

# Municipal Problem Statement Worksheet

Sept. 2021

- Use this worksheet to develop a problem statement for your municipality.
- Use a separate worksheet for each problem statement.
- **By TH Sept. 23**, submit all *problem statement worksheets* in MS WORD format to [mclellan@countyofdane.com](mailto:mclellan@countyofdane.com) and [husen.sara@countyofdane.com](mailto:husen.sara@countyofdane.com) .

<b>Municipality</b>		<b>Village of Cross Plains</b>	
<b>Natural Hazard</b>		<b>Flooding</b>	
Describe conditions associated with this hazard and identify where and when problem(s) occur			
<i>Describe what happens</i>		Brewery Creek is spring fed tributary stream to Black Earth Creek. During significant snow melt or rain fall events, the water levels may rise quickly. The culverts at County Highway P become plugged with sediment and debris in the past. Once County Highway P is inundated; homes, businesses, and infrastructure downstream of this location are in jeopardy.	
<i>Location(s)</i>		There are large culverts that cross under County Highway P and there are a series of low-lying culverts at St. Francis Street, Brewery Road, Valley Street, and Lewis Street. These items are upstream of the Brewery Creek/Black Earth Creek confluence. This area includes 17 single family homes, 2 multi-residential buildings and 2 commercial business that are along Valley Street and in the 1% flood hazard zone.	
<i>Time frame associated with the occurrence</i>		Minutes - Hours	
Describe the risks from this hazard to persons, facilities, finances, and ancillary activities			
<i>Impacts on persons</i>		Inundated basements and lower floors to single family homes, some multi-residential structures	
<i>Impacts on facilities (include locations as appropriate)</i>		County Highway P, Brewery Road, Valley Street, and Lewis Street may be inundated becoming impassable. County Highway P and Brewery Rd are primary routes of transportation.	
<i>Financial impacts</i>		Residents on Brewery Road and Valley Street suffer basement / lower-level flooding (split level homes) causing financial loss and hardship from disruption to their lives. In 2018, several homes on Brewery Rd experienced sanitary sewer backup.	

<b>Municipality</b>	<b>Village of Cross Plains</b>
<b>Natural Hazard</b>	<b>Flooding</b>
<i>Secondary / ancillary impacts</i>	Sanitary Sewer intrusion, road washouts, stream bank erosion, stream pollution and contamination,
<b>Identify what a desired outcome looks like</b>	
Reducing flood risk along Brewery Creek by increase stormwater retention on undeveloped lands upstream; rehabilitation stream bed alignment, wetlands and prairies; rip rap urban sections; specify and size culverts accordingly; removal of structures from the flood plain.	
<b>Describe why it is import to address this problem</b>	
In addition to the hazards toward life and property adjacent to the creek, unmitigated future floods have a large impact to critical infrastructure downstream. Brewery Creek confluences with Black Earth Creek in the heart of the downtown and along US Highway 14. During the 2018 flood, there was a direct correlation between County Highway P being overtopped by Brewery Creek and then the downtown becoming inundated. Addressing this problem provides a viable solution to improve safety of residential occupancies and economic viability of the Village’s downtown and tourist areas. It also controls the amount of surface water entering Black Earth Creek, which runs the whole length of the Village and splits the community.	