

INDEX

The Canada Plan Service is a co-operative provincial network of agricultural engineers, design draftspersons and livestock specialists. It is concerned with the planning, design and construction of modern farm buildings to serve the needs of Canadian agriculture. The Service gathers ideas from across the country and develops these as engineered construction and management recommendations. This makes the latest building technologies and farmstead management practices available to all Canadian farmers.

Each provincial department of agriculture has engineers and other extension specialists who work with farmers that request help in planning building renovations and new construction. Ten technical committees, composed of experts drawn from these specialists and the farm buildings industry, outline and develop the Canada Plan Service publications. These are numbered as series 1000 through 10000, corresponding to: beef; dairy; swine; sheep; poultry; fruits, vegetables and greenhouses; grain, forage and feeds; special structures; building engineering; and environment.

Canada Plan Service publications are prepared by each of the provinces and the Yukon and distributed by the CPS Co-ordination Unit. Some publications take the form of detailed construction plans on large drawing sheets; others are letter-sized management and construction leaflets. When released by the Co-ordination Unit, a copy is distributed to each province and the Yukon, who in turn reproduce and distribute them according to their needs.

A complete information package for a typical farm construction project might consist of two to seven large sheets of drawings plus one or two leaflets giving management and construction information

This index lists the English-language plans and their corresponding leaflets available by number and title. A corresponding index is available that lists those available in French. The letters M I in the 'Plan' column indicate that the plan is available in both 'metric' and 'imperial' dimensions. If you prefer the imperial version of plan 1114, for example, select plan 1114, not M 1114. Many newer leaflets listed as M(I) give both metric (and imperial) dimensions in the same leaflet. Plans that begin with the letter "S" indicate that they were designed in Saskatchewan.

CPS Plans and Leaflets are now available online through the Internet. They can be viewed, printed or downloaded as PDF files.

The Web Site Address for the Canada Plan Service is **www.cps.gov.on.ca**

For additional information please contact

Saskatchewan CPS Library

Bryan Doig, PAg, Livestock Agrologist Livestock Development Branch, SAFRR 1192 – 102nd Street North Battleford, Sask. S9A 1E9

phone (306) 446-7646 Fax (306) 446-7447

bdoig@agr.gov.sk.ca



M = Metric units
I = Imperial units

M(I) = Metric (imperial in brackets)

