



Railroad Bridge
Bridge not overtopped
during dam failure flood

Distance from Dam: 12 miles
Initial Flood Wave Arrival: 405 min
Peak Flood Wave Arrival: 1265 min
Peak Flood Elevation: 1531.4 ft
Peak Flood Stage Increase: 2.8 ft
Peak Flood Discharge: 2,707 cfs
Peak Flood Velocity: 4.4 fps

Backwater
Nelson Lake
Peak Flood Elevation: 1597.5 ft
Depth Increase: < 0.5 ft

Backwater
South Branch Moose River
Peak Flood Elevation: 1503 ft
Depth Increase: 2.2 ft

Upstream Extent of Backwater Impact
South Branch Moose River
Peak Flood Elevation: 1503 ft
Depth Increase: <1.0 ft



Legend
River Centerline
"Sunny Day" Breach Inundation Extents
Contours - 10 ft



Note: The inundation areas shown on this map are approximate and should only be used as a guideline for establishing evacuation zones. Actual flooding conditions may differ from those depicted on the map.
Base map: USGS Apr 2009 0.6m
Coordinate System: NAD 1983 SP NY East Feet
Topography: USGS Digital Elevation Map
Vertical Datum: NAVD 88 Feet
NYS Dam ID: 140 - 2000 NY



February 2015
Figure 7-4
Old Forge Dam
Emergency Action Plan
Dam Failure Inundation Limits
"Sunny Day" Scenario



Distance from Dam: 12 miles
Initial Flood Wave Arrival: 405 min
Peak Flood Wave Arrival: 1265 min
Peak Flood Elevation: 1531 ft
Peak Flood Stage Increase: 2.5 ft
Peak Flood Discharge: 2,291 cfs
Peak Flood Velocity: 4.4 fps

Railroad Crossing
Bridge not overtopped
during dam failure flood

Route 28 Bridge
Bridge not overtopped
during dam failure flood

Backwater
South Branch Moose River
Peak Flood Elevation: 1503 ft
Depth Increase: 2.2 ft

Limit of Detailed Study
Distance from Dam: 15.3 miles
Initial Flood Wave Arrival: 580 min
Peak Flood Wave Arrival: 1450 min
Peak Flood Elevation: 1477.5 ft
Peak Flood Stage Increase: 1.8 ft
Peak Flood Discharge: 2388 cfs
Peak Flood Velocity: 1.6 fps

Distance from Dam: 14 miles
Initial Flood Wave Arrival: 540 min
Peak Flood Wave Arrival: 1370 min
Peak Flood Elevation: 1484.1 ft
Peak Flood Stage Increase: 2.6 ft
Peak Flood Discharge: 3007 cfs
Peak Flood Velocity: 2.4 fps



- Legend
- NY_county
 - River Centerline
 - "Sunny Day" Breach Inundation Extents
 - Contours - 10 ft

