

TerrainLogic Data and Assumptions Audit Report

Burleigh County Annual Soybean - 2026

Run identity

Run ID	eight-year-state-demo-2026
Created	2026-08-06T02:10:09Z
Schema	rusle2e.run_manifest.v0
Resolution mode	planner_grade
Soil aggregation	dominant

Factor traceability

Factor	Value	Method	Source
R	0.000264	county_doy_table.v0	climate/county_doy_table
K	0.240000	surface_horizon_dominant_component	soils/ssurgo_sda
LS	1.642180	compute_ls_v1	engine
C	0.115898	ei_weighted_mean	c_engine/v3_management
P	1.000000	direct	user/manual

Primary inputs

Management	managements\CMZ 01\1a.Single Year/Single Crop Templates\Soybeans wide row\ soybeans; wr, ST, z1
Climate	Burleigh County
R table	C:\ai\rusle2_engine\data\derived\r_factor_county_doy_base.parquet
Soil strategy	dominant_mukey
Dominant MUKEY	2564134
Topography	5.743420656293301% slope; 196.11464576196124 m length
Starting field state	Normal spin-up

Source-selection and fallback record

Input family	Mode / method
Topography	manual
Climate	manual
Soils	ssurgo_sda
Scenario	daily_v0

Known assumptions

Results are planning estimates. Missing measured soil nutrient pools remain explicitly unmeasured; nutrient inventory estimates use modeled dry biomass and documented tissue concentrations. Terrain screening and engineering products are separate from sheet-and-rill erosion estimates.