

**LAMPIRAN 1**

**DATA JUMLAH PENUMPANG KERETA**  
**API RUTE BANDUNG – SURABAYA**

Lampiran 1 Data Jumlah Penumpang Kereta Api Rute Bandung - Surabaya L1-1

Data Jumlah Penumpang KA Argo Wilis Rute Bandung - Surabaya Tahun 2010								
Bulan	Hari	Senin	Selasa	Rabu	Kamis	Jumat	Sabtu	Minggu
Januari	Minggu ke-1					221	233	233
	Minggu ke-2	235	231	234	224	249	247	245
	Minggu ke-3	158	160	174	197	174	223	227
	Minggu ke-4	169	194	158	180	167	240	241
	Minggu ke-5	152	179	198	185	182	237	224
Februari	Minggu ke-6	173	170	195	181	164	244	240
	Minggu ke-7	233	179	152	171	177	223	226
	Minggu ke-8	168	176	169	152	198	229	227
	Minggu ke-9	181	196	175	156	227	230	241
Maret	Minggu ke-10	169	152	160	198	172	241	226
	Minggu ke-11	176	196	162	181	157	224	225
	Minggu ke-12	195	243	170	182	168	221	235
	Minggu ke-13	186	170	199	169	177	225	239
	Minggu ke-14	168	197	172	192	241	221	229
April	Minggu ke-15	159	187	195	177	201	245	236
	Minggu ke-16	165	160	201	186	176	241	244
	Minggu ke-17	163	188	202	188	171	234	240
	Minggu ke-18	190	187	179	172	161	239	222
Mei	Minggu ke-19	160	172	194	170	172	234	235
	Minggu ke-20	201	184	173	244	184	244	244
	Minggu ke-21	178	196	176	185	198	236	220
	Minggu ke-22	180	162	177	199	232	227	245
	Minggu ke-23	160	191	192	182	170	244	225
Juni	Minggu ke-24	173	179	178	197	157	243	245
	Minggu ke-25	188	196	171	189	195	220	224
	Minggu ke-26	190	204	177	179	183	220	241
	Minggu ke-27	244	243	249	249	228	243	227
Juli	Minggu ke-28	242	249	247	236	234	224	226
	Minggu ke-29	185	185	188	179	203	235	244
	Minggu ke-30	177	205	204	173	159	222	229
	Minggu ke-31	158	190	158	196	202	236	226
Agustus	Minggu ke-32	199	164	202	194	167	230	232
	Minggu ke-33	183	184	200	168	174	242	237
	Minggu ke-34	163	226	161	197	183	231	231
	Minggu ke-35	169	202	165	202	179	241	224
	Minggu ke-36	192	195	177	199	189	237	240
September	Minggu ke-37	250	226	245	229	232	238	247
	Minggu ke-38	233	246	238	240	233	225	241
	Minggu ke-39	163	184	169	159	200	220	234
	Minggu ke-40	172	181	177	161	204	240	236
Oktober	Minggu ke-41	202	161	201	200	174	234	235
	Minggu ke-42	205	188	198	203	201	231	235
	Minggu ke-43	162	182	185	205	181	223	245
	Minggu ke-44	207	189	191	183	204	227	229
November	Minggu ke-45	180	169	206	172	179	220	220
	Minggu ke-46	175	185	171	174	193	220	244
	Minggu ke-47	208	161	245	187	185	239	244
	Minggu ke-48	181	179	197	192	196	224	229
Desember	Minggu ke-49	196	167	188	162	171	231	220
	Minggu ke-50	182	168	208	205	171	237	235
	Minggu ke-51	186	184	189	208	205	245	233
	Minggu ke-52	190	177	198	210	229	224	245
	Minggu ke-53	237	234	236	242	236		

Lampiran 1 Data Jumlah Penumpang Kereta Api Rute Bandung - Surabaya L1-2

Data Jumlah Penumpang KA Argo Wilis Rute Surabaya - Bandung Tahun 2010								
Bulan	Hari	Senin	Selasa	Rabu	Kamis	Jumat	Sabtu	Minggu
Januari	Minggu ke-1					249	241	225
	Minggu ke-2	248	228	240	236	247	241	222
	Minggu ke-3	153	179	200	172	177	236	220
	Minggu ke-4	160	183	151	168	150	221	233
	Minggu ke-5	190	152	164	150	177	237	238
Februari	Minggu ke-6	200	190	181	171	168	239	225
	Minggu ke-7	228	184	197	200	183	236	227
	Minggu ke-8	189	187	189	159	160	232	235
	Minggu ke-9	169	181	196	190	241	246	249
Maret	Minggu ke-10	171	152	169	185	196	228	231
	Minggu ke-11	177	166	152	164	171	229	237
	Minggu ke-12	160	233	182	163	160	235	229
	Minggu ke-13	160	187	198	184	199	221	231
	Minggu ke-14	193	184	191	202	230	221	243
April	Minggu ke-15	164	168	183	196	178	221	244
	Minggu ke-16	178	196	169	175	194	229	229
	Minggu ke-17	187	157	154	166	158	235	226
	Minggu ke-18	152	163	186	200	166	225	227
Mei	Minggu ke-19	168	199	157	187	172	228	240
	Minggu ke-20	202	203	189	229	199	232	222
	Minggu ke-21	187	173	198	158	203	240	227
	Minggu ke-22	155	162	167	161	231	232	240
	Minggu ke-23	188	159	191	199	169	227	237
Juni	Minggu ke-24	154	189	196	184	169	230	233
	Minggu ke-25	160	177	176	184	157	244	223
	Minggu ke-26	189	189	155	187	204	222	244
	Minggu ke-27	250	231	242	225	229	244	240
Juli	Minggu ke-28	220	224	244	240	226	238	236
	Minggu ke-29	178	206	190	157	178	241	237
	Minggu ke-30	180	158	157	161	191	239	225
	Minggu ke-31	156	199	165	172	162	225	224
Agustus	Minggu ke-32	195	191	168	202	203	239	231
	Minggu ke-33	185	184	193	165	206	234	243
	Minggu ke-34	157	240	186	162	199	226	235
	Minggu ke-35	185	180	188	199	161	244	240
	Minggu ke-36	166	166	180	180	196	224	247
September	Minggu ke-37	236	249	221	243	225	244	248
	Minggu ke-38	231	224	242	227	229	246	244
	Minggu ke-39	203	197	165	182	179	234	242
	Minggu ke-40	172	187	188	203	159	226	245
Oktober	Minggu ke-41	182	186	191	163	185	224	233
	Minggu ke-42	206	193	169	162	183	237	220
	Minggu ke-43	204	203	190	181	167	220	226
	Minggu ke-44	176	179	207	161	178	237	237
November	Minggu ke-45	207	207	201	179	162	232	223
	Minggu ke-46	200	192	192	179	165	237	223
	Minggu ke-47	161	189	233	161	199	226	245
	Minggu ke-48	174	195	162	177	182	245	245
Desember	Minggu ke-49	161	168	194	206	206	245	243
	Minggu ke-50	166	184	179	164	167	236	231
	Minggu ke-51	198	176	160	184	185	221	244
	Minggu ke-52	195	162	161	204	226	243	248
	Minggu ke-53	223	225	226	230	246		

Lampiran 1 Data Jumlah Penumpang Kereta Api Rute Bandung - Surabaya L1-3

Data Jumlah Penumpang KA Turangga Rute Bandung - Surabaya Tahun 2010								
Bulan	Hari	Senin	Selasa	Rabu	Kamis	Jumat	Sabtu	Minggu
Januari	Minggu ke-1					430	434	427
	Minggu ke-2	420	416	426	414	416	403	416
	Minggu ke-3	346	359	337	361	384	384	397
	Minggu ke-4	351	337	338	323	385	421	391
	Minggu ke-5	357	330	364	359	373	381	418
Februari	Minggu ke-6	335	337	343	360	384	390	378
	Minggu ke-7	345	363	339	348	387	383	375
	Minggu ke-8	348	356	367	337	393	391	393
	Minggu ke-9	329	326	350	327	432	402	426
Maret	Minggu ke-10	359	345	344	372	386	390	384
	Minggu ke-11	370	340	366	359	384	402	397
	Minggu ke-12	331	374	365	349	391	396	392
	Minggu ke-13	325	343	354	360	396	391	397
	Minggu ke-14	364	358	334	359	429	420	409
April	Minggu ke-15	341	328	338	325	376	384	397
	Minggu ke-16	338	345	344	359	395	383	378
	Minggu ke-17	349	356	371	343	374	401	396
	Minggu ke-18	363	341	370	331	388	405	400
Mei	Minggu ke-19	339	347	347	332	400	383	394
	Minggu ke-20	351	339	327	394	397	392	381
	Minggu ke-21	356	345	337	350	385	394	387
	Minggu ke-22	333	327	338	345	412	412	400
	Minggu ke-23	337	337	330	336	388	386	401
Juni	Minggu ke-24	352	356	342	345	376	377	377
	Minggu ke-25	331	338	346	361	391	393	400
	Minggu ke-26	340	350	339	349	392	406	392
	Minggu ke-27	406	429	440	415	433	417	436
Juli	Minggu ke-28	440	436	438	424	419	436	414
	Minggu ke-29	354	329	331	357	403	394	401
	Minggu ke-30	347	346	340	331	397	381	395
	Minggu ke-31	344	329	347	331	388	388	400
Agustus	Minggu ke-32	346	355	331	356	400	404	388
	Minggu ke-33	339	334	358	354	379	381	392
	Minggu ke-34	347	384	340	333	408	403	388
	Minggu ke-35	330	340	328	346	404	403	399
	Minggu ke-36	330	346	348	353	399	398	390
September	Minggu ke-37	440	411	427	407	404	431	413
	Minggu ke-38	436	412	412	416	439	438	427
	Minggu ke-39	330	348	352	358	393	395	382
	Minggu ke-40	330	333	350	342	406	383	391
Oktober	Minggu ke-41	343	350	346	342	407	405	397
	Minggu ke-42	355	345	333	333	383	394	394
	Minggu ke-43	360	340	332	342	380	383	388
	Minggu ke-44	332	346	337	356	408	390	392
November	Minggu ke-45	350	335	352	338	411	394	392
	Minggu ke-46	359	345	348	334	402	374	386
	Minggu ke-47	338	355	404	356	390	392	399
	Minggu ke-48	334	356	339	339	390	399	412
Desember	Minggu ke-49	345	337	359	334	402	401	401
	Minggu ke-50	361	351	350	362	387	407	392
	Minggu ke-51	340	348	334	341	407	395	400
	Minggu ke-52	344	335	344	362	428	418	425
	Minggu ke-53	406	407	405	432	422		

Lampiran 1 Data Jumlah Penumpang Kereta Api Rute Bandung - Surabaya L1-4

Data Jumlah Penumpang KA Turangga Rute Surabaya - Bandung Tahun 2010								
Bulan	Hari	Senin	Selasa	Rabu	Kamis	Jumat	Sabtu	Minggu
Januari	Minggu ke-1					439	406	423
	Minggu ke-2	431	411	438	416	434	431	406
	Minggu ke-3	342	330	358	329	399	396	390
	Minggu ke-4	336	367	322	357	381	379	389
	Minggu ke-5	356	370	365	351	391	387	372
Februari	Minggu ke-6	356	354	338	362	382	382	381
	Minggu ke-7	367	341	355	353	396	400	394
	Minggu ke-8	350	338	359	357	384	380	378
	Minggu ke-9	366	354	325	341	416	431	409
Maret	Minggu ke-10	347	339	326	360	382	389	381
	Minggu ke-11	358	345	367	358	380	402	374
	Minggu ke-12	264	404	359	366	402	404	384
	Minggu ke-13	359	371	357	326	401	380	404
	Minggu ke-14	343	357	374	347	421	427	423
April	Minggu ke-15	368	355	335	359	393	399	403
	Minggu ke-16	337	365	357	363	376	390	396
	Minggu ke-17	371	342	364	358	386	402	391
	Minggu ke-18	345	330	330	344	383	384	393
Mei	Minggu ke-19	341	326	326	342	394	387	401
	Minggu ke-20	346	335	347	391	402	394	388
	Minggu ke-21	350	326	352	328	401	387	406
	Minggu ke-22	329	353	354	338	403	400	412
	Minggu ke-23	342	331	332	341	406	404	386
Juni	Minggu ke-24	344	350	340	349	392	395	381
	Minggu ke-25	330	350	351	343	405	383	389
	Minggu ke-26	333	341	330	339	394	398	406
	Minggu ke-27	429	414	410	431	405	417	406
Juli	Minggu ke-28	413	416	432	401	414	423	401
	Minggu ke-29	357	345	341	331	404	388	379
	Minggu ke-30	356	355	335	348	393	383	395
	Minggu ke-31	343	350	344	339	403	407	386
Agustus	Minggu ke-32	351	345	344	353	384	400	402
	Minggu ke-33	335	337	340	353	379	391	396
	Minggu ke-34	358	382	358	341	400	381	384
	Minggu ke-35	346	333	349	339	397	392	389
	Minggu ke-36	356	347	344	349	399	387	402
September	Minggu ke-37	413	429	418	408	438	429	424
	Minggu ke-38	439	402	434	433	416	400	428
	Minggu ke-39	356	345	352	338	403	408	390
	Minggu ke-40	344	342	344	334	402	383	406
Oktober	Minggu ke-41	351	332	337	353	386	397	395
	Minggu ke-42	358	359	330	335	381	386	394
	Minggu ke-43	353	347	344	351	400	397	394
	Minggu ke-44	335	339	341	358	398	393	390
November	Minggu ke-45	344	358	354	361	406	407	414
	Minggu ke-46	364	355	339	350	408	387	391
	Minggu ke-47	346	350	402	364	387	399	392
	Minggu ke-48	341	342	339	337	384	393	405
Desember	Minggu ke-49	358	349	350	351	409	388	414
	Minggu ke-50	346	362	349	362	398	392	395
	Minggu ke-51	352	343	361	352	392	395	399
	Minggu ke-52	353	336	357	336	408	431	420
	Minggu ke-53	406	429	408	417	429		

