

Grassed Waterway Design Information Sheet

Imperial Units

This worksheet is a supplement to Publication 832: Agricultural Erosion Control Structures: A Design and Construction Manual.

Section 1: Watershed and Flow Information

No.	Description	Input Value
1	Watershed area	_____ 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-I to 2.11-I	_____ ft ³ /s
5	Waterway length	_____ ft
6	Elevation difference throughout waterway length	_____ ft
7	Average grade of waterway	Elevation difference Line (6) _____ ft ÷ Waterway length Line (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	_____ ft/s

Section 2: Waterway Dimensions

No.	Description	Input Value
12	Waterway dimensions from Table 4.4-I to 4.9-I	T = _____ ft D = _____ ft
13	Add 0.3 ft minimum freeboard to give new waterway dimensions	T = _____ ft D = _____ ft

(Waterway Dimensions table continued on next page)

Section 2: Waterway Dimensions *(continued)*

No.	Description	Input Value
14	Are waterway dimensions suitable for crossing with farm equipment? (e.g. minimum side slope 10 horizontal:1 vertical) (check one) If NO, repeat Lines (12) to (14) and adjust waterway dimensions. If YES, go to Line (15) .	Yes No
15	Final waterway dimensions from Line (13)	T = _____ ft D = _____ ft