

Strategic and Specialized Fencing to Protect Damage to Feed Supplies and Orchards.

Non-Electric and Electric Fence Designs

(Source: Ministry of Agric, BC. Food & Fisheries, Factsheet 307.250-1, March 1996)

Also see: Saskatchewan Environment, *"How to Build a Deer or Elk Proof Fence"*
(www.environment.gov.sk.ca)

Feed Supply and Orchard Fencing

The CSFSP will fund strategic and specialized fencing for orchard and feed supply fencing as well as bird netting. The orchard and feed supply fence must adhere to the following requirements as listed below:

New fence construction requirements:

- **Height:** the fence must be a minimum of 7 feet high, but 8 feet is recommended;
- **Mesh Spacing:** the mesh must be equivalent to or less than 6 inch tall by 12 inch wide;
- **Post Spacing:** the post must be space a distance of 24 feet or less.
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Retrofitting or upgrading existing fence:

- Existing fences may be upgraded or retrofitted to meet the minimum requirements of the feed supply and orchard fence;
- The Farm Stewardship Program will cover 50% of all costs to upgrade or retrofit the fence, plus the cost of an electric fencer (costs must be accounted for or supported by receipts).
- Costs incurred for normal fence maintenance or replacements are not covered.
- All receipts are required and must be submitted to claim for any upgrading/retrofitting of existing fence.
- All eligible labour costs must be accounted for in an invoice.
- A **pre-audit** and post audit will be required.

Cost share:

- The Farm Stewardship Program will cover 50% of costs which includes the costs of an electric fencer.
- All receipts are required to claim for the construction of this fence.
- All eligible labour costs must be accounted for in an invoice.
- An audit will be required.

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Please see below some listed options and examples of fence to construct for the purpose of protecting Feed Supplies and Orchards:

Non-Electric Fence Design

Fence protection of feed supplies and orchards from damage by deer, elk etc, is quite different from fencing domestic livestock. Driven by hunger, wildlife will at some point breach almost any fence design if food supply becomes limited. Non-electric fence designs range from low cost wire strand designs, which are not always effective, to high cost but effective woven wire designs. Electric fences or combination electric/nonelectric fences are sometimes chosen.

Protecting Orchards and Vineyards from Deer

A standard non-electric fence to exclude deer from orchards and vineyards is a high woven wire fence as shown on page 2. While effective, this design is also expensive. A combination of low woven wire with strands of barbed wire or high tensile wire above the woven wire can be effective at a reduced cost. This design is on page 3.

Fencing a number of neighboring farms with a common perimeter fence can often reduce fence costs and improve effectiveness.

Protecting Hay Stacks from Deer and Elk

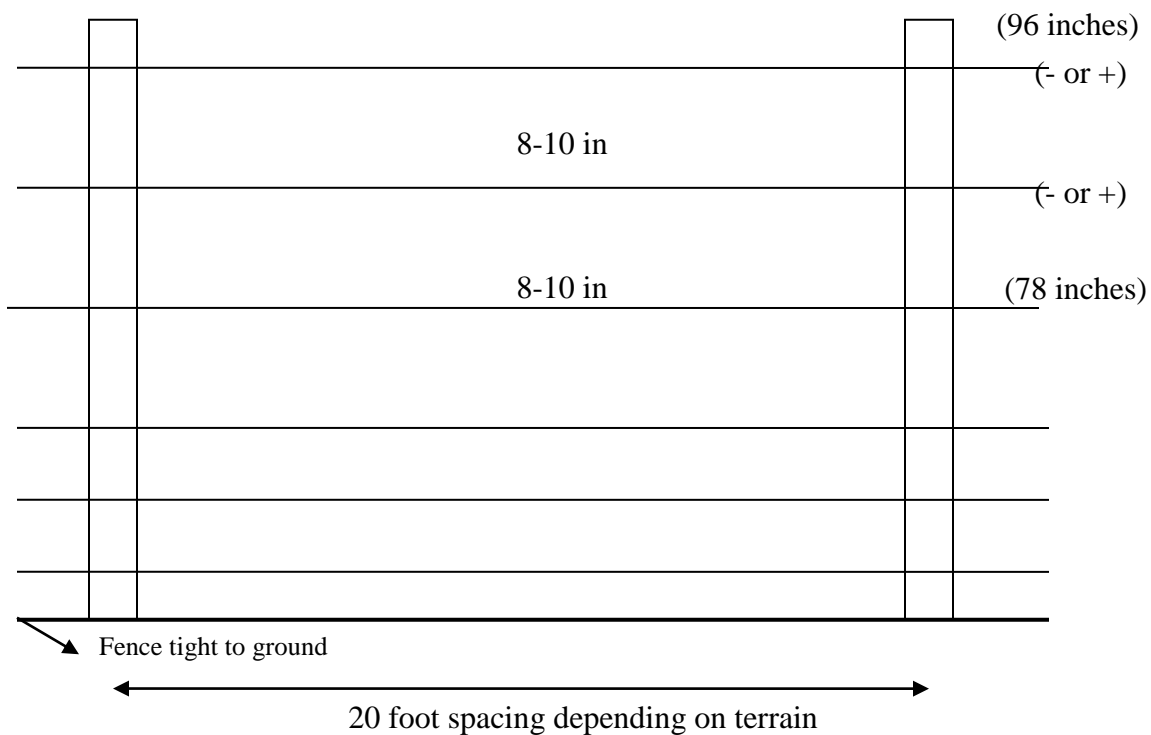
Protecting bee hives from bears is most effectively done with electric fences and different from Orchard fence. See “Predator Control Fence Requirements.”