Lampiran 1 Data Jumlah Penumpang Kereta Api Rute Bandung - Surabaya L1-5

Data Jumlah Penumpang KA Mutiara Selatan Rute Bandung - Surabaya Tahun 2010								
Bulan	Hari	Senin	Selasa	Rabu	Kamis	Jumat	Sabtu	Minggu
Januari	Minggu ke-1					528	537	547
	Minggu ke-2	534	534	543	550	538	536	535
	Minggu ke-3	445	461	469	458	527	521	524
	Minggu ke-4	465	447	460	450	516	530	532
	Minggu ke-5	448	457	452	456	516	517	510
Februari	Minggu ke-6	468	446	472	467	519	530	535
	Minggu ke-7	470	465	459	467	529	516	519
	Minggu ke-8	459	458	450	467	532	540	530
	Minggu ke-9	461	459	458	460	546	532	543
Maret	Minggu ke-10	457	468	462	446	534	513	520
	Minggu ke-11	455	447	464	464	512	521	523
	Minggu ke-12	454	535	450	453	516	527	536
	Minggu ke-13	448	462	449	450	514	512	524
	Minggu ke-14	470	460	453	463	533	549	542
April	Minggu ke-15	465	467	446	449	516	518	514
	Minggu ke-16	455	467	455	464	533	518	512
	Minggu ke-17	460	470	457	465	525	538	524
	Minggu ke-18	453	457	466	446	522	521	514
Mei	Minggu ke-19	465	459	467	470	528	526	523
	Minggu ke-20	463	467	461	512	449	539	526
	Minggu ke-21	465	454	458	457	541	518	524
	Minggu ke-22	461	451	467	465	530	539	537
	Minggu ke-23	451	467	460	456	522	534	517
Juni	Minggu ke-24	463	461	460	451	546	510	519
	Minggu ke-25	462	468	469	445	523	522	517
	Minggu ke-26	467	449	468	469	529	531	543
	Minggu ke-27	548	546	542	543	533	534	544
Juli	Minggu ke-28	525	537	535	540	538	532	546
	Minggu ke-29	461	464	463	465	543	539	537
	Minggu ke-30	449	456	470	456	528	529	529
	Minggu ke-31	460	455	465	453	535	535	521
Agustus	Minggu ke-32	453	445	470	465	535	529	525
	Minggu ke-33	466	456	449	456	522	541	533
	Minggu ke-34	446	537	470	463	543	543	523
	Minggu ke-35	447	459	465	453	538	528	542
	Minggu ke-36	461	449	470	466	528	540	521
September	Minggu ke-37	538	541	544	537	550	550	538
	Minggu ke-38	543	545	535	526	525	539	539
	Minggu ke-39	452	467	464	450	544	513	532
	Minggu ke-40	452	453	454	466	513	524	521
Oktober	Minggu ke-41	446	449	470	448	524	541	526
	Minggu ke-42	458	445	450	467	531	528	534
	Minggu ke-43	445	470	452	454	527	522	520
	Minggu ke-44	469	466	452	452	537	539	517
November	Minggu ke-45	465	470	466	468	536	538	531
	Minggu ke-46	453	458	453	462	543	527	516
	Minggu ke-47	461	459	525	456	330	527	510
	Minggu ke-48	455	460	457	459	531	522	524
Desember	Minggu ke-49	460	463	468	462	529	532	515
	Minggu ke-50	448	448	454	462	535	532	531
	Minggu ke-51	446	467	449	460	521	524	529
	Minggu ke-52	463	464	447	467	538	533	537
	Minggu ke-53	547	545	540	530	538		

Data Jumlah Penumpang KA Mutiara Selatan Rute Surabaya - Bandung Tahun 2010								
Bulan	Hari	Senin	Selasa	Rabu	Kamis	Jumat	Sabtu	Minggu
Januari	Minggu ke-1					530	549	530
	Minggu ke-2	539	527	539	534	544	545	549
	Minggu ke-3	445	454	449	469	526	522	528
	Minggu ke-4	468	448	462	445	536	531	524
	Minggu ke-5	467	462	457	451	534	536	523
Februari	Minggu ke-6	448	466	447	460	538	531	522
	Minggu ke-7	459	468	469	451	520	525	539
	Minggu ke-8	461	465	468	462	534	537	533
	Minggu ke-9	454	459	463	453	532	526	525
Maret	Minggu ke-10	448	460	446	466	542	525	537
	Minggu ke-11	451	468	469	461	525	520	521
	Minggu ke-12	460	535	464	452	515	512	542
	Minggu ke-13	465	448	448	451	513	529	516
	Minggu ke-14	469	459	452	452	536	547	529
April	Minggu ke-15	449	453	447	445	536	534	516
	Minggu ke-16	448	460	463	453	518	512	531
	Minggu ke-17	464	467	465	452	542	516	532
	Minggu ke-18	445	460	466	461	520	537	528
Mei	Minggu ke-19	461	472	463	448	541	516	542
	Minggu ke-20	452	459	445	542	462	539	520
	Minggu ke-21	449	458	459	468	537	521	529
	Minggu ke-22	455	463	465	470	548	530	538
	Minggu ke-23	467	465	451	468	516	511	523
Juni	Minggu ke-24	454	457	468	455	538	530	546
	Minggu ke-25	458	450	468	468	536	535	540
	Minggu ke-26	446	450	458	468	527	524	520
	Minggu ke-27	544	547	550	547	527	546	531
Juli	Minggu ke-28	538	540	545	547	532	538	532
	Minggu ke-29	470	447	447	447	524	537	527
	Minggu ke-30	448	468	457	462	544	524	533
	Minggu ke-31	458	450	453	446	536	529	526
Agustus	Minggu ke-32	469	445	467	468	524	539	522
	Minggu ke-33	468	459	448	455	531	521	516
	Minggu ke-34	462	541	470	467	538	514	528
	Minggu ke-35	467	445	464	453	545	531	530
	Minggu ke-36	456	459	464	448	542	529	530
September	Minggu ke-37	529	533	548	542	525	541	537
	Minggu ke-38	548	534	526	527	540	534	537
	Minggu ke-39	469	460	448	462	545	536	527
	Minggu ke-40	448	447	460	449	522	539	531
Oktober	Minggu ke-41	456	446	459	446	543	528	513
	Minggu ke-42	455	446	448	447	527	523	520
	Minggu ke-43	460	449	456	453	535	533	525
	Minggu ke-44	450	463	469	470	543	534	526
November	Minggu ke-45	460	446	468	459	528	527	525
	Minggu ke-46	459	469	463	445	524	535	528
	Minggu ke-47	455	467	531	449	541	521	510
	Minggu ke-48	448	460	464	460	531	524	534
Desember	Minggu ke-49	450	449	448	458	535	516	530
	Minggu ke-50	452	454	462	454	527	527	524
	Minggu ke-51	463	453	458	454	526	533	521
	Minggu ke-52	465	461	462	468	547	525	538
	Minggu ke-53	532	533	536	550	540		

Lampiran 1 Data Jumlah Penumpang Kereta Api Rute Bandung - Surabaya L1-7

Data Jumlah Penumpang KA Pasundan Rute Bandung - Surabaya Tahun 2010								
Bulan	Hari	Senin	Selasa	Rabu	Kamis	Jumat	Sabtu	Minggu
Januari	Minggu ke-1					1250	1239	1254
	Minggu ke-2	1224	1231	1224	1234	1240	1253	1245
	Minggu ke-3	1056	1032	1042	1058	1050	1206	1200
	Minggu ke-4	1067	1050	1056	1031	1051	1219	1216
	Minggu ke-5	1058	1040	1062	1059	1031	1227	1214
Februari	Minggu ke-6	1053	1063	1057	1046	1044	1203	1223
	Minggu ke-7	1037	1065	1044	1060	1048	1216	1207
	Minggu ke-8	1067	1047	1055	1031	1035	1213	1199
	Minggu ke-9	1040	1054	1062	1060	1224	1250	1222
Maret	Minggu ke-10	1072	1063	1062	1058	1077	1222	1215
	Minggu ke-11	1079	1058	1069	1058	1058	1216	1229
	Minggu ke-12	1037	1202	1052	1030	1062	1228	1204
	Minggu ke-13	1082	1049	1067	1039	1043	1205	1197
	Minggu ke-14	1054	1052	1046	1037	1221	1241	1223
April	Minggu ke-15	1064	1067	1041	1051	1069	1224	1246
	Minggu ke-16	1068	1039	1031	1032	1051	1194	1185
	Minggu ke-17	1048	1070	1070	1045	1052	1221	1227
	Minggu ke-18	1052	1043	1069	1058	1056	1233	1216
Mei	Minggu ke-19	1080	1029	1037	1069	1066	1208	1213
	Minggu ke-20	1062	1049	1042	1185	1032	1196	1229
	Minggu ke-21	1051	1058	1078	1069	1071	1218	1211
	Minggu ke-22	1032	1048	1038	1077	1224	1237	1254
	Minggu ke-23	1048	1034	1067	1070	1063	1234	1193
Juni	Minggu ke-24	1034	1044	1069	1070	1044	1231	1219
	Minggu ke-25	1071	1037	1047	1050	1053	1212	1219
	Minggu ke-26	1073	1030	1066	1041	1075	1198	1234
	Minggu ke-27	1254	1233	1249	1255	1237	1227	1248
Juli	Minggu ke-28	1236	1255	1254	1252	1258	1238	1248
	Minggu ke-29	1041	1046	1070	1044	1053	1198	1217
	Minggu ke-30	1054	1048	1071	1039	1059	1209	1216
	Minggu ke-31	1076	1073	1050	1062	1074	1228	1235
Agustus	Minggu ke-32	1068	1073	1037	1045	1070	1183	1215
	Minggu ke-33	1039	1045	1058	1079	1045	1228	1211
	Minggu ke-34	1038	195	1036	1045	1049	1217	1219
	Minggu ke-35	1058	1059	1068	1044	1041	1206	1226
	Minggu ke-36	1069	1045	1085	1036	1064	1196	1220
September	Minggu ke-37	1237	1232	1248	1235	1259	1226	1239
	Minggu ke-38	1230	1231	1254	1250	1252	1237	1226
	Minggu ke-39	1069	1044	1058	1071	1071	1205	1235
	Minggu ke-40	1067	1063	1036	1039	1060	1197	1235
Oktober	Minggu ke-41	1040	1057	1085	1084	1072	1206	1202
	Minggu ke-42	1045	1038	1075	1051	1058	1235	1186
	Minggu ke-43	1075	1071	1037	1039	1036	1206	1226
	Minggu ke-44	1071	1077	1042	1046	1040	1201	1233
November	Minggu ke-45	1042	1078	1048	1071	1059	1199	1204
	Minggu ke-46	1079	1038	1080	1042	1068	1229	1234
	Minggu ke-47	1062	1075	1233	1085	1060	1197	1222
	Minggu ke-48	1047	1053	1038	1076	1049	1207	1219
	Minggu ke-49	1077	1041	1084	1038	1070	1201	1231
Desember	Minggu ke-50	1053	1047	1065	1068	1069	1227	1210
	Minggu ke-51	1046	1072	1054	1056	1056	1211	1223
	Minggu ke-52	1079	1043	1074	1058	1236	1231	1254
	Minggu ke-53	1257	1246	1256	1239	1246		