Plan Leaflet No. Title Q = Quick-release, provincial plan

-			
			BEEF CATTLE
	Μļ	1000	Beef Cattle Housing and Equipment (also see S-100)
I M I	MI	1113 1114	Open-end Beef Barn, Mechanical Feeding
MI	M I M (I)	1303	Open-end Beef Barn, Drive-through Feeding Calving Barn
	M	1351	Rigid Frame Calf Range Shelter
	Μļ	1352	Calf Range Shelter
	ļ	1353	Portable Pipe Frame Calving Shelter
M I	I M I	1401 1453	Dairy Beef Starter Barn Western Feedlot for South-facing Slope
MI	Mi	1454	Western Feedlot for Diagonal Slope
	ij	1455	Cow-Calf Feedlot for 50 Cows
ΜI	ΜI	1611	Portable Calf Creep Feeder
	MI	1621	Covered Feed Bunk
	M I M I	1622 1623	Bunk Feed Cart Expandable Feed Bunk
	MI	1633	Fenceline Feeder (Pipe Frame)
	M	1633a	
	M	1640	Positive Shock Fence Feeding of Giant Bales
	M M I	1641	Two Wire Feeding of Giant Bales
	MI	1642 1643	Giant Bale Feeders (Steel) Giant Bale Feeder (Wood)
	Μİ	1646	Portable Hay Feeder
	ΜI	1647	Weathervane Mineral Feeder
B.4	ΜI	1649	Grain Self-feeder
M	M M I	1650 1651	Chopped Hay Self-Feeder Chopped Hay Feeder for Cattle
	M (I)	1800	Cattle Handling Facilities
	ΜÌ	1811	Corral and Feedlot Fencing
	ΜI	1812	Crowding Gate
	ΜĮ	1813	Working Chute: Ontion Two
	M I	1813a 1814	Working Chute: Option Two Blocking Gates
	Μİ	1816	Stationary Adjustable Loading Chute
	ΜI	1817	Adjustable Loading Chute
	ΜI	1818	Pregnancy Testing and A.I. Chute
	M I I	1819 1820	Herringbone A.I. Breeding Chute Loading System for Large Trucks
	i	1821	Calf Branding Facility
	Μİ	1831	Minimum Working Corral
	Μļ	1835	Large Working Corral
	 M (I)	1836 S-100	Cattle Working Corral Beef Cattle Housing and Equipment Guidelines
	M (I)	S-100 S-104	Porous Windbreak Fencing (also see 8368)
	İ	S-111	Feed Bunk and Cart
Į.		S-140	50 Cow Calf Feedlot
!	ı	S-145	100 Cow Calf Feedlot - Expandable for Feeder Cattle Pole Frame Cattle Shed Single Slope Roof
i i		S-150 S-160	Feedlot – 88 Pens (110' x 70')
i		S-161	Feedlot (400 or 800 Head) Mechanical Feeding
I		S-162	Feedlot (3600 Head) Earth Surface
ļ.		S-163	Feedlot (12000 Head) Earth Surface
I	1	S-164 S-165	Feedlot (12000 Head) Earth Surface Feed Bunk and Pad
	i I	S-105 S-181	Single Animal Scale and Scale Cage
	i	S-182	One-Way Gates for Solid-Sided Working Chutes
	ļ.	S-184	Working Chute Cross Section
	I	S-185	Curved Working Chute with Sorting Pens

I = Imperial units
M(I) = Metric (imperial in brackets)
Q = Quick-release, provincial plan

Plan	Leaflet	No.	Title	Q Q	=	Quick-release, provinc
			BEEF CATTLE (continued)			
		S- 186 S- 187 S- 188 S- 189	Tight-Curved Working Chute Semi-Circular Crowding Alley and Worki By-Pass Curved Chute Compact Curved Working Chute	ing Ch	nute	
			DAIRY CATTLE			
M I M I M I M I M I	M (I) I M I M (I) M (I) M (I) M (I) M (I) M I M I M I M I M I M I M I M I M I M I	2000 2002 2101 2102 2104 2106 2220 2342 2343 2402 2403 2404 2501 2502 2503 2512 2513 2658 2663 2806 2821 2822 2823 2831 2832	Dairy Cattle Housing and Equipment Free Stall Partitions Free Stall Dairy System - 60 Cows Free Stall Dairy System - Slotted Floors Free Stall Dairy System, 100 to 200 Cov Free Stall Dairy System, 200 Stalls Single Story Tie Stall Barn Cold Calf Nursery Warm Calf Nursery - Individual Pens Open-front Heifer Barn Bedded Pack Heifer Barn Free Stall Dairy Calf and Heifer Barn Herringbone Milking Centre (Single Return Herringbone Milking Centre (Two Return Milking Parlour Bonding to Prevent Tingl Milkhouse, Outside Vestibule Milkhouse, Office and Washroom Milkhouse with Equipment Room Feed Cart Tombstone Feed Fence for Young and A Mineral Feeding Box Bullyard Single Headrail Tie Stall Low Arch Chain Tie Stall Stanchion Tie Stall Portable Tie Stall Unit for Calves Calf Hutch Individual Calf Pen	urn All 1 Alley Ie Vol	/s) tage	
			SWINE			
M M M M M M M M M M	M (I) M (I) M (I) M M M M (I) M (I) M (I) M (I) M (I) M (I) M (I) M (I) M (I) M (I) M (I) M (I) M (I)	3000 3002 3003 3112 3236 3241 3303 3404 3428 3433 3434 3435 3550 3700 3701 3800 3803 3812 3843 3952	Swine Housing and Equipment Site and Facilities Planning for Swine Swine Barn Construction and Services Hog Barn - Farrow-to-Finish Pens Breeding-Gestation Unit, Pen Stalls and Two-room Breeding and Gestation Unit Three-room Farrowing, Three-room Wea Five-room Farrowing, Five-room Weanlin Grower-finisher Unit Naturally Ventilated Grower-finisher Barn Grower-finisher, Natural Ventilation, Trus Modified Open-front Grower-finisher Alternative Low-cost Swine Housing Swine Manure Systems Cast-in-place Concrete Slotted Floors for Farrowing Pens Farrowing Crate with Side Creeps Welded Steel Farrowing Stall Gestation Pen Stalls Swine Barn Lighting Worksheet	anling ng Un n ss Ro	Uni iit of	

