Same Season

ANNS	ANNS	ANNS	ANNS	ANNS
MODEL	RMSE	MAE	MAPE	R2
mlp1_5_5_th_0.7	55,28411	39,8542	89,11859	0,3443755
mlp2_5_5_th_0.7	52,91056	37,18499	73,39812	0,3994639
mlp3_5_5_th_0.7	53,85779	36,83459	71,77759	0,3777692
mlp4_5_5_th_0.7	54,68805	37,31501	70,47315	0,3584369
mlp5_5_5_th_0.7	54,49576	38,21083	79,82758	0,3629407
mlp1_5_5_th_0.5	55,16863	38,70069	78,42642	0,3471118
mlp2_5_5_th_0.5	54,3299	39,55515	88,56039	0,3668125
mlp3_5_5_th_0.5	52,24617	37,66152	78,85296	0,4144509
mlp4_5_5_th_0.5	54,80742	39,13804	90,52668	0,3556331
mlp5_5_5_th_0.5	53,92849	37,06416	73,37369	0,3761344
mlp1_5_5_th_0.3	60,45868	42,56303	83,92279	0,2158993
mlp2_5_5_th_0.3	53,10488	37,61832	84,47538	0,3950448
mlp3_5_5_th_0.3	61,03018	42,34575	82,42448	0,2010057
mlp4_5_5_th_0.3	57,208	40,52207	95,95393	0,29795
mlp5_5_5_th_0.3	56,88997	39,72642	77,67789	0,3057341
mlp1_5_5_th_0.1	52,13355	36,43226	73,93607	0,4169725
mlp2_5_5_th_0.1	53,30965	37,35414	74,97341	0,3903704
mlp3_5_5_th_0.1	60,58915	43,84833	93,3765	0,2125115
mlp4_5_5_th_0.1	56,93233	40,21432	85,55897	0,3046998
mlp5_5_5_th_0.1	58,36171	42,90701	100,22749	0,2693481

Avg Errors	RMSE	MAE	MAPE	R2
mlp_5_5_th_0.5	54,209576	38,653246	83,238806	0,3693898
mlp_5_5_th_0.7	54,224158	37,649222	74,780572	0,3691445
mlp_5_5_th_0.1	55,97093	39,515094	81,104568	0,32605766
mlp_5_5_th_0.3	56,073316	39,328964	82,89355	0,32334142

MODEL	RMSE	MAE	MAPE	R2
mlp1_5_5_th_0.7	8,579487	6,730898	51,00393	0,2021447
mlp2_5_5_th_0.7	8,830576	6,839479	51,3028	0,1547611
mlp3_5_5_th_0.7	8,780874	6,727276	49,96312	0,1642489
mlp4_5_5_th_0.7	8,786234	6,839225	51,67278	0,1632283
mlp5_5_5_th_0.7	8,692572	6,71348	48,61381	0,1809733
mlp1_5_5_th_0.5	8,940177	6,947177	52,7589	0,1336494
mlp2_5_5_th_0.5	8,894617	6,982776	52,031	0,1424569
mlp3_5_5_th_0.5	8,585865	6,584931	47,93562	0,200958
mlp4_5_5_th_0.5	8,892549	6,836237	49,23869	0,1428556
mlp5_3_5_th_0.5	8,693234	6,769617	49,88867	0,1808485
mlp1_5_5_th_0.3	8,745404	6,815161	50,32858	0,1709872
mlp2_5_5_th_0.3	9,041558	6,991698	51,09315	0,1138893
mlp3_5_5_th_0.3	8,848188	6,735841	48,17632	0,1513861
mlp4_5_5_th_0.3	8,892943	6,926182	51,77056	0,1427796
mlp5_5_5_th_0.3	9,054049	7,025448	48,91243	0,1114393
mlp1_5_5_th_0.1	9,194065	7,092523	52,60626	0,0837444
mlp2_5_5_th_0.1	9,89925	7,876516	57,20506	-0,0621995
mlp3_5_5_th_0.1	9,359312	7,166918	49,62743	0,0505124
mlp4_5_5_th_0.1	9,336123	7,277273	50,12783	0,0552115
mlp5_4_5_th_0.1	9,171205	7,042276	49,25703	0,0882952

Avg Errors	RMSE	MAE	MAPE	R2

mlp_5_5_th_0.7	8,7339486	6,7700716	50,511288	0,17307126
mlp_5_5_th_0.5	8,8012884	6,8241476	50,370576	0,16015368
mlp_5_5_th_0.3	8,9164284	6,898866	50,056208	0,1380963
mlp_5_5_th_0.1	9,391991	7,2911012	51,764722	0,0431128