Data Jumlah Penumpang KAPasundan Rute Surabaya - Bandung Tahun 2010								
Bulan	Hari	Senin	Selasa	Rabu	Kamis	Jumat	Sabtu	Minggu
Januari	Minggu ke-1					1257	1260	1257
	Minggu ke-2	1253	1246	1224	1259	1235	1223	1234
	Minggu ke-3	1069	1030	1050	1065	1040	1226	1227
	Minggu ke-4	1031	1061	1030	1055	1040	1238	1254
	Minggu ke-5	1058	1055	1030	1030	1068	1221	1217
Februari	Minggu ke-6	1050	1054	1040	1066	1036	1230	1236
	Minggu ke-7	1039	1038	1044	1033	1058	1231	1208
	Minggu ke-8	1035	1059	1068	1070	1037	1212	1207
	Minggu ke-9	1034	1066	1064	1043	1249	1233	1231
Maret	Minggu ke-10	1041	1052	1054	1035	1033	1217	1208
	Minggu ke-11	1059	1066	1042	1037	1051	1219	1223
	Minggu ke-12	1060	1207	1060	1030	1050	1228	1195
	Minggu ke-13	1060	1059	1051	1055	1062	1229	1243
	Minggu ke-14	1042	1069	1053	1059	1239	1254	1229
April	Minggu ke-15	1057	1053	1045	1058	1046	1225	1212
	Minggu ke-16	1050	1056	1059	1050	1057	1229	1226
	Minggu ke-17	1030	1067	1048	1061	1037	1231	1225
	Minggu ke-18	1058	1030	1069	1043	1032	1217	1238
Mei	Minggu ke-19	1044	1046	1071	1040	1053	1232	1206
	Minggu ke-20	1045	1051	1031	1216	1061	1227	1230
	Minggu ke-21	1056	1072	1059	1032	1075	1228	1212
	Minggu ke-22	1067	1032	1072	1061	1233	1248	1259
	Minggu ke-23	1068	1078	1064	1046	1071	1217	1248
Juni	Minggu ke-24	1057	1039	1066	1047	1043	1229	1212
	Minggu ke-25	1077	1030	1055	1050	1030	1215	1220
	Minggu ke-26	1030	1072	1064	1064	1071	1225	1212
	Minggu ke-27	1232	1241	1220	1231	1235	1230	1225
Juli	Minggu ke-28	1240	1237	1256	1231	1243	1220	1250
	Minggu ke-29	1060	1044	1047	1034	1072	1210	1225
	Minggu ke-30	1035	1046	1064	1054	1032	1219	1235
	Minggu ke-31	1055	1050	1046	1055	1068	1213	1235
Agustus	Minggu ke-32	1061	1063	1076	1071	1032	1215	1234
	Minggu ke-33	1051	1077	1053	1036	1074	1211	1238
	Minggu ke-34	1055	176	1055	1074	1080	1200	1206
	Minggu ke-35	1049	1064	1034	1067	1071	1245	1218
	Minggu ke-36	1077	1049	1063	1027	1084	1216	1243
September	Minggu ke-37	1251	1249	1223	1240	1239	1230	1222
	Minggu ke-38	1258	1252	1244	1240	1229	1222	1225
	Minggu ke-39	1047	1051	1059	1078	1039	1205	1219
	Minggu ke-40	1043	1056	1082	1071	1053	1238	1237
Oktober	Minggu ke-41	1035	1055	1052	1069	1067	1227	1232
	Minggu ke-42	1063	1052	1085	1042	1044	1228	1215
	Minggu ke-43	1062	1064	1054	1035	1070	1219	1220
	Minggu ke-44	1082	1037	1082	1067	1045	1212	1216
November	Minggu ke-45	1043	1077	1049	1042	1029	1219	1221
	Minggu ke-46	1058	1044	1070	1085	1068	1226	1234
	Minggu ke-47	1067	1064	1187	1036	1067	1229	1211
	Minggu ke-48	1067	1036	1043	1045	1068	1219	1227
	Minggu ke-49	1048	1071	1071	1043	1036	1221	1235
Desember	Minggu ke-50	1053	1053	1053	1040	1065	1221	1219
	Minggu ke-51	1065	1079	1053	1058	1073	1225	1207
	Minggu ke-52	1082	1074	1072	1052	1255	1260	1234
	Minggu ke-53	1232	1221	1260	1244	1258		

## **LAMPIRAN 2**

**OUTPUT MINITAB:**

***ONE-SAMPLE WILCOXON SIGNED RANK TEST***

## Kereta Api Agro Wilis Rute Bandung – Surabaya

### Wilcoxon Signed Rank Test: Senin

Test of median = 179.8 versus median not = 179.8

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	0.0	0.181	159.3
Februari	4	4	5.0	1.000	179.0
Maret	5	5	7.0	1.000	177.5
April	4	4	1.0	0.201	164.5
Mei	5	5	6.0	0.787	178.0
Juni	3	3	5.0	0.423	184.8
Juli	3	3	2.0	0.789	174.3
Agustus	5	5	9.0	0.787	181.0
September	2	2	0.0	0.371	167.5
Oktober	4	4	9.0	0.201	202.8
November	5	5	12.0	0.281	188.0
Desember	3	3	6.0	0.181	186.0

### Wilcoxon Signed Rank Test: Selasa

Test of median = 183.6 versus median not = 183.6

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	2.0	0.789	178.0
Februari	4	4	4.0	0.855	179.0
Maret	5	5	8.0	1.000	196.0
April	4	4	6.0	0.855	187.0
Mei	4	4	4.0	0.855	178.5
Juni	4	4	9.0	0.201	192.5
Juli	3	3	6.0	0.181	192.5
Agustus	5	5	11.0	0.418	195.0
September	2	2	1.0	1.000	182.5
Oktober	4	4	5.0	1.000	183.5
November	5	5	1.0	0.106	173.0
Desember	3	3	1.0	0.423	176.5

### Wilcoxon Signed Rank Test: Rabu

Test of median = 184.3 versus median not = 184.3

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	2.0	0.789	176.0
Februari	4	4	2.0	0.361	172.8
Maret	5	5	3.0	0.281	170.0
April	4	4	9.0	0.201	196.5
Mei	4	4	3.0	0.584	176.8
Juni	4	4	3.0	0.584	177.8
Juli	3	3	3.0	1.000	184.5
Agustus	4	4	3.0	0.584	182.0
September	3	3	0.0	0.181	175.0
Oktober	4	4	10.0	0.100	193.8
November	4	4	8.0	0.361	203.8
Desember	4	4	10.0	0.100	195.8

**Wilcoxon Signed Rank Test: Kamis**

Test of median = 185.7 versus median not = 185.7

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	3.0	1.000	186.8
Februari	4	4	0.0	0.100	165.0
Maret	4	4	3.0	0.584	181.8
April	5	5	6.0	0.787	182.5
Mei	4	4	6.0	0.855	195.5
Juni	4	4	5.0	1.000	186.8
Juli	3	3	2.0	0.789	181.8
Agustus	4	4	6.0	0.855	194.8
September	3	3	1.0	0.423	170.0
Oktober	4	4	9.0	0.201	200.8
November	4	4	3.0	0.584	181.3
Desember	4	4	7.0	0.584	205.8

**Wilcoxon Signed Rank Test: Jumat**

Test of median = 181.5 versus median not = 181.5

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	1.0	0.423	174.3
Februari	3	3	2.0	0.789	179.0
Maret	4	4	0.0	0.100	169.0
April	4	4	3.0	0.584	174.8
Mei	3	3	4.0	0.789	184.5
Juni	4	4	4.0	0.855	176.3
Juli	3	3	3.0	1.000	191.5
Agustus	4	4	1.0	0.201	175.8
September	2	2	3.0	0.371	194.5
Oktober	5	5	12.0	0.281	192.5
November	4	4	9.0	0.201	188.3
Desember	3	3	3.0	1.000	179.5

**Wilcoxon Signed Rank Test: Sabtu**

Test of median = 232.7 versus median not = 232.7

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	3.0	1.000	234.3
Februari	3	3	3.0	1.000	231.3
Maret	4	4	2.0	0.361	224.8
April	3	3	6.0	0.181	240.3
Mei	4	4	10.0	0.100	238.3
Juni	4	4	3.0	0.584	231.8
Juli	3	3	3.0	1.000	232.0
Agustus	4	4	7.0	0.584	236.0
September	2	2	1.0	1.000	228.5
Oktober	5	5	5.0	0.590	231.0
November	4	4	1.0	0.201	223.0
Desember	3	3	5.0	0.423	237.5

**Wilcoxon Signed Rank Test: Minggu**

Test of median = 233.0 versus median not = 233.0

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	2.0	0.789	229.8
Februari	3	3	2.0	0.789	230.0
Maret	4	4	3.0	0.584	231.3
April	3	3	6.0	0.181	240.0
Mei	4	4	3.0	0.584	230.3
Juni	4	4	5.0	1.000	233.8
Juli	2	2	2.0	1.000	236.5
Agustus	5	5	3.0	0.281	230.5
September	2	2	3.0	0.371	237.0
Oktober	5	5	11.0	0.418	235.5
November	4	4	5.0	1.000	234.3
Desember	3	3	2.0	0.789	230.3

**Kereta Api Agro Wilis Rute Surabaya – Bandung****Wilcoxon Signed Rank Test: Senin**

Test of median = 179.2 versus median not = 179.2

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	1.0	0.423	165.8
Februari	4	4	8.0	0.361	196.5
Maret	5	5	3.0	0.281	171.0
April	4	4	2.0	0.361	170.3
Mei	5	5	7.0	1.000	178.5
Juni	3	3	1.0	0.423	165.8
Juli	3	3	1.0	0.423	173.0
Agustus	5	5	7.0	1.000	176.0
September	2	2	2.0	1.000	187.5
Oktober	4	4	8.0	0.361	192.0
November	5	5	9.0	0.787	180.5
Desember	3	3	5.0	0.423	188.5

**Wilcoxon Signed Rank Test: Selasa**

Test of median = 183.8 versus median not = 183.8

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	0.0	0.181	173.3
Februari	4	4	8.0	0.361	196.5
Maret	5	5	8.0	1.000	184.0
April	4	4	1.0	0.201	166.8
Mei	4	4	5.0	1.000	184.3
Juni	4	4	3.0	0.584	180.0
Juli	3	3	3.0	1.000	190.5
Agustus	5	5	9.0	0.787	185.5
September	2	2	3.0	0.371	192.0
Oktober	4	4	8.0	0.361	190.3
November	5	5	11.0	0.418	192.0
Desember	3	3	1.0	0.423	174.5

**Wilcoxon Signed Rank Test: Rabu**

Test of median = 180.7 versus median not = 180.7

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	2.0	0.789	169.8
Februari	4	4	10.0	0.100	190.8
Maret	5	5	7.0	1.000	180.0
April	4	4	3.0	0.584	173.0
Mei	4	4	4.0	0.855	177.8
Juni	4	4	5.0	1.000	179.8
Juli	3	3	1.0	0.423	169.3
Agustus	4	4	6.0	0.855	186.5
September	3	3	2.0	0.789	178.3
Oktober	4	4	7.0	0.584	190.3
November	4	4	8.0	0.361	197.0
Desember	4	4	2.0	0.361	173.5

**Wilcoxon Signed Rank Test: Kamis**

Test of median = 179.1 versus median not = 179.1

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	0.0	0.181	164.5
Februari	4	4	6.0	0.855	180.0
Maret	4	4	3.0	0.584	174.0
April	5	5	12.0	0.281	187.5
Mei	4	4	5.0	1.000	180.5
Juni	4	4	10.0	0.100	186.3
Juli	3	3	0.0	0.181	162.8
Agustus	4	4	7.0	0.584	182.0
September	3	3	6.0	0.181	186.8
Oktober	4	4	1.0	0.201	162.8
November	4	4	0.0	0.100	177.5
Desember	4	4	8.0	0.361	189.5

**Wilcoxon Signed Rank Test: Jumat**

Test of median = 179.1 versus median not = 179.1

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	0.0	0.181	170.3
Februari	3	3	1.0	0.423	169.8
Maret	4	4	6.0	0.855	181.5
April	4	4	3.0	0.584	174.0
Mei	3	3	5.0	0.423	193.3
Juni	4	4	4.0	0.855	169.0
Juli	3	3	2.0	0.789	177.3
Agustus	4	4	9.0	0.201	200.0
September	2	2	2.0	1.000	187.5
Oktober	5	5	5.0	0.590	175.0
November	4	4	5.0	1.000	177.0
Desember	3	3	4.0	0.789	185.8

**Wilcoxon Signed Rank Test: Sabtu**

Test of median = 231.9 versus median not = 231.9

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	3.0	1.000	232.5
Februari	3	3	6.0	0.181	235.8
Maret	4	4	2.0	0.361	228.3
April	3	3	2.0	0.789	228.5
Mei	4	4	5.0	1.000	231.0
Juni	4	4	4.0	0.855	229.3
Juli	3	3	5.0	0.423	236.0
Agustus	4	4	8.0	0.361	235.8
September	2	2	1.0	1.000	229.0
Oktober	5	5	3.0	0.281	228.5
November	4	4	7.0	0.584	235.0
Desember	3	3	4.0	0.789	234.5

**Wilcoxon Signed Rank Test: Minggu**

Test of median = 233.3 versus median not = 233.3

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	2.0	0.789	231.0
Februari	3	3	1.0	0.423	228.5
Maret	4	4	3.0	0.584	231.0
April	3	3	3.0	1.000	232.0
Mei	4	4	3.0	0.584	227.0
Juni	4	4	6.0	0.855	234.3
Juli	2	2	1.0	1.000	231.0
Agustus	5	5	9.0	0.787	235.0
September	2	2	3.0	0.371	244.5
Oktober	5	5	6.0	0.787	232.5
November	4	4	7.0	0.584	234.0
Desember	3	3	5.0	0.423	240.3

**Kereta Api Turangga Rute Bandung – Surabaya****Wilcoxon Signed Rank Test: Senin**

Test of median = 344.5 versus median not = 344.5

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	6.0	0.181	351.3
Februari	4	4	3.0	0.584	339.3
Maret	5	5	10.0	0.590	347.5
April	4	4	6.0	0.855	347.0
Mei	5	5	6.0	0.787	344.0
Juni	3	3	2.0	0.789	340.8
Juli	3	3	5.0	0.423	348.0
Agustus	5	5	3.0	0.281	338.5
September	2	2	0.0	0.371	330.0
Oktober	4	4	6.0	0.855	347.5
November	5	5	8.0	1.000	345.0
Desember	3	3	3.0	1.000	347.3

