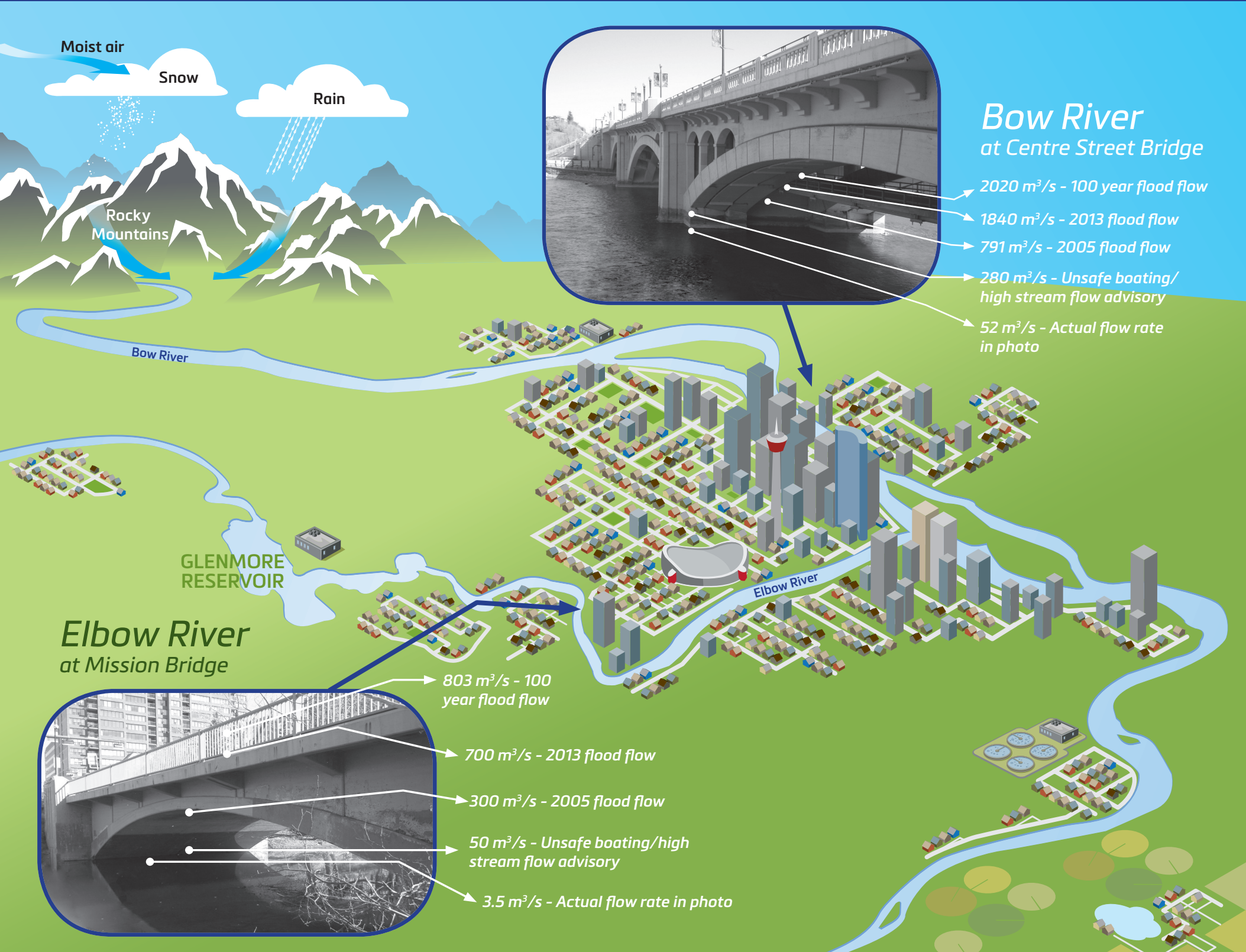


Flood Readiness: Understand. Prepare. Stay Informed.

Bow and Elbow Rivers, Flows, Triggers and Related Effects



REFERENCE FLOW RATES	BOW RIVER (m³/s)	ELBOW RIVER (m³/s)
Normal Seasonal River Flows (Approximately May 15 to July 15)	70 to 400	<30 to 90
Higher than Normal Seasonal River Flow	401 to 708	90 to 170
Flow in Excess of Channel Capacity	>700	>170

ELBOW RIVER TRIGGERS (Downstream of Glenmore Reservoir)		
FLOW RATE (m³/s)	CHANCE OF OCCURRING IN ANY GIVEN YEAR	EFFECT
40	> 50 per cent	• Riverside pathways impacted
50	> 50 per cent	• Boating and other activities on the river are potentially dangerous. Fire Department may issue a boating advisory
120	29 per cent	• Modest overbank flooding occurs in mostly unpopulated areas
140	20 per cent	• Some basements may flood due to sewer backups and raised ground water levels • Limited temporary barrier construction may commence • Evacuations begin (Mission)
170	17 per cent	• Widespread basement flooding • Temporary barrier construction and evacuation and may be considered • Overbank flooding may reach some residences
275	5 per cent	• Widespread evacuation • Significant construction of temporary barriers
500	2.6 per cent	• Widespread evacuation and construction of temporary barriers • Pedestrian bridges and approach roads for some vehicle bridges become impacted • Overland flooding in Mission, along Macleod Trail, at Erlton and in the Stampede C-Train tunnels • Spill over the Stampede flood wall begins
700	1.3 per cent	• 2013 Flood flow rate
803	1 per cent	• Hundred year flood flow rate

