

BROOKHAVEN BIOLGY PROGRAM
ASSUMPTIONS FOR F 1952 and F 1953

The program assumption is that the Brookhaven Biology Laboratory will continue work on:

1. The genetic effects of radiation on higher plants of economic importance.
2. Factors affecting radiation sensitivity of microorganisms.
3. Effects of continuous gamma radiation on growth and yield of potatoes.
4. The mechanism of genetic effects produced in bacteria by absorbed radioactive materials.
5. The effects of radiation on silage crops.
6. Biosynthesis and carbohydrate metabolism of plants.
7. Phosphorylation cycles.
8. Mineral metabolism of insects.
9. Effects of selective internal radiation on the physiology of erythrocytes.
10. Effects of whole body radiation by the pile.

The level of activity for work on whole body radiations from the pile is expected to expand as soon as the pile is put into operation. It is anticipated that the level of activity for other phases of the program will increase commensurate with the facilities of the second phase of the biology building and the small animal building.

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| 1952 | assumption | \$950,000 |
| 1953 | assumption | \$975,000 |

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