**Wilcoxon Signed Rank Test: Selasa**

Test of median = 344.9 versus median not = 344.9

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	2.0	0.789	340.8
Februari	4	4	3.0	0.584	339.3
Maret	5	5	10.0	0.590	350.5
April	4	4	4.0	0.855	342.5
Mei	4	4	3.0	0.584	340.5
Juni	4	4	5.0	1.000	345.3
Juli	3	3	1.0	0.423	333.3
Agustus	5	5	9.0	0.787	347.5
September	2	2	1.0	1.000	340.5
Oktober	4	4	7.0	0.584	345.3
November	5	5	10.0	0.590	345.5
Desember	3	3	3.0	1.000	345.5

**Wilcoxon Signed Rank Test: Rabu**

Test of median = 346.4 versus median not = 346.4

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	3.0	1.000	344.3
Februari	4	4	6.0	0.855	348.3
Maret	5	5	11.0	0.418	354.0
April	4	4	7.0	0.584	355.8
Mei	4	4	1.0	0.201	337.3
Juni	4	4	0.0	0.100	339.8
Juli	3	3	1.0	0.423	339.5
Agustus	4	4	2.0	0.361	337.8
September	3	3	6.0	0.181	350.0
Oktober	4	4	0.0	0.100	336.0
November	4	4	7.0	0.584	351.0
Desember	4	4	6.0	0.855	346.8

**Wilcoxon Signed Rank Test: Kamis**

Test of median = 347.5 versus median not = 347.5

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	3.0	1.000	350.5
Februari	4	4	4.0	0.855	343.0
Maret	4	4	10.0	0.100	359.8
April	5	5	5.0	0.590	343.0
Mei	4	4	6.0	0.855	348.8
Juni	4	4	5.0	1.000	347.8
Juli	3	3	1.0	0.423	337.5
Agustus	4	4	5.0	1.000	348.0
September	3	3	5.0	0.423	351.5
Oktober	4	4	3.0	0.584	342.0
November	4	4	2.0	0.361	338.8
Desember	4	4	7.0	0.584	349.8



**Wilcoxon Signed Rank Test: Jumat**

Test of median = 392.1 versus median not = 392.1

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	0.0	0.181	381.5
Februari	3	3	1.0	0.423	387.8
Maret	4	4	2.0	0.361	389.3
April	4	4	1.0	0.201	383.3
Mei	3	3	4.0	0.789	394.8
Juni	4	4	0.0	0.100	388.8
Juli	3	3	5.0	0.423	396.3
Agustus	4	4	7.0	0.584	401.0
September	2	2	3.0	0.371	396.0
Oktober	5	5	12.0	0.281	395.0
November	4	4	7.0	0.584	398.3
Desember	3	3	5.0	0.423	399.5

**Wilcoxon Signed Rank Test: Sabtu**

Test of median = 392.8 versus median not = 392.8

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	3.0	1.000	392.5
Februari	3	3	0.0	0.181	388.5
Maret	4	4	7.0	0.584	394.8
April	3	3	1.0	0.423	388.0
Mei	4	4	6.0	0.855	393.5
Juni	4	4	4.0	0.855	390.5
Juli	3	3	1.0	0.423	387.8
Agustus	4	4	6.0	0.855	403.0
September	2	2	3.0	0.371	396.5
Oktober	5	5	6.0	0.787	390.0
November	4	4	5.0	1.000	392.5
Desember	3	3	6.0	0.181	401.0

**Wilcoxon Signed Rank Test: Minggu**

Test of median = 393.0 versus median not = 393.0

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	5.0	0.423	400.8
Februari	3	3	1.0	0.423	381.0
Maret	4	4	5.0	1.000	393.3
April	3	3	3.0	1.000	391.8
Mei	4	4	4.0	0.855	390.5
Juni	4	4	5.0	1.000	394.0
Juli	2	2	3.0	0.371	398.0
Agustus	5	5	9.0	0.787	393.5
September	2	2	0.0	0.371	386.0
Oktober	5	5	6.0	0.787	392.5
November	4	4	6.0	0.855	397.3
Desember	3	3	5.0	0.423	398.3

## Kereta Api Turangga Rute Surabaya – Bandung

### Wilcoxon Signed Rank Test: Senin

Test of median = 347.5 versus median not = 347.5

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	2.0	0.789	344.0
Februari	4	4	10.0	0.100	359.8
Maret	5	5	7.0	1.000	347.0
April	4	4	7.0	0.584	355.3
Mei	5	5	2.0	0.178	342.0
Juni	3	3	0.0	0.181	335.0
Juli	3	3	5.0	0.423	353.0
Agustus	5	5	9.0	0.787	351.0
September	2	2	2.0	1.000	350.0
Oktober	4	4	6.0	0.855	351.5
November	5	5	9.0	0.787	351.0
Desember	3	3	5.0	0.423	350.8

### Wilcoxon Signed Rank Test: Selasa

Test of median = 348.4 versus median not = 348.4

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	5.0	0.423	358.5
Februari	4	4	10.0	0.100	359.8
Maret	5	5	11.0	0.418	358.0
April	4	4	5.0	1.000	348.0
Mei	4	4	1.0	0.201	332.8
Juni	4	4	3.0	0.584	343.3
Juli	3	3	4.0	0.789	350.0
Agustus	5	5	5.0	0.590	345.0
September	2	2	0.0	0.371	343.5
Oktober	4	4	3.0	0.584	344.3
November	5	5	12.0	0.281	350.0
Desember	3	3	3.0	1.000	346.0

### Wilcoxon Signed Rank Test: Rabu

Test of median = 347.3 versus median not = 347.3

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	3.0	1.000	350.8
Februari	4	4	4.0	0.855	344.3
Maret	5	5	11.0	0.418	359.0
April	4	4	4.0	0.855	346.5
Mei	4	4	5.0	1.000	348.3
Juni	4	4	1.0	0.201	338.0
Juli	3	3	0.0	0.181	340.3
Agustus	4	4	5.0	1.000	347.8
September	3	3	3.0	1.000	346.0
Oktober	4	4	0.0	0.100	338.0
November	4	4	5.0	1.000	350.3
Desember	4	4	10.0	0.100	354.3

**Wilcoxon Signed Rank Test: Kamis**

Test of median = 348.6 versus median not = 348.6

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	3.0	1.000	347.0
Februari	4	4	8.0	0.361	354.0
Maret	4	4	6.0	0.855	358.5
April	5	5	12.0	0.281	353.5
Mei	4	4	4.0	0.855	341.0
Juni	4	4	1.0	0.201	342.5
Juli	3	3	0.0	0.181	339.3
Agustus	4	4	3.0	0.584	346.5
September	3	3	1.0	0.423	339.8
Oktober	4	4	6.0	0.855	351.5
November	4	4	8.0	0.361	353.0
Desember	4	4	7.0	0.584	351.3

**Wilcoxon Signed Rank Test: Jumat**

Test of median = 393.9 versus median not = 393.9

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	2.0	0.789	390.5
Februari	3	3	1.0	0.423	386.5
Maret	4	4	3.0	0.584	391.3
April	4	4	0.0	0.100	384.5
Mei	3	3	6.0	0.181	399.5
Juni	4	4	8.0	0.361	399.3
Juli	3	3	5.0	0.423	400.8
Agustus	4	4	3.0	0.584	390.0
September	2	2	3.0	0.371	401.0
Oktober	5	5	7.0	1.000	393.0
November	4	4	7.0	0.584	396.3
Desember	3	3	5.0	0.423	399.3

**Wilcoxon Signed Rank Test: Sabtu**

Test of median = 392.3 versus median not = 392.3

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	1.0	0.423	387.3
Februari	3	3	1.0	0.423	386.0
Maret	4	4	5.0	1.000	393.8
April	3	3	5.0	0.423	397.5
Mei	4	4	1.0	0.201	387.0
Juni	4	4	7.0	0.584	395.8
Juli	3	3	3.0	1.000	391.5
Agustus	4	4	3.0	0.584	391.3
September	2	2	2.0	1.000	397.5
Oktober	5	5	6.0	0.787	391.5
November	4	4	8.0	0.361	396.5
Desember	3	3	2.0	0.789	391.8

**Wilcoxon Signed Rank Test: Minggu**

Test of median = 392.8 versus median not = 392.8

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	0.0	0.181	385.0
Februari	3	3	1.0	0.423	383.5
Maret	4	4	2.0	0.361	383.3
April	3	3	5.0	0.423	396.5
Mei	4	4	8.0	0.361	397.0
Juni	4	4	4.0	0.855	388.3
Juli	2	2	1.0	1.000	387.0
Agustus	5	5	6.0	0.787	391.0
September	2	2	2.0	1.000	396.0
Oktober	5	5	11.0	0.418	394.5
November	4	4	7.0	0.584	400.5
Desember	3	3	6.0	0.181	401.8

**Kereta Api Mutiara Selatan Rute Bandung – Surabaya****Wilcoxon Signed Rank Test: Senin**

Test of median = 457.5 versus median not = 457.5

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	1.0	0.423	451.5
Februari	4	4	10.0	0.100	464.5
Maret	5	5	5.0	0.590	455.5
April	4	4	5.0	1.000	458.3
Mei	5	5	12.0	0.281	463.0
Juni	3	3	6.0	0.181	463.8
Juli	3	3	3.0	1.000	457.5
Agustus	5	5	4.0	0.418	454.0
September	2	2	0.0	0.371	452.0
Oktober	4	4	3.0	0.584	454.5
November	5	5	9.0	0.787	459.0
Desember	3	3	1.0	0.423	451.3

**Wilcoxon Signed Rank Test: Selasa**

Test of median = 462.2 versus median not = 462.2

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	0.0	0.181	455.5
Februari	4	4	7.0	0.584	464.5
Maret	5	5	8.0	1.000	464.0
April	4	4	7.0	0.584	467.0
Mei	4	4	2.0	0.361	457.8
Juni	4	4	5.0	1.000	462.5
Juli	3	3	1.0	0.423	457.8
Agustus	5	5	5.0	0.590	456.0
September	2	2	1.0	1.000	460.0
Oktober	4	4	3.0	0.584	457.5
November	5	5	6.0	0.787	461.0
Desember	3	3	3.0	1.000	460.8

**Wilcoxon Signed Rank Test: Rabu**

Test of median = 461.2 versus median not = 461.2

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	2.0	0.789	460.3
Februari	4	4	3.0	0.584	458.8
Maret	5	5	3.0	0.281	456.0
April	4	4	2.0	0.361	456.0
Mei	4	4	7.0	0.584	463.3
Juni	4	4	7.0	0.584	464.3
Juli	3	3	6.0	0.181	465.8
Agustus	4	4	6.0	0.855	466.3
September	3	3	4.0	0.789	463.0
Oktober	4	4	1.0	0.201	452.0
November	4	4	6.0	0.855	463.8
Desember	4	4	1.0	0.201	452.8

**Wilcoxon Signed Rank Test: Kamis**

Test of median = 460.0 versus median not = 460.0

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	0.0	0.181	455.0
Februari	4	3	6.0	0.181	467.0
Maret	4	4	1.0	0.201	452.3
April	5	5	6.0	0.787	456.5
Mei	4	4	9.0	0.201	468.8
Juni	4	4	2.5	0.465	454.8
Juli	3	3	2.0	0.789	457.5
Agustus	4	4	4.0	0.855	459.3
September	3	3	3.0	1.000	462.0
Oktober	4	4	2.0	0.361	453.5
November	4	4	6.0	0.855	461.3
Desember	4	3	6.0	0.181	462.0

**Wilcoxon Signed Rank Test: Jumat**

Test of median = 522.0 versus median not = 522.0

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	1.0	0.423	518.8
Februari	3	3	5.0	0.423	527.3
Maret	4	4	4.0	0.855	515.5
April	4	4	7.0	0.584	524.0
Mei	3	3	3.0	1.000	511.5
Juni	4	4	10.0	0.100	527.5
Juli	3	3	6.0	0.181	535.3
Agustus	4	4	10.0	0.100	535.8
September	2	2	3.0	0.371	536.0
Oktober	5	5	12.0	0.281	527.0
November	4	4	6.0	0.855	532.3
Desember	3	3	5.0	0.423	528.5

**Wilcoxon Signed Rank Test: Sabtu**

Test of median = 527.5 versus median not = 527.5

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	1.0	0.423	522.3
Februari	3	3	4.0	0.789	529.0
Maret	4	4	0.0	0.100	518.3
April	3	3	3.0	1.000	523.0
Mei	4	4	4.0	0.855	524.8
Juni	4	4	4.0	0.855	524.3
Juli	3	3	6.0	0.181	534.5
Agustus	4	4	10.0	0.100	535.3
September	2	2	1.0	1.000	526.5
Oktober	5	5	10.0	0.590	531.5
November	4	4	4.0	0.855	527.0
Desember	3	3	5.0	0.423	530.0

**Wilcoxon Signed Rank Test: Minggu**

Test of median = 524.4 versus median not = 524.4

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	2.0	0.789	522.5
Februari	3	3	5.0	0.423	528.5
Maret	4	4	4.0	0.855	523.8
April	3	3	0.0	0.181	516.0
Mei	4	4	3.0	0.584	523.3
Juni	4	4	4.0	0.855	518.5
Juli	2	2	3.0	0.371	533.0
Agustus	5	5	10.0	0.590	528.0
September	2	2	2.0	1.000	526.5
Oktober	5	5	6.0	0.787	523.0
November	4	4	2.0	0.361	520.3
Desember	3	3	3.0	1.000	526.0