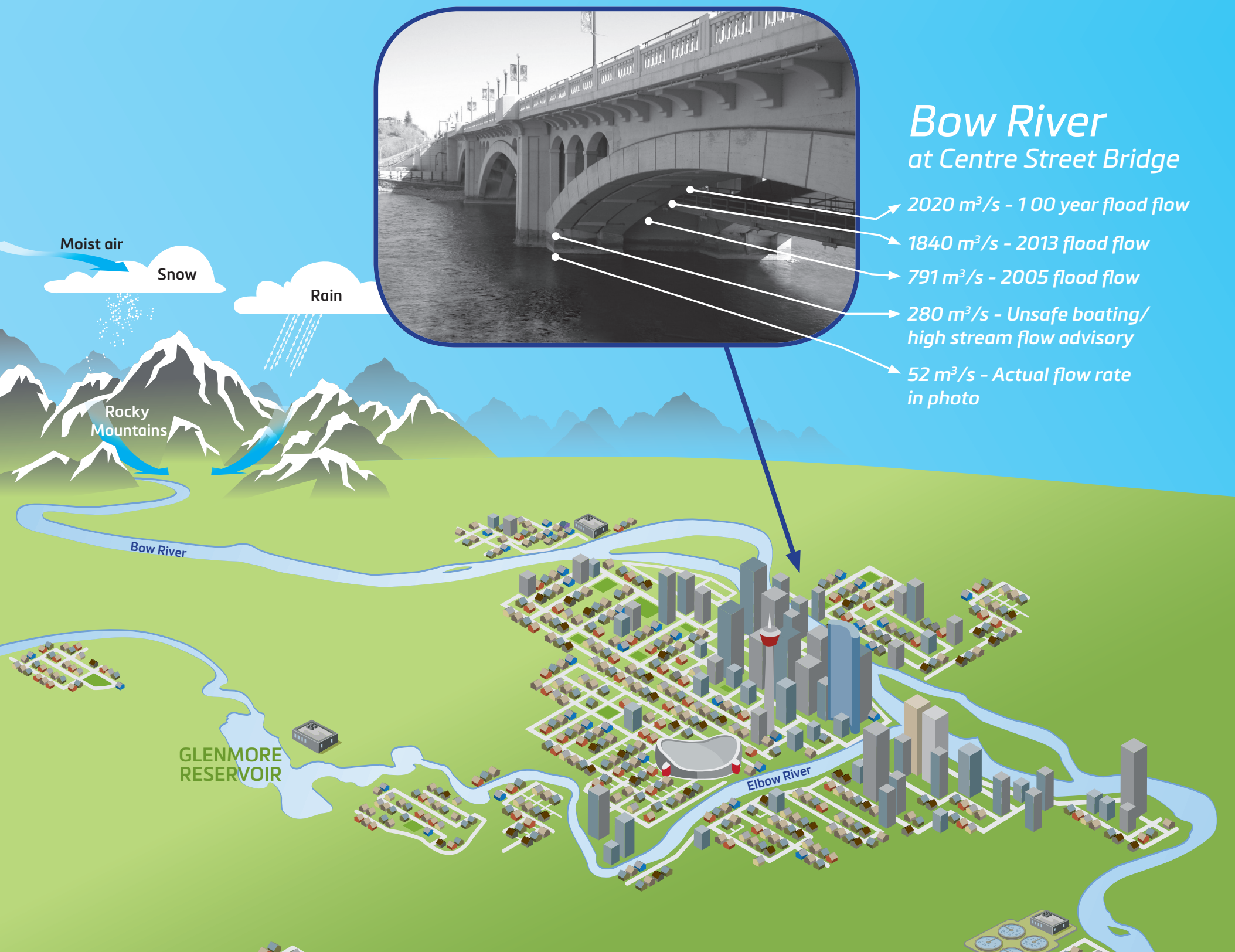
BOW RIVER TRIGGERS (Upstream of where the Bow River meets the Elbow River)		
FLOW RATE (m³/s)	CHANCE OF OCCURRING IN ANY GIVEN YEAR	EFFECT
250	> 50 per cent	• Riverside pathways impacted
280	> 50 per cent	• Boating and other activities on the river are potentially dangerous. Fire Department may issue a boating advisory
550	50 per cent	• Heritage Dr/Glenmore Trail underpass inundated
510	33 per cent	• Some basements may flood due to sewer backups and raised ground water levels
700	13 per cent	• Widespread basement flooding
927	12 per cent	• Overbank flooding may reach some residences • Evacuation may begin (Bowness, Sunnyside, Hillhurst) • Temporary barrier construction is triggered • Prince's Island inundated
1230	5 per cent	• Evacuation widens (Chinatown, Eau Claire, Montgomery) • Construction of temporary barriers continues
1500	3 per cent	• Widespread evacuation • Widespread construction of temporary barriers • Pedestrian bridges and approach roads for some vehicle bridges become impacted
1840	1.4 per cent	• 2013 Flood flow rate
2020	1 per cent	• Hundred year flood flow rate

