

Publications and Conceptual Plans

Sustainable Agriculture Management Branch

May 2009



B.C. Ministry of Agriculture and Lands

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Publications identified with \$ are not stocked but contain valuable information; these must be ordered directly from the source for a fee.

BCMAL publications are available to our client audience (BC producers) at no charge. When there is a charge to non-clients the price is shown after the title of the publication.

Non-clients may obtain a copy of these manuals by contacting the Resource Management Branch.

Publication Sources

AA	Alberta Agriculture	MWPS	Midwest Plan Service
AAEC	Atlantic Agriculture Engineering Committee	NOSCG	North Okanagan Soil Conservation Group
AC	Agriculture Canada	NRAES	Northeast Regional Agricultural Engineering Service
BCH	BC Hydro		Service
BCMAF	BC Ministry of Agriculture and Fisheries (now BCMAL)	OMAF	Ontario Ministry of Agriculture and Food
BCMAFF	BC Ministry of Agriculture, Food and Fisheries (now BCMAL)	PAMI	Prairie Agricultural Machinery Institute
BCMAL	BC Ministry of Agriculture and Lands	PFRA	Prairie Farm Rehabilitation Administration
BCME	BC Ministry of Environment	PLRC	Provincial Land Reserve Commission
BCMF	BC Ministry of Forests	PFRC	Pacific Forest Research Centre (EC)
BCSTTC	BC Soil and Tissue Testing Council	PNW	Pacific Northwest Extension
CPS	Canada Plan Service	PU	Purdue University
CSCG	Cloverdale Soil Conservation Group	SA	Saskatchewan Agriculture
DPCG	Dairy Producers' Conservation Group	U of C	University of California
EC	Environment Canada	VIDO	Veterinary Infectious Disease Organization
EFP	Environmental Farm Planning Program	WCB	Workers Compensation Board
F & O	Fisheries and Oceans Canada	*	BCMAFF Factsheet
FMB	Farm Machinery Board, Manitoba	L	Leaflet (Letter size - may include building directions)
HPSFG	Hog Producers' Sustainable Farming Group	LP	Leaflet and Plan (separate Blueprint)
ICBC	Insurance Corporation of BC	\$	The listed Publication is available only from the source for a fee
IIABC	Irrigation Industry Association of BC		
MAF	Manitoba Agriculture & Food		
MSU	Michigan State University		

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Farm Mechanization

Energy

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| 210.510-1 Farm Storage and Handling of Petroleum Products * 1994 | 430.200-1 Micro Hydro Power * 1985 |
| 210.510-2 Propane as a Fuel for Vehicles and Tractors * 1982 | 430.310-1 Photovoltaics-Sunlight to Electricity In One Step * 1987 |
| 306.200-1 Hot Water Floor and Space Heating (CPS) 1985 | |
| 306.220-1 Tuning Your Heating System for Maximum Efficiency * 1985 | |

Feed and Grain Handling, Processing and Drying

- | | |
|--|--|
| 240.100-2 Forage Handling Systems * 1982 | 280.380-1 Ginseng Dryer Operation * 1998 |
| 240.100-4 Forage Harvesting, Storage & Feeding Losses * 1983 | 280.380-2 Ginseng Dryer Design * 1998 |
| 240.300-2 On-Farm Grain Handling & Storage Layouts (AA) 1989 | 372.100-3 Planning Grain Handling & Storage Systems * 1987 |
| 240.330-1 Heated Air Grain Dryers (AC) 1987 | 372.100-8 Natural Air Grain Drying: Minimum Airflow Rates for B.C.'s Peace River Area * 1984 |
| 240.330-3 Grain Aeration and Unheated Air Drying (MAF) 1986 | 372.300-2 Silage - Make it Right! * |

Field Equipment

- | | |
|--|---|
| 200.000-4 Members Handbook (Island Equipment Owners Association) 2005 | 210.104-1 Calcium-Water Table for Tractor Tires * 1986 |
| 200.100-1 Farm Vehicles on the Move ICBC 2000 | 222.500-1 Wetland Meadow Development * 1991 |
| 200.200-1 Farm Machinery Performance * 1980 | 224.600-1 Discers (AC) 1988 |
| 200.200-2 Matching Tractor Horsepower & Farm Implement Size (MSU) 1977 | 224.650-1 Conservation Tillage/Seeding Equipment * 1991 |
| | 244.211-1 Raspberry Cane Topping Machine * 1991 |

Sprayers

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|--|---|
| 234.005-1 Suggestions for Field Sprayer Operation & Maintenance 1986 | 234.006-2 Orchard Spray Drift Management * 2003 |
| 234.005-2 Calibration Worksheet – Boom Sprayer * 1998 | 373.130-1 Designing Facilities for Pesticide and Fertilizer Containment (NRAES) \$ 1992 |
| 234.006-1 Drift Sensitive Areas * 2003 | 373.130-2 On-Farm Pesticide Storage and Handling Facility * 1994 |

Farm Structures and Livestock

Conceptual Plans

Blueprint-type conceptual plans are also available on a wide range of livestock buildings and equipment. (See **Conceptual Plans** Section). The series covers beef cattle, dairy, poultry, swine, sheep, vegetable storages and a section on special structures. We offer, free of charge, one copy of any of these conceptual blueprints. Handbooks containing information about these plans can be viewed at any B.C. Ministry of Agriculture and Lands office.

Farmstead Planning, Management and Building Construction

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|--|---|
| 300.000-1 Farm Structures Program * 2000 | 375.250-1 Anti-Slip Floors for Dairy Cattle * 1993 |
| 301.000-1 Engineering Consulting Services for Agricultural Structures * 2000 | 377.400-1 Steel Buildings for Agriculture * 1990 |
| 305.000-1 Structurally Sound Farm Buildings * 1990 | 378.600-3 Wood Preservation on the Farm (BCMAFF) 1993 |
| 305.100-1 Plan Farm Buildings as a System * 1980 | 380.900-1 Shortage of Bedding Sawdust in the Fraser Valley* 1984 |
| 305.100-2 Farm Building Construction Check List * 1983 | 384.200-2 Rodent & Bird Control in Farm Buildings (CPS) 1985 |
| 305.100-3 Farmstead Planning (AC) | 384.200-4 Rodent Control on Agricultural Land in B.C. (BCMAFF) 1986 |
| 305.104-1 Siting and Management of Poultry Barns * 2008 | 384.200-6 Control of Rats and Mice on Poultry Farms * 1996 |
| 305.105-1 Farm Building Contractors in the Fraser Valley* 2005 | 384.200-7 Starlings and Livestock Farms * 2000 |
| 305.105-2 The Farm Building Contract * 1989 | 823.400-2 Flood Construction Levels and Setbacks for Farm Building Situations |
| 375.130-1 Chemically Resistant Concrete * 1989 | |

Heat and Ventilation

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|--|--|
| 306.220-1 Tuning Your Heating System for Maximum Efficiency * 1985 | 306.435-3 Pork Producers – Help for Your Ventilation Problems * 1984 |
| 306.400-3 Fan Ventilation Principles & Rates (CPS) 1987 | 306.445-1 Greenhouse Ventilation (CPS) 1990 |
| 306.400-4 Ventilation Handbook (BCMAFF) 1985 | 306.450-2 Selecting Fans for Livestock Buildings (CPS) 1987 |
| 306.405-1 Natural Ventilation (CPS) 1990 | 306.480-1 Fresh Air Inlets (CPS) 1987 |
| 306.406-2 Troubleshooting Livestock & Poultry Ventilation Problems (CPS) 1987 | 306.490-1 Minimizing the Chances of Ventilation Disasters * 1993 |
| 306.406-3 Ventilation Instruments (CPS) 1987 | 306.610-1 Protecting Workers in Livestock Buildings from Dust and Gases (CPS) |
| 306.408-1 Ventilating & Heating Small Livestock Rooms (CPS) 1988 | 306.610-2 Farm Workers Health Problems Related to Air Quality inside Livestock Barns (CPS) |
| 306.410-1 Ventilation of the Milking Complex * 1990 | 331.000-2 Insulation & Vapour Barriers in Potato Storage Buildings (PNW) 1987 |
| 306.420-1 Micro-Processor (Computer) Control of Ventilation for Livestock and Poultry * 1985 | 331.000-4 Potato Storage Ventilation * 1999 |
| 306.435-2 The Environment in Swine Housing (MSU) 1981 | 362.001-1 Floor Heat for Swine (MSU) 1981 |

Fencing

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|--|---|
| 307.000-0 BC Agricultural Fencing Handbook (Binder of information) 2002 | 307.251-1 Deer Exclusion Fencing for Orchards and Vineyards Using Woven Wire * 2001 |
| 307.000-1 BC Agricultural Fencing Handbook - Table of Contents* | 307.252-1 Elk Exclusion Using Woven Wire Fencing * 2001 |
| 307.050-1 New Fence Construction - Types of Fences, etc. * 1996 | 307.252-2 Elk Exclusion Using Electric Fencing * 2001 |
| 307.050-2 Fencing Planning and Estimating Worksheet * 1998 | 307.260-1 Livestock Control - Non-Electric Fence Designs * 1996 |
| 307.050-3 Fence Construction Safety * 1996 | 306.260-2 Livestock Control - Electric Fence Designs * 1996 |
| 307.050-4 Estimating Beef Cattle Fencing Costs * 2003 | 307.260-3 Pasture Fencing for Horses * 2002 |
| 307.100-1 Commonly Used Wire for Agricultural Fences * 1997 | 307.271-1 Deer Farm Perimeter Fence * 1995 |
| 307.100-2 Fence Wire:- Dispensing, Stapling, etc. * 1996 | 307.300-1 Introduction to Electric Fencing * 1996 |
| 307.100-3 Droppers for Wire Fences * 1996 | 307.310-1 Electric Fence Controllers * 1996 |
| 307.110-1 Fence Posts - Materials, Installation, etc. * 1996 | 307.320-1 Grounding Systems for Electric Fences * 1996 |
| 307.131-1 Splices for High Tensile Smooth Fencing Wire * 1984 | 307.320-2 Training, Testing and Trouble Shooting – Living with an Electric Fence * 1996 |
| 307.220-1 Brace Assemblies for Wire Fences – What they are, How they work, etc. * 1996 | 307.400-1 Gates, Cattleguards and Passageways * 1996 |
| 307.220-2 Brace Assemblies for Wire Fences – End, Inline, etc. * 1996 | 307.410-1 Hinged Wire Gate * 1985 |
| 307.230-1 Wind and Snow Fences * 1997 | 307.600-1 Wire Fence Construction * 1996 |
| 307.250-1 Crop Protection and Wildlife Control * 1996 | 307.600-2 Wood Fence Construction * 1996 |

Feed Storage

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| 200.308-4 | Silo Gas (CPS) 1982 | 372.100-9 | Planning a Feed-Grain Storage for Beef Operations * 1987 |
| 200.308-6 | Gas Poisoning on the Farm (AC) 1979 | 372.210-1 | Planning a Hay Storage * 1987 |
| 305.800-1 | Hay Floor Safety Fence * 1992 | 372.300-3 | Planning a Horizontal Silo for Beef Operations * 1987 |
| 305.800-2 | Hay Mow and Silo Fires * 1987 | 372.302-1 | Safety Precautions for Filling Horizontal Silos * 1977 |
| 372.000-1 | Grain Forage and Feed Structures (CPS) 1986 | 372.302-3 | Sizing Horizontal Silos * 1985 |
| 372.100-3 | Planning Grain Handling and Storage Systems * 1987 | | |

