

NSSP Model Ordinance Aquaculture Chapter Overview

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MO Chapter
VI.
Aquaculture
Chapter

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Federal Waters

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NSSP MO Aquaculture definition

Aquaculture means cultivating shellfish in controlled conditions for human consumption. **Cultivation** includes **propagation** and **growing of shellfish**. These activities may occur in natural or man-made water bodies. These activities include **seed collection, production, and cultivation** in natural water bodies when shellfish are **held off the bottom** such as the use of **racks, bags, or cages**, and when shellfish are held in man-made water bodies such as the use of tanks, ponds, or raceways. These activities do not include depuration or wet storage.

Authority:
NSSP MO
Chapter VI
@.01
General

AQ activities regulated in this chapter include: (1) **Seed production** in **prohibited or unclassified** waters (2) AQ **structures** that **attract birds** or mammals (3) land based AQ.

The Authority shall: (1) **Approve** written operational plans (2) **Inspect** operations at least annually (3) **Inspect records** (4) When AQ attracts **birds or mammals** that their presence **should be** considered for possible adverse **effects** on the growing area.

Authority Requirements

NSSP MO Chapter VI @.02 Seed Production

- The Authority shall establish the maximum seed size ... in prohibited waters. In determining the maximum seed size require a minimum of 120 days of growing to reach market size.
- Authority shall establish appropriate corrective actions for when seed exceeds the maximum seed size when it has been produced in waters classified as prohibited.
- All sources of seed produced or collected in prohibited waters shall be sanctioned by the Authority.







Harvester/Dealer Requirements

Exceptions:

Hatcheries and nurseries located in [approved or conditionally approved](#) waters are [exempt](#).

Hatcheries and nurseries located in [restricted or conditionally restricted](#) growing areas are [exempt](#) but are [subject to relay requirements](#) for seed that exceeds the maximum size established by the Authority

General Harvester/ Dealer Requirements

Permitted by Authority, have a [harvester license](#) and certification as a dealer where necessary.

Operated within provisions of the permit and based on operational plan.

Obtains [permission](#) from Authority [prior](#) to using facility

Seed that [exceeds](#) maximum seed size shall be subject to [relay or depuration](#) prior to direct market ... [restricted, conditionally restricted, conditionally approved closed](#).

Only drugs sanctioned by the FDA used in shellfish treatment.

Meets NSSP harvest, processing, storage, shipping requirements ... raised in land based system, exceeds market size

[Records](#) maintained for [2 years](#) and shall include source of seed and water source, its treatment, if necessary its quality for land based systems.

Seed Production in water classified as prohibited or unclassified

Seed may come from **any** growing area ...

- Seed from waters classified as **prohibited or unclassified** is **sanctioned** by the Authority; and
- Each AQ site that cultivates seed in **prohibited or unclassified** waters has an **written operational plan** approved by the Authority **prior** to its implementation.

Aquaculture that attracts birds or mammals

Each AQ site that the **Authority determines** may attract sufficient birds or mammals that their waste presents a human health risk shall have a written **operational plan** approved prior to is implementation.

Land Based Aquaculture

Each land based AQ site must have a written operational plan **approved** by the Authority **prior** to its implementation.

- Operational plan
- Maintain construction and site plans
- Aquaculture permits
- **Water systems.** Flow through systems using approved or conditionally approved water from a growing area may be sold to direct market.
- **Water quality** in closed or recirculating systems must meet the requirements of Chapt VII.04 C(3) or be relayed or depurated.

Operational Plans

Description of the design and activities of the site or facility.

Specific site and boundaries.

Types and locations of any structures, including rafts, pens, cages, nets ...

Species of shellfish to be cultured and harvested.

Procedures to ensure no poisonous or deleterious substances are introduced.

Each AQ activity may have additional specific requirements.

Polyculture Systems and Aquaculture in Federal Waters

No change to the Polyculture section.

Requirements for harvesters in Aquaculture in Federal Waters was added with similar requirements as other state water AQ sites.



FDA State Program Review

- **Operational plans** for seed production in prohibited waters, AQ structures that may attract birds or mammals, land based AQ.
- State AQ **regulations** pertaining to AQ and seed production.
- **Permits and records** to ensure that operational plans are being implemented.

Records

- Operational plans
- Inspection reports
- Lease activity reports
- Harvest activity reports
- Resubmergence records
- Bacteriological water quality data
- Shellfish bacteriological quality data
- Seed records

