Same Season

ANNS	ANNS	ANNS	ANNS	ANNS
MODEL	RMSE	MAE	MAPE	R2
mlp1_5_th_0.7	51,81704	35,95272	74,45467	0,4255491
mlp2_5_th_0.7	54,45781	38,22579	79,08407	0,365505
mlp3_5_th_0.7	52,28923	36,03628	76,9836	0,4150319
mlp4_5_th_0.7	53,04699	35,96729	71,95742	0,3979547
mlp5_5_th_0.7	54,60579	36,52503	68,97358	0,3620521
mlp1_5_th_0.5	51,08822	35,6112	73,64572	0,4415949
mlp2_5_th_0.5	55,94808	39,24511	80,08157	0,3303034
mlp3_5_th_0.5	52,24431	36,72629	79,8327	0,4160364
mlp4_5_th_0.5	53,80028	36,20328	70,75157	0,3807346
mlp5_5_th_0.5	53,53712	36,83358	72,46987	0,386778
mlp1_5_th_0.3	51,93373	36,57294	75,40887	0,4229587
mlp2_5_th_0.3	54,12526	38,10198	80,82896	0,3732306
mlp3_5_th_0.3	54,47802	37,71333	82,82057	0,365034
mlp4_5_th_0.3	54,24672	35,97895	68,48551	0,3704145
mlp5_5_th_0.3	54,00967	37,70669	75,51767	0,3759048

Avg Errors	RMSE	MAE	MAPE	R2
Mlp_5_th_0.7	53,243372	36,541422	74,290668	0,39321856
Mlp_5_th_0.5	53,323602	36,923892	75,356286	0,39108946
Mlp_5_th_0.3	53,75868	37,214778	76,612316	0,38150852

MODEL	RMSE	MAE	MAPE	R2
mlp1_4_2_th_0.7	8,774262	6,92975	55,59833	0,1668631
mlp2_4_2_th_0.7	9,031699	7,191657	57,42872	0,1172575
mlp3_4_2_th_0.7	8,790622	6,950486	54,71588	0,1637533
mlp4_4_2_th_0.7	9,219267	6,937778	53,9908	0,0802117
mlp5_4_2_th_0.7	9,59462	7,177213	58,286	0,0037904
mlp1_4_2_th_0.5	9,256149	7,44255	62,21627	0,0728376
mlp2_4_2_th_0.5	8,917005	6,939544	55,03007	0,1395351
mlp3_4_2_th_0.5	9,195058	7,249226	57,7188	0,0850358
mlp4_4_2_th_0.5	8,850636	6,987077	55,10848	0,1522963
mlp5_4_2_th_0.5	8,922787	7,207577	59,07323	0,1384189
mlp1_4_2_th_0.3	8,774649	6,912118	54,87268	0,1667897
mlp2_4_2_th_0.3	9,107704	7,047827	55,38495	0,1023377
mlp3_4_2_th_0.3	10,369279	7,289576	58,36793	-0,1635693
mlp4_4_2_th_0.3	9,266511	6,944579	53,49769	0,0707605
mlp5_4_2_th_0.3	9,284582	7,179162	57,59012	0,0671328

Avg Errors	RMSE	MAE	MAPE	R2

mlp_4_2_th_0.5	9,1626936	7,159122	57,671924	0,09069904
mlp_4_2_th_0.7	9,1784714	7,1399368	57,327534	0,0875701
mlp_4_2_th_0.3	9,360545	7,0746524	55,942674	0,04869028

