Grassed Waterway Design Information Sheet

1. Watershed area _____ha _____ac

2. Average grade of watershed _____%

3. Runoff curve number from Tables 2.2 – 2.4

4. Peak flow from watershed for a 10-year storm from Table 2.5-M to 2.11-M (2.5-I to 2.11-I)
_____m^3/s _____ft^3/s

5. Waterway length _____m _____ft

6. Elevation difference throughout waterway length _____m _____ft

7. Average grade of waterway =

Elevation difference (6)_____m ÷ Waterway length (5)_____m x 100

Elevation difference (6)_____ft ÷ Waterway length (5)_____ft x 100

_____%

8. Soil texture at waterway location

9. Erodibility of soil at waterway location from Table 4.1

10. Waterway vegetative cover

11. Permissible velocity of flow from Table 4.2 _____m/s _____ft/s

12. Waterway dimensions from Table 4.4-M to 4.9-M (4.4-I to 4.9-I) T = _____m_____ft

D =_____m_____ft

13. Add 0.1 m (0.3 ft) minimum freeboard to give new waterway dimensions

T = _____m _____ft

D = _____m_____ft

14. Are waterway dimensions suitable for crossing with farm equipment?

e.g. minimum side slope 10 horizontal:1 vertical

If NO, repeat steps (12) to (14) and adjust waterway dimensions.
If YES, go to step (15).

☐ ☐

15. Final waterway dimensions from step (13)

T = _____m_____ft

D = _____m_____ft