Beef

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|-----------|--|-----------|--|
| 307.050-4 | Beef Cattle Range Fencing Installed Costs * 1991 | 315.600-1 | Corrals with Curved Lanes and Chutes * 1982 |
| 310.000-2 | Beef Housing and Equipment Handbook (MWPS) \$ 1991 | 315.600-2 | Corrals for Handling Beef Cattle (AA) \$ 1994 |
| 310.000-7 | Beef Cattle Housing and Equipment – General Info (CPS) 1987 | 383.000-1 | Manure Storage Structures * 1990 |
| 312.200-2 | Establishing a Feedlot in BC – Legal and Practical Considerations * 1999 | 383.100-3 | Field Storage of Solid Agricultural Waste * 1995 |

Dairy

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|-----------|---|-----------|--|
| 305.120-1 | Farm Building Costs-Dairy-Fraser Valley * 1993 | 375.250-1 | Anti-Slip Floors for Dairy Cattle * 1993 |
| 305.800-1 | Hay Floor Safety Fence * 1992 | 381.200-1 | Daily Scraping Manure Management Systems for Dairy Farms * 1991 |
| 306.410-1 | Ventilation of the Milking Complex * 1990 | 381.210-1 | Slotted Floor Free Stall Dairy Barn with Sub-Floor Manure Storage * 1985 |
| 320.000-1 | Dairy Freestall Housing and Equipment (MWPS) 1997 | 383.000-1 | Manure Storage Structures * 1990 |
| 320.000-4 | Dairy Cattle Housing and Equipment (CPS) 1985 | 383.100-1 | Earth Bank Storages for Dairy Manures * 1978 |
| 324.500-1 | Tingle Voltage in Milking Parlours * 1984 | 383.100-2 | Sizing Dairy Manure Storage Facilities * 1990 |
| 324.500-2 | Stray Voltage (CPS) 1987 | 383.350-1 | Gravity Flow Slurry Channel for Dairy Manure* 1990 |
| 326.200-3 | Free Stall Design * 1994 | 383.510-1 | Circulatory Agitation Systems for Dairy Manure Storage Tanks* 1990 |
| 326.200-4 | Rubber Mats for Dairy Free Stalls * 1985 | | |
| 326.300-1 | Dairy Calf Housing * 1975 | | |
| 326.300-2 | Housing for Healthier Calves * 1985 | | |
| 326.370-1 | Veal Calf Housing * 1983 | | |

Poultry

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|-----------|---|-----------|--|
| 305.104-1 | Siting and Management of Poultry Barns * 2008 | 383.000-1 | Manure Storage Structures * 1990 |
| 340.000-1 | Poultry Housing (CPS) 1976 | 383.100-3 | Field Storage of Solid Agricultural Waste * 1995 |
| 343.000-1 | Growing a Small Flock of Turkeys (U of C) 1981 | 384.200-6 | Control of Rats and Mice on Poultry Farms (BCMAFF) 1996 |
| 343.100-2 | Raising Chukar Partridges (U of C) 1982 | 384.300-1 | Options for Handling Massive Bird Losses on Fraser Valley Poultry Farms * 1999 |
| 343.100-3 | Raising Geese (U of C) 1981 | | |
| 345.000-1 | Recommended Code of Practice for the Care and Handling of Poultry from Hatchery to Processing Plant (AC) 1990 | | |
| 380.900-1 | Shortage of Bedding Sawdust in the Fraser Valley *1984 | | |

Goats

355.000-1 Dairy Goat Housing * 1979

Horses

307.260-3 Pasture Fencing for Horses * 1994

386.000-5 Horses in the Community... A Yea or a Neigh ? * 1998

386.000-7 Building an Environmentally Sound Outdoor Riding Ring * 1999

386.000-8 Environmentally Friendly Horse Farm Through Better Manure/Waste Management * 2003

649.000-1 Horse Pasture Renovation * 1998

649.000-2 The Basics of Horse Pasture Management * 1998

655.000-2 Woodwaste Use - Precautions to Horse Owners ! * 1992

Sheep

350.000-1 Sheep Housing (CPS) 1974

350.000-3 Sheep Housing and Equipment Handbook (MWPS) \$ 1982

Swine

306.435-2 The Environment in Swine Housing (MSU) 1981

306.435-3 Pork Producers - Help for Your Ventilation Problems * 1984

360.000-2 Site and Facilities Planning for Swine Production (CPS) 1987

360.000-3 Swine Barn Construction & Services (CPS) 1987

360.000-5 Swine Housing and Equipment (CPS) 1986

362.001-1 Floor Heat for Swine (MSU) 1981

362.300-1 Farrowing Barn Design & Layout (VIDO) 1986

362.400-1 Swine Nursery Design & Management (VIDO) 1991

362.500-1 Feeder Barn Design & Management (VIDO) 1987

381.600-1 Odour Control on Swine Farms * 1978

381.600-2 Swine Manure Systems (CPS) 1989

381.600-3 Swine Waste Management Systems * 1982

381.610-1 Developing Good Dunging Habits of Swine on Partially Slotted Floors * 1982

Greenhouses

306.220-1 Tuning Your Heating System for Maximum Efficiency * 1985

306.445-1 Greenhouse Ventilation (CPS) 1990

334.200-2 Hobby Greenhouses (AA) 1989

334.200-3 Greenhouse Equipment Suppliers and Contractors * 2005

334.230-1 Greenhouse Heating Requirements (CPS) 1983

512.000-2 Bio-Sand Filtration * 1999

Other

720.000-1 Fish Pond Management * 1985

770.000-1 Heliciculture – Culture of Edible Snails * 1992

Fruit and Vegetable

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|-----------|---|-----------|---|
| 280.000-2 | Basic Labeling Requirements for On-Farm Processed Food * 1989 | 331.000-2 | Insulation and Vapour Barriers in Potato Storage Buildings (PNW) 1987 |
| 280.600-1 | Refrigeration Principles * 1989 | 331.000-3 | Planning Seed Potato Storages * 1988 |
| 280.600-2 | Principles of Freezer Design * 1989 | 331.000-4 | Potato Storage Ventilation * 1999 |
| 306.300-1 | Refrigeration Requirements for Fruit and Vegetables * 1989 | 336.000-1 | Support Systems for High Density Orchards (BCMAFF) 1989 |
| 306.300-2 | Layout and Design of Refrigerated Storages* 1989 | 336.100-1 | Installation of Bird Proof Netting for Horticultural Crops * 1992 |
| 306.300-3 | Small Scale On-Farm Cold Storages * 1995 | 373.130-1 | Designing Facilities for Pesticide and Fertilizer Containment (NRAES) \$ 1992 |
| 330.000-1 | Commercial Storage of Fruits & Vegetables (AC) 1988 | 670.100-1 | B.C. Frost Protection Guide (BCMAFF) \$5.00 1988 |
| 330.000-3 | Storage of Fruits & Vegetables (BCMAFF) | | |

