

DPSL Farm Tutorial Workshop 2023/2024 Content Overview

The Fundame	entals of Dairy Production
	Liveweight Base
Energy weas	urement and Understanding ME
	Energy Requirements of Cows
Understandir	ng the Cow
	The Origin of Cows
Body Conditi	ion
-	Dairy Cow Condition Scoring
	DairyNZ Condition Scoring Made Easy
	Condition Scoring Chart
	Wormade Simple Condition Scoring for Cattle
	Body Condition and Dairy Cows
Managing In	Calf Heifers
	Returning In Calf Heifers
	Heifer Mastitis
Definitions	- Farm Systems
	- Abbreviations

<u>Day 2</u>:

<u>Day 3</u>:

Case Studies

Animate & Zeolite Trials

<u>Day 1</u>:

Carbohydrate I	-
	Fibre (Complex Carbohydrate) in the Dairy Cow Diet
Cow Comfort	
	Dairy Shed Design
	Milking Time – Cow Comfort & Productivity
	In Shed Feed Systems
	Feed Pads
	Evaluation of Viability of Feed Pad Construction & Use
	Paddock Feeding, including adlib Troughs and Feeders
	Feed Wastage
Late Lactation	and Dry Off
The Dry Cow	
	Managing Dry Cows for the Next Lactation
	Dry Cows and Mud
	Winter Crops
Cow Housing	
con nousing	Cow Housing – The Basics
	Freestall Barns
	Understanding Compost Barns
	Enderstanding Compost Dams
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The Transition	Cow – Precalving
	Overview of Metabolic Disease
	Recent Research on Hypocalcemia & Immunity
The Transition	Cow – Feeding the Precalving Cow
The Transition	Cow – Calcium Metabolism
	The Transition Period – Preventing Milk Fever & More
Calf Rearing an	nd Management
J	Basic Management of The Newborn Calf
	Great Calves for Great Heifers
Calf Rearing an	nd Management - Problems, CMR, Meal
	Cow - Feed and Additive Options

Day	11.	
Day	/ 4.	

<u>Day 5:</u>

Protein Digestion – Nitrogen Metabolism		
Simplifying Protein Metabolism & Milk Urea		
The Transition Cow – Calving to First Milking		
Management of Calving & Newly Calved Cow		
Calcium		
The Transition Cow – The Fresh Colostrum Cow		
The Fresh Cow		
Milking Colostrum Cows OAD		
Energy Sources For Fresh Cows		
The Transition Cow – Problems		
Growing Great Heifers		
Replacement Growth Targets		
Exercises		
Energy Deficiency Disease		
Energy Deficit Conditions		
Ketosis : Causes and Biochemistry		
Diseases of Dairy Animals - Ketosis		
Diseases of Dairy Animals – Pregnancy Toxaemia		
Ketosis : Clinical Signs, Outcomes and Diagnosis		
Monitoring Ketosis in Lactation Dairy Cows		
Ketosis : Treatment and Prevention, inc. Liver Function		
The Cow in Equilibrium part 1 & 2		
Dry Matter Intake		
Dry Matter Intake		
Feed Efficiency		
Substitution		
Calculating DMI and CSR Exercise		

<u>Day 6:</u>

Reproduction: The Big Picture
Feeding For Breeding – the Basics
Reproduction: Hormones and Pregnancy, High Production and The RED Cow
Reproduction, High Production and R.E.D
Reproduction: Management and Nutrition, Heat Detection, Successful Reproduction
Detection of Oestrus in Dairy Cows
Successful Reproduction
Reproduction: Conclusion, Definitions & Targets
Successful Mating is a Complex Business
Mineral & Vitamin Supplementation:
General Principals
Macrominerals

Day 7:

Rumen Function: Review Rumen Dysfunction: What & Why Rumen Dysfunction: Signs, Outcomes, and Diagnosis Rumen Acidosis Strategies Rumen Dysfunction: Prevention and Treatment Feeding to Minimise Acidosis Ruminal Acidosis Soda Grain and Caustic Soda Water Fibre for Dairy Cows Fibre Requirements of Dairy Cows Mertens Rumen Dysfunction: Associated Problems L.D.A. or Left Displaced Abomasum Day 8:

What Is Fat? Palm Kernal Expeller meal Protected Fats & Higher Energy Density Fat Digestion and Metabolism Lipids & Longevity Milk Fat Production Understanding the Regulation of Milk Fat Synthesis Heat Stress and Hot Cows – Cause and Effect Hot Cows Summer Feed for Milking Cows Summer Production Heat Stress and Hot Cows – Prevention Heat Effects Part 1 ~ 4 Heat Stress ~ Summary of Recent Worldwide Studies Milk Fat Manipulating FEI

<u>Day 9:</u>

Milk Volume Milk Protein Milk Fat Milk Fat Milk Production Problems Mineral – Trace Mineral Mineral – Vitamins Summer Autumn Calving Getting the Most from Your Silage – Trish Lewis Reducing the cost of silage Inoculant Selection Inoculant Selection – Answers for Sil-All Assessing DM of Silage Maize Silage Chop Length

Day 10:

Farm Systems Comparison & Profitability Farm Systems Profitability Higher Input Systems are More Profitable IFAC – Pathways to Profit Ration Formulation What Can I Afford to Pay for Feed? Consequences of Death and Disease The Role of Farm Animal Health in Dairy Profitability Financial Implications of Herd Wastage Profit Limiting Diseases The Economics of Infectious & Production Diseases in Dairy Herds Exercises

Non Pasture Feeds