SVRs SVRs SVRs SVRs SVRs

MODEL	RMSE	MAE	MAPE	R2
svr_gam0.000977_eps0.25_c4	55,77505	38,5942	74,87463	0,3326796
svr_gam0.000977_eps0.0625_c4	55,77505	38,5942	74,87463	0,3326796
svr_gam0.00391_eps0.0625_c4	56,4698	41,06279	86,9231	0,3159514
svr_gam0.00391_eps0.25_c0.25	56,9055	38,17804	68,12989	0,3053551
svr_gam0.000977_eps0.25_c0.25	57,58945	37,9557	67,26167	0,2885566
svr_gam0.000977_eps1_c0.25	57,58945	37,9557	67,26167	0,2885566
svr_gam0.0156_eps1_c0.25	57,73706	39,31418	73,87819	0,2849049
svr_gam0.0156_eps0.25_c0.25	57,73706	39,31418	73,87819	0,2849049
svr_gam0.0156_eps0.0625_c0.25	57,73706	39,31418	73,87819	0,2849049
svr_gam0.0156_eps0.25_c1	57,89398	40,5979	78,58867	0,2810125
svr_gam0.000977_eps0.0625_c64	58,32753	43,26479	97,36696	0,2702038
svr_gam0.0625_eps0.0625_c1020	59,21434	43,29521	107,98355	0,2478436
svr_gam0.0625_eps0.25_c256	59,22077	43,05199	106,24013	0,24768
svr_gam0.0625_eps0.0625_c64	59,48323	43,06074	106,44978	0,2409968
svr_gam0.0625_eps1_c16	59,72187	42,57143	102,09894	0,2348947
svr_gam0.0156_eps0.25_c4	60,00967	43,14789	87,64301	0,2275027
svr_gam0.0156_eps1_c4	60,00967	43,14789	87,64301	0,2275027
svr_gam0.0625_eps0.0625_c0.25	63,28053	42,45448	87,33855	0,140997
svr_gam0.0625_eps0.25_c0.25	63,28053	42,45448	87,33855	0,140997
svr_gam0.0156_eps0.25_c16	65,46453	47,21597	95,51633	0,0806803
svr_gam0.25_eps0.25_c16	69,24082	50,57247	138,38257	-0,0284399
svr_gam0.25_eps1_c16	69,24082	50,57247	138,38257	-0,0284399
svr_gam0.25_eps0.0625_c64	69,25601	50,55143	138,12752	-0,028891
svr_gam0.25_eps1_c4	69,26562	50,56933	138,23534	-0,0291768
svr_gam0.25_eps0.0625_c4	69,26562	50,56933	138,23534	-0,0291768
svr_gam0.25_eps0.25_c1020	69,2685	50,54082	137,97701	-0,0292621
svr_gam0.25_eps1_c256	69,2685	50,54082	137,97701	-0,0292621
svr_gam0.25_eps0.0625_c1020	69,2685	50,54082	137,97701	-0,0292621
svr_gam0.25_eps0.25_c1	69,92415	50,28168	132,29124	-0,0488392
svr_gam1_eps1_c4	70,50612	51,31064	139,14475	-0,0663705
svr_gam1_eps0.0625_c4	70,50612	51,31064	139,14475	-0,0663705
svr_gam1_eps0.25_c64	70,50613	51,30929	139,13256	-0,0663708
svr_gam1_eps0.25_c1020	70,50613	51,30929	139,13256	-0,0663708
svr_gam1_eps1_c16	70,50613	51,30929	139,13256	-0,0663708
svr_gam1_eps0.0625_c64	70,50613	51,30929	139,13256	-0,0663708
svr_gam1_eps0.25_c256	70,50613	51,30929	139,13256	-0,0663708
svr_gam4_eps1_c4	70,52928	51,19146	137,88723	-0,067071
svr_gam4_eps1_c16	70,52948	51,20093	137,97127	-0,0670771
svr_gam4_eps1_c1020	70,52948	51,20093	137,97127	-0,0670771
svr_gam4_eps0.0625_c16	70,52948	51,20093	137,97127	-0,0670771
svr_gam4_eps0.25_c64	70,52948	51,20093	137,97127	-0,0670771
svr_gam1_eps0.0625_c1	71,12759	50,58119	129,41013	-0,0852521
svr_gam4_eps0.25_c1	71,71635	50,20427	122,65513	-0,1032927
svr_gam4_eps1_c1	71,71635	50,20427	122,65513	-0,1032927

svr_gam1_eps0.25_c0.25	73,41456	49,94379	109,10172	-0,1561624
svr_gam1_eps0.0625_c0.25	73,41456	49,94379	109,10172	-0,1561624
svr_gam0.000977_eps1_c1020	74,26028	55,54369	144,83676	-0,1829532
svr_gam0.0156_eps0.0625_c256	78,724	57,66979	133,65385	-0,3294401
svr_gam0.00391_eps1_c256	83,8041	61,24007	152,07199	-0,506555
svr_gam0.00391_eps0.25_c1020	97,0731	71,67656	180,37692	-1,0213998
MIN	55,77505	37,9557	67,26167	-1,0213998
MAX	97,0731	71,67656	180,37692	0,3326796