Environment

General

- | | | | |
|-----------|---|------------|--|
| 502.100-1 | A Users' Guide to Working In and Around Water BCME | 649.000-4 | Grazing Frequency and Utilization * 2005 |
| 543.100-0 | Drainage Management Guide EFP 2005 | 649.000-5 | Seasonal Considerations for Grazing Management* 2005 |
| 551.400-0 | Irrigation System Assessment Guide EFP 2005 | 649.000-6 | Pasture Design * 2005 |
| 577.300-0 | Irrigation Management Guide IIABC 2005 | 649.000-8 | Monitoring Grazing Lands * 2005 |
| 648.000-3 | Watershed Stewardship A Guide for Agriculture (F&O, BCME, BCMAFF) | 649.000-9 | Managing Grazing Lands During Drought * 2005 |
| 649.000-0 | Grazing Management Guide EFP 2005 | 649.000-10 | Pasture Management * 2005 |
| 649.000-3 | Improving Livestock Distribution * 2005 | | |

Agroforestry

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|-----------|--|
| 100.100-1 | Nut Culture in British Columbia 1984
2005 |
| 870.218-3 | Farm Practice: Agroforestry |

Riparian

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|-----------|--|------------|--------------------------------------|
| 590.302-1 | Watering Livestock Directly from Watercourses * 2005 | 649.000-7 | Riparian Pasture Design * 2005 |
| 590.302-2 | Improved Livestock Access to Water Using GeoGrids * 1994 | 810.210-12 | Changes In and About A Stream * 2005 |
| 590.302-3 | Offstream Watering to Reduce Livestock Use of Watercourses and Riparian Areas * 2006 | | |

Waste Management

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|-----------|--|-----------|---|
| 383.100-3 | Field Storage of Solid Agricultural Waste * 1995 | 386.000-7 | Building an Environmentally Sound Outdoor Riding Ring * 1999 |
| 384.300-2 | Large Animal Disposal – OnFarm Composting Option for the South Coast Region of BC * 2005 | 511.300-1 | Water Quality Evaluation of Agricultural Runoff in the Lower Fraser Valley * 1994 |
| 384.300-3 | Large Animal Disposal – OnFarm Burial Option for the South Coast Region of BC * 2006 | | |

Water Conservation

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|-----------|--|-----------|---|
| 500.310-1 | Irrigation Tips to Conserve Water on the Farm * 2004 | 543.100-0 | Drainage Management Guide (BCMAFF) 2005 |
| 577.100-1 | Irrigation Scheduling Techniques * 1997 | | |

Waste Management

Composting

382.500-0	B.C. Agricultural Composting Handbook (BCMAFF) Binder of Information 1998	382.500-13	Co-Composting with Off-Farm Wastes * 1996
382.500-1	Composting – Introduction * 1996	382.500-14	Economics of Composting * 1996
382.500-2	The Composting Process * 1996	382.500-15	Using Compost * 1996
382.500-3	Characteristics of On-Farm Composting Materials * 1996	382.500-16	Composting – Suggested Reading & References * 1996
382.500-4	Blending Materials for the Composting Process* 1996	382.500-17	Glossary of Composting Terms * 1996
382.500-5	Composting Methods * 1996	382.500-23	Composting to Reduce the Waste Stream (NRAES) \$ 1991
382.500-6	Site Selection for Composting * 1996	382.500-24	On-Farm Composting Handbook (NRAES) \$ 1992
382.500-7	Managing Agricultural Composting Systems * 1996	384.300-2	Large Animal Disposal – OnFarm Composting Option for the South Coast Region of BC * 2005
382.500-8	Managing Poultry Mortality Composting Systems * 1996	384.300-3	Large Animal Disposal – OnFarm Burial Option for the South Coast Region of BC * 2005
382.500-9	Managing Pork Mortality Composting Systems* 1996		
382.500-10	Mortality Compost Bin Design * 1996		
382.500-11	Composting – Environmental Concerns * 1996		
382.500-12	Regulations Affecting Composting * 1996		

Waste Management

200.308-1	Beware of On-Farm Manure Storage Hazards (PU) 1982	386.000-7	Building an Environmentally Sound Outdoor Riding Ring * 1999
380.550-1	Copper Content of Soils on South Coastal BC Hog Farms * 1994	386.000-8	Environmentally Friendly Horse Farm Through Better Manure/Waste Management * 1999
380.700-1	Management & the Nutrient Value of Manure * 1982	387.100-1	Options for On-Site Domestic Sewage Disposal on Farm Land * 1996
380.750-2	Manure Gas (CPS) 1985	511.300-1	Water Quality Evaluation of Agricultural Runoff in the Lower Fraser Valley * 1994
381.200-2	Creating your own Environmental Farm Plan in South Coastal BC (DPCG) 1994	654.000-1	Use Caution When Bringing Non-Agricultural Waste or Products on to Your Farm! * 2000
382.600-1	An Overview of On-Farm Biogas Productions * 2008	655.000-1	Woodwaste Use in Agriculture – Precautions! * 1992
382.600-2	On-Farm Anaerobic Digestion – Educational Mission 2008		
382.910-2	Reducing Nitrogen & Phosphorus in Manure Through Ration Manipulation (HPSFG) 1993		
384.300-1	Options for Handling Massive Bird Losses on Fraser Valley Poultry Farms * 1999		

