

REGULATORY PROGRAM FOR DAIRIES IN THE CENTRAL VALLEY REGION Item 7



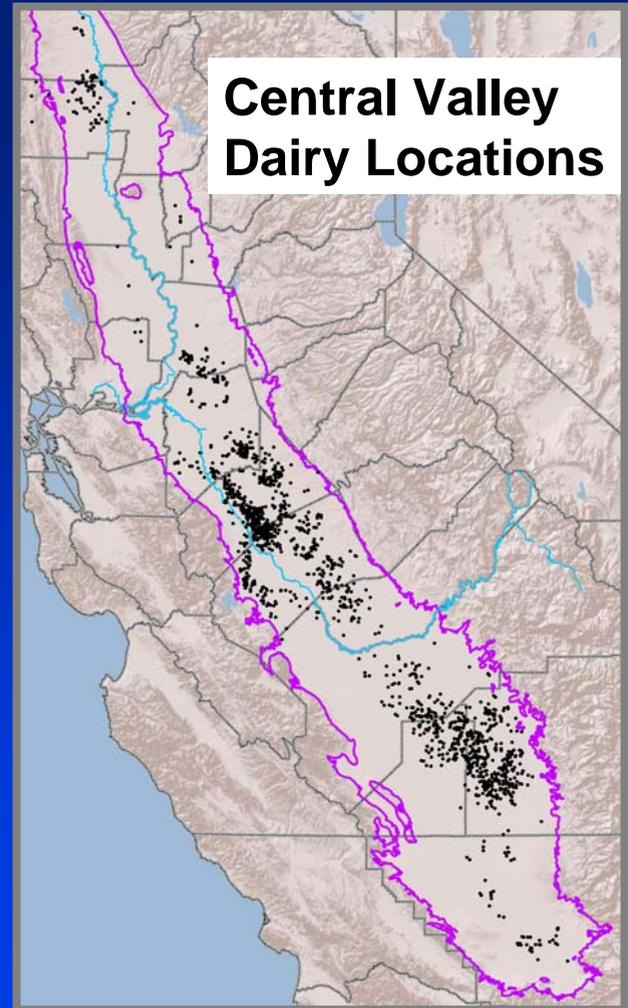
Pamela Creedon
Executive Officer
Clay Rodgers
Assistant Executive Officer

PRESENTATION OVERVIEW

- Program Scope
- Program History
- Current Status
- Anticipated Future Actions

DAIRY ISSUE

- ~1.5+ million milk cows on 1,400+ dairies.
- Dairies range from <100 to 10,000 milk cows.
- Milk cows average ~112 lbs of manure/day, or ~170 million lbs of manure/day.
- In addition, manure imports from Chino Basin.



PROGRAM SCOPE

- 1,400+ Milk Cow Dairies
- 100 Cow Feedlots and Heifer Facilities
- 200+ Poultry Facilities (chickens and turkeys)



PROGRAM HISTORY (Pre 2007)