MODEL	RMSE	MAE	MAPE	R2
svr_gam0.000244_eps0.5_c0.25	8,5993	6,765152	51,18965	0,1984555
svr_gam0.000977_eps0.125_c1	8,709371	6,70962	49,71234	0,1778046
svr_gam0.00391_eps0.0312_c0.25	8,750159	6,777722	51,6957	0,1700855
svr_gam0.00391_eps0.125_c0.25	8,750159	6,777722	51,6957	0,1700855
svr_gam0.000244_eps2_c16	8,830162	6,797995	49,7076	0,1548403
svr_gam0.000244_eps0.0312_c16	8,830162	6,797995	49,7076	0,1548403
svr_gam0.000244_eps0.125_c16	8,830162	6,797995	49,7076	0,1548403
svr_gam0.000977_eps0.125_c4	9,035339	6,999949	51,96875	0,1151078
svr_gam0.000977_eps0.0312_c4	9,035339	6,999949	51,96875	0,1151078
svr_gam0.00391_eps2_c1	9,151154	7,077089	52,51972	0,0922772
svr_gam0.00391_eps0.0312_c1	9,151154	7,077089	52,51972	0,0922772
svr_gam0.0156_eps0.125_c0.25	9,196794	7,230333	57,71779	0,0832005
svr_gam0.0156_eps2_c0.25	9,196794	7,230333	57,71779	0,0832005
svr_gam0.000244_eps0.5_c64	9,23512	7,175789	53,23233	0,0755434
svr_gam0.000244_eps0.0312_c64	9,23512	7,175789	53,23233	0,0755434
svr_gam0.0156_eps0.0312_c1	9,538739	7,427389	57,38367	0,0137582
svr_gam0.0625_eps0.0312_c0.25	9,88922	8,089768	69,20659	-0,0600482
svr_gam0.0625_eps0.125_c1	10,096814	8,261463	70,85688	-0,1050202
svr_gam0.0625_eps0.5_c1	10,096814	8,261463	70,85688	-0,1050202
svr_gam0.0625_eps0.0312_c1	10,096814	8,261463	70,85688	-0,1050202
svr_gam0.0156_eps0.5_c4	10,369632	8,082324	60,34498	-0,1655427
svr_gam0.0156_eps0.125_c4	10,369632	8,082324	60,34498	-0,1655427
svr_gam0.00391_eps0.125_c4	10,435771	8,079669	59,50858	-0,180458
svr_gam0.00391_eps0.0312_c4	10,435771	8,079669	59,50858	-0,180458
svr_gam0.0625_eps0.125_c4	10,47189	8,567302	74,46163	-0,1886436
svr_gam0.0625_eps2_c4	10,47189	8,567302	74,46163	-0,1886436
svr_gam0.0625_eps0.125_c16	10,664361	8,685524	75,8139	-0,2327389
svr_gam0.0625_eps2_c64	10,74501	8,754237	76,37955	-0,2514547
svr_gam0.0625_eps0.125_c64	10,74501	8,754237	76,37955	-0,2514547
svr_gam0.000244_eps0.0312_c256	10,767905	8,245181	61,32462	-0,2567935
svr_gam0.0625_eps0.5_c256	10,823125	8,848062	76,67219	-0,2697166
svr_gam0.0156_eps2_c16	12,226509	9,443913	68,74435	-0,6203409
svr_gam0.00391_eps0.125_c64	12,851978	10,03553	73,40321	-0,7903644
svr_gam0.00391_eps0.0312_c64	12,851978	10,03553	73,40321	-0,7903644
svr_gam0.00391_eps2_c64	12,851978	10,03553	73,40321	-0,7903644
svr_gam0.00391_eps0.5_c64	12,851978	10,03553	73,40321	-0,7903644
svr_gam0.00391_eps2_c16	13,355125	10,276379	75,83758	-0,9332918
svr_gam0.00391_eps0.5_c16	13,355125	10,276379	75,83758	-0,9332918
svr_gam0.00391_eps0.0312_c16	13,355125	10,276379	75,83758	-0,9332918
svr_gam0.000977_eps2_c64	13,822082	10,070393	75,26351	-1,0708488

svr_gam0.000244_eps0.125_c1020	15,363586	10,782032	80,80419	-1,5585073
svr_gam0.000244_eps0.0312_c1020	15,363586	10,782032	80,80419	-1,5585073
svr_gam0.0156_eps0.125_c256	17,256714	13,206222	101,88612	-2,2278823
svr_gam0.0156_eps0.0312_c256	17,256714	13,206222	101,88612	-2,2278823
svr_gam0.000977_eps0.0312_c256	19,771947	13,511093	103,78668	-3,2374089
svr_gam0.000977_eps0.125_c256	19,771947	13,511093	103,78668	-3,2374089
svr_gam0.000977_eps0.0312_c1020	20,641061	14,498989	112,23117	-3,6181231
svr_gam0.000977_eps2_c1020	20,641061	14,498989	112,23117	-3,6181231
svr_gam0.00391_eps2_c1020	23,402871	17,578785	132,32764	-4,9366271
svr_gam0.00391_eps0.5_c1020	23,402871	17,578785	132,32764	-4,9366271

