

IRRIGATION REGULATING RESERVOIR

PRACTICE INTRODUCTION

USDA, Natural Resources Conservation Service – Practice Code 552



IRRIGATION REGULATING RESERVOIR

An Irrigation Regulating Reservoir is an excavated small storage reservoir constructed to regulate or store a supply of water for irrigation for a short period of time.

PRACTICE INFORMATION

The purpose of an Irrigation Regulating Reservoir is to collect and store water for a relatively short period of time in order to improve irrigation water management by regulating fluctuating flows in streams, canals, or from pumping plants, provide storage for tailwater recovery and reuse, and improve offsite water quality.

Planning consideration is given to short-term and construction-related effects; effects on the water budget, including effects on downstream flows or aquifers that would affect other water

uses or have undesirable environmental, social or economic effects; erosion, sediment, soluble contaminants and contaminants attached to sediment in runoff; water temperature changes downstream that could affect aquatic and wildlife communities; wetlands or water-related wildlife habitats; and cultural resources.

COMMON ASSOCIATED PRACTICES

This practice is commonly used in a Conservation Management System with the following practices

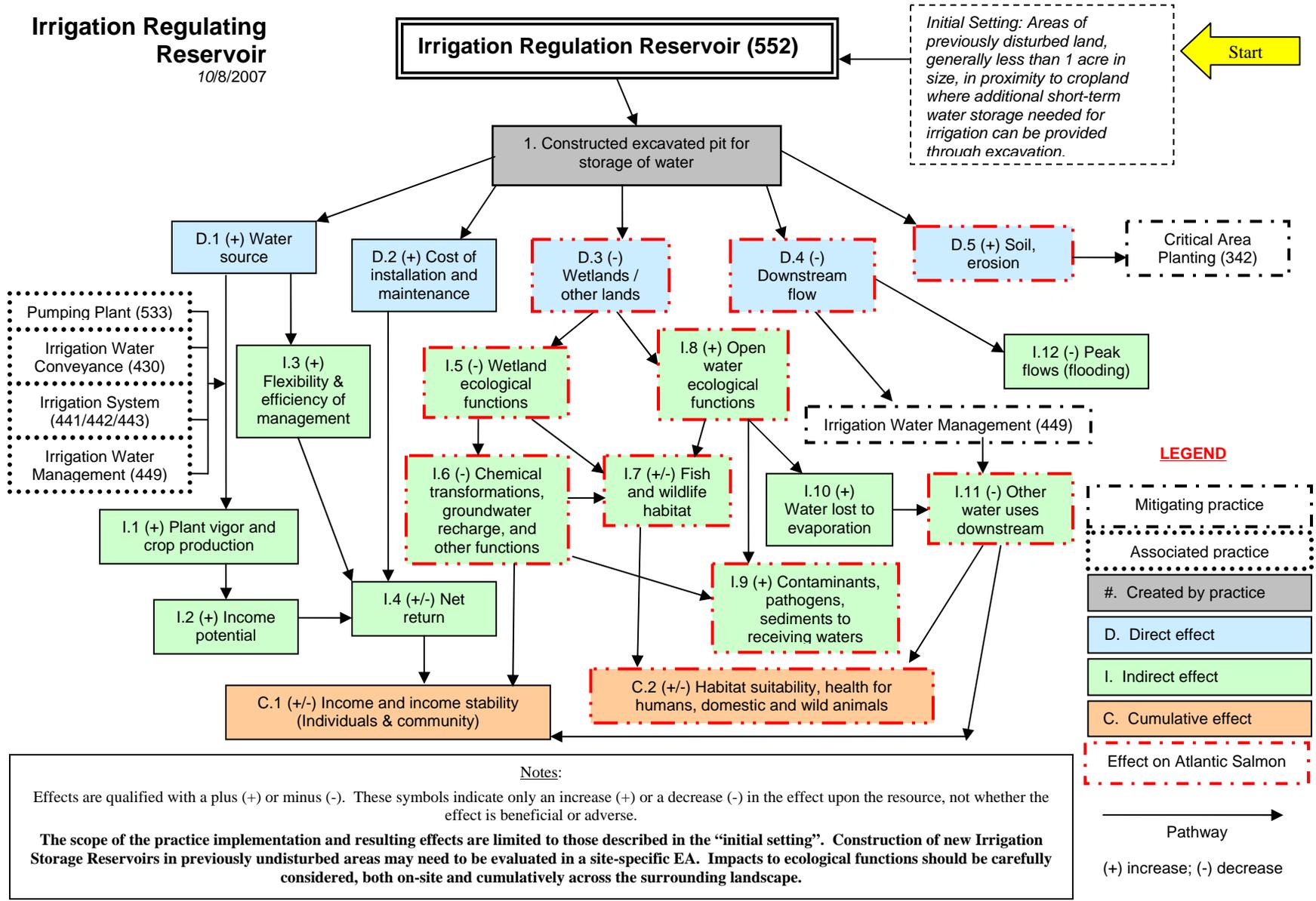
- Pumping Plant,
- Irrigation Water Conveyance,
- Irrigation System,
- Irrigation Water Management.

Refer to the practice standard in the local Field Office Technical Guide and associated specifications and Job Sheets for further information.

The following page identifies the effects expected to occur when this practice is applied. These effects are subjective and somewhat dependent on variables such as climate, terrain, soil, etc. All appropriate local, State, Tribal, and Federal permits and approvals are the responsibility of the landowners and are presumed to have been obtained. Users are cautioned that these effects are estimates that may or may not apply to a specific site.

Irrigation Regulating Reservoir

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The diagram above identifies the effects expected to occur when this practice is applied according to NRCS practice standards and specifications. These effects are subjective and somewhat dependent on variables such as climate, terrain, soil, etc. All appropriate local, State, Tribal, and Federal permits and approvals are the responsibility of the landowners and are presumed to have been obtained. All income changes are partially dependent upon market fluctuations which are independent of the conservation practices. Users are cautioned that these effects are estimates that may or may not apply to a specific site.