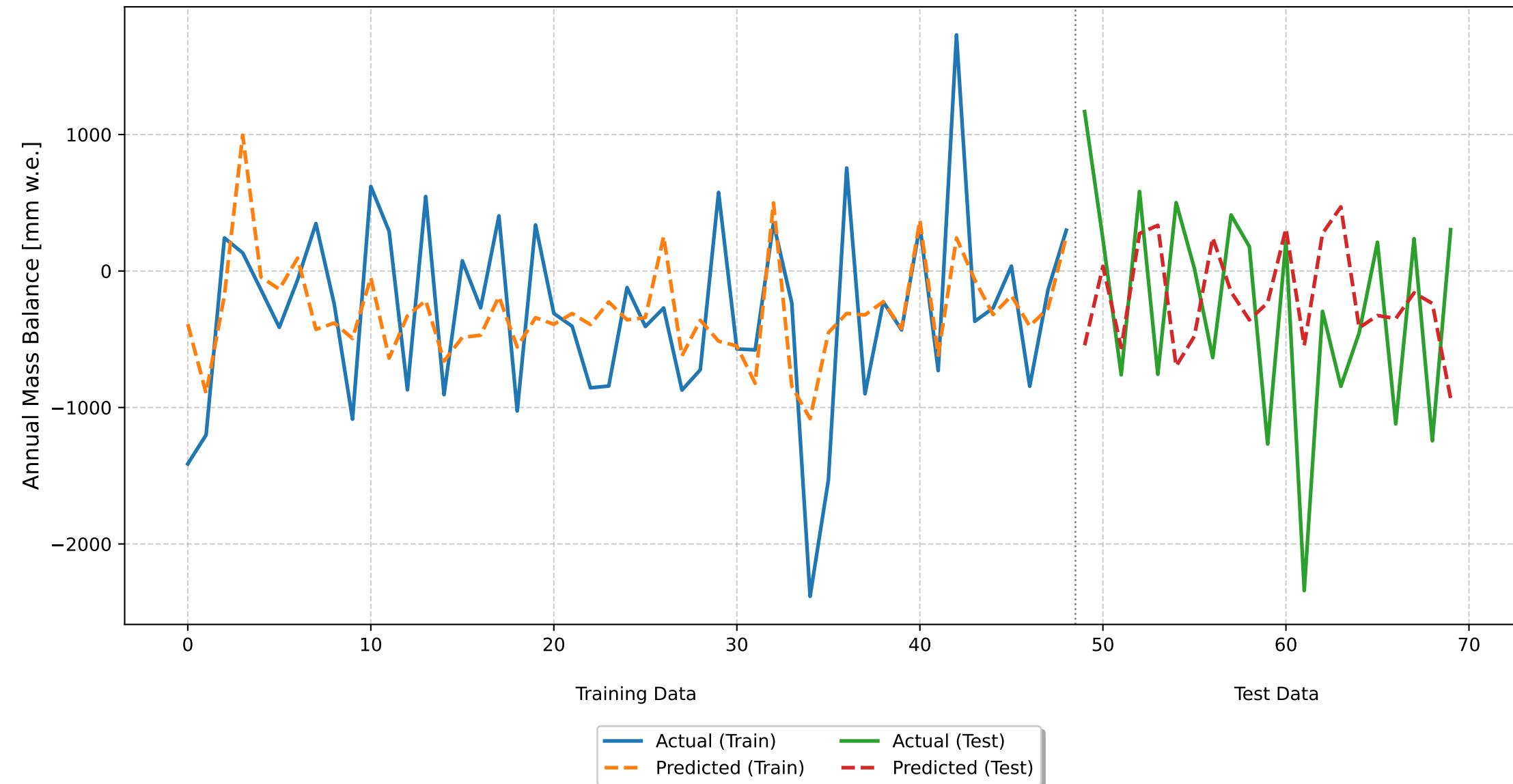


Glacier Mass Balance Model Results: Allalingletscher

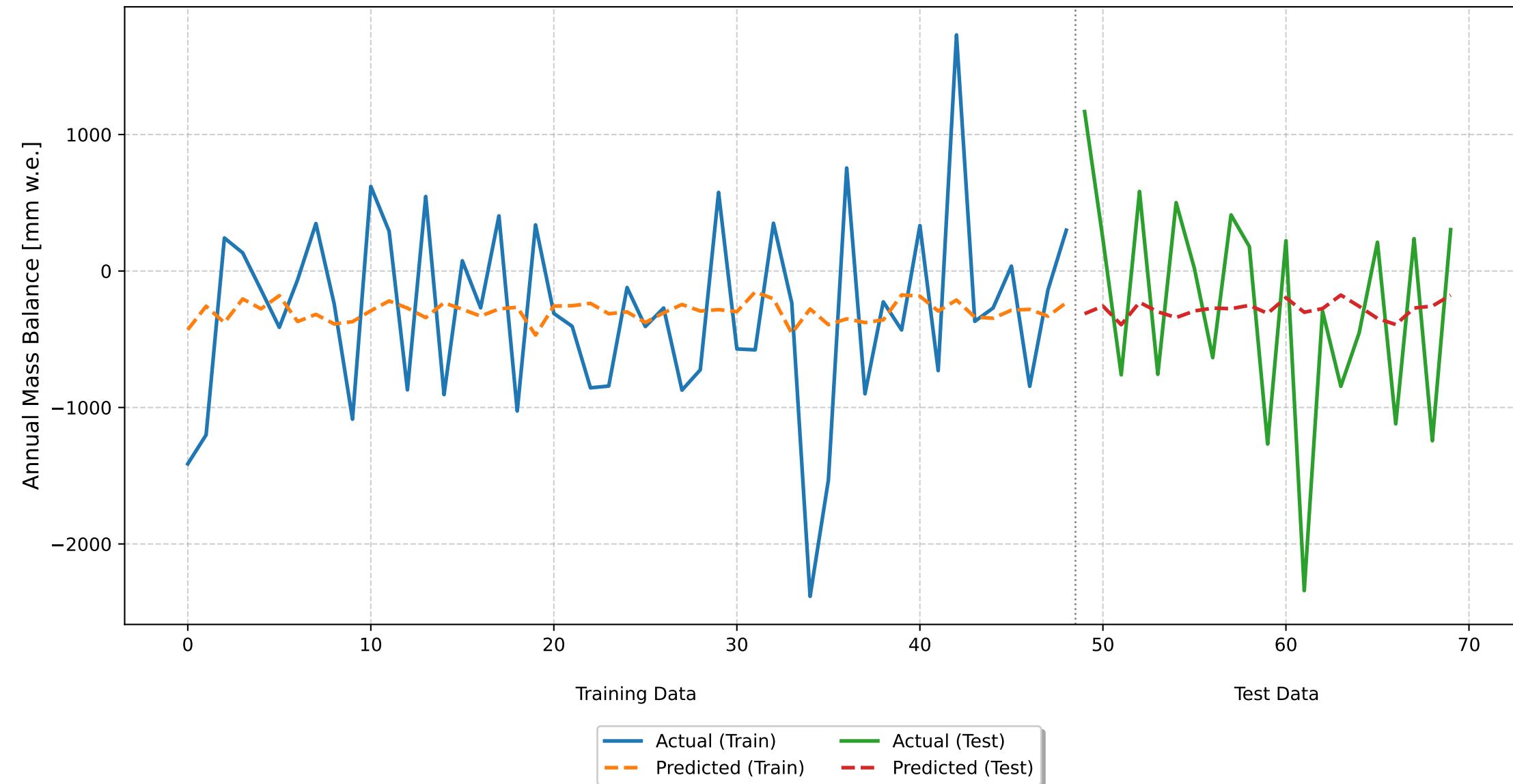
Monthly Deviations Model
Random 70-30 Split
CV RMSE: 833.28 (± 138.82)
Train RMSE: 579.99, Test RMSE: 907.87
Train R²: 0.2901, Test R²: -0.2930



Monthly Deviations Model - Performance Metrics and Coefficients

Metric	Value
Cross-Validation RMSE	833.28 (± 138.82)
Training RMSE	579.99
Training R ²	0.2901
Test RMSE	907.87
Test R ²	-0.2930
Feature	Coefficient
may_td	59.9416
june_td	-109.0030
july_td	-31.9949
august_td	-8.8897
september_td	-37.7508
october_pd	-141.7207
november_pd	-36.7174
december_pd	167.5166
january_pd	59.1347
february_pd	-73.6425
march_pd	-133.6114
april_pd	200.1921
Intercept	-297.4286