MIN	8,5993	6,70962	49,7076	-4,9366271
MAX	23,402871	17,578785	132,32764	0,1778046

MODEL	RMSE	MAE	MAPE	R2
mlr	52,19708	37,87136	91,89475	0,4155507
lasso_mlr	53,09233	37,49482	82,96298	0,3953306
log_mlr	54,95484	36,36784	64,45146	0,3521621

MODEL	RMSE	MAE	MAPE	R2
mlr	8,832782	6,796416	49,7808	0,1543385
lasso_mlr	8,585225	6,664181	51,6458	0,2010771
log_mlr	8,869874	6,682591	44,03154	0,1472213

BEST RESULTS	MIN			MAX
SEASON	RMSE	MAE	MAPE	R2
winter	52,19708	36,36784	64,45146	0,4155507
spring	16,0718	11,22223	54,91689	0,1908319
summer	8,585225	6,664181	44,03154	0,2010771
autumn	25,952132	18,21777	52,50317	0,20828614

BEST MODELS

MODEL	RMSE	MAE	MAPE	R2
mlr	52,19708	37,87136	91,89475	0,4155507
lasso_mlr	53,09233	37,49482	82,96298	0,3953306
log_mlr	54,95484	36,36784	64,45146	0,3521621
mlp_5_5_th_0.5	54,209576	38,653246	83,238806	0,3693898
svr_gam0.000977_eps0.25_c4	55,77505	38,5942	74,87463	0,3326796

MODEL	RMSE	MAE	MAPE	R2
mlr	8,832782	6,796416	49,7808	0,1543385
lasso_mlr	8,585225	6,664181	51,6458	0,2010771
log_mlr	8,869874	6,682591	44,03154	0,1472213

mlp_5_5_th_0.7	8,7339486	6,7700716	50,511288	0,17307126
svr_gam0.000244_eps0.5_c0.25	8,5993	6,765152	51,18965	0,1984555

ANNS	ANNS	ANNS	ANNS
FUTURE_LAG	SEASON	MODEL	RMSE
24	winter	mlp1_4_3_th_0.7	16,55632
24	winter	mlp2_4_3_th_0.7	16,5334
24	winter	mlp3_4_3_th_0.7	17,09973
24	winter	mlp4_4_3_th_0.7	17,16658
24	winter	mlp4_3_5_th_0.7	16,61523
24	winter	mlp1_4_3_th_0.5	16,9938
24	winter	mlp2_4_3_th_0.5	16,93545
24	winter	mlp3_4_3_th_0.5	16,66756
24	winter	mlp4_4_3_th_0.5	17,02636
24	winter	mlp4_3_5_th_0.5	17,1846
24	winter	mlp1_4_3_th_0.3	16,91577
24	winter	mlp2_4_3_th_0.3	16,46126
24	winter	mlp3_4_3_th_0.3	17,47977
24	winter	mlp4_4_3_th_0.3	17,56594
24	winter	mlp4_3_5_th_0.3	16,68608
24	winter	mlp1_4_3_th_0.1	16,68294
24	winter	mlp2_4_3_th_0.1	16,57191
24	winter	mlp3_4_3_th_0.1	17,96998
24	winter	mlp4_4_3_th_0.1	18,76351
24	winter	mlp4_3_5_th_0.1	16,99552

FUTURE_LAG	SEASON	Avg Errors	RMSE
24	winter	mlp_4_3_th_0.7	16,794252
24	winter	mlp_4_3_th_0.5	16,961554
24	winter	mlp_4_3_th_0.3	17,021764
24	winter	mlp_4_3_th_0.1	17,396772

FUTURE_LAG	SEASON	MODEL	RMSE
24	summer	mlp1_3_2_th_0.7	25,5057
24	summer	mlp2_3_2_th_0.7	26,08922
24	summer	mlp3_3_2_th_0.7	26,78985
24	summer	mlp4_3_2_th_0.7	25,47326
24	summer	mlp5_3_2_th_0.7	26,08148
24	summer	mlp1_3_2_th_0.5	25,47204
24	summer	mlp2_3_2_th_0.5	26,65788
24	summer	mlp3_3_2_th_0.5	25,83866
24	summer	mlp4_3_2_th_0.5	25,90475
24	summer	mlp5_3_2_th_0.5	25,80833
24	summer	mlp1_3_2_th_0.3	25,65226
24	summer	mlp2_3_2_th_0.3	25,7544
24	summer	mlp3_3_2_th_0.3	27,19511
24	summer	mlp4_3_2_th_0.3	24,96087
24	summer	mlp5_3_5_th_0.3	25,78717
24	summer	mlp1_3_2_th_0.1	25,58705
24	summer	mlp2_3_2_th_0.1	26,56094
24	summer	mlp3_3_2_th_0.1	25,65815
24	summer	mlp4_3_2_th_0.1	25,87594
24	summer	mlp5_3_2_th_0.1	26,07858