SVRs SVRs SVRs SVRs SVRs

MODEL	RMSE	MAE	MAPE	R2
svr_gam0.000244_eps0.5_c1	55,1933	36,47917	64,80001	0,3482509
svr_gam0.000244_eps0.5_c16	55,23115	37,11714	66,39636	0,3473567
svr_gam0.000244_eps2_c16	55,23115	37,11714	66,39636	0,3473567
svr_gam0.000977_eps2_c1	55,79613	37,19356	65,51088	0,3339361
svr_gam0.000977_eps0.5_c1	55,79613	37,19356	65,51088	0,3339361
svr_gam0.000977_eps0.0312_c0,25	56,0477	36,87243	64,34767	0,3279162
svr_gam0.000977_eps0.125_c0,25	56,0477	36,87243	64,34767	0,3279162
svr_gam0.000244_eps2_c64	56,17483	38,43026	68,95551	0,324864
svr_gam0.000244_eps0.0312_c64	56,17483	38,43026	68,95551	0,324864
svr_gam0.000244_eps0.5_c64	56,17483	38,43026	68,95551	0,324864
svr_gam0.000244_eps0.125_c0,25	56,80989	37,23962	64,86435	0,3095126
svr_gam0.0156_eps0.0312_c1	57,56788	40,47001	80,38845	0,2909641
svr_gam0.00391_eps0.125_c1	57,62728	39,65937	70,63716	0,2895
svr_gam0.00391_eps2_c1	57,62728	39,65937	70,63716	0,2895
svr_gam0.00391_eps0.0312_c0,25	57,75106	38,24302	64,90035	0,2864447
svr_gam0.00391_eps0.5_c0,25	57,75106	38,24302	64,90035	0,2864447
svr_gam0.00391_eps0.125_c0,25	57,75106	38,24302	64,90035	0,2864447
svr_gam0.000244_eps0.5_c256	57,77828	40,35233	74,35361	0,2857719
svr_gam0.000244_eps0.125_c256	57,77828	40,35233	74,35361	0,2857719
svr_gam0.000977_eps0.5_c16	57,86369	40,2729	73,45721	0,2836586
svr_gam0.00391_eps0.125_c4	57,99261	41,35881	80,22303	0,2804632
svr_gam0.00391_eps0.125_c16	58,575	43,71334	94,31262	0,2659387
svr_gam0.000244_eps0.5_c1020	59,20897	42,38219	83,10462	0,2499629
svr_gam0.000977_eps2_c64	59,28777	42,43868	83,11518	0,2479651
svr_gam0.000977_eps0.0312_c64	59,28777	42,43868	83,11518	0,2479651
svr_gam0.000977_eps0.125_c64	59,28777	42,43868	83,11518	0,2479651
svr_gam0.0156_eps0.0312_c0,25	59,44238	39,84556	71,12684	0,2440377
svr_gam0.000977_eps0.0312_c256	60,60377	44,87008	97,87389	0,2142089
svr_gam0.00391_eps0.0312_c64	61,45569	46,60702	110,45994	0,1919616
svr_gam0.00391_eps2_c64	61,45569	46,60702	110,45994	0,1919616
svr_gam0.000977_eps0.0312_c1020	63,5521	48,81525	116,91075	0,1358929
svr_gam0.000977_eps0.125_c1020	63,5521	48,81525	116,91075	0,1358929
svr_gam0.000977_eps0.5_c1020	63,5521	48,81525	116,91075	0,1358929
svr_gam0.0625_eps0.5_c1020	63,61483	43,82579	92,95783	0,1341863
svr_gam0.0625_eps0.125_c1020	63,61483	43,82579	92,95783	0,1341863
svr_gam0.0625_eps0.5_c256	63,88465	43,81506	92,29367	0,126826
svr_gam0.0625_eps2_c256	63,88465	43,81506	92,29367	0,126826
svr_gam0.0625_eps0.125_c64	64,12727	43,69554	91,33365	0,1201812
svr_gam0.0625_eps2_c64	64,12727	43,69554	91,33365	0,1201812
svr_gam0.0625_eps2_c1	65,83542	44,36732	86,33156	0,0726856
svr_gam0.0625_eps0.5_c1	65,83542	44,36732	86,33156	0,0726856
svr_gam0.0625_eps0.0312_c1	65,83542	44,36732	86,33156	0,0726856
svr_gam0.00391_eps0.5_c256	68,97012	51,92421	125,25685	-0,0177234
svr_gam0.00391_eps0.125_c256	68,97012	51,92421	125,25685	-0,0177234

svr_gam0.0625_eps0.5_c0,25	69,27987	45,52433	79,30887	-0,0268852
svr_gam0.0625_eps2_c0,25	69,27987	45,52433	79,30887	-0,0268852
svr_gam0.0156_eps2_c256	76,1295	53,9	109,57319	-0,2399772
svr_gam0.0156_eps0.5_c256	76,1295	53,9	109,57319	-0,2399772
svr_gam0.00391_eps2_c1020	85,6565	61,51368	145,08951	-0,5697427
svr_gam0.0156_eps2_c1020	86,26543	62,26712	125,31209	-0,5921402