ELBOW RIVER TRIGGERS (Upstream of Glenmore Reservoir)		
FLOW RATE (m³/s)	CHANCE OF OCCURRING IN ANY GIVEN YEAR	EFFECT
100	10 per cent	• Overbank flooding may occur in Griffith's Woods Park and some basements may flood
500	4 per cent	• Basements in Discovery Ridge may flood due to ground water levels and overbank flooding

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Flood Readiness: Understand. Prepare. Stay Informed.

Bow River Flows, Triggers and Related Effects



REFERENCE FLOW RATES	BOW RIVER (m ³ /s)
Normal Seasonal River Flows (Approximately May 15 to July 15)	70 to 400
Higher than Normal Seasonal River Flow	401 to 708
Flow in Excess of Channel Capacity	>700

BOW RIVER TRIGGERS (Upstream of where the Bow River meets the Elbow River)		
FLOW RATE (m ³ /s)	CHANCE OF OCCURRING IN ANY GIVEN YEAR	EFFECT
250	> 50 per cent	<ul style="list-style-type: none"> Riverside pathways impacted
280	> 50 per cent	<ul style="list-style-type: none"> Boating and other activities on the river are potentially dangerous. Fire Department may issue a boating advisory
550	50 per cent	<ul style="list-style-type: none"> Heritage Dr/Glenmore Trail underpass inundated
510	33 per cent	<ul style="list-style-type: none"> Some basements may flood due to sewer backups and raised ground water levels
700	13 per cent	<ul style="list-style-type: none"> Widespread basement flooding
927	12 per cent	<ul style="list-style-type: none"> Overbank flooding may reach some residences Evacuation may begin (Bowness, Sunnyside, Hillhurst) Temporary barrier construction is triggered Prince's Island inundated
1230	5 per cent	<ul style="list-style-type: none"> Evacuation widens (Chinatown, Eau Claire, Montgomery) Construction of temporary barriers continues
1500	3 per cent	<ul style="list-style-type: none"> Widespread evacuation Widespread construction of temporary barriers Pedestrian bridges and approach roads for some vehicle bridges become impacted
1840	1.4 per cent	<ul style="list-style-type: none"> 2013 Flood flow level
2020	1 per cent	<ul style="list-style-type: none"> Hundred year flood flow rate

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Flood Readiness: Understand. Prepare. Stay Informed.

Elbow River Flows, Triggers and Related Effects



REFERENCE FLOW RATES	ELBOW RIVER (m ³ /s)
Normal Seasonal River Flows (Approximately May 15 to July 15)	<30 to 90
Higher than Normal Seasonal River Flow	90 to 170
Flow in Excess of Channel Capacity	>170

ELBOW RIVER TRIGGERS (Downstream of Glenmore Reservoir)		
FLOW RATE (m ³ /s)	CHANCE OF OCCURRING IN ANY GIVEN YEAR	EFFECT
40	> 50 per cent	• Riverside pathways impacted
50	> 50 per cent	• Boating and other activities on the river are potentially dangerous. Fire Department may issue a boating advisory
120	29 per cent	• Modest overbank flooding occurs in mostly unpopulated areas
140	20 per cent	• Some basements may flood due to sewer backups and raised ground water levels • Limited temporary barrier construction may commence • Evacuations begin (Mission)
170	17 per cent	• Widespread basement flooding • Temporary barrier construction and evacuation and may be considered • Overbank flooding may reach some residences
275	5 per cent	• Widespread evacuation • Significant construction of temporary barriers
500	2.6 per cent	• Widespread evacuation and construction of temporary barriers • Pedestrian bridges and approach roads for some vehicle bridges become impacted • Overland flooding in Mission, along Macleod Trail, at Ertlon and in the Stampede C-Train tunnels • Spill over the Stampede flood wall begins
700	1.3 per cent	• 2013 Flood flow rate
803	1 per cent	• Hundred year flood flow rate

ELBOW RIVER TRIGGERS (Upstream of Glenmore Reservoir)		
FLOW RATE (m ³ /s)	CHANCE OF OCCURRING IN ANY GIVEN YEAR	EFFECT
100	10 per cent	• Overbank flooding may occur in Griffith's Woods Park and some basements may flood
500	4 per cent	• Basements in Discovery Ridge may flood due to ground water levels and overbank flooding

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