FUTURE_LAG	SEASON	Avg Errors	RMSE

24 summer	Mlp_3_2_th_0.3	26,06297
24 summer	Mlp_3_2_th_0.7	25,98117
24 summer	Mlp_3_2_th_0.5	25,972376
24 summer	Mlp_3_2_th_0.1	25,952132

SVRs SVRs SVRs SVRs

FUTURE_LAG	SEASON	MODEL	RMSE
	24 winter	svr_gam0.000977_eps0.25_c0.25	16,0718
	24 winter	svr_gam0.000977_eps0.25_c1	16,39657
	24 winter	svr_gam0.00391_eps0.25_c0.25	16,49014
	24 winter	svr_gam0.0156_eps0.25_c0.25	16,773
	24 winter	svr_gam0.0156_eps0.0625_c0.25	16,773
	24 winter	svr_gam0.000977_eps1_c4	16,96869
	24 winter	svr_gam0.000977_eps0.25_c4	16,96869
	24 winter	svr_gam0.0625_eps0.25_c4	17,40423
	24 winter	svr_gam0.0625_eps0.0625_c4	17,40423
	24 winter	svr_gam0.0625_eps1_c64	17,4597
	24 winter	svr_gam0.0625_eps0.25_c64	17,4597
	24 winter	svr_gam0.0625_eps0.0625_c64	17,4597
	24 winter	svr_gam0.0625_eps1_c256	17,50238
	24 winter	svr_gam0.0625_eps0.0625_c1	17,51081
	24 winter	svr_gam0.0625_eps0.0625_c1020	17,53153
	24 winter	svr_gam1_eps0.0625_c0.25	17,87069
	24 winter	svr_gam1_eps1_c0.25	17,87069
	24 winter	svr_gam0.25_eps0.25_c0.25	18,023
	24 winter	svr_gam0.000977_eps0.0625_c16	18,06809
	24 winter	svr_gam0.000977_eps0.25_c16	18,06809
	24 winter	svr_gam0.0156_eps0.25_c1	18,19593
	24 winter	svr_gam0.0156_eps1_c1	18,19593
	24 winter	svr_gam0.25_eps1_c1	18,58576
	24 winter	svr_gam0.25_eps0.0625_c1	18,58576
	24 winter	svr_gam4_eps1_c64	18,71658
	24 winter	svr_gam4_eps0.0625_c1020	18,71658
	24 winter	svr_gam4_eps1_c16	18,71658
	24 winter	svr_gam4_eps0.25_c1020	18,71658
	24 winter	svr_gam1_eps1_c64	18,83549
	24 winter	svr_gam1_eps0.25_c64	18,83549
	24 winter	svr_gam1_eps0.25_c1020	18,83549
	24 winter	svr_gam1_eps1_c16	18,83552
	24 winter	svr_gam0.25_eps0.0625_c256	18,87676
	24 winter	svr_gam0.25_eps0.25_c16	18,87737
	24 winter	svr_gam0.25_eps0.0625_c16	18,87737
	24 winter	svr_gam0.00391_eps0.25_c4	19,80453
	24 winter	svr_gam0.00391_eps0.0625_c4	19,80453
	24 winter	svr_gam0.0156_eps0.25_c4	21,46858
	24 winter	svr_gam0.000977_eps0.25_c64	22,17223
	24 winter	svr_gam0.000977_eps1_c64	22,17223
	24 winter	svr_gam0.0156_eps1_c16	22,19643
	24 winter	svr_gam0.0156_eps0.25_c256	26,53067
	24 winter	svr_gam0.0156_eps0.0625_c256	26,53067
	24 winter	svr_gam0.00391_eps0.0625_c16	28,35342

24 winter	svr_gam0.00391_eps1_c16	28,35342
24 winter	svr_gam0.0156_eps0.0625_c1020	30,31674
24 winter	svr_gam0.00391_eps1_c256	32,24831
24 winter	svr_gam0.00391_eps0.25_c256	32,24831
24 winter	svr_gam0.00391_eps0.0625_c64	32,76205
24 winter	svr_gam0.00391_eps0.0625_c1020	40,2767
	MIN	16,0718
	MAX	40,2767