MIN	0	55,1933	36,47917	64,34767
MAX	86,26543	62,26712	145,08951	0,3473567

MODEL	RMSE	MAE	MAPE	R2
svr_gam0.00391_eps0.0312_c0,25	8,855914	6,850398	48,53139	0,1512848
svr_gam0.00391_eps0.125_c0,25	8,855914	6,850398	48,53139	0,1512848
svr_gam0.000977_eps0.125_c1	8,88697	6,857981	47,16355	0,1453218
svr_gam0.000244_eps2_c16	8,949267	6,916149	47,54909	0,1332974
svr_gam0.000244_eps0.0312_c16	8,949267	6,916149	47,54909	0,1332974
svr_gam0.000244_eps0.125_c16	8,949267	6,916149	47,54909	0,1332974
svr_gam0.000977_eps0.125_c4	9,094353	7,090124	50,05041	0,1049677
svr_gam0.000977_eps0.0312_c4	9,094353	7,090124	50,05041	0,1049677
svr_gam0.00391_eps2_c1	9,127936	7,138635	52,87791	0,0983452
svr_gam0.00391_eps0.0312_c1	9,127936	7,138635	52,87791	0,0983452
svr_gam0.000244_eps0.5_c0,25	9,15913	7,054397	48,82013	0,092172
svr_gam0.000244_eps0.5_c64	9,188649	7,177993	50,55698	0,0863108
svr_gam0.000244_eps0.0312_c64	9,188649	7,177993	50,55698	0,0863108
svr_gam0.000244_eps0.0312_c256	9,622223	7,551941	55,0038	-0,0019498
svr_gam0.0156_eps0.125_c0,25	9,638027	7,530376	58,08654	-0,0052439
svr_gam0.0156_eps2_c0,25	9,638027	7,530376	58,08654	-0,0052439
svr_gam0.00391_eps0.125_c4	9,65704	7,580115	58,52213	-0,0092138
svr_gam0.00391_eps0.0312_c4	9,65704	7,580115	58,52213	-0,0092138
svr_gam0.000977_eps2_c64	10,104702	7,829338	59,26446	-0,1049488
svr_gam0.000244_eps0.125_c1020	10,171711	7,88998	58,58501	-0,1196522
svr_gam0.000244_eps0.0312_c1020	10,171711	7,88998	58,58501	-0,1196522
svr_gam0.0156_eps0.0312_c1	11,169156	8,745653	69,03023	-0,3500064
svr_gam0.00391_eps2_c16	11,210687	8,818011	69,98323	-0,3600648
svr_gam0.00391_eps0.5_c16	11,210687	8,818011	69,98323	-0,3600648
svr_gam0.00391_eps0.0312_c16	11,210687	8,818011	69,98323	-0,3600648
svr_gam0.000977_eps0.0312_c256	11,212345	8,532446	66,70487	-0,3604671
svr_gam0.000977_eps0.125_c256	11,212345	8,532446	66,70487	-0,3604671
svr_gam0.0625_eps0.0312_c0,25	11,489148	9,140438	75,25084	-0,4284689
svr_gam0.0625_eps0.125_c1	13,283207	10,502867	87,84304	-0,909418
svr_gam0.0625_eps0.5_c1	13,283207	10,502867	87,84304	-0,909418
svr_gam0.0625_eps0.0312_c1	13,283207	10,502867	87,84304	-0,909418
svr_gam0.000977_eps0.0312_c1020	13,430701	10,126373	82,22797	-0,9520569
svr_gam0.000977_eps2_c1020	13,430701	10,126373	82,22797	-0,9520569
svr_gam0.00391_eps0.125_c64	14,005274	10,851047	87,08857	-1,1226498
svr_gam0.00391_eps0.0312_c64	14,005274	10,851047	87,08857	-1,1226498
svr_gam0.00391_eps2_c64	14,005274	10,851047	87,08857	-1,1226498
svr_gam0.00391_eps0.5_c64	14,005274	10,851047	87,08857	-1,1226498
svr_gam0.0156_eps0.5_c4	14,475059	10,963924	88,17681	-1,2674402
svr_gam0.0156_eps0.125_c4	14,475059	10,963924	88,17681	-1,2674402
svr_gam0.0625_eps0.125_c4	14,884014	11,728304	98,18633	-1,3973712

svr_gam0.0625_eps2_c4	14,884014	11,728304	98,18633	-1,3973712
svr_gam0.0625_eps0.125_c16	15,599009	12,232535	101,59152	-1,6332324
svr_gam0.0625_eps2_c64	16,746164	13,154868	109,10534	-2,0347704
svr_gam0.0625_eps0.125_c64	16,746164	13,154868	109,10534	-2,0347704
svr_gam0.0625_eps0.5_c256	17,115899	13,486336	110,18207	-2,1702576
svr_gam0.0156_eps2_c16	19,430146	14,072418	115,38355	-3,0855196
svr_gam0.00391_eps2_c1020	26,393961	18,185144	148,23149	-6,5388359
svr_gam0.00391_eps0.5_c1020	26,393961	18,185144	148,23149	-6,5388359
svr_gam0.0156_eps0.125_c256	27,56261	20,210517	164,84701	-7,2212117
svr_gam0.0156_eps0.0312_c256	27,56261	20,210517	164,84701	-7,2212117
MIN	8,855914	6,850398	47,16355	-7,2212117
MAX	27,56261	20,210517	164,84701	0,1512848