Waste Handling and Treatment

381.200-1	Daily Scraping Manure Management Systems for Dairy Farms * 1990	382.370-1	Fan Engineering Manure Separator – Operation and Performance * 1994
381.210-1	Slotted Floor Free Stall Dairy Barn with Sub-Floor Manure Storage * 1985	382.910-1	Manure Treatment Options vs Available Land Base * 1994
381.600-2	Swine Manure Systems (CPS) 1989	383.000-1	Manure Storage Structures * 1990
381.600-3	Swine Waste Management Systems * 1982	383.000-2	Solid Agricultural Waste Storage – Hoop Frame * 2008
381.610-1	Developing Good Dunging Habits of Swine on Partially Slotted Floors * 1982	383.100-1	Earth Bank Storages for Dairy Manure * 1978
382.260-1	Sequencing Batch Reactor Waste Treatment System * 1993	383.100-2	Sizing Dairy Manure Storage Facilities * 1990
382.340-1	Hog Slurry Separation with a Centrifuge * 1994	383.100-3	Field Storage of Solid Agricultural Waste * 1995
		383.350-1	Gravity Flow Slurry Channel for Dairy Manure * 1990
		383.510-1	Circulatory Agitation Systems for Dairy Manure Storage Tanks * 1990

Soil

Soil Amendment

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|-----------|---|-----------|--|
| 610.000-2 | Soil Improvement Methods for Home Garden * 1991 | 637.100-1 | Soil pH (BCMAFF) * 2001 |
| 610.000-3 | Managing Clay Soils for Backyard Gardens & Lawns * 1991 | 637.200-1 | Soil Liming Understanding Your Soil Test Recommendation * 1993 |
| 610.000-4 | Materials for Improving Garden Soil Structure * 1991 | 637.200-2 | Evaluation of Agricultural Limestone * 1985 |
| 610.000-5 | Buying Topsoil * 1991 | 638.100-1 | Acidifying Soils * 1991 |
| 637.000-1 | Liming Acid Soils in Central B.C. * 1991 | 654.000-1 | Use Caution When Bringing Non-Agricultural Waste or Products on to Your Farm! * 2000 |
| 637.000-2 | Soil Acidity and Liming Facts * 1991 | | |

Soil Conservation

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|-----------|---|-----------|---|
| 533.410-1 | Broken Rock Rip Rap Bank Protection * 1985 | 614.000-2 | Cloverdale Soil Conservation Group Final Report: Part 3 Organic Soil Management for Vegetable Farmers (CSCG) 1994 |
| 590.302-2 | Improved Livestock Access to Water Using Geogrids * 1994 | 641.220-1 | Estimating Crop Residue Cover for Soil Erosion Control * 2000 |
| 610.000-1 | Soil Management Handbook for the Lower Fraser Valley (BCMAFF) 1991 | 642.200-1 | Control of Wind Erosion * 2003 |
| 610.000-6 | Soil Management Handbook for the Okanagan and Similkameen Valleys (BCMAFF) 1994 | 648.000-1 | Protecting Your Shorelands (F&O) |
| 613.100-1 | Soil Compaction * 1990 | | |

Soil Fertilization

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|-----------|---|-----------|--|
| 380.700-1 | Management & the Nutrient Value of Manure * 1982 | 631.004-1 | Sulphur Deficiencies in Central B.C. * 1991 |
| 611.100-1 | Soil Sampling * 2003 | 631.011-1 | Use of Manganese on Organic Soils * 1991 |
| 611.100-2 | Soil Sampling in Fertilizer-Banded Fields * 1991 | 631.012-1 | Boron for Field Crops * 1991 |
| 614.000-1 | Micronutrients for Crops Grown on Organic Soils * 1991 | 631.500-7 | B.C. Agricultural Testing Laboratories * 2003 |
| 630.000-1 | Fertility Management and Placement in Peace River Conservation Tillage Systems * 1991 | 633.000-1 | Fertilizer Management for Canola in Central B.C. * 1985 |
| 631.000-1 | Do You Need Micronutrient Fertilizers? * 1991 | 634.000-1 | Soil Laboratories in B.C. * 1988 |
| 631.001-1 | Safe and Efficient Nitrogen Use * 1990 | 634.100-2 | Soil Test Analysis Methods for British Columbia Agricultural Crops (BCSTTC) 1992 |
| 631.001-2 | Nitrogen Fertilization as Related to Soil pH * 1991 | 634.200-1 | Nitrogen Recommendations for Raspberries for South Coastal British Columbia * 1999 |
| 631.001-3 | Nitrogen Guidelines for Silage Corn Production in the North Okanagan (NOSCG) 1994 | 651.001-1 | Nutrient Management Plans * 1999 |
| 631.001-4 | Nitrogen Guidelines for Silage Corn Production in South Coastal B.C. (DPCG) 1994 | 652.000-1 | On-Farm Measurement of Ammonia in Manure with Agros Quick Tester (HPSFG) 1994 |

Nutrient Management

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 314-24 Portable Silage Bunk (L) (CPS) 1980
 314-25 Calf Feed Bunk (L) (BCMAFF)
 315-00 Beef Cattle Handling Facilities – General Information (L) (CPS) 1986
 315-01 Corral Gate and Fencing (L) (BCMAFF) 1982
 315-02 Crowding Gate (L) (CPS) 1983
 315-03 Working Chute (L) (CPS) 1984
 315-04 Blocking Gates (L) (CPS) 1984
 315-05 One Way Block Gate – Adjustable (L) (BCMAFF) 1978
 315-06 Single Animal Scale & Scale Cage (L) (SA) 1985
 315-07 Loading Chute Portable Adjustable (L) (CPS) 1984
 315-08 Loading Chute Stationary Adjustable (L) (CPS) 1984
 315-61 Minimum Working Corral (L) (CPS) 1975
 315-62 Small Working Corral (L) (CPS) 1975
 315-63 Large Working Corral (L) (CPS) 1985
 315-64 Working Corral with Covered Area (L) (BCMAFF) 1978
 315-65 Curved Chute Corral (L) (SA) 1978
 315-66 Working Corral with Curved Lanes (L) (BCMAFF) 1986
 315-71 Beef Cattle A.I. Corral (LP) (BCMAFF) 1978
 315-72 Pregnancy Testing & A.I. Chute (L) (CPS) 1984
 315-73 Herringbone A.I. Breeding Chute (L) (CPS) 1984
 321-22 Wedge Pack Barn for Heifers or Feedlot Finishing Veal Calves (LP) (BCMAFF)
 326-10 Bullyard (L) (CPS) 1985