FUTURE_LAG	SEASON	MODEL	RMSE
24	summer	svr_gam0.000244_eps0.5_c16	26,59559
24	summer	svr_gam0.000244_eps2_c16	26,59559
24	summer	svr_gam0.000244_eps2_c64	26,65537
24	summer	svr_gam0.000244_eps0.0312_c64	26,65537
24	summer	svr_gam0.000244_eps0.5_c64	26,65537
24	summer	svr_gam0.00391_eps0.0312_c0.25	26,78624
24	summer	svr_gam0.00391_eps0.5_c0.25	26,78624
24	summer	svr_gam0.00391_eps0.125_c0.25	26,78624
24	summer	svr_gam0.000977_eps2_c1	26,8064
24	summer	svr_gam0.000977_eps0.5_c1	26,8064
24	summer	svr_gam0.000977_eps0.0312_c0.25	26,81071
24	summer	svr_gam0.000977_eps0.125_c0.25	26,81071
24	summer	svr_gam0.000244_eps0.5_c1	26,82416
24	summer	svr_gam0.0156_eps0.0312_c0.25	26,86895
24	summer	svr_gam0.000244_eps0.125_c0.25	27,00167
24	summer	svr_gam0.00391_eps0.125_c1	27,06894
24	summer	svr_gam0.00391_eps2_c1	27,06894
24	summer	svr_gam0.00391_eps0.125_c4	27,26325
24	summer	svr_gam0.000977_eps0.5_c16	27,61005
24	summer	svr_gam0.0625_eps0.5_c0.25	27,65779
24	summer	svr_gam0.0625_eps2_c0.25	27,65779
24	summer	svr_gam0.000244_eps0.5_c256	27,68397
24	summer	svr_gam0.000244_eps0.125_c256	27,68397
24	summer	svr_gam0.0156_eps0.0312_c1	27,86819
24	summer	svr_gam0.000977_eps2_c64	27,88818
24	summer	svr_gam0.000977_eps0.0312_c64	27,88818
24	summer	svr_gam0.000977_eps0.125_c64	27,88818
24	summer	svr_gam0.000244_eps0.5_c1020	28,17519
24	summer	svr_gam0.0625_eps2_c1	28,43103
24	summer	svr_gam0.0625_eps0.5_c1	28,43103
24	summer	svr_gam0.0625_eps0.0312_c1	28,43103
24	summer	svr_gam0.00391_eps0.125_c16	29,39919
24	summer	svr_gam0.0625_eps0.125_c64	29,94255
24	summer	svr_gam0.0625_eps2_c64	29,94255
24	summer	svr_gam0.000977_eps0.0312_c256	30,14614
24	summer	svr_gam0.0625_eps0.5_c256	30,59608
24	summer	svr_gam0.0625_eps2_c256	30,59608
24	summer	svr_gam0.0625_eps0.5_c1020	31,02528
24	summer	svr_gam0.0625_eps0.125_c1020	31,02528
24	summer	svr_gam0.00391_eps0.0312_c64	34,29477

24 summer	svr_gam0.00391_eps2_c64	34,29477
24 summer	svr_gam0.000977_eps0.0312_c1020	36,43701
24 summer	svr_gam0.000977_eps0.125_c1020	36,43701
24 summer	svr_gam0.000977_eps0.5_c1020	36,43701
24 summer	svr_gam0.0156_eps2_c256	38,08679
24 summer	svr_gam0.0156_eps0.5_c256	38,08679
24 summer	svr_gam0.0156_eps2_c1020	40,73375
24 summer	svr_gam0.00391_eps0.5_c256	41,7124
24 summer	svr_gam0.00391_eps0.125_c256	41,7124
24 summer	svr_gam0.00391_eps2_c1020	48,4406
	MIN	26,59559
	MAX	48,4406

FUTURE_LAG	SEASON	MODEL	RMSE
24	winter	mlr	16,57797
24	winter	lasso_mlr	16,66655
24	winter	log_mlr	16,70776

FUTURE_LAG	SEASON	MODEL	RMSE
24	summer	mlr	26,56034
24	summer	lasso_mlr	26,30325
24	summer	log_mlr	27,24501

FUTURE_LAG	SEASON	MODEL	RMSE
24	winter	mlr	16,57797
24	winter	lasso_mlr	16,66655
24	winter	log_mlr	16,70776
24	winter	mlp_4_3_th_0.7	16,794252
24	winter	svr_gam0.000977_eps0.25_c0.25	16,0718

FUTURE_LAG	SEASON	MODEL	RMSE
24	summer	mlr	26,56034
24	summer	lasso_mlr	26,30325
24	summer	log_mlr	27,24501

