

Environmental Hazards

| Hazard | Likelihood (Cause) | Severity (Effect) | Risk | Mitigation |
|------------------------|---|--|------------|---|
| Drag | 2 (High air pressure, low temperature and humidity) | 4 (Premature drag separation) | 8, Medium | Use appropriate amount of shear pins and vent holes |
| Landscape | 3 (Trees, brush, water, power lines, wildlife) | 5 (Inability to recover rocket) | 15, High | Angle rocket into wind as necessary to reduce drift |
| Humidity | 3 (Climate, poor forecast) | 1 (Rust on metallic components) | 3, Low | Use as little metal as possible, store indoors |
| Winds | 3 (Poor forecast) | 4 (Inability to launch, excessive drift) | 12, Medium | Angle into wind as necessary and abort if wind exceeds 20 mph |
| Temp. | 3 (Poor forecast) | 3 (Heat related injury) | 9, Medium | Ensure team is protected against the sun and stays hydrated |
| Pollution From Exhaust | 5 (Combustion of APCP motors) | 1 (Small amounts of greenhouse gasses emitted) | 5, Low | None |
| Pollution From Vehicle | 2 (Loss of components from vehicle) | 4 (Materials degrade extremely slowly) | 8, Medium | Properly fasten all components |