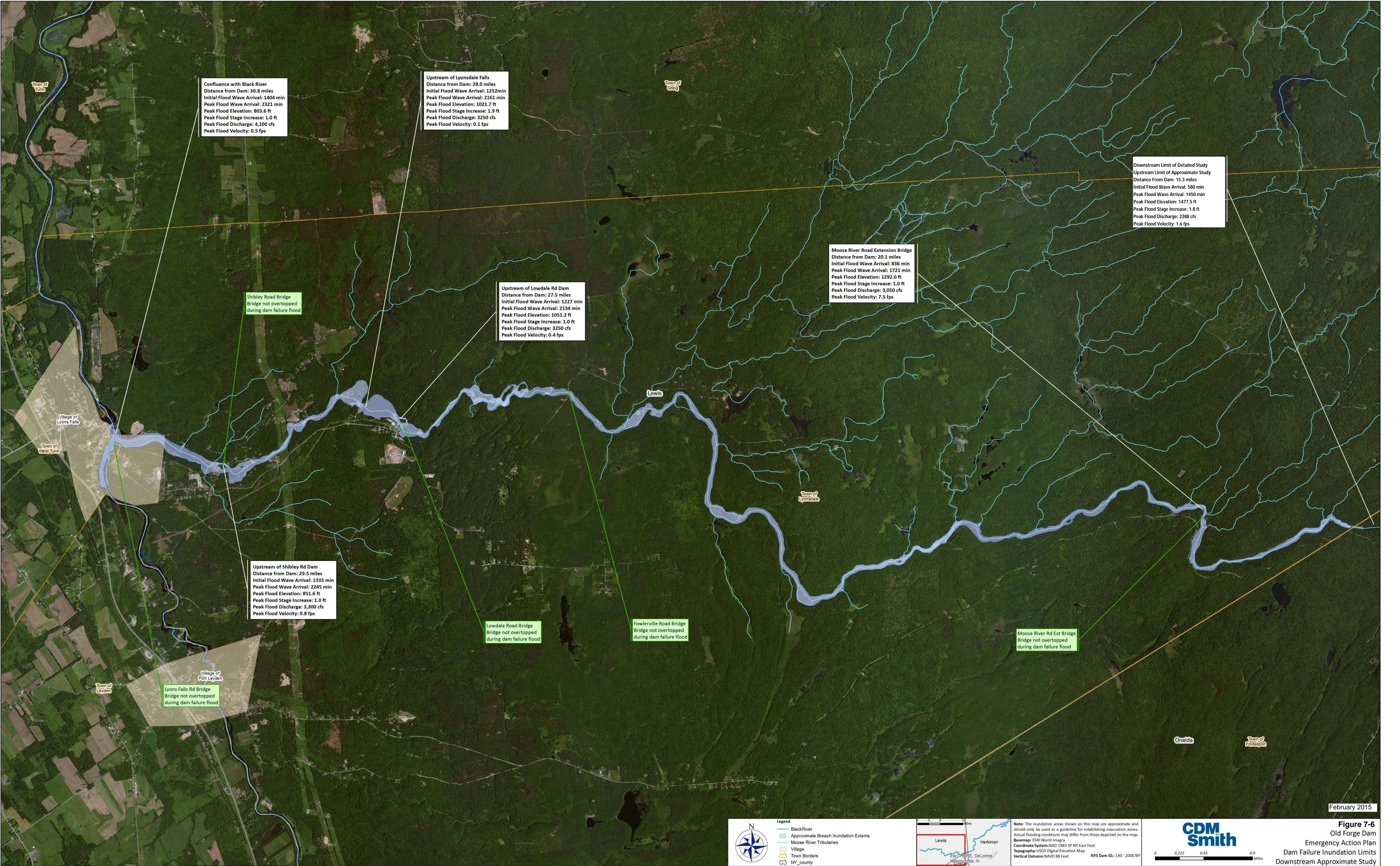


Note: The inundation areas shown on this map are approximate and should only be used as a guideline for establishing evacuation zones. Actual flooding conditions may differ from those depicted on the map.
Base map: USGS April 2009 0.6m
Coordinate System: NAD 1983 SP NY East Feet
Topography: USGS Digital Elevation Map
Vertical Datum: NAVD 88 Feet
NYS Dam ID: 140 - 2000 NY



Figure 7-5
Old Forge Dam
Emergency Action Plan
Dam Failure Inundation Limits
"Sunny Day" Scenario

February 2015



Confluence with Black River
Distance from Dam: 30.8 miles
Initial Flood Wave Arrival: 1404 min
Peak Flood Wave Arrival: 2321 min
Peak Flood Elevation: 803.6 ft
Peak Flood Stage Increase: 1.0 ft
Peak Flood Discharge: 4,100 cfs
Peak Flood Velocity: 0.5 fps

Upstream of Lyonsdale Falls
Distance from Dam: 28.0 miles
Initial Flood Wave Arrival: 1252min
Peak Flood Wave Arrival: 2161 min
Peak Flood Elevation: 1021.7 ft
Peak Flood Stage Increase: 1.9 ft
Peak Flood Discharge: 3250 cfs
Peak Flood Velocity: 0.1 fps

Downstream Limit of Detailed Study
Upstream Limit of Approximate Study
Distance from Dam: 15.3 miles
Initial Flood Wave Arrival: 580 min
Peak Flood Wave Arrival: 1450 min
Peak Flood Elevation: 1477.5 ft
Peak Flood Stage Increase: 1.8 ft
Peak Flood Discharge: 2388 cfs
Peak Flood Velocity: 1.6 fps