24 summer	Mlp_3_2_th_0.3	26,06297
24 summer	svr_gam0.000244_eps0.5_c16	26,59559

ANNS	ANNS	ANNS	ANNS	ANNS
MAE	MAPE	R2	FUTURE_LAG	SEASON
12,36011	71,89622	0,1413077	24	spring
12,52874	75,34624	0,1436835	24	spring
13,02993	78,10633	0,0840147	24	spring
12,97705	77,38255	0,0768389	24	spring
12,46948	72,74177	0,1351861	24	spring
12,82996	75,78871	0,0953288	24	spring
12,5332	73,03883	0,1015304	24	spring
12,40762	73,11169	0,1297307	24	spring
12,67886	74,09283	0,0918584	24	spring
12,61058	72,44815	0,0748998	24	spring
12,18382	66,61706	0,1036176	24	spring
11,91444	69,08034	0,1511402	24	spring
13,18896	80,32836	0,0428475	24	spring
13,27277	76,43824	0,0333873	24	spring
12,13323	67,63664	0,1277956	24	spring
11,80673	63,23908	0,1281236	24	spring
11,82782	65,41291	0,1396906	24	spring
13,56919	81,3562	-0,0115915	24	spring
14,1964	84,1759	-0,1029041	24	spring
12,00977	65,23953	0,0951451	24	spring

MAE	MAPE	R2	FUTURE_LAG	SEASON
12,673062	75,094622	0,11620618	24	spring
12,612044	73,696042	0,09866962	24	spring
12,538644	72,020128	0,09175764	24	spring
12,681982	71,884724	0,04969274	24	spring

MAE	MAPE	R2	FUTURE_LAG	SEASON
18,42567	73,5652	0,2354291	24	autumn
19,353	79,62994	0,2000453	24	autumn
19,78124	74,37641	0,1565025	24	autumn
18,09358	64,5361	0,2373726	24	autumn
19,0959	73,09706	0,2005201	24	autumn
18,32129	68,78456	0,2374459	24	autumn
19,42592	74,98397	0,1647923	24	autumn
18,91486	74,56565	0,2153369	24	autumn
19,03598	76,44769	0,2113179	24	autumn
18,55222	70,0907	0,2171779	24	autumn
18,69638	75,08769	0,2266173	24	autumn
19,04348	77,93689	0,2204463	24	autumn
20,27206	78,56574	0,13079	24	autumn
17,69172	65,37619	0,2677444	24	autumn
18,74345	72,20313	0,2184609	24	autumn
18,86273	74,07245	0,2305441	24	autumn
19,79448	80,45451	0,170856	24	autumn
18,86091	74,1852	0,2262619	24	autumn
19,5449	83,71202	0,2130713	24	autumn
18,98087	77,27412	0,2006974	24	autumn

MAE	MAPE	R2	FUTURE_LAG	SEASON

19,120024	75,625742	0,20126988		24 autumn
18,929002	72,084814	0,20637728		24 autumn
18,925072	74,23514	0,20704846		24 autumn
19,208778	77,93966	0,20828614		24 autumn

SVRs	SVRs	SVRs	SVRs	SVRs
MAE	MAPE	R2	FUTURE_LAG	SEASON
11,32602	60,0773	0,1908319		24 spring
11,43221	59,82251	0,1577985		24 spring
11,4662	60,5767	0,1481589		24 spring
11,90183	66,67448	0,1186849		24 spring
11,90183	66,67448	0,1186849		24 spring
11,82519	61,65004	0,0979998		24 spring
11,82519	61,65004	0,0979998		24 spring
13,44915	86,15065	0,0511024		24 spring
13,44915	86,15065	0,0511024		24 spring
13,2425	82,36424	0,0450439		24 spring
13,2425	82,36424	0,0450439		24 spring
13,2425	82,36424	0,0450439		24 spring
13,2129	80,93024	0,0403699		24 spring
13,24355	83,24633	0,0394452		24 spring
13,27783	81,27533	0,0371704		24 spring
12,85527	77,04396	-0,0004428		24 spring
12,85527	77,04396	-0,0004428		24 spring
13,48665	85,57655	-0,0175694		24 spring
12,89727	70,35401	-0,0226667		24 spring
12,89727	70,35401	-0,0226667		24 spring
13,557	81,81917	-0,0371894		24 spring
13,557	81,81917	-0,0371894		24 spring
14,64286	98,16549	-0,0821081		24 spring
14,64286	98,16549	-0,0821081		24 spring
14,73841	99,21211	-0,0973946		24 spring
14,73841	99,21211	-0,0973946		24 spring
14,73841	99,21211	-0,0973946		24 spring
14,73841	99,21211	-0,0973946		24 spring
14,9249	101,03123	-0,1113824		24 spring
14,9249	101,03123	-0,1113824		24 spring
14,9249	101,03123	-0,1113824		24 spring
14,92494	101,03152	-0,1113857		24 spring
15,19976	103,84168	-0,1162588		24 spring
15,20086	103,84998	-0,1163304		24 spring
15,20086	103,84998	-0,1163304		24 spring
14,2172	84,79839	-0,2286805		24 spring
14,2172	84,79839	-0,2286805		24 spring
16,10228	101,91175	-0,4438314		24 spring
15,54489	91,60951	-0,5400284		24 spring
15,54489	91,60951	-0,5400284		24 spring
16,99732	107,97788	-0,5433911		24 spring
20,92078	125,27929	-1,2049883		24 spring
20,92078	125,27929	-1,2049883		24 spring
19,18944	119,80125	-1,5183767		24 spring

