Iowa Army Ammunition Plant Detonation 11/20

November 17, 2026
1:29 PM

Internal Emergency Management Reference Only!

Key Messages

- On November 20 at approximately noon CST the United States Army will detonate degraded lead azide at the Army Ammunition Plant in Middletown, Iowa.
- For more information please refer to the Public Advisory issued by the US Army.



NEW Weather Impacts for Nov 20

- Dry, mild and breezy conditions
- Surface winds will be southerly and gusting to around 25 mph.

Next Scheduled Update from NWS

- By 4 PM Wednesday

If you have any questions regarding the forecast or NWS dispersion modeling, please contact: NWS Quad Cities at 563-386-3815

Iowa Army Ammunition Plant Detonation 11/20

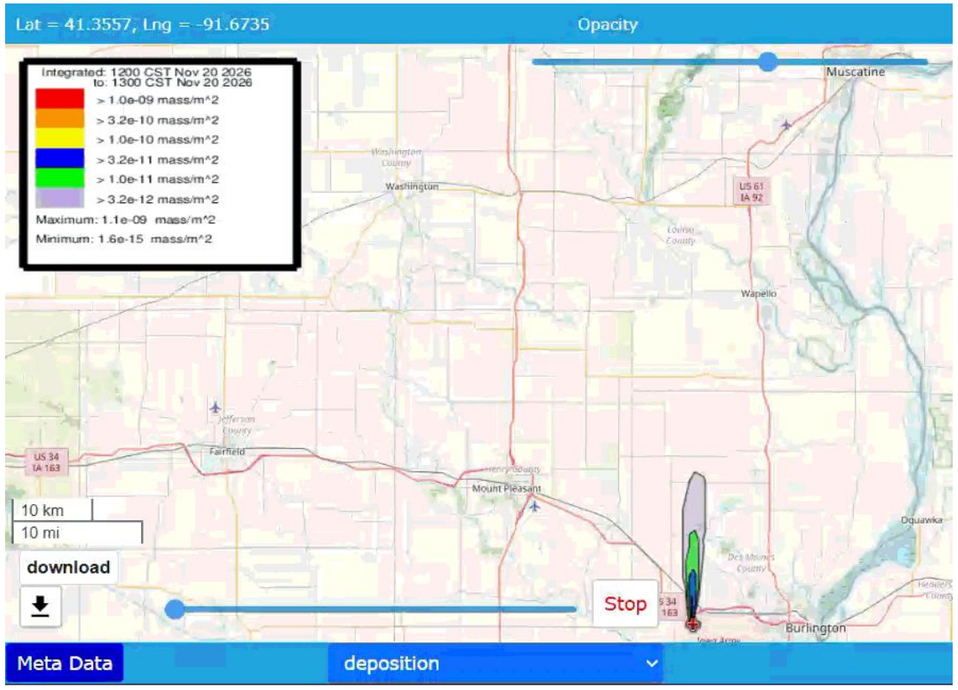
November 17, 2026
1:29 PM

Hysplit run for November 20 from Noon - 6 pm CST

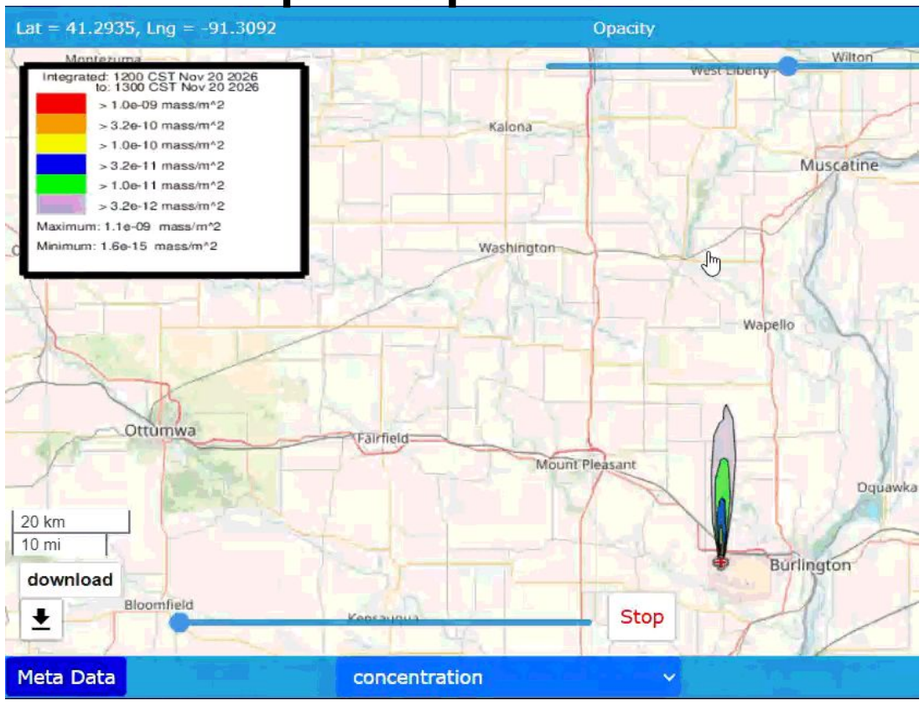
Key Messages

- NOAA hysplit run for a generic mass and an unknown material. **NO** details on the material were used!
- US Army Dispersion Information - This will update ahead of the detonation.

Evolution of deposition
12pm - 6 pm Nov 20



Evolution of concentration
12pm - 6 pm Nov 20



Hysplit Run Link - https://www.ready.noaa.gov/hysplitpublic-bin/hyresults.pl?jobidno=22195

Iowa Army Ammunition Plant Detonation 11/20

November 17, 2026
1:29 PM

Weather Information

Detailed Weather Matrix for Middletown, Iowa for November 20

	9am	10am	11am	12pm	1pm	2pm	3pm	4pm	5pm	6pm	7pm	8pm	9pm
Temperature	53°F	57°F	61°F	65°F	66°F	67°F	67°F	65°F	63°F	59°F	58°F	57°F	56°F
Sky Cover	18%	18%	19%	19%	18%	17%	16%	16%	16%	16%	16%	16%	16%
Relative Humidity	89%	77%	67%	58%	56%	54%	54%	56%	60%	67%	69%	72%	74%
Wind Direction	S	S	S	S	S	S	S	S	SSE	SSE	SSE	S	S
Wind Speed	8mph	9mph	9mph	10mph	12mph	12mph	13mph	13mph	13mph	13mph	14mph	14mph	14mph
Wind Gust Speed	15mph	16mph	17mph	18mph	20mph	21mph	22mph	22mph	23mph	17mph	18mph	20mph	20mph
Weather Conditions	-	-	-	-	-	-	-	-	-	-	-	-	-
Probability of Precipitation	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Transport Wind Speed	14mph	15mph	16mph	17mph	18mph	18mph	18mph	17mph	16mph	15mph	15mph	16mph	16mph
Transport Wind Direction	S	S	S	S	S	S	S	S	SSE	SSE	SSE	S	S
Mixing Height	1047ft	1522ft	2082ft	2618ft	3215ft	3649ft	3681ft	2945ft	1899ft	1011ft	990ft	965ft	932ft
NWS Hazardous Weather Alerts	-	-	-	-	-	-	-	-	-	-	-	-	-

Links to weather information

Customizable Weather Matrix

Hourly Weather Graph

IDSS Forecast Points