Dairy

314-17	Tombstone Feed Fence for Young and Adult Cattle (L) (CPS) 1984	324-50	Parlour Grounding Methods (L) (BCMAFF)
314-18	Bunker Silo Feed Fence – Welded Steel Construction (LP) (BCMAFF) 1977	324-60	Milking Parlour Complex – 100 Cow Dairy System (L) (BCMAFF)
320-00	Dairy Cattle Housing and Equipment (LP) (CPS) 1985	324-61	Herringbone Milking Center – Single Return Alley (LP) (CPS) 1984
321-12	Free Stall Dairy System – Drive-Through Feed Bunk, 60 Cows and Replacements (LP) (BCMAFF) 1976	324-62	Herringbone Milking Center – Two Return Alleys (LP) (CPS) 1984
321-13	Free Stall Dairy System – 60 Cows (LP) (CPS) 1980	326-20	Free Stalls (LP) (BCMAFF) 1997
321-14	Free Stall Dairy System – Slotted Floors (LP) (CPS) 1984	326-33	Individual Calf Stall - Slotted Floor (L) (BCMAFF) 1981
321-15	Free Stall Dairy System – 100 to 200 Cows (LP) (CPS) 1984	326-35	Individual Floor Level Bedded Box Stall (L) (BCMAFF) 1985
321-16	Free Stall Dairy System – 200 Stalls (LP) (CPS) 1977	326-36	Individual Calf Pen (L) (CPS) 1984
321-20	Free Stall Dairy System – Drive Through Feed Bunk, 100 Cows and Replacements (LP) (BCMAFF)	326-37	Heifer Calf Tie Stall (LP) (CPS) 1983
321-23	Calf and Heifer Building – 100 Cow Dairy Operation (LP) (BCMAFF)	326-38	Portable Tie Stall Unit for Calves (L) (CPS) 1976
321-24	Bedded Pack Heifer Barn (LP) (CPS) 1988	326-39	Calf Hutch – Hinged Door on Front (L) (BCMAFF) 1985
321-25	Free Stall Dairy Calf and Heifer Barn (LP) (CPS)	326-40	Calf Hutch – Open Front (L) (CPS) 1982
321-26	Warm Calf Barn – 40 Individual Calf Stalls (LP) (BCMAFF)	326-50	Tilting Squeeze (LP) (MWPS) 1974
321-27	Cold Calf Barn – 20 Individual Calf Stalls (LP) (BCMAFF)	383-20	Open Circular Manure Storage Tank (LP) (CPS) 1992
321-28	Cold Calf Nursery (LP) (BCMAFF)	383-21	Open Rectangular Manure Storage Tank with Cantilever Walls (LP) (CPS) 1992
321-29	Warm Calf Nursery – Individual Pens (LP) (CPS) 1977	383-22	Open Rectangular Manure Storage Tank with Buttressed Walls (LP) (CPS) 1992
324-30	Bulk Milk Tank Foundation for Tanks up to 11,500 Litres (3,000 USG) (L) (BCMAFF)	383-23	Covered Circular Manure Storage Tank (LP) (CPS) 1992
		383-24	Covered Rectangular Manure Storage Tank (LP) (CPS) 1992

Poultry

306-45	Light-Restricting Fan Houses and Air Inlets (L) (CPS) 1992	342-01	Two Storey Broiler House (LP) (BCMAFF) 1984
340-00	Poultry Housing and Handling (L) (CPS) 1976	342-02	General Purpose Single Storey Poultry House (LP) (CPS) 1987
341-01	Cage Laying House (LP) (BCMAFF) 1983		
341-02	300 Hen Laying House (LP) (CPS) 1985		

Sheep

350-00	Sheep Housing (L) (CPS) 1974	352-14	Grain Feeders for Lambs (L) (CPS) 1975
350-01	Open-End Pole Sheep Barn, Drive-Thru Feeding (LP) (CPS) 1976	352-20	Large Round Bale Sheep Feeder (LP) (CPS) 1981
350-02	Slotted Floor Sheep Barn (LP) (CPS) 1976	352-21	6-Sided Sheep Feeder (L) (CPS) 1975
350-03	Pole Frame Sheep Shed (LP) (CPS) 1975	352-22	Sheep Feed Rack (L) (CPS) 1983
351-21	Semi-Confinement Sheep Facilities for 1000 Ewes (LP) (CPS) 1975	352-23	Baled Hay Feeder (L) (CPS) 1984
351-22	Sheep Drylot Unit (LP) (CPS) 1975	352-24	Walk Through Sheep Feeder (L) (CPS) 1984
351-24	Lambing Unit (LP) (CPS) 1976	352-25	Portable Hay Feeding Fence for Sheep (L) (CPS) 1979
352-11	Portable Lambing Pen Panel with Equipment (L) (CPS) 1974	352-26	Sheep Fenceline Feeder – Wood Posts (L) (CPS) 1975
352-12	Stanchion Lambing Pen (L) (CPS) 1974	352-27	Hay and Grain Feeder for Sheep (L) (CPS) 1984
352-13	Lamb Creep Feeder (L) (CPS) 1984	352-28	Hanging Self Feeder (L) (CPS) 1979

Sheep (continued)

