

# BRWP Fact Sheet

## HOW MUCH WATER IN A FLOOD?

According to an EPA report, three acre-feet of water is equal to one million gallons. An acre-foot is one acre of land covered by one foot deep in water. Three acre-feet describes the same area of land covered by three feet of water.

### Acres of Land in each Subwatershed

Headwaters (010)	90,095 acres*	Ottawa Creek (040)	95,286 acres
Lye Creek/The Outlet (020)	85,361 acres*	Riley Creek (050)	54,814 acres
Eagle Creek (030)	<u>73,601</u> acres*	Cranberry Creek (060)	<u>94,258</u> acres
Total Acres	249,057 acres	Total Acres	244,358 acres

\*The water from these three subwatersheds flow through Findlay

How much in a 4", 6", 8" rain?

Four inches is 1/9th of three feet. If there are 1,000,000 gals. in 3 feet, than 1/9th of one million would mean there are 111,111 gallons of water. So, if there are 249,057 acres in the 3 subwatersheds that flow into Findlay, a four inch rain would result in approximately 27.67 billion gallons of water. (assuming the ground is saturated)

Six inches is 1/6th of three feet. If there are 1,000,000 gals. in 3 feet, than 1/6th of one million would mean there are 167,000 gallons of water. So, if there are 249,057 acres in the 3 subwatersheds that flow into Findlay, a four inch rain would result in approximately 41.5 billion gallons of water. (assuming the ground is saturated)

Eight inches is 2/9th of three feet. If there are 1,000,000 gals. in 3 feet, than 1/9th of one million would mean there are 222,222 gallons of water. So, if there are 249,057 acres in the 3 subwatersheds that flow into Findlay, a four inch rain would result in approximately 55.34 billion gallons of water. (assuming the ground is saturated)

*The Blanchard River Watershed has two unique geological features: 1. it is very flat over-all; 2. about 90% of the water flows north to the river before flowing west to the Auglaize River. This results in a greater amount of water needing to be carried by the river which leads to a wider area prone to flooding.*

*In addition, there is a 100 foot fall from the southern Hancock County line to Findlay. That is roughly 8 feet per mile which cause the flow out water from the south to be very fast. From Findlay west to the county line with Putnam County, the fall is only 10 feet or about 9 inches per mile. This results in the water piling up Findlay and spreading out as it flows west.*