**Kereta Api Mutiara Selatan Rute Surabaya – Bandung****Wilcoxon Signed Rank Test: Senin**

Test of median = 457.2 versus median not = 457.2

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	3.0	1.000	461.8
Februari	4	4	4.0	0.855	455.5
Maret	5	5	9.0	0.787	458.5
April	4	4	1.0	0.201	448.8
Mei	5	5	7.0	1.000	456.5
Juni	3	3	1.0	0.423	453.0
Juli	3	3	4.0	0.789	458.5
Agustus	5	5	14.0	0.106	465.0
September	2	2	2.0	1.000	458.5
Oktober	4	4	3.0	0.584	455.3
November	5	5	4.0	0.418	454.5
Desember	3	3	5.0	0.423	460.8

**Wilcoxon Signed Rank Test: Selasa**

Test of median = 460.7 versus median not = 460.7

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	1.0	0.423	454.5
Februari	4	4	1.0	0.201	455.5
Maret	5	5	8.0	1.000	463.5
April	4	4	3.0	0.584	460.0
Mei	4	4	6.0	0.855	462.0
Juni	4	4	2.0	0.361	455.3
Juli	3	3	1.0	0.423	453.8
Agustus	5	5	5.0	0.590	459.0
September	2	2	0.0	0.371	453.5
Oktober	4	4	1.0	0.201	448.3
November	5	5	5.0	0.590	458.0
Desember	3	3	1.0	0.423	455.5

**Wilcoxon Signed Rank Test: Rabu**

Test of median = 460.4 versus median not = 460.4

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	1.0	0.423	456.3
Februari	4	4	6.0	0.855	464.3
Maret	5	5	4.0	0.418	456.0
April	4	4	6.0	0.855	463.5
Mei	4	4	5.0	1.000	460.0
Juni	4	4	5.0	1.000	461.3
Juli	3	3	0.0	0.181	452.5
Agustus	4	4	6.0	0.855	464.8
September	3	3	2.0	0.789	458.0
Oktober	4	4	3.0	0.584	458.0
November	4	4	10.0	0.100	467.0
Desember	4	4	3.0	0.584	459.0

**Wilcoxon Signed Rank Test: Kamis**

Test of median = 458.5 versus median not = 458.5

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	2.0	0.789	454.0
Februari	4	4	3.0	0.584	456.5
Maret	4	4	4.5	1.000	457.5
April	5	5	1.0	0.106	452.5
Mei	4	4	8.0	0.361	469.5
Juni	4	4	9.0	0.201	468.0
Juli	3	3	1.0	0.423	450.5
Agustus	4	4	7.0	0.584	460.8
September	3	3	1.0	0.423	452.0
Oktober	4	4	2.5	0.465	451.5
November	4	4	3.0	0.584	453.3
Desember	4	4	4.0	0.855	457.0

**Wilcoxon Signed Rank Test: Jumat**

Test of median = 530.2 versus median not = 530.2

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	4.0	0.789	532.5
Februari	3	3	3.0	1.000	531.5
Maret	4	4	2.0	0.361	522.5
April	4	4	4.0	0.855	529.0
Mei	3	3	3.0	1.000	519.3
Juni	4	4	5.0	1.000	529.3
Juli	3	3	4.0	0.789	535.0
Agustus	4	4	8.0	0.361	534.5
September	2	2	3.0	0.371	543.5
Oktober	5	5	11.0	0.418	535.0
November	4	4	5.0	1.000	530.3
Desember	3	3	3.0	1.000	528.8

**Wilcoxon Signed Rank Test: Sabtu**

Test of median = 527.2 versus median not = 527.2

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	4.0	0.789	530.0
Februari	3	3	5.0	0.423	531.0
Maret	4	4	1.0	0.201	521.5
April	3	3	1.0	0.423	519.5
Mei	4	4	6.0	0.855	528.3
Juni	4	4	4.0	0.855	525.5
Juli	3	3	4.0	0.789	529.8
Agustus	4	4	4.0	0.855	526.3
September	2	2	3.0	0.371	532.5
Oktober	5	5	13.0	0.178	531.0
November	4	4	4.0	0.855	526.3
Desember	3	3	2.0	0.789	525.8

**Wilcoxon Signed Rank Test: Minggu**

Test of median = 527.1 versus median not = 527.1

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	1.0	0.423	524.8
Februari	3	3	5.0	0.423	531.8
Maret	4	4	6.0	0.855	529.0
April	3	3	3.0	1.000	527.5
Mei	4	4	7.0	0.584	528.8
Juni	4	4	7.0	0.584	532.3
Juli	2	2	2.0	1.000	530.0
Agustus	5	5	4.0	0.418	525.0
September	2	2	2.0	1.000	528.5
Oktober	5	5	3.0	0.281	523.0
November	4	4	4.0	0.855	525.8
Desember	3	3	1.0	0.423	524.8



## Kereta Api Pasundan Rute Bandung – Surabaya

### Wilcoxon Signed Rank Test: Senin

Test of median = 1058 versus median not = 1058

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	3.0	1.000	1060
Februari	4	4	2.0	0.361	1049
Maret	5	5	10.0	0.590	1067
April	4	4	4.0	0.855	1058
Mei	5	5	5.0	0.590	1055
Juni	3	3	3.0	1.000	1062
Juli	3	3	3.0	1.000	1056
Agustus	5	5	5.0	0.590	1054
September	2	2	3.0	0.371	1068
Oktober	4	4	4.0	0.855	1058
November	5	5	10.0	0.590	1062
Desember	3	3	3.0	1.000	1058

### Wilcoxon Signed Rank Test: Selasa

Test of median = 1037 versus median not = 1037

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	4.0	0.789	1041
Februari	4	4	9.0	0.201	1049
Maret	5	5	15.0	0.059	1058
April	4	4	10.0	0.100	1055
Mei	4	4	9.0	0.201	1048
Juni	4	4	3.0	0.584	1036
Juli	3	3	6.0	0.181	1054
Agustus	5	5	10.0	0.590	1045
September	2	2	3.0	0.371	1054
Oktober	4	4	10.0	0.100	1061
November	5	5	15.0	0.059	1058
Desember	3	3	6.0	0.181	1052

### Wilcoxon Signed Rank Test: Rabu

Test of median = 1061 versus median not = 1061

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	1.0	0.423	1054
Februari	4	4	1.0	0.201	1056
Maret	5	5	6.0	0.787	1060
April	4	4	3.0	0.584	1053
Mei	4	4	1.0	0.201	1041
Juni	4	4	6.0	0.855	1066
Juli	3	3	3.0	1.000	1065
Agustus	4	4	2.0	0.361	1050
September	3	3	2.0	0.789	1059
Oktober	4	4	4.0	0.855	1060
November	4	4	6.0	0.855	1072
Desember	4	4	8.0	0.361	1069

**Wilcoxon Signed Rank Test: Kamis**

Test of median = 1057 versus median not = 1057

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	3.0	1.000	1052
Februari	4	4	3.0	0.584	1050
Maret	4	4	3.0	0.584	1046
April	5	5	1.0	0.106	1045
Mei	4	4	10.0	0.100	1075
Juni	4	4	5.0	1.000	1058
Juli	3	3	1.0	0.423	1047
Agustus	4	4	4.0	0.855	1045
September	3	3	1.0	0.423	1046
Oktober	4	4	4.0	0.855	1050
November	4	4	8.0	0.361	1072
Desember	4	4	5.0	1.000	1057

**Wilcoxon Signed Rank Test: Jumat**

Test of median = 1056 versus median not = 1056

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	0.0	0.181	1046
Februari	3	3	0.0	0.181	1043
Maret	4	4	7.0	0.584	1060
April	4	4	4.0	0.855	1055
Mei	3	3	3.0	1.000	1059
Juni	4	4	6.0	0.855	1059
Juli	3	3	4.0	0.789	1061
Agustus	4	4	3.0	0.584	1048
September	2	2	3.0	0.371	1068
Oktober	5	5	6.0	0.787	1054
November	4	4	7.0	0.584	1059
Desember	3	3	5.0	0.423	1066

**Wilcoxon Signed Rank Test: Sabtu**

Test of median = 1212 versus median not = 1212

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	5.0	0.423	1218
Februari	3	3	3.0	1.000	1211
Maret	4	4	8.0	0.361	1218
April	3	3	3.0	1.000	1215
Mei	4	4	6.0	0.855	1214
Juni	4	4	7.0	0.584	1219
Juli	3	3	3.0	1.000	1211
Agustus	4	4	4.0	0.855	1209
September	2	2	0.0	0.371	1201
Oktober	5	5	5.0	0.590	1206
November	4	4	4.0	0.855	1205
Desember	3	3	3.0	1.000	1213

**Wilcoxon Signed Rank Test: Minggu**

Test of median = 1217 versus median not = 1217

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	0.0	0.181	1211
Februari	3	3	1.0	0.423	1209
Maret	4	4	2.0	0.361	1211
April	3	3	3.0	1.000	1221
Mei	4	4	4.0	0.855	1215
Juni	4	4	6.0	0.855	1219
Juli	2	2	0.0	0.371	1217
Agustus	5	5	10.0	0.590	1221
September	2	2	3.0	0.371	1228
Oktober	5	5	8.0	1.000	1218
November	4	4	7.0	0.584	1220
Desember	3	3	4.0	0.789	1222

**Kereta Api Pasundan Rute Surabaya – Bandung****Wilcoxon Signed Rank Test: Senin**

Test of median = 1054 versus median not = 1054

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	3.0	1.000	1054
Februari	4	4	0.0	0.100	1038
Maret	5	5	6.0	0.787	1051
April	4	4	4.0	0.855	1052
Mei	5	5	10.0	0.590	1056
Juni	3	3	3.0	1.000	1055
Juli	3	3	3.0	1.000	1051
Agustus	5	5	10.0	0.590	1056
September	2	2	0.0	0.371	1045
Oktober	4	4	7.0	0.584	1062
November	5	5	10.0	0.590	1058
Desember	3	3	5.0	0.423	1066

**Wilcoxon Signed Rank Test: Selasa**

Test of median = 1040 versus median not = 1040

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	5.0	0.423	1050
Februari	4	4	4.0	0.855	1038
Maret	5	5	15.0	0.059	1066
April	4	4	9.0	0.201	1054
Mei	4	4	8.0	0.361	1050
Juni	4	4	7.0	0.584	1055
Juli	3	3	6.0	0.181	1047
Agustus	5	5	10.0	0.590	1057
September	2	2	3.0	0.371	1054
Oktober	4	4	9.0	0.201	1053
November	5	5	14.0	0.106	1058
Desember	3	3	6.0	0.181	1070

**Wilcoxon Signed Rank Test: Rabu**

Test of median = 1060 versus median not = 1060

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	0.0	0.181	1035
Februari	4	4	3.0	0.584	1054
Maret	5	5	1.0	0.106	1053
April	4	4	2.0	0.361	1055
Mei	4	4	5.0	1.000	1062
Juni	4	4	7.0	0.584	1064
Juli	3	3	1.0	0.423	1051
Agustus	4	4	3.0	0.584	1055
September	3	3	5.0	0.423	1067
Oktober	4	4	7.0	0.584	1068
November	4	4	5.0	1.000	1065
Desember	4	4	7.0	0.584	1062

**Wilcoxon Signed Rank Test: Kamis**

Test of median = 1055 versus median not = 1055

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	3.0	1.000	1051
Februari	4	4	4.0	0.855	1053
Maret	4	4	1.0	0.201	1037
April	5	5	7.0	1.000	1055
Mei	4	4	5.0	1.000	1056
Juni	4	4	4.0	0.855	1049
Juli	3	3	1.0	0.423	1049
Agustus	4	4	7.0	0.584	1068
September	3	3	3.0	1.000	1062
Oktober	4	4	4.0	0.855	1053
November	4	4	4.0	0.855	1044
Desember	4	4	2.0	0.361	1048

**Wilcoxon Signed Rank Test: Jumat**

Test of median = 1054 versus median not = 1054

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	1.0	0.423	1047
Februari	3	3	1.0	0.423	1042
Maret	4	4	3.0	0.584	1050
April	4	4	1.0	0.201	1043
Mei	3	3	5.0	0.423	1063
Juni	4	4	5.0	1.000	1054
Juli	3	3	3.0	1.000	1060
Agustus	4	4	7.0	0.584	1072
September	2	2	2.0	1.000	1062
Oktober	5	5	9.0	0.787	1056
November	4	4	6.0	0.855	1067
Desember	3	3	4.0	0.789	1060

**Wilcoxon Signed Rank Test: Sabtu**

Test of median = 1222 versus median not = 1222

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	5.0	0.423	1228
Februari	3	3	3.0	1.000	1226
Maret	4	4	7.0	0.584	1223
April	3	3	6.0	0.181	1229
Mei	4	4	8.0	0.361	1227
Juni	4	4	4.0	0.855	1222
Juli	3	3	0.0	0.181	1214
Agustus	4	4	4.0	0.855	1214
September	2	2	0.0	0.371	1211
Oktober	5	5	10.0	0.590	1225
November	4	4	7.0	0.584	1223
Desember	3	3	3.0	1.000	1222

