Table 1: Comprehensive Model Performance Metrics Across Datasets and Seasons

Model	Dataset/Season	Performance Metrics						
		MAE	RMSE	nRMSE	R^2	WAPE (%)	SMAPE (%)	Skill vs. P
XGBoost	Training	0.7010	1.4043	0.0051	0.9998	1.2173	1.1455	96
	Validation	0.8163	1.6438	0.0060	0.9997	1.1341	1.3103	97
	Testing	0.8024	1.6121	0.0059	0.9997	1.1941	1.2836	96
	Spring	0.7168	1.1653	0.0042	0.9998	1.1889	1.1787	97
	Summer	0.6634	1.0851	0.0040	0.9998	1.1796	1.0798	97
	Autumn	0.7776	1.8252	0.0066	0.9996	1.2539	1.2698	96
	Winter	0.7876	1.7476	0.0064	0.9996	1.1738	1.2659	96
Decision Tree	Training	0.3313	1.0331	0.0038	0.9999	0.5754	0.5975	97
	Validation	0.5399	1.4418	0.0053	0.9998	0.7501	0.8930	97
	Testing	0.5429	1.4184	0.0052	0.9997	0.8080	0.9140	97
	Spring	0.3797	0.8510	0.0031	0.9999	0.6297	0.6875	97
	Summer	0.3349	0.8239	0.0030	0.9999	0.5955	0.6402	97
	Autumn	0.4017	1.3174	0.0048	0.9998	0.6478	0.6952	97
	Winter	0.4746	1.5749	0.0057	0.9997	0.7072	0.7974	96
Linear Regression	Training	0.9699	2.4811	0.0090	0.9992	1.6844	1.4723	93
	Validation	0.9445	2.3452	0.0085	0.9993	1.3122	1.1224	95
	Testing	0.7468	2.3001	0.0084	0.9993	1.1114	1.5137	95
	Spring	0.8424	1.6799	0.0061	0.9996	1.3971	1.4323	95
	Summer	0.8904	1.7825	0.0065	0.9996	1.5834	1.3913	95
	Autumn	1.0411	3.1110	0.0113	0.9989	1.6789	1.4508	93
	Winter	0.9691	2.9455	0.0107	0.9990	1.4442	1.3867	93
Ridge Regression	Training	0.9677	2.4814	0.0090	0.9992	1.6806	1.4614	93
	Validation	0.9368	2.3416	0.0085	0.9993	1.3015	1.1042	95
	Testing	0.7524	2.3090	0.0084	0.9993	1.1196	1.5171	95
	Spring	0.8437	1.6842	0.0061	0.9996	1.3994	1.4290	95
	Summer	0.8913	1.7854	0.0065	0.9996	1.5850	1.3878	95
	Autumn	1.0355	3.1099	0.0113	0.9989	1.6699	1.4323	93
	Winter	0.9643	2.9453	0.0107	0.9990	1.4370	1.3724	93
Lasso Regression	Training	0.9815	2.4994	0.0091	0.9992	1.7046	1.4683	93
	Validation	0.9607	2.3457	0.0085	0.9993	1.3346	1.1129	95
	Testing	0.6648	2.2200	0.0081	0.9994	0.9893	1.2639	95
	Spring	0.8097	1.6715	0.0061	0.9996	1.3430	1.3299	95
	Summer	0.8729	1.7993	0.0066	0.9996	1.5522	1.3222	95
	Autumn	1.0536	3.1095	0.0113	0.9989	1.6991	1.4347	93
	Winter	1.0040	2.9469	0.0107	0.9990	1.4963	1.3867	93
Elastic Net	Training	0.9815	2.4994	0.0091	0.9992	1.7046	1.4683	93
	Validation	0.9607	2.3457	0.0085	0.9993	1.3346	1.1129	95
	Testing	0.6648	2.2200	0.0081	0.9994	0.9893	1.2639	95
	Spring	0.8097	1.6715	0.0061	0.9996	1.3430	1.3299	95
	Summer	0.8729	1.7993	0.0066	0.9996	1.5522	1.3222	95
	Autumn	1.0536	3.1095	0.0113	0.9989	1.6991	1.4347	93
	Winter	1.0040	2.9469	0.0107	0.9990	1.4963	1.3867	93
Persistence	Training	13.5393	37.4153	0.1362	0.8228	23.5221	31.1036	
	Validation	25.5682	58.1383	0.2117	0.5993	35.4606	42.2615	
	Testing	21.7834	52.2341	0.1903	0.6600	32.4614	40.1386	
	Spring	15.1911	40.0742	0.1459	0.7877	25.2151	32.5199	
	Summer	12.9427	39.0129	0.1420	0.7971	23.0071	29.3189	
	Autumn	21.1276	51.3114	0.1868	0.6908	34.0707	42.3788	
	Winter	17.8128	44.0137	0.1602	0.7749	26.5694	34.9198	

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