

ANAEROBIC DIGESTER, CONTROLLED TEMPERATURE

PRACTICE INTRODUCTION

USDA, Natural Resources Conservation Service – Practice Code 313



ANAEROBIC DIGESTER, CONTROLLED TEMPERATURE

A Controlled Temperature Anaerobic Digester is a managed temperature waste treatment facility.

PRACTICE INFORMATION

A Controlled Temperature Anaerobic Digester biologically treats waste as a component of an agricultural waste management system. It can be used to:

- Produce biogas for energy production,
- Reduce odors,
- Reduce greenhouse gas emissions,
- Reduce pathogens, and
- Improve nutrient management.

Design criteria for this practice include: site location, digester volume and retention time, flow rates, heating system, methane yield, 12-month energy budget, and process control and monitoring. An operation and maintenance plan is developed specifically for each system.

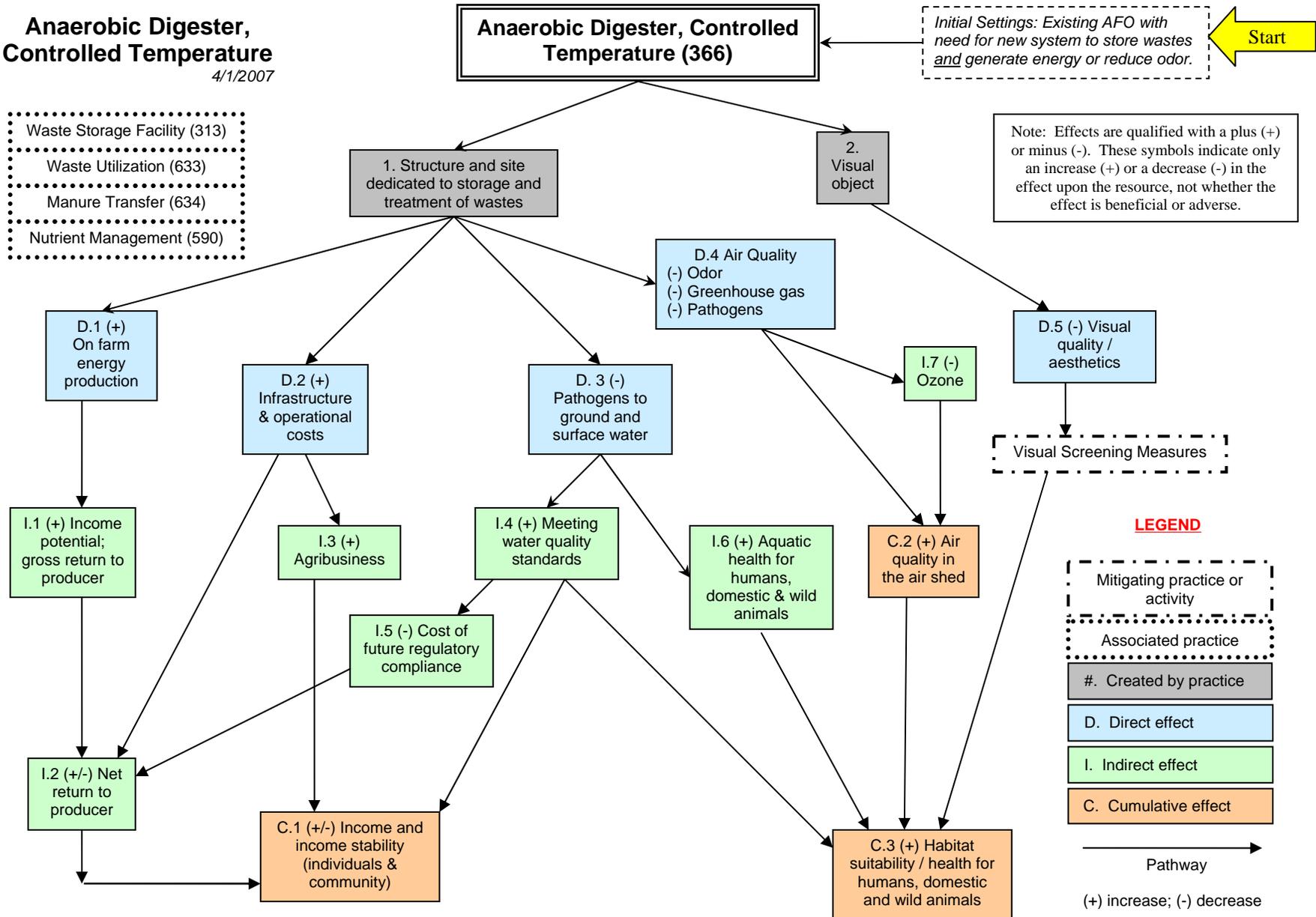
COMMON ASSOCIATED PRACTICES

This practice is commonly applied as part of a Conservation Management System with a Waste Storage Facility, Waste Utilization, Manure Transfer Critical Area Planting, Nutrient Management, and other practices. Visual screening measures may also be used where aesthetics are a concern.

Refer to the practice standard in the local Field Office Technical Guide and associated practice specifications 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.

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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 landowner and 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.