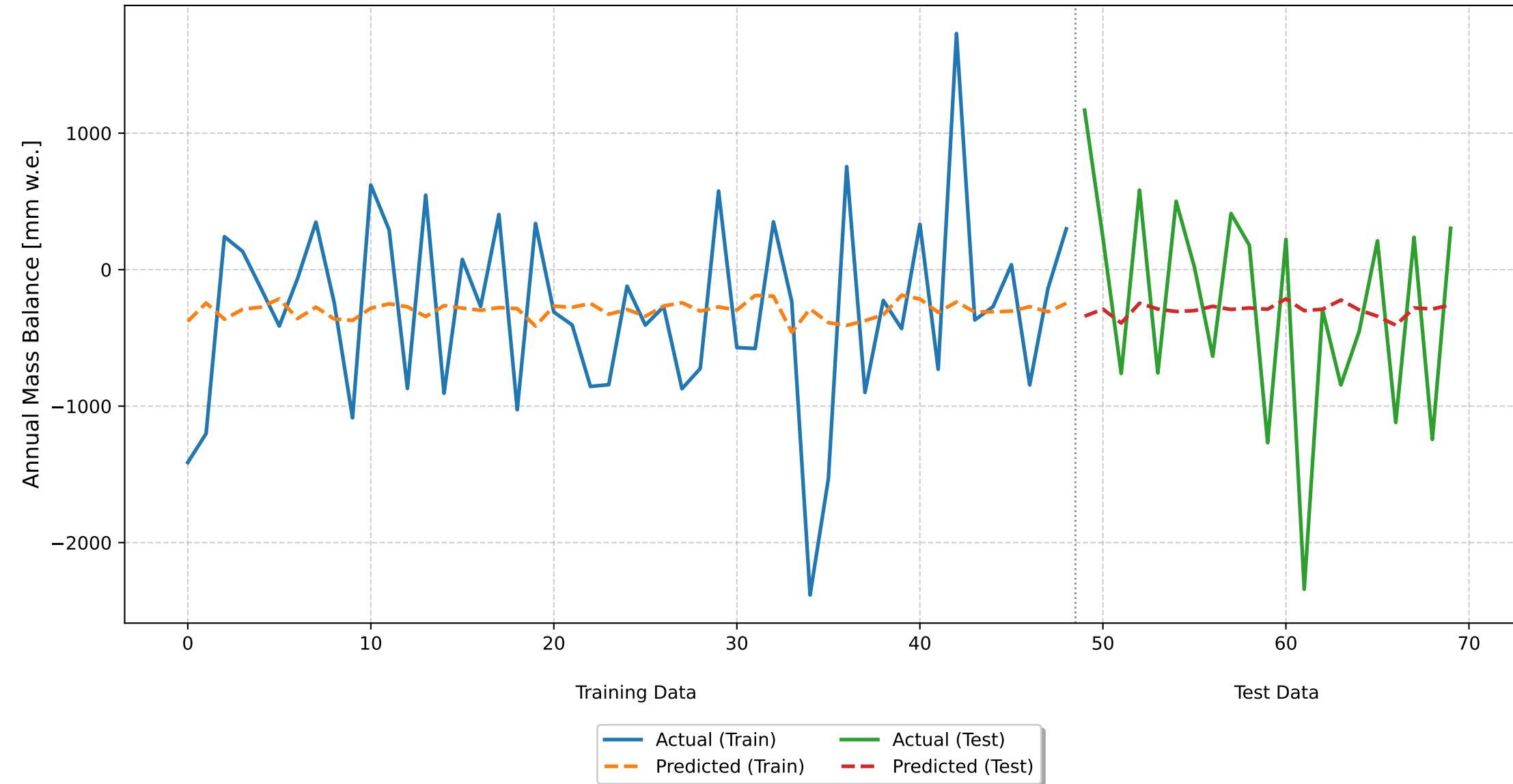
Seasonal Deviations Model
Random 70-30 Split
CV RMSE: 740.61 (± 93.72)
Train RMSE: 684.52, Test RMSE: 789.09
Train R²: 0.0112, Test R²: 0.0232



Seasonal Deviations Model - Performance Metrics and Coefficients

Metric	Value
Cross-Validation RMSE	740.61 (± 93.72)
Training RMSE	684.52
Training R ²	0.0112
Test RMSE	789.09
Test R ²	0.0232
Feature	Coefficient
summer_temp_dev	-48.2736
winter_precip_dev	39.7383
Intercept	-297.4286

Optimal Seasonal Deviations Model
Random 70-30 Split
CV RMSE: 737.31 (± 100.37)
Train RMSE: 685.78, Test RMSE: 793.56
Train R²: 0.0076, Test R²: 0.0121



Optimal Seasonal Deviations Model - Performance Metrics and Coefficients

Metric	Value
Cross-Validation RMSE	737.31 (± 100.37)
Training RMSE	685.78
Training R ²	0.0076
Test RMSE	793.56
Test R ²	0.0121
Feature	Coefficient
optimal_summer_temp_dev	-47.1030
optimal_winter_precip_dev	22.7646
Intercept	-297.4286