**Wilcoxon Signed Rank Test: Minggu**

Test of median = 1223 versus median not = 1223

	N	N for Test	Wilcoxon Statistic	P	Estimated Median
Januari	3	3	4.0	0.789	1231
Februari	3	3	1.0	0.423	1215
Maret	4	4	3.0	0.584	1217
April	3	3	3.0	1.000	1222
Mei	4	4	4.0	0.855	1222
Juni	4	4	4.0	0.855	1218
Juli	2	2	3.0	0.371	1230
Agustus	5	5	9.0	0.787	1227
September	2	2	2.0	1.000	1231
Oktober	5	5	9.0	0.787	1224
November	4	4	5.0	1.000	1223
Desember	3	3	2.0	0.789	1220

## **LAMPIRAN 3**

**OUTPUT SPSS:**

***PAIRED-SAMPLE T-TEST***

### Kereta Api Agro Willis Rute Bandung – Surabaya

#### Paired Samples Test

	Paired Differences							df	Sig. (2-tailed)
	Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference		t			
				Lower	Upper				
Pair 1	SENIN - SELASA	-4.4680	13.02270	3.75933	-12.7422	3.8062	-1.189	11	.260
Pair 2	SENIN - RABU	-5.3097	11.39438	3.28927	-12.5493	1.9300	-1.614	11	.135
Pair 3	SENIN - KAMIS	-6.6069	13.29239	3.83718	-15.0525	1.8387	-1.722	11	.113
Pair 4	SENIN - JUMAT	-3.0277	11.59970	3.34855	-10.3978	4.3423	-.904	11	.385
Pair 5	SENIN - SABTU	-53.9194	11.81796	3.41155	-61.4282	-46.4106	-15.805	11	.000
Pair 6	SENIN - MINGGU	-54.5027	11.24807	3.24704	-61.6494	-47.3561	-16.785	11	.000
Pair 7	SELASA - RABU	-.8417	15.69941	4.53203	-10.8166	9.1333	-.186	11	.856
Pair 8	SELASA - KAMIS	-2.1389	12.95967	3.74114	-10.3731	6.0953	-.572	11	.579
Pair 9	SELASA - JUMAT	1.4403	12.80311	3.69594	-6.6945	9.5750	.390	11	.704
Pair 10	SELASA - SABTU	-49.4514	9.05366	2.61357	-55.2038	-43.6990	-18.921	11	.000
Pair 11	SELASA - MINGGU	-50.0348	8.23147	2.37622	-55.2648	-44.8047	-21.056	11	.000
Pair 12	RABU - KAMIS	-1.2972	11.48042	3.31411	-8.5916	5.9971	-.391	11	.703
Pair 13	RABU - JUMAT	2.2819	10.65867	3.07689	-4.4903	9.0541	.742	11	.474
Pair 14	RABU - SABTU	-48.6097	11.00503	3.17688	-55.6020	-41.6175	-15.301	11	.000
Pair 15	RABU - MINGGU	-49.1931	10.05246	2.90190	-55.5801	-42.8061	-16.952	11	.000
Pair 16	KAMIS - JUMAT	3.5792	12.64139	3.64926	-4.4528	11.6111	.981	11	.348
Pair 17	KAMIS - SABTU	-47.3125	8.92914	2.57762	-52.9858	-41.6392	-18.355	11	.000
Pair 18	KAMIS - MINGGU	-47.8958	11.38752	3.28729	-55.1311	-40.6605	-14.570	11	.000
Pair 19	JUMAT - SABTU	-50.8917	10.00963	2.88953	-57.2515	-44.5319	-17.612	11	.000
Pair 20	JUMAT - MINGGU	-51.4750	7.16352	2.06793	-56.0265	-46.9235	-24.892	11	.000
Pair 21	SABTU - MINGGU	-.5833	5.95040	1.71773	-4.3640	3.1974	-.340	11	.741

### Kereta Api Agro Wilis Rute Surabaya – Bandung

#### Paired Samples Test

	Paired Differences							t	df	Sig. (2-tailed)
	Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference		Lower	Upper			
				Lower	Upper					
Pair 1	SENIN - SELASA	-4.3042	9.26618	2.67492	-10.1916	1.5833	-1.609	11	.136	
Pair 2	SENIN - RABU	-1.1043	8.53696	2.46441	-6.5284	4.3199	-.448	11	.663	
Pair 3	SENIN - KAMIS	.6959	12.86202	3.71295	-7.4762	8.8681	.187	11	.855	
Pair 4	SENIN - JUMAT	-.3680	11.80109	3.40668	-7.8661	7.1301	-.108	11	.916	
Pair 5	SENIN - SABTU	-5.27903	9.58149	2.76594	-58.8780	-46.7025	-19.086	11	.000	
Pair 6	SENIN - MINGGU	-5.44638	9.86369	2.84740	-60.7309	-48.1967	-19.128	11	.000	
Pair 7	SELASA - RABU	3.1999	7.39396	2.13445	-1.4980	7.8978	1.499	11	.162	
Pair 8	SELASA - KAMIS	5.0001	13.64971	3.94033	-3.6725	13.6727	1.269	11	.231	
Pair 9	SELASA - JUMAT	3.9362	8.74054	2.52318	-1.6173	9.4896	1.560	11	.147	
Pair 10	SELASA - SABTU	-48.4861	7.71092	2.22595	-53.3854	-43.5868	-21.782	11	.000	
Pair 11	SELASA - MINGGU	-50.1597	8.42146	2.43107	-55.5104	-44.8089	-20.633	11	.000	
Pair 12	RABU - KAMIS	1.8002	13.36003	3.85671	-6.6884	10.2887	.467	11	.650	
Pair 13	RABU - JUMAT	.7363	12.16285	3.51111	-6.9917	8.4642	.210	11	.838	
Pair 14	RABU - SABTU	-51.6860	7.98918	2.30628	-56.7621	-46.6099	-22.411	11	.000	
Pair 15	RABU - MINGGU	-53.3596	9.88587	2.85381	-59.6408	-47.0784	-18.698	11	.000	
Pair 16	KAMIS - JUMAT	-1.0639	9.37705	2.70692	-7.0218	4.8940	-.393	11	.702	
Pair 17	KAMIS - SABTU	-53.4862	10.66580	3.07895	-60.2629	-46.7094	-17.372	11	.000	
Pair 18	KAMIS - MINGGU	-55.1597	8.49510	2.45232	-60.5573	-49.7622	-22.493	11	.000	
Pair 19	JUMAT - SABTU	-52.4223	8.39565	2.42362	-57.7566	-47.0879	-21.630	11	.000	
Pair 20	JUMAT - MINGGU	-54.0958	7.34837	2.12129	-58.7648	-49.4269	-25.501	11	.000	
Pair 21	SABTU - MINGGU	-1.6736	5.74905	1.65961	-5.3264	1.9792	-1.008	11	.335	



## Kereta Api Turangga Rute Bandung – Surabaya

## Paired Samples Test

	Paired Differences							t	df	Sig. (2-tailed)
	Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference		Upper	Lower			
				Upper	Lower					
Pair 1	SENIN - SELASA	.3637	7.52400	2.17199	-4.4168	5.1443	.167	11	.870	
Pair 2	SENIN - RABU	-1.7014	9.14205	2.63908	-7.5100	4.1072	-.645	11	.532	
Pair 3	SENIN - KAMIS	-3.0113	8.11319	2.34208	-8.1661	2.1436	-1.286	11	.225	
Pair 4	SENIN - JUMAT	-47.6488	9.34967	2.69902	-53.5892	-41.7083	-17.654	11	.000	
Pair 5	SENIN - SABTU	-48.4570	7.10270	2.05037	-52.9698	-43.9442	-23.633	11	.000	
Pair 6	SENIN - MINGGU	-48.4126	4.29193	1.23897	-51.1395	-45.6856	-39.075	11	.000	
Pair 7	SELASA - RABU	-2.0652	8.38880	2.42164	-7.3952	3.2648	-.853	11	.412	
Pair 8	SELASA - KAMIS	-3.3750	6.18952	1.78676	-7.3076	.5576	-1.889	11	.086	
Pair 9	SELASA - JUMAT	-48.0125	7.85334	2.26706	-53.0023	-43.0227	-21.178	11	.000	
Pair 10	SELASA - SABTU	-48.8208	5.27102	1.52161	-52.1698	-45.4717	-32.085	11	.000	
Pair 11	SELASA - MINGGU	-48.7763	7.72372	2.22965	-53.6837	-43.8689	-21.876	11	.000	
Pair 12	RABU - KAMIS	-1.3098	10.02026	2.89260	-7.6764	5.0567	-.453	11	.659	
Pair 13	RABU - JUMAT	-45.9473	10.91848	3.15189	-52.8846	-39.0101	-14.578	11	.000	
Pair 14	RABU - SABTU	-46.7556	9.27779	2.67827	-52.6504	-40.8608	-17.457	11	.000	
Pair 15	RABU - MINGGU	-46.7112	9.90312	2.85878	-53.0033	-40.4190	-16.340	11	.000	
Pair 16	KAMIS - JUMAT	-44.6375	8.90073	2.56942	-50.2928	-38.9822	-17.373	11	.000	
Pair 17	KAMIS - SABTU	-45.4458	4.82801	1.39373	-48.5133	-42.3782	-32.607	11	.000	
Pair 18	KAMIS - MINGGU	-45.4013	8.48183	2.44849	-50.7904	-40.0122	-18.543	11	.000	
Pair 19	JUMAT - SABTU	-.8082	6.53549	1.88663	-4.9607	3.3442	-.428	11	.677	
Pair 20	JUMAT - MINGGU	-.7638	8.17102	2.35877	-5.9555	4.4278	-.324	11	.752	
Pair 21	SABTU - MINGGU	.0444	6.06593	1.75108	-3.8097	3.8985	.025	11	.980	

### Kereta Api Turangga Rute Surabaya – Bandung

**Paired Samples Test**

	Paired Differences							t	df	Sig. (2-tailed)
	Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference		Upper	Lower			
				Upper	Lower					
Pair 1	SENIN - SELASA	-2875	11.12925	3.21274	-7.3587	6.7837	-089	11	.930	
Pair 2	SENIN - RABU	7222	10.46150	3.01998	-5.9247	7.3692	.239	11	.815	
Pair 3	SENIN - KAMIS	-3763	8.33775	2.40690	-5.6739	4.9212	-.156	11	.879	
Pair 4	SENIN - JUMAT	-46.6222	10.64783	3.07376	-53.3875	-39.8569	-15.168	11	.000	
Pair 5	SENIN - SABTU	-44.7027	8.50784	2.45600	-50.1084	-39.2971	-18.201	11	.000	
Pair 6	SENIN - MINGGU	-44.8973	9.05717	2.61458	-50.6519	-39.1426	-17.172	11	.000	
Pair 7	SELASA - RABU	1.0098	6.55941	1.89354	-3.1579	5.1774	.533	11	.604	
Pair 8	SELASA - KAMIS	-.0888	7.87490	2.27329	-5.0923	4.9146	-.039	11	.970	
Pair 9	SELASA - JUMAT	-46.3347	10.54832	3.04504	-53.0368	-39.6326	-15.216	11	.000	
Pair 10	SELASA - SABTU	-44.4152	7.56602	2.18412	-49.2225	-39.6080	-20.336	11	.000	
Pair 11	SELASA - MINGGU	-44.6097	11.51943	3.32537	-51.9288	-37.2907	-13.415	11	.000	
Pair 12	RABU - KAMIS	-1.0986	6.12170	1.76718	-4.9881	2.7910	-.622	11	.547	
Pair 13	RABU - JUMAT	-47.3444	9.16995	2.64714	-53.1707	-41.5181	-17.885	11	.000	
Pair 14	RABU - SABTU	-45.4250	7.00724	2.02282	-49.8772	-40.9728	-22.456	11	.000	
Pair 15	RABU - MINGGU	-45.6195	8.00660	2.31131	-50.7066	-40.5324	-19.738	11	.000	
Pair 16	KAMIS - JUMAT	-46.2458	9.61485	2.77557	-52.3548	-40.1368	-16.662	11	.000	
Pair 17	KAMIS - SABTU	-44.3264	6.60887	1.90782	-48.5255	-40.1273	-23.234	11	.000	
Pair 18	KAMIS - MINGGU	-44.5209	7.26318	2.09670	-49.1357	-39.9061	-21.234	11	.000	
Pair 19	JUMAT - SABTU	1.9194	6.04737	1.74573	-1.9229	5.7617	1.099	11	.295	
Pair 20	JUMAT - MINGGU	1.7249	6.77806	1.95666	-2.5817	6.0315	.882	11	.397	
Pair 21	SABTU - MINGGU	-.1945	5.87778	1.69677	-3.9291	3.5401	-.115	11	.911	

