

The Commonwealth of Massachusetts

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MASSACHUSETTS WATER RESOURCES COMMISSION  
73 TREMONT STREET, BOSTON 8, MASSACHUSETTS.

JANUARY 2, 1963.

REPORT BY THE WATER RESOURCES COMMISSION RELATIVE TO A STUDY OF THE WATER RESOURCES OF THE WESTFIELD RIVER VALLEY.

*To the General Court of Massachusetts:*

Under the provisions of Chapter 82 of the Resolves of 1960, the Water Resources Commission was authorized to make a study of the water resources of the Westfield River Valley. The time within which the Commission was instructed to complete its study was subsequently extended by Chapter 30 of the Resolves of 1962, which required that the final report should be filed by the first Wednesday of January, 1963. While the Resolve made provision for the Commission to receive funds to carry on these studies, no funds were appropriated by the General Court.

During the course of the survey, the Commission has done a considerable amount of field work on the availability of water resources, water needs, the availability of ground water, and the problem of flood control. In this regard, the Commission secured the cooperation of the U.S. Geological Survey to assist in the determination of the availability of ground water and the establishment of additional stream flow measurement stations. This work is currently being done during the present fiscal year.

In regard to the ground water study, the field work on the availability of water has been completed, but work has just begun by the staff of this Commission in making a ground water availability map showing the most suitable areas where ground water sources might be found. It will take several months before this map is completed and another two or three months before it can be printed and distributed.

In regard to the establishment of additional stream flow measurement stations, a number of temporary stations were established on tributary streams to measure the low flows. This data has not been submitted to the Commission by the U.S. Geological Survey to date. Furthermore, it would be desirable to continue making these low flow studies at least one or two more summers.

The U.S. Soil Conservation Service has also cooperated in studying certain tributary areas of the Westfield River. A watershed work plan was developed for the Powdermill Brook Watershed containing some 20 square miles, principally in the City of Westfield and the Town of Montgomery. As a result, the Water Resources Commission at the present time is constructing two reservoirs in this drainage area. This was authorized by the General Court under the provisions of Chapter 324 of the Acts of 1962. One reservoir is a multi-purpose reservoir to be used for flood control and fish and wildlife development as well as other recreational purposes, while the second reservoir is solely for flood control purposes. It is estimated that the two reservoirs will cost approximately \$277,000, of which \$16,500 was made available by the City of Westfield and the remainder by the Federal government.

A second watershed work plan is being developed for the Bradley Brook Watershed which is located in the towns of Blandford and Russell. This watershed has a drainage area of 10.9 square miles and it is tentatively planned to locate two reservoirs in the area. One reservoir will be used for flood control and as a source of domestic water supply for the Town of Russell. The second reservoir will be used for flood control, fishing, and other recreational purposes. Legislation has been introduced into the current session of the General Court to authorize the Water Resources Commission to construct these two reservoirs. It is estimated that they will cost approximately \$718,000, with the non-Federal cost to be paid by the towns of Blandford and Russell.

A third study is being made by the U.S. Soil Conservation Service of the drainage area of the West Branch of the Westfield River which contains some 95 square miles.

A fourth study is being made by the U.S. Soil Conservation Service of the drainage area of Munn Brook in the City of Westfield

and the Town of Granville. This brook has a drainage area of 22 square miles.

The Corps of Engineers of the U.S. Army started the construction of the so-called Littleville Flood Control Reservoir on the Middle Branch of the Westfield River. This reservoir has a drainage area of 52.6 square miles and the dam will be 164 feet in height. 23,000 acre feet of the storage capacity will be used for flood protection purposes, while 9,400 acre feet of storage in the reservoir is being reserved by the City of Springfield as a future source of domestic water supply. The estimated cost of the Littleville Reservoir is \$7,000,000, of which the Federal government will pay \$4,900,000 with the remainder to be paid by the City of Springfield.

In addition, the Federal government has authorized the Corps of Engineers to construct local flood protection works in the City of Westfield on the Westfield and Little rivers. The estimated cost of this project is \$3,680,000. The Water Resources Commission was authorized to represent the Commonwealth in carrying on this proposed flood control project in cooperation with the Corps of Engineers under the provisions of Chapter 638 of the Acts of 1962.

In addition, the Commission is coordinating a study of introducing other water usage in the existing Knightville Flood Control Reservoir located on the East Branch of the Westfield River. In this regard, the Commission is being assisted by the Department of Natural Resources, the Division of Fisheries and Game, and the U.S. Corps of Engineers.

In view of the fact that no special funds were made available to the Commission to engage technical assistance to carry on this study, plus the fact that studies being made by cooperating agencies have not been completed, it is recommended that the time for the Commission to file its final report with the Clerk of the Senate be extended until the last Wednesday in January in the year nineteen hundred and sixty-four, with the authorization to file progress reports from time to time as various phases of the work are completed.

A draft of suggested legislation to continue this study is included in Appendix A.

Respectfully submitted,

**CHARLES H. W. FOSTER**

*Chairman.*

## APPENDIX A

**The Commonwealth of Massachusetts**

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In the Year One Thousand Nine Hundred and Sixty-Three.

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## PROPOSED LEGISLATION

**RESOLVE EXTENDING THE TIME WITHIN WHICH THE WATER RESOURCES COMMISSION IS REQUIRED TO COMPLETE ITS STUDY AND FILE ITS FINAL REPORT RELATIVE TO THE WATER RESOURCES OF THE WESTFIELD RIVER VALLEY.**

1 *Resolved*, That the Water Resources Commission is author-  
2 ized to file progress reports from time to time and that  
3 the time within which the commission is required to complete  
4 its study and file its final report relative to the water resources  
5 of the Westfield River Valley, as authorized by chapter eighty-  
6 two of the resolves of nineteen hundred and sixty and con-  
7 tinued by chapter thirty of the resolves of nineteen hundred  
8 and sixty-two, is hereby extended to the last Wednesday in  
9 January in the year nineteen hundred and sixty-four.

THE UNIVERSITY OF CALIFORNIA

IN THE YEAR 1861

REPORT OF THE

REGENT OF THE UNIVERSITY OF CALIFORNIA  
 IN ANSWER TO A RESOLUTION PASSED BY THE SENATE OF THE STATE OF CALIFORNIA  
 IN THE YEAR 1859

1. The University of California was organized in 1850.
2. The first year of its history was from 1850 to 1851.
3. The year in which the constitution is referred to was 1850.
4. The first year of its history was from 1850 to 1851.
5. The first year of its history was from 1850 to 1851.
6. The first year of its history was from 1850 to 1851.
7. The first year of its history was from 1850 to 1851.
8. The first year of its history was from 1850 to 1851.
9. The first year of its history was from 1850 to 1851.

The General History of the Province

of the Province of the Cape of Good Hope

The Province of the Cape of Good Hope, situated at the southern extremity of the African continent, is bounded on the north by the Orange River, on the east by the Indian Ocean, on the south by the Cape of Good Hope, and on the west by the Atlantic Ocean.

The Province is divided into three parts, the Western, the Eastern, and the Southern, each of which has its own peculiar characteristics.

The Western part of the Province is the most fertile and populous, and is the seat of the Government. It is bounded on the north by the Orange River, on the east by the Indian Ocean, on the south by the Cape of Good Hope, and on the west by the Atlantic Ocean.

The Eastern part of the Province is the most fertile and populous, and is the seat of the Government. It is bounded on the north by the Orange River, on the east by the Indian Ocean, on the south by the Cape of Good Hope, and on the west by the Atlantic Ocean.

