



Weather Delay Claim Report

Historical weather analysis for a disputed delay period

Case Information

Project	Demo Project
Claimant	Demo Claimant
Jobsite	Alexandria, Va (ZIP 22308)
Disputed period	Jul 1, 2026 to Jul 31, 2026
Soil basis	Silt, 2.5 base drying day(s) (NRCS hydrologic group C; supersedes the selected "Mixed")
Prepared for	Demo GC

Finding: MODESTLY ABOVE THE BASELINE MEDIAN

During the disputed period, 13 of 23 observed workdays (57%) were unworkable due to weather. Across the same calendar span in 2016-2025 the baseline is 10.1 unworkable workday(s) on average, with a median of 8.5. This period is modestly above the baseline median of 8.5 but well below the abnormality threshold of 14.0 (mean + 1 standard deviation). 3 of 10 comparable periods were more adverse.

Abnormal Weather Analysis (AIA A201 Section 15.1.6.2)

Metric	This period	Baseline (2016-2025)
Unworkable workdays	13	10.1 mean / 8.5 median
Comparable periods more adverse	3 of 10	-
Percentile rank within baseline	70th	-
Abnormality threshold	-	14 workdays
Total precipitation (in)	4.34	-
Composition of unworkable days	4 rain + 9 drying	-
Drying days charged per rain day	2.25	-
Baseline years used	-	10 of 10

Threshold = mean + 1 standard deviation of the baseline distribution. Exceeding the baseline MEAN alone is not a test of abnormality: a mean is exceeded in roughly half of all periods by construction, so this report sets the threshold above it and states the exceedance count outright.

Daily Weather Record (disputed dates)

Date	Day	Precip (in)	Max F	Status	Reason
Jul 1, 2026	Wed	0.00	98	Workable	Workable
Jul 2, 2026	Thu	0.00	102	Workable	Workable
Jul 3, 2026	Fri	0.00	102	Workable	Workable
Jul 4, 2026	Sat	0.00	103	Weekend	Workable
Jul 5, 2026	Sun	0.62	96	Weekend	Precipitation (0.62")
Jul 6, 2026	Mon	0.00	90	UNWORKABLE	Saturated / drying
Jul 7, 2026	Tue	0.11	84	UNWORKABLE	Precipitation (0.11")
Jul 8, 2026	Wed	0.00	85	UNWORKABLE	Saturated / drying
Jul 9, 2026	Thu	0.00	89	UNWORKABLE	Saturated / drying
Jul 10, 2026	Fri	0.43	89	UNWORKABLE	Precipitation (0.43")
Jul 11, 2026	Sat	0.71	90	Weekend	Precipitation (0.71")
Jul 12, 2026	Sun	0.00	85	Weekend	Saturated / drying
Jul 13, 2026	Mon	0.05	87	UNWORKABLE	Saturated / drying
Jul 14, 2026	Tue	0.00	91	Workable	Workable
Jul 15, 2026	Wed	0.00	97	Workable	Workable



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Jul 16, 2026	Thu	0.00	98	Workable	Workable
Jul 17, 2026	Fri	0.00	93	Workable	Workable
Jul 18, 2026	Sat	0.00	95	Weekend	Workable
Jul 19, 2026	Sun	0.02	89	Weekend	Workable
Jul 20, 2026	Mon	0.00	87	Workable	Workable
Jul 21, 2026	Tue	0.00	92	Workable	Workable
Jul 22, 2026	Wed	1.98	92	UNWORKABLE	Precipitation (1.98")
Jul 23, 2026	Thu	0.00	83	UNWORKABLE	Saturated / drying
Jul 24, 2026	Fri	0.00	82	UNWORKABLE	Saturated / drying
Jul 25, 2026	Sat	0.17	82	Weekend	Precipitation (0.17")
Jul 26, 2026	Sun	0.00	85	Weekend	Saturated / drying
Jul 27, 2026	Mon	0.25	90	UNWORKABLE	Precipitation (0.25")
Jul 28, 2026	Tue	0.00	91	UNWORKABLE	Saturated / drying
Jul 29, 2026	Wed	0.00	85	UNWORKABLE	Saturated / drying
Jul 30, 2026	Thu	0.00	86	UNWORKABLE	Saturated / drying
Jul 31, 2026	Fri	0.00	88	Workable	Workable

Baseline: unworkable workdays by year (same calendar span)

2016: 8 2017: 9 2018: 8 2019: 16* 2020: 12 2021: 5 2022: 8 2023: 14* 2024: 6
2025: 15*

* more adverse than the disputed period (13 unworkable workdays). Sorted ascending, the baseline runs 5, 6, 8, 8, 8, 9, 12, 14, 15, 16.

Methodology & Data Source

Precipitation observations from NOAA GHCND station ALEXANDRIA 6.8 S, VA US (US1VAFX0105), 0.9 miles from the jobsite; 100% completeness across this station's record. Temperature observations from station WASHINGTON REAGAN NATIONAL AIRPORT, VA US (USW00013743), 8.3 miles from the jobsite. U.S. Government public domain data. A workday (Mon-Fri) is counted unworkable when any of the following holds: (1) precipitation exceeds 0.1", EXCEPT that a light shower under 0.25" on a day above 75F following a dry antecedent period (under 0.5" over the preceding 5 days) is treated as evaporating without halting work; (2) soil-drying from prior precipitation has not completed (a soil-specific "drying clock" seeded from the preceding 10 days and scaled by antecedent 5-day moisture, the day's temperature, site gradient, sun exposure, and rainfall intensity); or (3) the ground is frozen (max temp < 32F), with the clock restarting on thaw. The drying clock for this jobsite was seeded at Silt, 2.5 base drying day(s) (NRCS hydrologic group C; supersedes the selected "Mixed"). MISSING DATA: days without a station reading are excluded from both the numerator and the denominator, are never assumed workable, and do not advance the soil-drying clock - the model holds its state until observations resume, so a gap in the record neither creates nor erases a lost day; the observed count is NOT scaled up to the full period. (The forward-looking Anticipated Weather Exhibit uses the opposite convention, scaling the observed rate to a full month, so its figures will run slightly higher for the same site.) "Abnormal" is assessed per AIA A201 Section 15.1.6.2 against the distribution of unworkable workdays over the identical calendar span in each of the prior 10 years - by the count of comparable periods that were more adverse, and against a threshold of the baseline mean plus one standard deviation. Exceeding the mean alone is not treated as abnormal.

DISCLAIMER: This report presents historical weather and soil-trafficability analysis to support the documentation of a weather delay claim. It is not legal advice and does not determine contractual entitlement, causation, or damages, which remain the responsibility of the claimant and its advisors. Ilystics is not affiliated with the AIA. Figures are derived from third-party station observations and a deterministic model; actual site conditions may vary with drainage, compaction, and work type.