MODEL	RMSE	MAE	MAPE	R2
mlr	51,67569	36,08082	78,78224	0,4286787
lasso_mlr	52,5014	36,1735	77,59628	0,410275
log_mlr	56,61526	36,2321	62,25317	0,3142359

MODEL	RMSE	MAE	MAPE	R2
mlr	10,673358	8,33359	56,71504	-0,2328133
lasso_mlr	10,012102	7,727151	52,01232	-0,0847901
log_mlr	9,022887	6,875171	47,51588	0,1189791

BEST RESULTS	MIN			MAX
SEASON	RMSE	MAE	MAPE	R2
winter	51,67569	36,08082	62,25317	0,4286787
spring	16,30604	11,20915	53,58503	0,1665921
summer	8,855914	6,850398	47,16355	0,1512848
autumn	25,668264	18,27183	55,62552	0,22906008

BEST MODELS

MODEL	RMSE	MAE	MAPE	R2
mlr	51,67569	36,08082	78,78224	0,4286787
lasso_mlr	52,5014	36,1735	77,59628	0,410275
log_mlr	56,61526	36,2321	62,25317	0,3142359
Mlp_5_th_0.7	53,243372	36,541422	74,290668	0,39321856
svr_gam0.000244_eps0.5_c1	55,1933	36,47917	64,80001	0,3482509

MODEL	RMSE	MAE	MAPE	R2
mlr	10,673358	8,33359	56,71504	-0,2328133
lasso_mlr	10,012102	7,727151	52,01232	-0,0847901
log_mlr	9,022887	6,875171	47,51588	0,1189791

mlp_4_2_th_0.5	9,1626936	7,159122	57,671924	0,09069904
svr_gam0.00391_eps0.0312_c0,25	8,855914	6,850398	48,53139	0,1512848

ANNS	ANNS	ANNS	ANNS
FUTURE_LAG	SEASON	MODEL	RMSE
24	winter	mlp1_6_5th_0.7	16,44341
24	winter	mlp2_6_5th_0.7	17,33658
24	winter	mlp3_6_5th_0.7	16,77573
24	winter	mlp4_6_5th_0.7	16,81822
24	winter	mlp5_6_5th_0.7	16,54013
24	winter	mlp1_6_5th_0.5	18,3755
24	winter	mlp2_6_5th_0.5	16,68163
24	winter	mlp3_6_5th_0.5	16,59328
24	winter	mlp4_6_5th_0.5	16,72315
24	winter	mlp5_6_5th_0.5	16,77161
24	winter	mlp1_6_5_th_0.3	16,40025
24	winter	mlp2_6_5_th_0.3	17,67698
24	winter	mlp3_6_5_th_0.3	17,39483
24	winter	mlp4_6_5_th_0.3	16,89765
24	winter	mlp5_6_5_th_0.3	16,57508

FUTURE_LAG	SEASON	Avg Errors	RMSE
24	winter	mlp_6_5th_0.7	16,782814
24	winter	Mlp_6_5_th_0.3	17,028264
24	winter	mlp_6_5th_0.5	16,633984

FUTURE_LAG	SEASON	MODEL	RMSE
24	summer	mlp1_5_5_th_0.7	25,86396
24	summer	mlp2_5_5_th_0.7	25,72667
24	summer	mlp3_5_5_th_0.7	25,6672
24	summer	mlp4_5_5_th_0.7	25,75143
24	summer	mlp5_5_5_th_0.7	26,00656
24	summer	mlp1_5_5_th_0.5	25,85401
24	summer	mlp2_5_5_th_0.5	25,47061
24	summer	mlp3_5_5_th_0.5	25,96526
24	summer	mlp4_5_5_th_0.5	25,58371
24	summer	mlp5_5_5_th_0.5	25,83995
24	summer	mlp1_5_5_th_0.3	25,36409
24	summer	mlp2_5_5_th_0.3	25,77388
24	summer	mlp3_5_5_th_0.3	26,15856
24	summer	mlp4_5_5_th_0.3	25,20484
24	summer	mlp5_5_5_th_0.3	26,37877

