

CALGARY 2013 FLOOD ORTHOPHOTO MOSAIC

Data Steward Contact: Geospatial Business Solutions, GBS@Calgary.ca

Calgary 2013 Flood Orthophoto Metadata

Aerial Imagery of the 2013 Flood Event in Calgary. From June 19-22, over 250mm of rainfall and mountain snowmelt caused river levels to rise quickly, causing widespread flooding in southern Alberta. Peak river flow rates were 8x to 12x normal. This was Calgary's largest flood since 1897. The City activated the Municipal Emergency Plan and declared a state of local emergency. Over 75,000 people were evacuated in Calgary. The impact of this flood across Alberta has been assessed at approximately \$6 billion. Five lives were lost.

The Calgary flood 2013 orthophoto was created from aerial photography flown Saturday June 22, 2013 from 8:00 AM to 9:30 AM MDT. The flooded areas along the Bow and Elbow Rivers were quickly captured via fixed wing aircraft by Infrastructure & Information Services (now GBS) to aid in recovery efforts. The orthophoto mosaic was created from approximately 400 images with 10 cm resolution.

- Photo Date: June 22, 2013
- Time: 8:00 am to 9:30 am MDT
- Pixel Size: 10 cm
- Bands: RGB Colour
- Airborne Sensor: Vexcel UltraCam Eagle
- Coverage: Along the Bow and Elbow Rivers within City limits

More Calgary flood information can be found on the City's interactive web map here: [Calgary's River Flood Story Map](#)

Post flood 10cm orthophoto captured along the rivers on Aug 12, 2013 is also available.

The City of Calgary Geospatial Coordinate System

- Name: 3TM NAD83 Alberta 114W
- EPSG Code: 3776
- Projection: Transverse Mercator – 3TM (3 degree zone width)
- Horizontal Datum: NAD83 (Adopted/Original)
- Ellipsoid: GRS80
- Central Meridian: 114°00'00.0" W
- Scale Factor: 0.9999
- Origin Latitude: 0°00'00.0" N
- False Easting: 0 m
- False Northing: 0 m
- Positive Axes: North and East
- Planar Units: Meters

- Vertical Datum: CGVD28
- Geoid Model: GSD95 (ITRF version)
- Elevations: Orthometric (above mean sea level)
- Vertical Units: Meters

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Calgary 2013 Flood Orthophoto snapshot:
Major flooding along the Elbow River at MacLeod Trail, the Saddledome and the Stampede Grounds.