352-29	Self Feeder for Concentrate Lamb Rations (L) (CPS) 1984	353-06	Sheep Spray Chute (LP) (CPS) 1977
352-30	Feed Cart (L) (CPS) 1985	353-07	Weighing Crate & Scale Frame (L) (CPS) 1976
352-31	Fixed Mineral Box (L) (CPS) 1980	353-08	Tilting Squeeze (LP) (MWPS) 1974
352-32	Portable Mineral Box (L) (CPS) 1980	353-20	Ewe Stanchion, Hoof Trimming Cradle & Lamb Castration Table (LP) (CPS) 1974
352-33	Mineral Box for Sheep (L) (CPS) 1974	353-51	Shearing Facilities (L) (CPS) 1976
353-01	Sheep Corral Unit (LP) (CPS) 1975	353-52	Shearing Table (LP) (CPS) 1975
353-02	Sheep Corral Fencing & Gates (L) (CPS) 1976	353-53	Shearing Floor & Fleece Sorting Table (L) (CPS) 1978
353-03	Spraying-Sorting Chute and Accessories (LP) (CPS) 1974	353-54	Fleece Packing Frame (L) (CPS) 1978
353-04	Working Chute (L) (CPS) 1981		
353-05	Sheep Loading Chute for Double Decker Truck (LP) (CPS) 1975		

Swine

360-00	Swine Housing and Equipment (L) (CPS) 1986	362-33	Five-Room Farrowing, Five-Room Weanling Unit (LP) (CPS) 1985
362-01	Farrow-To-Finish Swine Barn – 30-Sow Unit (LP) (CPS) 1975	362-41	Weaner Unit, 28' Wide (LP) (CPS) 1978
362-03	Farrow-To-Finish Swine Barn – 75 to 150-Sow Unit (LP) (BCMAFF) 1987	362-51	Grower-Finisher Barn (LP) (CPS) 1984
362-04	Farrow-To-Finish Swine Barn – 100 to 200-Sow Unit (LP) (BCMAFF) 1986	362-52	Naturally Ventilated Grower-Finisher Barn (LP) (CPS) 1984
362-05	Farrow-To-Finish Swine Barn – 200-Sow Unit (LP) (BCMAFF) 1987	362-53	Modified Open-Front Grower-Finisher (LP) (CPS) 1984
362-21	Breeding-Gestation Unit, Pen Stalls and Group Pens (LP) (CPS) 1983	362-61	Gestation Pen Stalls (L) (CPS) 1984
362-22	Two-Room Breeding and Gestation Unit (LP) (CPS) 1984	362-62	Farrowing Pens (L) (CPS) 1980
362-31	One-Room Continuous Farrowing System – 50 Sows, Front Creeps (LP) (CPS) 1977	362-63	Welded Steel Farrowing Stall (L) (CPS) 1984
362-32	Three-Room Farrowing, Three-Room Weanling Unit (LP) (CPS) 1985	362-64	Hog Probing Crate (L) (BCMAFF) 1978
		381-22	Cast-In-Place Concrete Slotted Floors for Swine (L) (CPS) 1986
		383-12	Liquid Manure Storage Tank – 20 Ft. Wide (LP) (CPS) 1974

Waste Management

381-21	Cast-In-Place Concrete Slotted Floors for Cattle (L) (CPS) 1985	383-14	Curbed Slab Manure Storage with Earth Banks (LP) (CPS) 1985
383-10	Concrete Manure Tank – 8 Ft. Deep (LP) (BCMAFF) 1983	383-15	Clay-Lined Manure Storage Pond – Optional Pumping Dock (LP) (BCMAFF) 1977
383-11	Concrete Manure Tank Roof Framing Details (LP) (BCMAFF) 1984	383-16	Small Agricultural Waste Storage – Wood Walls – 24 Ft. Wide Maximum (LP) (BCMAFF) 1996
383-13	Curbed Storage Slab for Stacked Manure (LP) (CPS) 1979	383-35	Gravity Flow Slurry Channel (LP) (BCMAFF) 1981

Building Engineering

305-10	Steel Ceiling Diaphragm (LP) (CPS) 1982	305-37	Gambrel Roof Braced Rafters (L) (CPS) 1992
305-11	Steel Ceiling Diaphragm with Center Air Inlet (LP) (CPS) 1982	305-80	Hay Floor Safety Fence (LP) (BCMAFF) 1985
305-12	Steel Roof Diaphragm Wind Bracing with Stud Walls (L) (CPS) 985	306-40	Plastic Curtain Wall Ventilation (L) (CPS) 1984
305-13	Plywood Ceiling Diaphragm (LP) (CPS) 1985	306-41	Natural Ventilation Ridge Vents (L) (BCMAFF) 1987
305-15	Steel Ceiling Diaphragm with Air Inlets Both Sides (LP) (CPS) 1982	306-42	Tilt-In Wall Panel Ventilation (L) (CPS) 1983
305-30	Knee-Brace Systems for Wind Bracing Farm Buildings (L) (CPS) 1990	306-46	Adjustable Side Air Inlet (LP) (CPS) 1979
305-31	Stud Wall Bracing (L) (BCMAFF) 1981	306-48	Self-Adjusting Slot Air Inlets (L) (CPS) 1986
305-32	Building Your Own Roof Trusses (L) (CPS) 1986	306-49	Solar Ventilation Wall with Heat Storage (L) (CPS) 1984
305-33	Roof Truss Erecting & Bracing (L) (CPS) 1986	306-50	Prefabricated Insulated Roof Panels (LP) (CPS) 1982
305-34	Roof Truss Diagonal Bracing (L) (BCMAFF) 1981	306-51	Insulated Pole Frame Walls (LP) (CPS) 1982
305-35	Sliding Doors (L) (CPS) 1985	306-52	Insulated Stud Frame Walls (LP) (CPS) 1983
305-36	Large Bi-Fold Shop Door (LP) (CPS) 1987	314-40	Stray Voltage (L) (CPS) 1987