- Conditional Waiver
- Title 27 (Chapter 15)
- Significant Growth



CONDITIONAL WAIVER

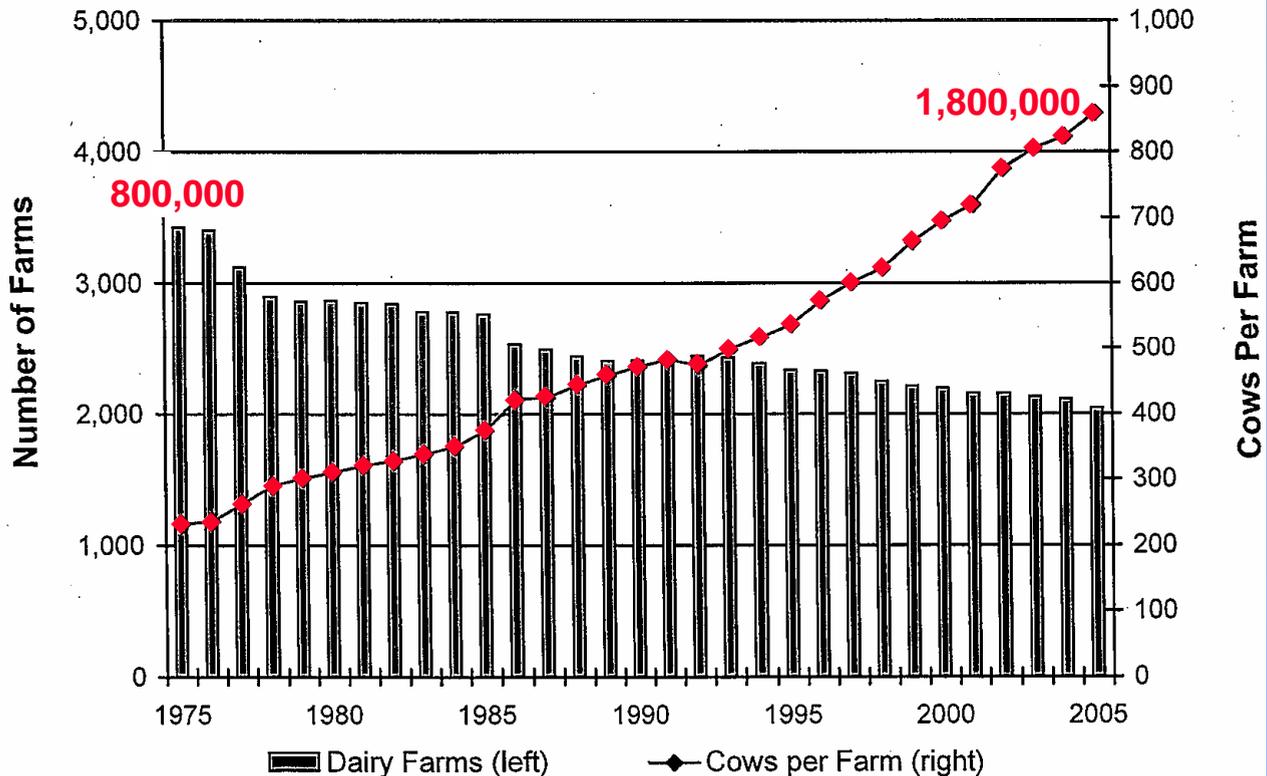
- From 1982 to 2003
- Limited Monitoring
- Monitoring Data Indicated Impacts

TITLE 27

- Surface Water
- Wastewater Management
- Disposal Field Management
- Manured Area Management
- Regulation Review

DAIRY GROWTH

**Number of Farms and Cows Per Farm
California, 1975-2005**



CURRENT STATUS

- Overview of Existing Milk Cow Dairy General Order
- Groundwater Monitoring
- Other Orders
- Compliance and Enforcement

GENERAL ORDER FOR EXISTING MILK COW DAIRIES

- Phased Approach and Outreach
- Nutrient Management Plans
- Salinity Reports
- Waste Management Plans
- Annual Reports
- Monitoring

PHASED APPROACH AND OUTREACH

- Why a Phased Approach?
 - Dairies were existing
 - Not historically regulated
 - Documented water quality impacts
 - Improvements needed
 - Facility evaluations
 - Planning and time
- Outreach

NUTRIENT MANAGEMENT PLANS

- Control Nutrient Losses
- Nutrient Budget for LAAs
 - Soil Test Results
 - Manure and Wastewater Analyses
 - Irrigation Water Analyses
- Record Keeping
- Periodic Updates

SALINITY REPORTS

- Identify Salt Sources
- Evaluate Measures to Minimize
- Implement Approved Measures

WASTE MANAGEMENT PLANS

- Evaluation of the Production Area
 - Flood Protection System
 - Waste Retention System
 - Animal Housing Areas
 - Manure and Feed Storage Areas
- Proposed Modifications
- Operation and Maintenance Plan
- Backflow Prevention

ANNUAL REPORT

- Facility Changes
- Amount of Waste Produced
- Summary of Discharges
 - Land Application Areas
 - Storm Water
 - Tailwater
- Monitoring Data

MONITORING

- Inspections
- Nutrient
- Discharges
- Groundwater

GROUNDWATER MONITORING (3 Parallel Tracks)

- Supply Well Monitoring
- Individual Monitoring Systems
- Development of Conceptual Alternatives (i.e., Representative Monitoring)

WHAT IS REPRESENTATIVE MONITORING, AND WHY?

- Monitoring a Selected Set of Facilities
- Monitored Facilities to be Representative
- Extrapolate Results to Sites Not Monitored

Representative Monitoring Program Goals

- Identify Management Practices that are Protective of Groundwater Quality Under Different Conditions
- Confirm that Appropriate Management Practices are being Implemented
- Confirm that Water Quality Improvement will be Achieved, in Areas Where Needed

Other Orders

- NPDES Permit for Dairies with Surface Water Discharge
- General Orders for Anaerobic Digesters
- Individual WDRs

COMPLIANCE AND ENFORCEMENT

- Progressive Approach
- Inspections
- Surface Water Dischargers
- Non-Submittal of Reports
- Impacts to Groundwater

FUTURE ACTIONS

- Permitting
- Monitoring Data
- Management Practices
- Compliance and Enforcement



Questions ?