FUTURE_LAG	SEASON	Avg Errors	RMSE

24 summer	mlp_5_5_th_0.5	25,77603
24 summer	mlp_5_5_th_0.3	25,668264
24 summer	mlp_5_5_th_0.7	25,749962

SVRs SVRs SVRs SVRs

FUTURE_LAG	SEASON	MODEL	RMSE
	24 winter	svr_gam0.000977_eps2_c1	16,30604
	24 winter	svr_gam0.000977_eps0.5_c1	16,30604
	24 winter	svr_gam0.000977_eps0.0312_c0,25	16,31351
	24 winter	svr_gam0.000977_eps0.125_c0,25	16,31351
	24 winter	svr_gam0.000244_eps0.5_c16	16,3278
	24 winter	svr_gam0.000244_eps2_c16	16,3278
	24 winter	svr_gam0.000244_eps0.125_c0,25	16,40663
	24 winter	svr_gam0.00391_eps0.0312_c0,25	16,41884
	24 winter	svr_gam0.00391_eps0.5_c0,25	16,41884
	24 winter	svr_gam0.00391_eps0.125_c0,25	16,41884
	24 winter	svr_gam0.000244_eps0.5_c1	16,46201
	24 winter	svr_gam0.000244_eps2_c64	16,4953
	24 winter	svr_gam0.000244_eps0.0312_c64	16,4953
	24 winter	svr_gam0.000244_eps0.5_c64	16,4953
	24 winter	svr_gam0.00391_eps0.125_c1	16,83574
	24 winter	svr_gam0.00391_eps2_c1	16,83574
	24 winter	svr_gam0.0156_eps0.0312_c0,25	16,929
	24 winter	svr_gam0.000977_eps0.5_c16	16,93164
	24 winter	svr_gam0.000244_eps0.5_c256	17,0275
	24 winter	svr_gam0.000244_eps0.125_c256	17,0275
	24 winter	svr_gam0.00391_eps0.125_c4	17,5723
	24 winter	svr_gam0.000244_eps0.5_c1020	17,7121
	24 winter	svr_gam0.000977_eps2_c64	17,78164
	24 winter	svr_gam0.000977_eps0.0312_c64	17,78164
	24 winter	svr_gam0.000977_eps0.125_c64	17,78164
	24 winter	svr_gam0.0625_eps0.5_c0,25	17,80787
	24 winter	svr_gam0.0625_eps2_c0,25	17,80787
	24 winter	svr_gam0.0156_eps0.0312_c1	18,36261
	24 winter	svr_gam0.0625_eps2_c1	18,8973
	24 winter	svr_gam0.0625_eps0.5_c1	18,8973
	24 winter	svr_gam0.0625_eps0.0312_c1	18,8973
	24 winter	svr_gam0.000977_eps0.0312_c256	19,17622
	24 winter	svr_gam0.00391_eps0.125_c16	19,32495
	24 winter	svr_gam0.0625_eps0.125_c64	21,49954
	24 winter	svr_gam0.0625_eps2_c64	21,49954
	24 winter	svr_gam0.000977_eps0.0312_c1020	21,62263
	24 winter	svr_gam0.000977_eps0.125_c1020	21,62263
	24 winter	svr_gam0.000977_eps0.5_c1020	21,62263
	24 winter	svr_gam0.00391_eps0.0312_c64	22,46432
	24 winter	svr_gam0.00391_eps2_c64	22,46432
	24 winter	svr_gam0.0625_eps0.5_c256	22,92174
	24 winter	svr_gam0.0625_eps2_c256	22,92174
	24 winter	svr_gam0.0625_eps0.5_c1020	23,12463
	24 winter	svr_gam0.0625_eps0.125_c1020	23,12463

24 winter	svr_gam0.00391_eps0.5_c256	26,88151
24 winter	svr_gam0.00391_eps0.125_c256	26,88151
24 winter	svr_gam0.0156_eps2_c256	31,92782
24 winter	svr_gam0.0156_eps0.5_c256	31,92782
24 winter	svr_gam0.00391_eps2_c1020	33,69901
24 winter	svr_gam0.0156_eps2_c1020	38,99787
	MIN	16,30604
	MAX	38,99787

