

WHAT IS THE PURPOSE OF AN NMP?

- ▶ To allocate manure nutrients across acreage to minimize any loss to the environment
- ▶ To establish agronomic application rates for improved crop fertility and yields

WHY ARE THEY REQUIRED IN IDAHO?

To ensure responsible management, and to prevent nutrients from reaching water ways, keeping our rivers, lakes, streams, and drinking water healthy and productive

NMP REQUIREMENTS

- ▶ Annual soil test for each field owned or operated by the dairy
- ▶ Manure nutrient analysis
- ▶ Maps of facilities and farm ground
- ▶ Lagoon construction reports and approvals
- ▶ Parlor water usage
- ▶ Facility stormwater runoff estimates
- ▶ Total # of cows and annual nutrients produced
- ▶ Crop rotations for five years
- ▶ Total crop nutrient use
- ▶ Prescribed manure application rates
- ▶ Manure handling practices
- ▶ Nutrient budgets

HOW ARE THEY REGULATED?

Idaho State Department of Agriculture (ISDA) is the agency charged with regulating NMPs. Dairy facilities and records are inspected multiple times each year.

DID YOU KNOW?

There are four dedicated environmental dairy inspectors who work for ISDA. On average, inspectors complete 1,560 environmental inspections each year.

WHO IS REQUIRED TO HAVE AN NMP?

- ▶ Every dairy facility in the state is required to operate under an NMP

NMP STANDARDS

PHOSPHORUS THRESHOLD

Manure application rates are determined by annual soil tests results.

Fields must maintain a soil test value lower than 40ppm-Olsen Phosphorus each year.

PHOSPHORUS SITE INDEX

Evaluates each individual field's characteristics to determine risk of phosphorus loss and manure application rates.

Included in the assessment are the following factors:

- ▶ Natural soil conditions
- ▶ Olsen Phosphorus soil test
- ▶ Distance to surface waters
- ▶ Slope of the field
- ▶ Soil leaching and erosion potentials
- ▶ Best management practices implemented (i.e. sediment basins, cover cropping, perennial crops)

THE GOAL

WHOLE FARM NUTRIENT BALANCE



MAXIMIZE NUTRIENT UTILIZATION

- ▶ Increase crop yields
- ▶ Enhance water use efficiency
- ▶ Improve soil health with manure application

MINIMIZE NUTRIENT LOSS TO THE ENVIRONMENT

- ▶ Reduce soil erosion
- ▶ Improve water quality

TANYA OLDHAM

Environmental Services Director

435.660.9501

tanya@idahodairymens.org

MEGAN SATTERWHITE

Director of Operations

208.420.6795

megan@idahodairymens.org

idahodairymens.org/services

IDAHO DAIRY
NUTRIENT MANAGEMENT PLANS

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