Special Structures

316-11	Page Wire Fencing (L) (CPS) 1986	373-07	Clear Span Pole Barn - Open Front – Spans to 40 Ft. (LP) (CPS) 1987
316-12	Barbed Wire Field Fencing (L) (CPS) 1986	373-08	Clear Span Pole Barn Open Front – 24 Ft. Span (LP) (CPS) 1972
316-13	Barbed Wire Suspension Fencing (L) (CPS) 1986	373-09	Shed Roof Pole Barn – Open Front (LP) (CPS) 1975
316-14	Windbreak Fences (L) (CPS) 1983	373-10	Farm Workshop Stud Frame to 32 Ft. Span (LP) (CPS) 1977
316-31	Texas Gate (Vehicle Pass) (L) (CPS) 1985	373-11	Farm Storage Building 14 Ft. by 26 Ft. (LP) (CPS) 1973
355-01	Dairy Goat Milking Facility (L) (BCMAFF) 1979	373-12	Farm Storage Building 22 Ft. by 26 Ft. (LP) (CPS) 1973
355-02	100 Goat Milking Barn and Feed Area (LP) (CPS) 1981	373-13	Stud Wall Machinery Storage – Knee Braced (LP) (CPS) 1999
373-01	All Purpose Stud Frame Building to 60 Ft. Span (LP) (BCMAFF) 1983	373-51	Barn for Riding Horses – 3 Box Stalls (LP) (CPS) 1987
373-02	Stud Wall Machinery Storage – Diaphragm Roof (LP) (CPS) 1999	373-52	Barn for Riding Horses – 6 to 10 Box Stalls (LP) (CPS) 1972
373-03	Pole Frame Machinery Storage (End Doors) (LP) (CPS) 1999	373-54	Gambrel Roof Barn (LP) (CPS) 2000
373-04	Pole Frame Machinery Storage (Optional Side Doors) (LP) (CPS) 1999	373-55	Horse Stock Rack (L) (BCMAFF) 1983
373-05	All Purpose Building – Triple Span to 52 Ft. Max. (LP) (BCMAFF) 1983	373-56	Mineral Feeder for Horses (L) (CPS) 1977
373-06	Clear Span Pole Barn - Open End – Spans to 60 Ft. (LP) (CPS) 1976	373-61	240 Doe Rabbitry (LP) (CPS) 1984
		373-62	Rabbit Hutches (LP) (CPS) 1979
		280-391	Cabinet Dryer (L) (BCMAFF)1999

Feed Storage

372-00	Grain, Forage & Feed Structures – General Information (L) (CPS) 1986	372-23	Open Hay Shed Posts @ 8 Ft. & Double Trusses (LP) (BCMAFF) 1977
372-10	Concrete Footings for Steel Hopper – Bottom Bins (L) (CPS) 1989	372-24	Open/Closed Hay Storage for Round or Square Bales – Posts @ 8 Ft. & Trusses @ 4 Ft. (LP) (CPS) 1986
372-11	Foundation for Circular Steel Grain Bins (L) (CPS) 1986	372-25	Open/Closed Hay Shed – Posts @ 8 Ft. & Trusses @ 8 Ft. (LP) (CPS) 1978
372-12	Portable Self Supporting Grain Wall – 8 Ft. (L) (CPS) 1986	372-34	Covered Timber/Concrete Wall Bunker Silo (LP) (CPS) 1987
372-13	Portable Self Supporting Grain Wall – 4 Ft. (L) (CPS) 1986	372-36	Open Top Timber Wall Bunker Silo – 8 Ft. Wall (Braced) (L) (CPS) 1986
372-14	Multiple Feed Bins – Plywood Construction (LP) (CPS) 1987	372-37	Open Top Timber Wall Bunker Silo – 8 or 10 Ft. Wall (L) (CPS) 1987
372-15	Portable Granary – 1,300 Bushels (LP) (CPS) 1980	372-38	Open Top Concrete Wall Bunker Silo – 6, 8 or 10 Ft. Wall (LP) (CPS) 1972
372-16	Multiple Bin Granary – 13,200 Bushels (LP) (CPS)	372-39	Open Top Precast Concrete Wall Bunker Silo – 8 to 20 Ft. (LP) (CPS) 1988
372-17	Clear Span Flat Granary – 20,000 Bushels (LP) (CPS) 1974	372-40	Heap Silos (L) (CPS) 1988
372-18	Grain Bin Arrangements (LP) (CPS) 1988		
372-19	Grain and Feed Processing Center (LP) (CPS) 1989		
372-20	Dump Pit and Leg Boot (LP) (CPS) 1987		
372-22	Open Hay Shed Posts @ 12 Ft. & Trusses @ 4 Ft. (LP) (BCMAFF) 1976		

Fruit and Vegetable

305-14	Steel Ceiling Diaphragm for Bulk Vegetable Storages (LP) (CPS) 1982	331-05	Bulk Potato Storage with Side Air Plenum (LP) (CPS) 1985
306-53	Fruit and Vegetable Storage Insulation (L) (CPS) 1987	331-06	Two Bin Bulk Potato Storage (LP) (CPS) 1986
330-00	General Storage of Fruits and Vegetables (L) (CPS) 1985	331-07	Braced Rafter Bulk Vegetable Storage (LP) (CPS) 1979
330-11	Refrigerated Bulk Vegetable Storage Wall (LP) (CPS) 1983	331-08	Potato Bin Bulkhead (L) (CPS) 1994
330-12	Refrigerated Pallet Fruit & Vegetable Storage Wall (LP) (CPS) 1983	331-50	Small Root Cellar (L) (CPS) 1983
330-20	Walk-In Cooler/Freezer (LP) (CPS) 1984	332-10	Plywood Pallet Bin (L) (BCMAFF) 1988
331-01	Air Cooled Bulk Storage Walls (LP) (CPS) 1983	334-10	Hotbed and Coldframe (L) (CPS) 1972
331-02	Bulk Vegetable Storage – Interior Walls (LP) (CPS) 1983	334-20	Two Layer Polyethylene Greenhouse (LP) (CPS) 1982
331-03	Insulated Door for Bulk Vegetable Storages (LP) (CPS) 1979	334-21	Woodframe Greenhouse (LP) (BCMAFF) 1986
331-04	Controlled Atmosphere (CA) Storage (LP) (CPS) 1989	280-391	Cabinet Dryer (L) (BCMAFF)1999