FUTURE_LAG	SEASON	MODEL	RMSE
24	summer	svr_gam0.000244_eps0.5_c4	26,42487
24	summer	svr_gam0.000244_eps0.0312_c1	26,44713
24	summer	svr_gam0.000244_eps0.125_c16	26,50209
24	summer	svr_gam0.000244_eps0.5_c16	26,50209
24	summer	svr_gam0.000244_eps0.5_c64	26,52631
24	summer	svr_gam0.000244_eps0.0312_c256	26,57904
24	summer	svr_gam0.000244_eps0.125_c0,25	26,58782
24	summer	svr_gam0.000244_eps0.5_c0,25	26,58782
24	summer	svr_gam0.000977_eps0.5_c4	26,58816
24	summer	svr_gam0.000977_eps0.0312_c1	26,5923
24	summer	svr_gam0.000977_eps2_c16	26,62055
24	summer	svr_gam0.000977_eps0.125_c16	26,62055
24	summer	svr_gam0.000977_eps0.5_c64	26,71509
24	summer	svr_gam0.000244_eps0.5_c1020	26,71696
24	summer	svr_gam0.000244_eps2_c1020	26,71696
24	summer	svr_gam0.000244_eps0.125_c1020	26,71696
24	summer	svr_gam0.00391_eps2_c0,25	26,74784
24	summer	svr_gam0.00391_eps0.5_c1	26,75853
24	summer	svr_gam0.00391_eps2_c4	26,89198
24	summer	svr_gam0.00391_eps0.125_c4	26,89198
24	summer	svr_gam0.000977_eps2_c256	27,07727
24	summer	svr_gam0.0156_eps0.0312_c0,25	27,10499
24	summer	svr_gam0.0156_eps0.125_c1	27,44263
24	summer	svr_gam0.0625_eps0.125_c0,25	27,55932
24	summer	svr_gam0.0625_eps0.5_c0,25	27,55932
24	summer	svr_gam0.000977_eps0.125_c1020	27,91161
24	summer	svr_gam0.000977_eps0.5_c1020	27,91161
24	summer	svr_gam0.0156_eps0.0312_c4	28,10165
24	summer	svr_gam0.0156_eps0.5_c4	28,10165
24	summer	svr_gam0.0625_eps0.5_c1	28,31975
24	summer	svr_gam0.0625_eps0.125_c1	28,31975
24	summer	svr_gam0.0625_eps0.5_c4	29,19032
24	summer	svr_gam0.0625_eps0.0312_c4	29,19032
24	summer	svr_gam0.0625_eps2_c4	29,19032
24	summer	svr_gam0.0156_eps0.125_c16	29,47358
24	summer	svr_gam0.0156_eps0.0312_c16	29,47358
24	summer	svr_gam0.0156_eps0.5_c16	29,47358
24	summer	svr_gam0.0625_eps2_c16	29,56185
24	summer	svr_gam0.00391_eps0.125_c256	30,16214
24	summer	svr_gam0.0625_eps2_c64	30,34694

24 summer	svr_gam0.0625_eps2_c256	30,78423
24 summer	svr_gam0.0625_eps0.125_c256	30,78423
24 summer	svr_gam0.0625_eps0.125_c1020	31,43876
24 summer	svr_gam0.0156_eps0.125_c256	32,55336
24 summer	svr_gam0.0156_eps0.0312_c256	32,55336
24 summer	svr_gam0.00391_eps0.5_c1020	32,67942
24 summer	svr_gam0.0156_eps2_c1020	35,56255
24 summer	svr_gam0.0156_eps0.5_c1020	35,56255
24 summer	svr_gam0.0156_eps0.125_c1020	35,56255
24 summer	svr_gam0.0156_eps0.0312_c1020	35,56255
	MIN	26,42487
	MAX	35,56255

FUTURE_LAG	SEASON	MODEL	RMSE
24	winter	mlr	17,93692
24	winter	lasso_mlr	17,30321
24	winter	log_mlr	16,75728

FUTURE_LAG	SEASON	MODEL	RMSE
24	summer	mlr	25,96415
24	summer	lasso_mlr	26,16661
24	summer	log_mlr	27,35247

FUTURE_LAG	SEASON	MODEL	RMSE
24	winter	mlr	17,93692
24	winter	lasso_mlr	17,30321
24	winter	log_mlr	16,75728
24	winter	mlp_6_5th_0.7	16,782814
24	winter	svr_gam0.000977_eps2_c1	16,30604

FUTURE_LAG	SEASON	MODEL	RMSE
24	summer	mlr	25,96415
24	summer	lasso_mlr	26,16661
24	summer	log_mlr	27,35247