I = Imperial units
M(I) = Metric (imperial in brackets)
Q = Quick-release, provincial plan

Plan	Leaflet	No.	Title	Q Q	=	Quick-release, provincial plan
			SWINE (continued)			
		S-301 S-304	Outdoor Sow Housing Low Cost Feeder Pig Housing			
			SHEEP			
M	M I M I M I M I M I M I M I M I M I M I	4000 4111 4122 4123 4151 4152 4154 4311 4551 4551 4613 4614 4613 4616 4617 4622 4623 4624 4623 4624 4623 4633 4811 4831 4831 4831 4831 4831 4831 48	Sheep Housing Pole Frame Sheep Shed Semi-Confinement Sheep Facilities for Sheep Drylot Unit Open-end Pole Sheep Barn, Drive-thru Open-end Pole Sheep Barn, Mechanica Slotted Floor Sheep Barn Lambing Unit Expandable Lambing Unit Shearing Table Shearing Floor and Fleece-sorting Table Shearing Floor and Fleece-sorting Table Fleece Packing Frame 6-sided Sheep Feeder Adjustable Feed Bunk Adapted for She Fixed Mineral Box Portable Mineral Box Grain Feeders for Lambs Sheep Fenceline Feeder, Steel Posts Sheep Fenceline Feeder, Wood Posts Hay and Grain Feeder for Sheep Walk Through Sheep Feeder Lamb Creep with Feeder Portable Hay Feeding Fence for Sheep Sheep Feed Rack Chopped Hay Feeder for Sheep Large Round Bale Sheep Feeder Sheep Salt and Mineral Feeder Walk Through Hay and Grain Feeder Sheep Corral Unit Working Chute Sheep Corral Fencing and Gates Portable Claiming Pen Portable Fence Sections Sheep Loading Chute for Double Deck Sheep Handling Facilities - 100 Head Semi-Confinement Sheep Facilities (40 Semi-Confinement Sheep Facilities (40 Semi-Confinement Sheep Facilities (40 Semi-Confinement Sheep Facilities (24 Hay and Grain Feeder for Sheep Electric Wire Fencing for Sheep Pastur	er Truc Ewes, Ewes, Ewes, Ewes, Ewes, Ewes,	ng ling k 75 150 s, 30	Feeder Lambs) D Feeder Lambs) O Feeder Lambs)
			POULTRY			
1	M I I M (I) M (I) M (I) M (I)	5000 5015 5101 5210 5255 5310 5320	Poultry Housing Nests General Purpose Single Story Poultry F Layer Housing 300 Hen Laying House (Minimum Facil Broiler Housing Pullet Housing			

I = Imperial units
M(I) = Metric (imperial in brackets)
Q = Quick-release, provincial plan