Similar to deer fencing, orchards and hay stacks can be protected from deer and elk using a woven wire fence design described in detail on Page 2 and 3.

Option 1: Non or electric High woven/page wire fence – Deer & Elk Control

(Fencing Factsheet, Agdex 724 Crop Protection and Wildlife Control Fences. British Columbia Ministry of Agriculture, Food and Fisheries. Order No. 307.252-1 March 2006)

- 78 inch/6.5ft page wire/woven fence plus 2 wire to a minimum of 96 inches/8 feet in height.
- 6 or 12 inch woven wire to 78 inches, tight to the ground.
- 14 horizontals, 12 inch spaced verticals plus 2 barbed or hot wires above.
- Top is 2 wires can be barbed or hot, with spacing of 8 to 10 inches.
- Height is minimum 96 inches.
- Braces every 1/8 mile, 660 feet.
- Post spacing is approx.20 feet for flat terrain, and can be spaced closer in areas with uneven terrain.
- All charged wires should have insulators.



Materials Required (per mile):

Wire = 16 rolls

- 14/78 hinged joint standard, 17/75, 18/86, 19/89 & 20/96 joint available.
- 12 inch spaced verticals standards, 6 inch available.
- 12 1/2 gauge wires, usually hsw horizontals
- Galvanized, 330 ft rolls, 192 to 400 lb roll weight.

Strands = 5 strands - 1.4 rolls hsw/strand or 4 rolls barbed/strand.

Line posts = 264 - 4-5 inch diameter, 11 feet long, driven 3 feet.

Braces = 16 - 5-6 inch diameter, 12 feet long, driven 4 feet (2 per brace).

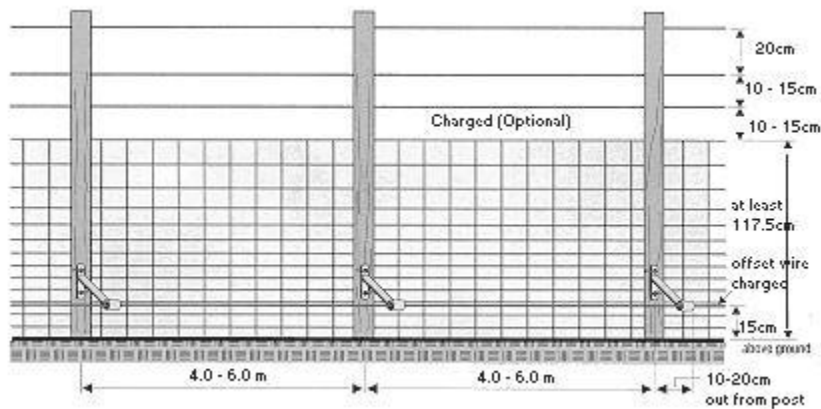
Brace rails = 8 - 4-5 inch diameter, 10 feet long (1 per brace) set at 3/4 brace ht.

Staples = 3/4 box - plus Tensioners, 4 per hsw strand per mile.

***Estimates for level terrain, rough terrain may require more posts and braces.**

Option 2: Non or electric Low woven/Page wire fence – Deer & Elk Control

- 47 inch/4ft page wire/woven fence plus 5 wires to a minimum of 96 inches/8 feet in height.
- 6 or 12 inch page/ woven wire to 47 inches, tight to the ground.
- 10 horizontals, 12 inch spaced verticals plus 5 barbed or hot wires above.
- Top is 5 wires can be barbed or hot, with spacing 6, 8, 10, 12 and 12 inches bottom to top wire, respectively.
- Height is minimum 96 inches.
- Braces every 1/8 mile, 660 feet.
- Post spacing is approx.20 feet for flat terrain, and can be spaced closer in areas with uneven terrain.
- All charged wires should have insulators.



- **Materials Required (per mile):**

Wire = 16 rolls - 10/47 hinged joint standard, 9/49 & 12/48 joint available.
 - 12 inch spaced verticals standards, 6 inch available.
 - 12 1/2 gauge wires, usually htsw horizontals
 - Galvanized, 330 ft rolls, 130 to 224 lb

Strands = 5 strands - 1.4 rolls htsw/strand or 4 rolls barbed/strand.

Line posts = 264 - 4-5 inch diameter, 11 feet long, driven 3 feet.

Braces = 16 - 5-6 inch diameter, 12 feet long, driven 4 feet (2 per brace).

Brace rails = 8 - 4-5 inch diameter, 10 feet long (1 per brace) set at 3/4 brace ht.

Staples = 1 box - plus Tensioners, 4 per htsw strand per mile.

***Estimates for level terrain, rough terrain may require more posts and braces.**