### Kereta Api Mutiara Selatan Rute Bandung – Surabaya

#### Paired Samples Test

	Paired Differences										df	Sig. (2-tailed)
	Mean	Std. Deviation	Std. Error		95% Confidence Interval of the Difference		t	Sig. (2-tailed)				
			Mean	Lower	Upper							
Pair 1	SENIN - SELASA	-3.3528	7.39564	2.13494	-8.0517	1.3462	-1.570	.145				
Pair 2	SENIN - RABU	-3.3319	6.05814	1.74883	-7.1811	.5172	-1.905	.083				
Pair 3	SENIN - KAMIS	-1.8223	6.20501	1.79123	-5.7647	2.1202	-1.017	.331				
Pair 4	SENIN - JUMAT	-64.4819	15.27037	4.40818	-74.1842	-54.7796	-14.628	.000				
Pair 5	SENIN - SABTU	-69.3417	6.99380	2.01894	-73.7853	-64.8980	-34.346	.000				
Pair 6	SENIN - MINGGU	-66.5167	6.02227	1.73848	-70.3430	-62.6903	-38.261	.000				
Pair 7	SELASA - RABU	.0208	8.61894	2.48807	-5.4554	5.4970	.008	.993				
Pair 8	SELASA - KAMIS	1.5305	9.68954	2.79713	-4.6259	7.6869	.547	.595				
Pair 9	SELASA - JUMAT	-61.1292	15.52031	4.48033	-70.9903	-51.2680	-13.644	.000				
Pair 10	SELASA - SABTU	-65.9889	8.25803	2.38389	-71.2358	-60.7420	-27.681	.000				
Pair 11	SELASA - MINGGU	-63.1639	7.05931	2.03785	-67.6492	-58.6786	-30.995	.000				
Pair 12	RABU - KAMIS	1.5097	7.60823	2.19631	-3.3244	6.3437	.687	.506				
Pair 13	RABU - JUMAT	-61.1500	18.21351	5.25779	-72.7223	-49.5777	-11.630	.000				
Pair 14	RABU - SABTU	-66.0098	6.38230	1.84241	-70.0649	-61.9546	-35.828	.000				
Pair 15	RABU - MINGGU	-63.1847	7.00455	2.02204	-67.6352	-58.7343	-31.248	.000				
Pair 16	KAMIS - JUMAT	-62.6597	17.51352	5.05572	-73.7872	-51.5321	-12.394	.000				
Pair 17	KAMIS - SABTU	-67.5194	7.07414	2.04213	-72.0141	-63.0247	-33.063	.000				
Pair 18	KAMIS - MINGGU	-64.6944	7.74191	2.23490	-69.6134	-59.7754	-28.947	.000				
Pair 19	JUMAT - SABTU	-4.8598	14.03919	4.05276	-13.7798	4.0603	-1.199	.256				
Pair 20	JUMAT - MINGGU	-2.0348	12.54312	3.62089	-10.0043	5.9348	-.562	.585				
Pair 21	SABTU - MINGGU	2.8250	4.52824	1.30719	-.0521	5.7021	2.161	.054				

### Kereta Api Mutiara Selatan Rute Surabaya – Bandung

#### Paired Samples Test

	Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference		t	df	Sig. (2-tailed)
				Paired Differences				
				Lower	Upper			
Pair 1	SENIN - SELASA	-2.4069	6.82180	1.96929	-6.7413	1.9275	11	.247
Pair 2	SENIN - RABU	-2.9735	9.05939	2.61522	-8.7296	2.7826	11	.280
Pair 3	SENIN - KAMIS	-1.1028	9.00794	2.60037	-6.8261	4.6206	11	.680
Pair 4	SENIN - JUMAT	-73.2263	7.33505	2.11745	-77.8868	-68.5659	11	.000
Pair 5	SENIN - SABTU	-65.0027	16.56959	4.78323	-75.5306	-54.4749	11	.000
Pair 6	SENIN - MINGGU	-57.7110	43.69596	12.61394	-85.4741	-29.9479	11	.001
Pair 7	SELASA - RABU	-.5666	9.85255	2.84419	-6.8266	5.6934	11	.846
Pair 8	SELASA - KAMIS	1.3042	9.29461	2.68312	-4.6013	7.2097	11	.636
Pair 9	SELASA - JUMAT	-70.8194	11.99171	3.46171	-78.4386	-63.2002	11	.000
Pair 10	SELASA - SABTU	-62.5958	16.37700	4.72763	-73.0013	-52.1904	11	.000
Pair 11	SELASA - MINGGU	-55.3041	41.58325	12.00405	-81.7248	-28.8833	11	.001
Pair 12	RABU - KAMIS	1.8708	11.57096	3.34025	-5.4811	9.2226	11	.587
Pair 13	RABU - JUMAT	-70.2528	10.17780	2.93808	-76.7195	-63.7862	11	.000
Pair 14	RABU - SABTU	-62.0292	18.02464	5.20326	-73.4816	-50.5769	11	.000
Pair 15	RABU - MINGGU	-54.7375	42.93862	12.39531	-82.0194	-27.4556	11	.001
Pair 16	KAMIS - JUMAT	-72.1236	14.63721	4.22540	-81.4236	-62.8235	11	.000
Pair 17	KAMIS - SABTU	-63.9000	17.78087	5.13289	-75.1974	-52.6026	11	.000
Pair 18	KAMIS - MINGGU	-56.6083	41.98815	12.12093	-83.2862	-29.9303	11	.001
Pair 19	JUMAT - SABTU	8.2236	18.89486	5.45448	-3.7816	20.2288	11	.160
Pair 20	JUMAT - MINGGU	15.5153	47.68081	13.76426	-14.7796	45.8103	11	.284
Pair 21	SABTU - MINGGU	7.2917	48.73469	14.06849	-23.6728	38.2563	11	.615

### Kereta Api Pasundan Rute Bandung – Surabaya

Paired Samples Test

	Paired Differences							t	df	Sig. (2-tailed)
	Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference		Upper	Lower			
				Upper	Lower					
Pair 1	18.3471	49.48695	14.28565	-13.0954	49.7896	1.284	11	.225		
Pair 2	-2.3682	12.86114	3.71269	-10.5397	5.8034	-.638	11	.537		
Pair 3	2.3555	16.97244	4.89952	-8.4283	13.1393	.481	11	.640		
Pair 4	2.3194	5.80899	1.67691	-1.3714	6.0103	1.383	11	.194		
Pair 5	-153.1432	7.61762	2.19902	-157.9832	-148.3032	-69.642	11	.000		
Pair 6	-158.5195	5.54186	1.59980	-162.0406	-154.9984	-99.087	11	.000		
Pair 7	-20.7152	48.80102	14.08764	-51.7219	10.2914	-1.470	11	.169		
Pair 8	-15.9916	53.19790	15.35691	-49.7919	17.8088	-1.041	11	.320		
Pair 9	-16.0277	49.52121	14.29554	-47.4919	15.4366	-1.121	11	.286		
Pair 10	-171.4902	50.18233	14.48639	-203.3746	-139.6059	-11.838	11	.000		
Pair 11	-176.8666	52.47838	15.14920	-210.2098	-143.5234	-11.675	11	.000		
Pair 12	4.7237	19.60360	5.65907	-7.7319	17.1792	.835	11	.422		
Pair 13	4.6876	12.96087	3.74148	-3.5474	12.9225	1.253	11	.236		
Pair 14	-150.7750	15.43174	4.45476	-160.5799	-140.9701	-33.846	11	.000		
Pair 15	-156.1513	13.44766	3.88200	-164.6956	-147.6071	-40.224	11	.000		
Pair 16	-.0361	16.69474	4.81936	-10.6434	10.5712	-.007	11	.994		
Pair 17	-155.4987	15.74329	4.54470	-165.5015	-145.4959	-34.215	11	.000		
Pair 18	-160.8750	15.56955	4.49454	-170.7674	-150.9826	-35.793	11	.000		
Pair 19	-155.4626	10.24196	2.95660	-161.9700	-148.9552	-52.582	11	.000		
Pair 20	-160.8389	5.42670	1.56655	-164.2869	-157.3910	-102.670	11	.000		
Pair 21	-5.3763	9.46131	2.73124	-11.3878	.6351	-1.968	11	.075		

### Kereta Api Pasundan Rute Surabaya – Bandung

#### Paired Samples Test

	Paired Differences							t	df	Sig. (2-tailed)
	Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference		Lower	Upper			
				Lower	Upper					
Pair 1	SENIN - SELASA	10.5250	52.59348	15.18243	-22.8913	43.9413	.693	11	.503	
Pair 2	SENIN - RABU	-5.8041	12.56700	3.62778	-13.7888	2.1806	-1.600	11	.138	
Pair 3	SENIN - KAMIS	-1.3277	13.39132	3.86574	-9.8362	7.1807	-.343	11	.738	
Pair 4	SENIN - JUMAT	-1.2735	7.13884	2.06081	-5.8093	3.2623	-.618	11	.549	
Pair 5	SENIN - SABTU	-168.5859	8.27845	2.38978	-173.8458	-163.3260	-70.544	11	.000	
Pair 6	SENIN - MINGGU	-170.4874	8.99518	2.59668	-176.2027	-164.7722	-66.656	11	.000	
Pair 7	SELASA - RABU	-16.3291	50.81900	14.67018	-48.6179	15.9598	-1.113	11	.289	
Pair 8	SELASA - KAMIS	-11.8528	55.49211	16.01919	-47.1108	23.4053	-.740	11	.475	
Pair 9	SELASA - JUMAT	-11.7985	54.40497	15.70536	-46.3658	22.7688	-.751	11	.468	
Pair 10	SELASA - SABTU	-179.1109	49.80667	14.37795	-210.7566	-147.4653	-12.457	11	.000	
Pair 11	SELASA - MINGGU	-181.0124	52.49608	15.15431	-214.3668	-147.6580	-11.945	11	.000	
Pair 12	RABU - KAMIS	4.4763	16.18620	4.67255	-5.8079	14.7606	.958	11	.359	
Pair 13	RABU - JUMAT	4.5306	11.54320	3.33223	-2.8036	11.8648	1.360	11	.201	
Pair 14	RABU - SABTU	-162.7818	14.40485	4.15832	-171.9342	-153.6294	-39.146	11	.000	
Pair 15	RABU - MINGGU	-164.6833	14.04311	4.05390	-173.6059	-155.7608	-40.623	11	.000	
Pair 16	KAMIS - JUMAT	.0543	10.19877	2.94413	-6.4257	6.5342	.018	11	.986	
Pair 17	KAMIS - SABTU	-167.2582	12.56943	3.62848	-175.2444	-159.2719	-46.096	11	.000	
Pair 18	KAMIS - MINGGU	-169.1597	12.57521	3.63015	-177.1496	-161.1698	-46.599	11	.000	
Pair 19	JUMAT - SABTU	-167.3124	11.12740	3.21220	-174.3824	-160.2424	-52.087	11	.000	
Pair 20	JUMAT - MINGGU	-169.2139	6.99425	2.01907	-173.6579	-164.7700	-83.808	11	.000	
Pair 21	SABTU - MINGGU	-1.9015	9.01379	2.60206	-7.6286	3.8256	-.731	11	.480	