19,18944	119,80125	-1,5183767		24 spring
24,10583	143,81202	-1,8792191		24 spring
22,92359	140,32866	-2,2577939		24 spring
22,92359	140,32866	-2,2577939		24 spring
22,17696	138,86295	-2,3624204		24 spring
28,66781	159,80315	-4,0817996		24 spring
11,32602	59,82251	-4,0817996		
28,66781	159,80315	0,1577985		

MAE	MAPE	R2	FUTURE_LAG	SEASON
18,56401	58,1611	0,1686913		24 autumn
18,56401	58,1611	0,1686913		24 autumn
18,58304	57,88676	0,1649495		24 autumn
18,58304	57,88676	0,1649495		24 autumn
18,58304	57,88676	0,1649495		24 autumn
18,68792	56,83901	0,1567296		24 autumn
18,68792	56,83901	0,1567296		24 autumn
18,68792	56,83901	0,1567296		24 autumn
18,7611	58,12636	0,1554602		24 autumn
18,7611	58,12636	0,1554602		24 autumn
18,81045	60,03412	0,1551883		24 autumn
18,81045	60,03412	0,1551883		24 autumn
18,84022	60,5433	0,1543404		24 autumn
18,91442	60,85104	0,1515142		24 autumn
19,09057	65,44808	0,143111		24 autumn
18,87424	56,88159	0,1388364		24 autumn
18,87424	56,88159	0,1388364		24 autumn
19,29228	60,67619	0,1264288		24 autumn
19,35658	59,47022	0,1040626		24 autumn
20,64833	87,95482	0,1009615		24 autumn
20,64833	87,95482	0,1009615		24 autumn
19,44801	60,24032	0,0992593		24 autumn
19,44801	60,24032	0,0992593		24 autumn
20,22608	67,8463	0,0872311		24 autumn
19,75543	62,02014	0,0859212		24 autumn
19,75543	62,02014	0,0859212		24 autumn
19,75543	62,02014	0,0859212		24 autumn
19,98525	62,73763	0,0670104		24 autumn
21,55642	94,96588	0,0499892		24 autumn
21,55642	94,96588	0,0499892		24 autumn
21,55642	94,96588	0,0499892		24 autumn
21,84927	76,87387	-0,0158132		24 autumn
22,84607	103,39732	-0,0537092		24 autumn
22,84607	103,39732	-0,0537092		24 autumn
22,55711	80,69251	-0,0680869		24 autumn
23,31644	105,08128	-0,1002078		24 autumn
23,31644	105,08128	-0,1002078		24 autumn
23,71991	106,70973	-0,1312916		24 autumn
23,71991	106,70973	-0,1312916		24 autumn
26,16607	98,665	-0,3822898		24 autumn

26,16607	98,665	-0,3822898		24 autumn
27,1955	103,91585	-0,5603743		24 autumn
27,1955	103,91585	-0,5603743		24 autumn
27,1955	103,91585	-0,5603743		24 autumn
29,26452	115,55593	-0,7048726		24 autumn
29,26452	115,55593	-0,7048726		24 autumn
31,56166	128,44841	-0,950078		24 autumn
32,14918	130,40524	-1,0449074		24 autumn
32,14918	130,40524	-1,0449074		24 autumn
37,17211	150,83594	-1,7577961		24 autumn
18,56401	56,83901	-1,7577961		
37,17211	150,83594	0,1686913		

MAE	MAPE	R2	FUTURE_LAG	SEASON
11,63136	60,92211	0,1390605		24 spring
12,21949	72,48198	0,1298363		24 spring
11,22223	54,91689	0,1255269		24 spring

MAE	MAPE	R2	FUTURE_LAG	SEASON
18,98477	66,7347	0,170893		24 autumn
18,71194	65,03257	0,1868663		24 autumn
18,21777	52,50317	0,1275973		24 autumn

MAE	MAPE	R2	FUTURE_LAG	SEASON
11,63136	60,92211	0,1390605		24 spring
12,21949	72,48198	0,1298363		24 spring
11,22223	54,91689	0,1255269		24 spring
12,673062	75,094622	0,11620618		24 spring
11,32602	60,0773	0,1908319		24 spring

MAE	MAPE	R2	FUTURE_LAG	SEASON
18,98477	66,7347	0,170893		24 autumn
18,71194	65,03257	0,1868663		24 autumn
18,21777	52,50317	0,1275973		24 autumn

19,120024	75,625742	0,20126988		24 autumn
18,56401	58,1611	0,1686913		24 autumn