Plan	Leaflet	No.	Title	Q Q	=	Quick-release, provincial plan
			POULTRY (continued)			
	I M M (I) M (I)	5602 5603 5702 5911	Lighting for Poultry Housing Water Requirements for Poultry Proper Disposal of Dead Poultry Light-Restricting Fan Houses and Air In	lets		
			FRUITS, VEGETABLES AND GREEN	HOUS	ES	
M I M I M I M I M I M I M I M I M I M I	M (I) M I M I M I M I M I M I M I M	6000 6002 6110 6111 6112 6113 6115 6116 6121 6122 6131 6312 6313 6314 6315 6319 6321 6330 6666 6701 6704 6720	Fruit and Vegetable Storage Onion Storage Building Bulk Vegetable Storage Wall (Not Refri Refrigerated Bulk Vegetable Storage W Refrigerated Pallet Fruit and Vegetable Controlled Atmosphere Pallet Storage W Bulk Vegetable Storage Interior Wall Controlled Atmosphere (CA) Storage Hotbed and Coldframe Insulated Storage Doors Potato Bin Bulkhead Steel Ceiling Diaphragm for Bulk Veget Braced Rafter Bulk Vegetable Storage Bulk Potato Storage with Side Air Plenu Bulk Potato Storage, 2500 tonnes, 2 Bin Bulk Potato Storage, 1725 tonnes (1900 Bulk Potato Storage, 590 tonnes (650 to Walk-In Cooler Small Rootcellar Fruit and Vegetable Storage Insulation Tunnel Forced-Air Coolers Greenhouse Heating Requirements Greenhouse Ventilation Two Layer Polyethylene Greenhouse	All Stora Walls able S um ns 0 tons	ge W	ge
	1	S-601 S-691	Basement Vegetable Storage Pea Sheller GRAIN, FORAGE AND FEED			
N 4 1	M (I)	7000	Grain, Forage and Feed Structures	_		
M I M I	M (I) I	7111 7114 7123	Foundation for Circular Steel Grain Bins Concrete Footings for Steel Hopper Bot Portable Granary – 1300 Bushels (12' x	s ttom B (16')	sins	
МΙ	M (I) M (I) M (I)	7128 7129 7134	Tall Portable Self-supporting Grain Wal Short Portable Self-supporting Grain W Grain Bin Arrangements	l		
M i	l í M	7212 7231	Corn Crib Dump Pit and Leg Boot			
МΙ	M (I) M (I) M (I)	7410 7432 7435	Silo Gas Pole-Type Horizontal Silo Above-ground Horizontal Silo			
M I M I	M (I) M (I) M I	7436 7601 7602	Roofed Horizontal Silo Hay Storage for Round or Rectangular	Bales		
M I	M (I) M (I)	7651 7821	Hay Storage with Trusses Spaced 8 ft. Heap Silos Grain and Feed Processing Centre			
МΙ	1 3	7824 S-711 S-720 S-791	Multiple Feed Bins Natural Air Grain Drying Foundation for In-Line Grain Bin Arrangements Concrete Footings for Steel Hopper Bot			teel Grain Bins

= Imperial units
) = Metric (imperial in brackets)
= Quick-release, provincial plan M(I) =