24 summer	mlp_5_5_th_0.5	25,77603
24 summer	svr_gam0.000244_eps0.5_c4	26,42487

ANNS	ANNS	ANNS	ANNS	ANNS
MAE	MAPE	R2	FUTURE_LAG	SEASON
11,9376	68,1682	0,1524916	24	spring
12,43633	68,43353	0,0579207	24	spring
12,16446	69,38077	0,1178892	24	spring
12,24039	71,35487	0,1134151	24	spring
12,07368	67,50397	0,1424924	24	spring
12,7224	71,30851	-0,0583729	24	spring
12,21527	67,83693	0,127757	24	spring
12,23792	70,54383	0,1369724	24	spring
12,13268	68,0428	0,12341	24	spring
12,1172	66,49211	0,1183226	24	spring
11,73154	65,03681	0,1569346	24	spring
12,46065	69,14901	0,0205627	24	spring
12,53341	70,47983	0,0515799	24	spring
12,14711	69,37622	0,1050211	24	spring
12,07743	67,14487	0,1388643	24	spring

MAE	MAPE	R2	FUTURE_LAG	SEASON
12,170492	68,968268	0,1168418	24	spring
12,197982	68,106796	0,09048418	24	spring
12,086922	67,590496	0,13267932	24	spring

MAE	MAPE	R2	FUTURE_LAG	SEASON
19,09479	73,21007	0,2173997	24	autumn
18,90883	72,83411	0,2256861	24	autumn
18,95679	73,24159	0,2292619	24	autumn
18,74295	70,11673	0,2241949	24	autumn
18,93764	67,69965	0,2087462	24	autumn
19,02204	72,1631	0,2180017	24	autumn
18,63273	71,10706	0,241023	24	autumn
18,74705	69,93516	0,2112572	24	autumn
18,60341	67,52064	0,2342674	24	autumn
18,7765	71,94208	0,2188519	24	autumn
18,62581	70,54928	0,2473578	24	autumn
18,9621	72,72543	0,2228414	24	autumn
19,47159	75,64054	0,1994701	24	autumn
18,32798	68,36366	0,2567792	24	autumn
19,10681	66,9863	0,1859349	24	autumn

MAE	MAPE	R2	FUTURE_LAG	SEASON

18,788574	69,685122	0,2226591		24 autumn
18,832796	71,844198	0,22906008		24 autumn
18,85843	70,865626	0,22424554		24 autumn

SVRs	SVRs	SVRs	SVRs	SVRs

MAE	MAPE	R2	FUTURE_LAG	SEASON
11,20915	55,84089	0,1665921		24 spring
11,20915	55,84089	0,1665921		24 spring
11,2905	55,25157	0,1658288		24 spring
11,2905	55,25157	0,1658288		24 spring
11,23535	56,02759	0,1643666		24 spring
11,23535	56,02759	0,1643666		24 spring
11,47647	56,73852	0,1562789		24 spring
11,33109	58,38676	0,1550227		24 spring
11,33109	58,38676	0,1550227		24 spring
11,33109	58,38676	0,1550227		24 spring
11,42187	55,56407	0,1505724		24 spring
11,50534	60,27125	0,1471343		24 spring
11,50534	60,27125	0,1471343		24 spring
11,50534	60,27125	0,1471343		24 spring
11,72299	62,17154	0,1115666		24 spring
11,72299	62,17154	0,1115666		24 spring
11,62794	61,98959	0,1016972		24 spring
11,99688	64,93632	0,1014165		24 spring
12,21252	66,99283	0,0912125		24 spring
12,21252	66,99283	0,0912125		24 spring
12,14425	63,97718	0,0321284		24 spring
12,82678	71,10608	0,0166678		24 spring
12,60818	68,08206	0,0089312		24 spring
12,60818	68,08206	0,0089312		24 spring
12,60818	68,08206	0,0089312		24 spring
13,17925	80,5414	0,0060052		24 spring
13,17925	80,5414	0,0060052		24 spring
12,62215	66,45308	-0,0568891		24 spring
14,10412	86,31659	-0,1193343		24 spring
14,10412	86,31659	-0,1193343		24 spring
14,10412	86,31659	-0,1193343		24 spring
13,39765	71,49961	-0,1526205		24 spring
13,28719	69,67594	-0,1705697		24 spring
16,67785	100,41461	-0,4488344		24 spring
16,67785	100,41461	-0,4488344		24 spring
15,10056	80,70635	-0,4654716		24 spring
15,10056	80,70635	-0,4654716		24 spring
15,10056	80,70635	-0,4654716		24 spring
15,60005	82,49815	-0,5817837		24 spring
15,60005	82,49815	-0,5817837		24 spring
17,61641	104,88763	-0,6468555		24 spring
17,61641	104,88763	-0,6468555		24 spring
17,66842	104,80678	-0,6761393		24 spring
17,66842	104,80678	-0,6761393		24 spring

