## **Grassed Waterways**





## What is a grassed waterway?

A grassed waterway is a graded channel designed to carry surface water across farmland to a suitable outlet. The permanent vegetation cover slows down the water and protects the channel from eroding.

### Where to install a grassed waterway?

Grassed waterways help to control erosion caused by intense flows of water running through a field. This type of erosion occurs commonly in low-lying areas or slopes between hills. Professionals recommend using grassed waterways in watersheds 20 ha (50 acres) or larger.

### Construction

Constructing a grassed waterway in a natural draw requires minimal shaping, smoothing and seed bed preparation. The best time to construct a grassed waterway is in the late summer or early spring so vegetation can establish quickly. An expert should be involved in the construction process.

### Harvesting the Grassed Waterway

The vegetation grown on the grassed waterway can be used for livestock forage. Including species like alfalfa in a seeding mix can provide good cover and benefit livestock.





## Seeding

It is very important for vegetation to grow on the grassed waterway as soon as possible after construction. Use a seeding mixture with a quick growing annual for short-term control and hardy perennials for lasting protection. See the chart below for seeding recommendations.

Application	Mix Percentage	Application Rate
Permanent Seed		
Creeping red fescue	50	Broadcast at 80kg/ha ( 70 lb/ac) Drill at 50kg/ha (45 lb/ac)
Perennial ryegrass	45	
White Clover	5	
Quick Growth		
Spring or fall grain (wheat, rye, oats, barley, etc.)	100	Broadcast at 80kg/ha ( 70 lb/ac) Drill at 50kg/ha (45 lb/ac)

Table adapted from Ministry of Agriculture , Food and Rural Affairs (2008)









# Maintenance Do's and Don'ts

#### Please Do:

- Inspect after heavy rains and repair damaged areas
- Apply fertilizer for healthy grass growth
- Mow 2-3 times a year
- Raise farm equipment when crossing the grassed waterway
- If tilling neighbouring fields, perform passes on right angles to direct any surface water into the grassed waterway
- Use best management practices on neighbouring fields to avoid sediment from entering the grassed waterway

## Please Do Not:

- Spray the grassed waterway with herbicide
- Use the grassed waterway as a travel or turn around lane
- Let livestock access the grassed waterway

Thank you to our partners!



### For more information contact:

