the various materials under consideration possess different properties. The most suitable material for the purpose of the investigation is the one which possesses the highest strength and the lowest weight. This material is the one which is recommended for use in the construction of the various parts of the machine.

It is recommended that the material be selected on the basis of the following considerations:

1. The material should possess the highest strength.
2. The material should possess the lowest weight.
3. The material should be easy to work with.
4. The material should be of low cost.

The following table shows the properties of the various materials under consideration. It is recommended that the material with the highest strength and the lowest weight be selected for use in the construction of the various parts of the machine.

Material	Strength (lb./sq. in.)	Weight (lb./cu. in.)
Material A	100,000	0.1
Material B	120,000	0.1
Material C	150,000	0.1
Material D	180,000	0.1
Material E	200,000	0.1

It is recommended that the material with the highest strength and the lowest weight be selected for use in the construction of the various parts of the machine.

Prepared by the
 Department of Mechanical Engineering
 University of California, Berkeley
 1930