19,12983	98,24459	-1,2649967		24 spring
19,12983	98,24459	-1,2649967		24 spring
24,79586	136,96995	-2,1952062		24 spring
24,79586	136,96995	-2,1952062		24 spring
24,29969	122,97056	-2,5595466		24 spring
30,22752	167,55179	-3,766966		24 spring
11,20915	55,25157	-3,766966		
30,22752	167,55179	0,1665921		

MAE	MAPE	R2	FUTURE_LAG	SEASON
18,54455	62,90965	0,183087		24 autumn
18,66044	64,45697	0,1817103		24 autumn
18,4642	60,69358	0,1783055		24 autumn
18,4642	60,69358	0,1783055		24 autumn
18,35023	58,56947	0,1768034		24 autumn
18,27183	57,05364	0,1735273		24 autumn
18,86816	66,12619	0,1729808		24 autumn
18,86816	66,12619	0,1729808		24 autumn
18,38186	58,31854	0,1729598		24 autumn
18,50845	60,406	0,1727025		24 autumn
18,3075	57,08438	0,1709439		24 autumn
18,3075	57,08438	0,1709439		24 autumn
18,46165	57,14192	0,1650446		24 autumn
18,47307	57,25537	0,164928		24 autumn
18,47307	57,25537	0,164928		24 autumn
18,47307	57,25537	0,164928		24 autumn
18,47743	58,48234	0,1629961		24 autumn
18,39135	57,1744	0,1623268		24 autumn
18,5163	57,32843	0,1539507		24 autumn
18,5163	57,32843	0,1539507		24 autumn
18,77992	58,85863	0,1422517		24 autumn
18,65094	56,85093	0,1404949		24 autumn
18,93707	56,60193	0,1189482		24 autumn
19,27709	63,49484	0,1114398		24 autumn
19,27709	63,49484	0,1114398		24 autumn
19,43423	61,83612	0,0885773		24 autumn
19,43423	61,83612	0,0885773		24 autumn
19,73625	60,61693	0,0761242		24 autumn
19,73625	60,61693	0,0761242		24 autumn
20,29135	69,95316	0,0617279		24 autumn
20,29135	69,95316	0,0617279		24 autumn
21,24562	76,19358	0,0031551		24 autumn
21,24562	76,19358	0,0031551		24 autumn
21,24562	76,19358	0,0031551		24 autumn
21,38012	71,23121	-0,0162854		24 autumn
21,38012	71,23121	-0,0162854		24 autumn
21,38012	71,23121	-0,0162854		24 autumn
21,84611	78,72198	-0,0223822		24 autumn
21,49298	69,58104	-0,0643249		24 autumn
22,51966	79,95153	-0,0774074		24 autumn

22,6933	80,1057	-0,1086812		24 autumn
22,6933	80,1057	-0,1086812		24 autumn
23,18967	82,17316	-0,1563275		24 autumn
25,10531	90,32229	-0,2397711		24 autumn
25,10531	90,32229	-0,2397711		24 autumn
23,78737	81,80705	-0,2493915		24 autumn
27,62698	99,63662	-0,4795706		24 autumn
27,62698	99,63662	-0,4795706		24 autumn
27,62698	99,63662	-0,4795706		24 autumn
27,62698	99,63662	-0,4795706		24 autumn
18,27183	56,60193	-0,4795706		
27,62698	99,63662	0,1817103		

MAE	MAPE	R2	FUTURE_LAG	SEASON
13,25281	68,97246	-0,0084542		24 spring
12,66163	67,26883	0,0615448		24 spring
11,38535	53,58503	0,1198285		24 spring

MAE	MAPE	R2	FUTURE_LAG	SEASON
19,03153	73,94016	0,2113251		24 autumn
18,98934	73,3761	0,198977		24 autumn
18,76111	55,62552	0,1247277		24 autumn

MAE	MAPE	R2	FUTURE_LAG	SEASON
13,25281	68,97246	-0,0084542		24 spring
12,66163	67,26883	0,0615448		24 spring
11,38535	53,58503	0,1198285		24 spring
12,170492	68,968268	0,1168418		24 spring
11,20915	55,84089	0,1665921		24 spring

MAE	MAPE	R2	FUTURE_LAG	SEASON
19,03153	73,94016	0,2113251		24 autumn
18,98934	73,3761	0,198977		24 autumn
18,76111	55,62552	0,1247277		24 autumn

18,788574	69,685122	0,2226591		24 autumn
18,54455	62,90965	0,183087		24 autumn