Moose River Road Extension Bridge
Distance from Dam: 20.1 miles
Initial Flood Wave Arrival: 836 min
Peak Flood Wave Arrival: 1721 min
Peak Flood Elevation: 1292.0 ft
Peak Flood Stage Increase: 1.0 ft
Peak Flood Discharge: 3,050 cfs
Peak Flood Velocity: 7.5 fps

Upstream of Lowdale Rd Dam
Distance from Dam: 27.5 miles
Initial Flood Wave Arrival: 1227 min
Peak Flood Wave Arrival: 2134 min
Peak Flood Elevation: 1051.2 ft
Peak Flood Stage Increase: 1.0 ft
Peak Flood Discharge: 3250 cfs
Peak Flood Velocity: 0.4 fps

Shibley Road Bridge
Bridge not overtopped
during dam failure flood

Upstream of Shibley Rd Dam
Distance from Dam: 29.5 miles
Initial Flood Wave Arrival: 1333 min
Peak Flood Wave Arrival: 2245 min
Peak Flood Elevation: 851.6 ft
Peak Flood Stage Increase: 1.0 ft
Peak Flood Discharge: 3,300 cfs
Peak Flood Velocity: 0.8 fps

Lowdale Road Bridge
Bridge not overtopped
during dam failure flood

Fowlerville Road Bridge
Bridge not overtopped
during dam failure flood

Moose River Rd Ext Bridge
Bridge not overtopped
during dam failure flood

Lyons Falls Rd Bridge
Bridge not overtopped
during dam failure flood



- Legend
- Black River
 - Approximate Breach Inundation Extents
 - Moose River Tributaries
 - Village
 - Town Borders
 - NY County



Note: The inundation areas shown on this map are approximate and should only be used as a guideline for establishing evacuation zones. Actual flooding conditions may differ from those depicted on the map.
Base map: ESRI World Imagery
Coordinate System: NAD 1983 SP NY East Feet
Topography: USGS Digital Elevation Map
Vertical Datum: NAVD 88 Feet
NYS Dam ID: 140 - 2000 NY



Figure 7-6
Old Forge Dam
Emergency Action Plan
Dam Failure Inundation Limits
Downstream Approximate Study



Figure 7-7
Old Forge Dam
Emergency Action Plan
Dam Failure Inundation Limits
"Stormy Day" Scenario



Distance from Dam: 6 mile
Initial Flood Wave Arrival: 75 min
Peak Flood Wave Arrival: 920 min
Peak Flood Elevation: 1681.2 ft
Peak Flood Stage Increase: 3.8 ft
Peak Flood Discharge: 3,436 cfs
Peak Flood Velocity: 2.2 fps

Distance from Dam: 3 mile
Initial Flood Wave Arrival: 30 min
Peak Flood Wave Arrival: 790 min
Peak Flood Elevation: 1683.5 ft
Peak Flood Stage Increase: 3.8 ft
Peak Flood Discharge: 3,460 cfs
Peak Flood Velocity: 0.4 fps

Distance from Dam: 4 mile
Initial Flood Wave Arrival: 45 min
Peak Flood Wave Arrival: 855 min
Peak Flood Elevation: 1682.8 ft
Peak Flood Stage Increase: 3.7 ft
Peak Flood Discharge: 3,448 cfs
Peak Flood Velocity: 2.2 fps

Green Bridge Rd
Bridge not overtopped
during dam failure flood

2548 Route 28

106 Birch St
1694 ft NAVD88

112 Birch St
1694 ft NAVD88

124 Birch St
1694 ft NAVD88



- Legend**
- River Centerline
 - "Stormy Day" Initial Inundation Extents
 - "Stormy Day" Breach Inundation Extents
 - Contours - 10 ft



Note: The inundation areas shown on this map are approximate and should only be used as a guideline for establishing evacuation zones. Actual flooding conditions may differ from those depicted on the map.
Base map: USGS Apr 2009 0.6m
Coordinate System: NAD 1983 SP NY East Feet
Topography: USGS Digital Elevation Map
Vertical Datum: NAVD 88 Feet
NYS Dam ID: 140 - 2000 NY



February 2015

Figure 7-8
Old Forge Dam
Emergency Action Plan
Dam Failure Inundation Limits
"Stormy Day" Scenario