


FLATHEAD RESERVATION WATER MANAGEMENT BOARD & OFFICE OF THE WATER ENGINEER

James Frakes
WATER CONSERVATION SPECIALIST (II)
JFRAKES@FRWMB.GOV

400 MAIN ST. SW
 PO BOX 37
 RONAN, MT 59864
 (406) 201-2532 EXT 102
 WWW.FRWMB.GOV




1

FLATHEAD RESERVATION WATER MANAGEMENT BOARD & OFFICE OF THE WATER ENGINEER

Cristy Brooks
WATER RESOURCE SPECIALIST (II)
CBROOKS@FRWMB.GOV

400 MAIN ST. SW
 PO BOX 37
 RONAN, MT 59864
 (406) 201-2532 EXT 101
 WWW.FRWMB.GOV




2

FLATHEAD RESERVATION WATER MANAGEMENT BOARD & OFFICE OF THE WATER ENGINEER

Anna Butterfield
WATER RIGHTS SPECIALIST (II)
CBROOKS@FRWMB.GOV

400 MAIN ST. SW
 PO BOX 37
 RONAN, MT 59864
 (406) 201-2532 EXT 104
 WWW.FRWMB.GOV




3

FLATHEAD RESERVATION WATER MANAGEMENT BOARD & OFFICE OF THE WATER ENGINEER

Ethan Mace
WATER ENGINEER
EMACE@FRWMB.GOV

400 MAIN ST. SW
 PO BOX 37
 RONAN, MT 59864
 (406) 201-2532
 WWW.FRWMB.GOV



4

WATER UNIT CONVERSIONS		
1 cubic foot	=	7.48 gal. = 62.4 lbs. of water
1 acre-foot	=	43,560 cubic feet = 325,851 gal.
1 cfs	=	448.8 gpm = 646,316 gpd
1000 gpm	=	2.23 cfs = 4.42 acre-feet/day
1 cfs	for 24 hours	= 1.983 acre-feet
1 cfs	for 30 days	= 59.5 acre-feet
1 cfs	for 1 year	= 724 acre-feet
An acre-foot of water covers one acre of land one foot deep		
$5 \div \# \text{ of secs. to fill } 5 \text{ gal. bucket} \times 60 = \text{flow rate in gpm}$		

5