

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 =	_____ %	
$\frac{\text{Elevation difference (6)}}{\text{Waterway length (5)}} \times 100$	$\frac{\text{m}}{\text{m}} \times 100$	$\frac{\text{ft}}{\text{ft}} \times 100$
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 D = _____ m	_____ ft _____ ft
13. Add 0.1 m (0.3 ft) minimum freeboard to give new waterway dimensions	T = _____ m D = _____ m	_____ ft _____ 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).	<input type="checkbox"/> No <input type="checkbox"/> Yes	
15. Final waterway dimensions from step (13)	T = _____ m D = _____ m	_____ ft _____ ft