Plan	Leaflet	No.	Title	_ ` '		Quick-release, provincial plan
			SPECIAL STRUCTURES			
M I M I M I I	M I M I M I I	8161 8162 8163 8164 8201 8202	Open-end Pole Barn – Gable End Roc Open-front Pole Shed – Single Slope I Open-front, Clear-span Pole Barn – Ga Pole Frame Cattle Shed - Single Slope Barn for Riding Horses Barn for Riding Horses - 6 or 10 Box S	Roof – Sic able End e Roof – F	Ro	of
M İ	M (I) I M M	8203 8211 8242 8246	Two-story Horse Barn 100 Goat Milking Barn & Feed Area Rabbitry Rabbit Hutches	, tano		
M M I I	M M (I) I	8248 8311 8312	240 Doe Rabbitry Pole Framed Machinery Storage (End Pole Framed Machinery Storage (Side	Opening	j Do	oors – Diaphragm Roof Braced)
M I M I M (I) I	M (I) M (I) M (I) I I M I	8313 8314 8315 8342 8343 8362	Stud Wall Machinery Storage (Diaphra Stud Wall Machinery Storage (Knee B Gambrel Roof Barn One Car Garage (14' x 26') Two Car Garage (22' x 26') Texas Gate (Vehicle Pass)	agm Roof raced)	Bra	aced)
ı	M I M (I) M (I) M (I) M I	8364 8365 8366 8367 8368 8421	Farm Gate Page Wire Fencing Barbed Wire Field Fencing Barbed Wire Suspension Fencing Windbreak Fences (also see S-104) Circular Portable Fertilizer Bin - 8' Higl	'n		
M I		8422 8440 S-806	Circular Portable Fertilizer Bin - 4' High Cistern Farm Workshop (44'X32')			
			BUILDING ENGINEERING			
M I M I I M I M	M (I) M (I) M (I) M (I) M (I) M (I) M (I) M (I) M (I) M (I) M (I) M I M I M I M I M I M I M I M I M I M I	9010 9011 9012 9100 9101 9102 9250 9301 9307 9308 9310 9311 9312 9314 9341 9341 9355 9351 9355 9371 9451 9451 9611	Building in Metric Metric Fact Sheet Specifying Concrete for Agricultural Approximation Roof Trusses Building Your Own Roof Trusses Truss Erecting and Bracing Gambrel Roof Braced Rafters Roof Purlins and Rafters Knee-brace Systems for Windbracing Buttresses for Windbracing Farm Build Concrete Retaining Walls Steel Roof Diaphragm Wind Bracing w Sawn and Round Pole Selection Chart Plate Beams and Lintels Insulated Pole Frame Walls Insulated Stud Frame Walls Sliding Doors Insulated Bi-fold Shop Door Plastic Curtain Wall Ventilation Tilt-in-wall Panel Ventilation Steel Ceiling Diaphragm Plywood Ceiling Diaphragm Wood Preservatives Rodent and Bird Control in Farm Build Stray Voltage Fan Ventilation Principles and Rates	Farm Bui dings vith Stud \ ts	ldir	

M	=	Metric units
ı	=	Imperial units

M(I) = Metric (imperial in brackets)
Q = Quick-release, provincial plar

Plan	Leaflet	No.	Title	Q`´ =	Quick-release, provincial plan
			BUILDING ENGINEERING (continued))	
M (I)	M (I) M (I) M (I) M (I) M (I) M (I) M (I) M I M (I) M (I) M (I) M (I) M (I) M (I) M (I)	9702 9703 9705 9706 9707 9708 9710 9715 9731 9732 9735 9750 9760 9765	Troubleshooting Livestock and Poultry Ventilation Instruments Selecting Fans for Livestock Buildings Temporary Winter Back-draft Damper Protecting Workers in Livestock Barns F Farm Workers Health Problems Related Fresh Air Inlets Self-adjusting Slot Air Inlets Passive Solar Shop Heating Solar Ventilation Wall with Heat Storage Hot Water Floor and Space Heating Ventilating and Heating Small Livestock Natural Ventilation Sizing Openings for Naturally Ventilated	From Dus I to Air Qu Rooms	t and Gases
			ENVIRONMENT		
M I M I M I M I M(I) M(I) M(I) M(I)	M M M I M I M I M (I) M (I)	10702 10703 10704 10706 10707 10708 10710 10712 10713 10730 10731 10732 10733	Manure Handling From Barn to Storage Manure Handling From Barn to Storage Odour Control for Livestock Facilities Clay-lined Manure Storage Pond with Proceed Storage Slabs for Stacked Manure Gas Concrete Covered Rectangular Manure Open Rectangular Manure Storage Open Circular Manure Storage Tanks Open Rectangular Manure Storage Tan Open Rectangular Manure Storage Tan Covered Circular Manure Storage Tanks Covered Rectangular Manure Storage Tanks	for Poult umping D ure olid Manu Tanks ks with C ks with B s	ry Facilities Oock ure antilever Walls