

**Table 1. East Palestine OH Train
Derailment & Fire**

Plume Disbursement

Date	Time	Plume Location and Description
Saturday 2/4/23	0200-0400	Plume starts SE into western PA towards Pittsburgh
	1000-1200	Plume initially SE into PA over Pittsburgh
	1200-1400	Plume SE & expands to NE into western PA over Pittsburgh & slightly beyond
	1600-1800	Plume shifts NNE into western NY to Lake Erie & expands eastward in NW PA & W NY
	2000-2200	Plume extends over Lake Erie & eastern Lake Ontario
Sunday 2/5/23	0600-0800	Plume expanded NE across western PA, western NY & Lake Erie to Lake Ontario
	1000-1200	Plume extended NE across western PA, western NY, Lake Erie to Lake Ontario – larger plume mass
	1600-1800	Plume expanded NE further into southern Canada across 2 Great Lakes, NW NY & southern Canada – longer modeled plume
Monday 2/6/23	0000-0200	Smaller plume over western PA & western NY to Lake Erie, small plume in southern Canada
	0400-0600	Small mass of Plume over southern Canada, large mass in central NY along Lake Erie, Third plume east from East Palestine (3 separate plume portions)
	0800-1000	Plume east into central PA, re-connects with central NY mass = large, combined mass, Canada plume above VT
	1000-1200	Large plume mass now in central PA/NY, Canada mass much smaller, no plume in eastern NY or southern VT
	1400-1600	Eastern OH plume SE across northern WV & VA, central PA to MD & Washington D.C., NY plume in SE NY/NE PA/NW NJ/ W VT
	1600-1800	OH plume SE across SW PA, northern WV & VA, to MD & near Washington D.C., NJ plume very small
	2000-2200	OH plume SSE across SE PA, NW WV, NJ plume gone
Tuesday 2/7/23	0600-0800	OH plume SSE across northern WV, northern OH plume across Lake Erie, large plume masses both north & south
	1000-1200	OH plume SE across NE WV, northern plume across eastern OH & Lake Erie into southern Canada across southern Ontario peninsula to Lake Heron
	1200-1400	OH mass SSE across NE WV, northern OH plume massive & crosses Lake Erie into Canada