

# Toxic Threat Zone

Time: July 21, 2022 1921 hours ST (user specified)

Chemical Name: OZONE

Wind: 2.21 meters/second from WSW at 3 meters

**THREAT ZONE:**

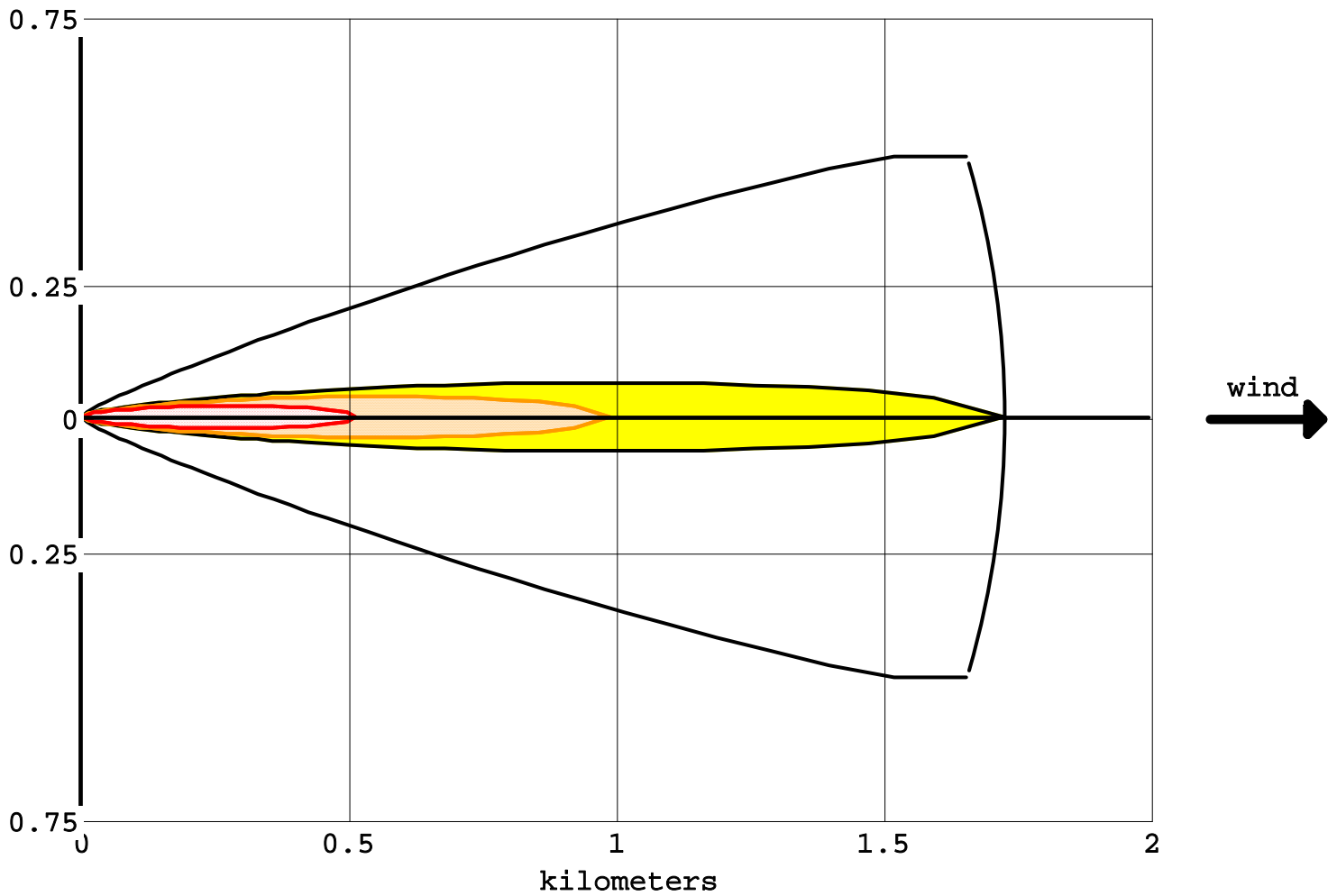
Model Run: Heavy Gas





Red : 511 meters --- (5 ppm = IDLH)

Orange: 988 meters --- (1 ppm = PAC-2)

Yellow: 1.7 kilometers --- (0.24 ppm = PAC-1)

kilometers



-  greater than 5 ppm (IDLH)
-  greater than 1 ppm (PAC-2)
-  greater than 0.24 ppm (PAC-1)
-  wind direction confidence lines

**SITE DATA:**

Location: TLAJOMULCO DE ZUÑIGA, MEXICO  
Building Air Exchanges Per Hour: 0.47 (unsheltered single storied)  
Time: July 21, 2022 1921 hours ST (user specified)

**CHEMICAL DATA:**

Chemical Name: OZONE  
CAS Number: 10028-15-6                      Molecular Weight: 48.00 g/mol  
PAC-1: 0.24 ppm      PAC-2: 1 ppm              PAC-3: 10 ppm  
IDLH: 5 ppm  
Ambient Boiling Point: -114.2° C  
Vapor Pressure at Ambient Temperature: greater than 1 atm  
Ambient Saturation Concentration: 1,000,000 ppm or 100.0%

**ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)**

Wind: 2.21 meters/second from WSW at 3 meters  
Ground Roughness: open country              Cloud Cover: 5 tenths  
Air Temperature: 21° C                      Stability Class: E  
No Inversion Height                      Relative Humidity: 50%

**SOURCE STRENGTH:**

Non-flammable gas is escaping from pipe  
Pipe Diameter: 4 inches                      Pipe Length: 113 meters  
Unbroken end of the pipe is closed off  
Pipe Roughness: smooth                      Hole Area: 12.6 sq in  
Pipe Press: 1.7 atmospheres              Pipe Temperature: 21° C  
Release Duration: 1 minute  
Max Average Sustained Release Rate: 26.5 grams/sec  
(averaged over a minute or more)  
Total Amount Released: 1.59 kilograms

**THREAT ZONE:**

Model Run: Heavy Gas  
Red : 511 meters --- (5 ppm = IDLH)  
Orange: 988 meters --- (1 ppm = PAC-2)  
Yellow: 1.7 kilometers --- (0.24 ppm = PAC-1)