**LAMPIRAN 4**  
**OUTPUT PERAMALAN DENGAN**  
**WINQSB**

Forecast Result for Argo Willis BD-SB hari Senin Jumat																			
3/15/2011	Actual	Forecast by SA	Forecast by 1-MA	Forecast by 1-WMA	Forecast by 1-MAT	Forecast by SES	Forecast by SEST	Forecast by DES	Forecast by DEST	Forecast by AES	Forecast by LR	Forecast by HWA	Forecast by HWM	Forecast Error	CFE	IMAD	MSE	MAPE (%)	Tracking Signal
1	175.1	175.133	175.133	175.133	175.133	175.133	175.133	175.133	175.133	175.133	176.9123	175.133	175.133	2.15001	2.2	2.15	4.62	1.212755	1
2	177.3	175.133	177.283	177.283	177.283	175.133	175.133	175.133	176.165	175.133	177.967	175.133	175.9943	2.8057	5	2.48	6.25	1.390968	2
3	178.8	176.208	177.283	177.283	177.283	175.133	175.133	175.133	176.1865	175.133	179.0216	175.133	177.2983	3.55173	8.5	2.84	8.37	1.581948	3
4	180.9	177.072	178.8	178.8	178.8	175.133	175.133	175.133	177.5526	175.133	180.0763	175.133	179.1309	4.55693	13	3.27	11.5	1.806644	4
5	183.7	178.0165	180.85	180.85	180.85	175.133	175.133	175.133	179.4115	175.133	181.1309	175.133	181.671	2.05902	15	3.02	10	1.669447	5
6	183.7	179.1518	183.693	183.693	183.693	175.133	175.133	175.133	181.6071	175.133	182.1856	175.133	183.2402	0.54022	16	2.61	8.4	1.440104	6
7	184.1	179.9153	183.733	183.733	183.733	175.133	175.133	175.133	183.5087	175.133	183.2402	175.133	183.5928	-0.39548	15	2.29	7.22	1.264966	6.65523
8	184.7	180.5179	184.133	184.133	184.133	175.133	175.133	175.133	184.2949	175.133	184.2949	175.133	185.0755	-7.86154	7.4	2.99	14	1.657784	2.47705
9	178.4	181.0381	184.68	184.68	184.68	175.133	175.133	175.133	184.1928	175.133	185.3495	175.133	186.2285	7.30257	15	3.47	18.4	1.896938	4.23987
10	186.9	181.8332	191.66	191.66	191.66	175.133	175.133	175.133	186.1712	175.133	186.4042	175.133	187.9034	-1.01338	14	3.22	16.7	1.761467	4.24852
11	186.9	181.8332	191.66	191.66	191.66	175.133	175.133	175.133	186.9536	175.133	188.1881	175.133	188.5135	188.7291	12	3.06	15.3	1.669086	4.02274
12	187.3	182.2929	186.89	186.89	186.89	175.133	175.133	175.133	188.6854	175.133	189.5681	175.133	189.3167						
13		182.7129	187.333	187.333	187.333	175.133	175.133	175.133	189.5439	175.133	190.6228	175.133	190.3467						
14		182.7129	187.333	187.333	187.333	175.133	175.133	175.133	190.4025	175.133	191.6774	175.133	191.3767						
15		182.7129	187.333	187.333	187.333	175.133	175.133	175.133	191.261	175.133	192.7321	175.133	192.4067						
16		182.7129	187.333	187.333	187.333	175.133	175.133	175.133	192.1195	175.133	193.7867	175.133	193.4367						
17		182.7129	187.333	187.333	187.333	175.133	175.133	175.133	192.978	175.133	194.8414	175.133	194.4666						
18		182.7129	187.333	187.333	187.333	175.133	175.133	175.133	193.8365	175.133	195.8961	175.133	195.4966						
19		182.7129	187.333	187.333	187.333	175.133	175.133	175.133	194.6951	175.133	196.9507	175.133	196.5266						
20		182.7129	187.333	187.333	187.333	175.133	175.133	175.133	195.5536	175.133	198.0054	175.133	197.5566						
21		182.7129	187.333	187.333	187.333	175.133	175.133	175.133	196.4121	175.133	199.06	175.133	198.5866						
22		182.7129	187.333	187.333	187.333	175.133	175.133	175.133	197.2706	175.133	200.1147	175.133	199.6166						
23		182.7129	187.333	187.333	187.333	175.133	175.133	175.133	198.1292	175.133	201.1693	175.133	200.6466						
24		182.7129	187.333	187.333	187.333	175.133	175.133	175.133											
CFE	45.50194	12.2	12.2	12.2	12.2	90.95905	90.95905	22.47566	14.90462	90.95905	1.53E-04	90.95905	12.29962						
IMAD	4.622197	3.12418	3.12418	3.12418	3.12418	8.269004	8.269004	3.102482	2.930721	8.269004	1.902807	8.269004	3.05752						
MSE	26.4784	23.5615	23.5615	23.5615	23.5615	85.52731	85.52731	17.1719	15.69758	85.52731	7.690173	85.52731	15.33365						
MAPE	2.497267	1.685584	1.685584	1.685584	1.685584	4.460208	4.460208	1.684946	1.596514	4.460208	1.039616	4.460208	1.669086						
TrkSignal	9.844224	3.905024	3.905024	3.905024	3.905024	11	11	7.244413	5.085649	11	8.02E-05	11	4.022744						
R-square											0.632843								

$c=1$   
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 $\beta=0.27$   
 $\gamma=0$   
 $F(0)=175.133$   
 $T(0)=0$   
 $S(1)=1$

$c=1$   
 $\alpha=0$   
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 $\gamma=0$   
 $F(0)=175.133$   
 $T(0)=0$   
 $S(1)=0$

$\alpha=0.24$   
 $\beta=0.133$   
 $\gamma=0$   
 $F(0)=175.133$   
 $T(0)=0$

$\alpha=0.7$   
 $\beta=0.133$   
 $\gamma=0$   
 $F(0)=175.133$   
 $T(0)=0$

$\alpha=0$   
 $\beta=0$   
 $\gamma=0$   
 $F(0)=175.133$   
 $T(0)=0$

$\alpha=0.24$   
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 $\gamma=0$   
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$\alpha=0.7$   
 $\beta=0.133$   
 $\gamma=0$   
 $F(0)=175.133$   
 $T(0)=0$

$\alpha=0$   
 $\beta=0$   
 $\gamma=0$   
 $F(0)=175.133$   
 $T(0)=0$

$\alpha=0.24$   
 $\beta=0.133$   
 $\gamma=0$   
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 $T(0)=0$

$\alpha=0.7$   
 $\beta=0.133$   
 $\gamma=0$   
 $F(0)=175.133$   
 $T(0)=0$

$\alpha=0$   
 $\beta=0$   
 $\gamma=0$   
 $F(0)=175.133$   
 $T(0)=0$



Forecast Result for Argo Willis BD-SB hari Sabtu - Minggu																		
3/15/2011	Actual Data	Forecast by 1-WMA	Forecast by 1-WMA	Forecast by 1-MAT	Forecast by SES	Forecast by SEST	Forecast by DES	Forecast by DEST	Forecast by AES	Forecast by LR	Forecast by HWA	Forecast by HWM	Forecast Error	CFE	MAD	MSE	MAPE (%)	Tracking Signal
1	232	232	232	232	232	232	232	232	232	233.1955	232	232	-0.5	0.5	0.25	0.2159827	-1	
2	231.5	231.5	231.5	231.5	231.975	231.975	231.975	231.98	232	233.1676	232	232	-2.475204	-2.975204	1.487602	3.188318	0.6472516	-2
3	229.5	231.75	231.5	231.5	231.975	231.975	231.975	231.98	232	233.1396	231.9751	231.9752	8.147659	5.172455	3.707621	24.25366	1.56312	1.395087
4	240	231	229.5	229.5	231.8513	231.8513	231.9341	231.8806	232	233.1116	231.8513	231.8523	1.994141	7.166595	3.279251	19.1844	1.385162	2.185437
5	234.25	233.25	240	240	232.2587	232.2587	232.0508	232.042	232	233.0836	232.2587	232.2595	0.3941803	7.560776	2.702237	15.37859	1.1432001	2.792969
6	232.75	233.333	234.25	234.25	232.3583	232.3583	232.1801	232.2881	232	233.0557	232.3583	232.3588	1.373184	8.93396	2.480728	13.12977	1.049577	3.601346
7	233.75	233.333	232.75	232.75	232.3779	232.3779	232.287	232.3094	232	233.0277	232.3779	232.3784	0.5535583	9.487518	2.209418	11.29786	0.9335777	4.301914
8	233	233.3929	233.75	233.75	232.4465	232.4465	232.3947	232.3701	232	232.9997	232.4468	232.4464	0.2743073	9.761826	1.964029	9.895034	0.8316123	4.970305
9	232.75	233.3438	233	233	232.4741	232.4741	232.4862	232.399	232	232.9717	232.4788	232.4757	1.00882	10.77065	1.857895	8.908666	0.7872157	5.797231
10	233.5	233.2778	232.75	232.75	232.4879	232.4879	232.5591	232.4169	232	232.9438	232.4952	232.4942	-2.543167	8.227478	1.926422	8.664569	0.8190666	4.270859
11	230	233.3	233.5	233.5	232.5385	232.5385	232.6314	232.642	232	232.9158	232.5431	232.5432	1.080811	9.308289	1.849548	7.983076	0.7866854	5.032736
12	233.5	233	230	230	232.4116	232.4116	232.6333	232.3701	232	232.8878	232.4247	232.4247	0.2743073	9.761826	1.964029	9.895034	0.8316123	4.970305
13	233.0417	233.5	233.5	233.5	232.466	232.466	232.6517	232.4188	232	232.8598	232.4806	232.4745	232.4745					
14	233.0417	233.5	233.5	233.5	232.466	232.466	232.6517	232.4188	232	232.8598	232.4806	232.4745	232.4745					
15	233.0417	233.5	233.5	233.5	232.466	232.466	232.6517	232.4188	232	232.8598	232.4806	232.4745	232.4745					
16	233.0417	233.5	233.5	233.5	232.466	232.466	232.6517	232.4188	232	232.8598	232.4806	232.4745	232.4745					
17	233.0417	233.5	233.5	233.5	232.466	232.466	232.6517	232.4188	232	232.8598	232.4806	232.4745	232.4745					
18	233.0417	233.5	233.5	233.5	232.466	232.466	232.6517	232.4188	232	232.8598	232.4806	232.4745	232.4745					
19	233.0417	233.5	233.5	233.5	232.466	232.466	232.6517	232.4188	232	232.8598	232.4806	232.4745	232.4745					
20	233.0417	233.5	233.5	233.5	232.466	232.466	232.6517	232.4188	232	232.8598	232.4806	232.4745	232.4745					
21	233.0417	233.5	233.5	233.5	232.466	232.466	232.6517	232.4188	232	232.8598	232.4806	232.4745	232.4745					
22	233.0417	233.5	233.5	233.5	232.466	232.466	232.6517	232.4188	232	232.8598	232.4806	232.4745	232.4745					
23	233.0417	233.5	233.5	233.5	232.466	232.466	232.6517	232.4188	232	232.8598	232.4806	232.4745	232.4745					
24	233.0417	233.5	233.5	233.5	232.466	232.466	232.6517	232.4188	232	232.8598	232.4806	232.4745	232.4745					
CFE	3.402298	1.5	1.5	1.5	9.320267	9.320267	9.35073	9.81798	12.5	-1.07E-04	9.286057	9.308289						
MAD	1.715955	2.727273	2.727273	2.727273	1.849758	1.849758	1.872388	1.887356	2.045455	1.657697	1.848407	1.849548						
MSE	9.061127	16.04545	16.04545	16.04545	7.983156	7.983156	7.982508	7.985583	8.113636	6.343099	7.983101	7.983076						
MAPE	0.7290975	1.160048	1.160048	1.160048	0.7867714	0.7867714	0.7966114	0.8007374	0.8705299	0.7077881	0.7861984	0.7866854						
Trk.Signal	1.982743	0.55	0.55	0.55	5.038642	5.038642	4.995265	5.215484	6.111111	-6.44E-05	5.023817	5.032736						
R-square	0.1079565	m=1	m=1	m=1	0.1127369	0.1127369	0.1156475	0.1221305	0.1892807	0.001468094	0.112138	0.112524						

Alpha=0.05 Alpha=0.05 Alpha=0.14 Alpha=0.02 Alpha=0  
 F(0)=232 F(0)=232 F(0)=232 F(0)=232 F(0)=232  
 Beta=0 Beta=0 Beta=232 Beta=232  
 T(0)=0 T(0)=0 T(0)=0 T(0)=0 T(0)=0  
 W(1)=1 W(1)=1  
 Y-intercept=233.2235 c=1  
 Slope=-0.0280  
 Alpha=0.03 Alpha=0.02  
 Beta=0.01 Beta=0.01  
 Gamma=0.02 Gamma=0.03  
 F(0)=232 F(0)=232  
 T(0)=0 T(0)=0  
 S(1)=0 S(1)=1

Forecast Result for Algo. Wilks SB-BD hari Senin - Jumat																				
3/15/2011 Month	Actual Data	Forecast by SA	Forecast by 1-MA	Forecast by 1-WMA	Forecast by 1-MAT	Forecast by SES	Forecast by SEST	Forecast by DES	Forecast by DEST	Forecast by AES	Forecast by LR	Forecast by HWA	Forecast by HWM	Forecast Error	CFE	MAD	MSE	MAPE (%)	Tracking Signal	
1	168.4																			
2	184.62	168.4	168.4	168.4	168.4	168.4	168.4	168.4	168.4	168.4	175.7108	168.4	168.4	16.21701	16.2	16.22	263	8.784137	1	
3	178.1	176.5085	184.617	184.617	184.617	176.3463	174.8803	175.4641	174.8868	168.4	177.3264	174.8609	174.8978	3.202255	19.4	9.71	136.6	5.291073	2	
4	175.21	177.039	178.1	178.1	178.1	177.2056	176.8091	177.4289	176.8208	168.4	178.1342	176.813	176.8437	-1.63373	17.8	7.018	91.97	3.838196	2.534396	
5	183.42	176.5818	175.21	175.21	175.21	176.2278	176.9398	176.6895	176.9537	168.4	178.942	176.9682	176.9829	6.434067	24.2	6.872	79.33	3.755619	3.52451	
6	177.78	177.9488	183.417	183.417	183.417	179.7505	180.2344	179.5345	180.2518	168.4	179.7498	180.2658	180.2882	-2.50516	21.7	5.998	64.72	3.286317	3.620013	
7	174	177.9212	177.783	177.783	177.783	178.7864	180.2177	179.1004	180.2356	168.4	180.5576	180.2682	180.2746	-6.2746	15.4	6.044	60.49	3.339613	2.554376	
8	185.56	177.361	174	174	174	176.4411	178.5989	176.8285	178.6139	168.4	181.3654	178.6612	178.6483	6.911667	22.4	6.168	58.68	3.394634	3.623579	
9	186.6	178.3859	185.56	185.56	185.56	180.9093	182.0001	180.3693	182.0155	168.4	182.1732	182.0441	182.0492	4.550827	26.9	5.966	53.93	3.275156	4.509153	
10	182.53	179.2985	186.6	186.6	186.6	183.6978	184.7335	183.4927	184.7503	168.4	182.981	184.7752	184.7868	-2.25681	24.6	5.554	48.5	3.048628	4.437429	
11	183.76	179.6217	182.53	182.53	182.53	183.1256	184.9303	183.4344	184.9465	168.4	183.988	184.9825	184.9827	-1.22272	23.4	5.121	43.8	2.810304	4.573981	
12	181.87	179.9979	183.76	183.76	183.76	183.4364	185.4528	183.5695	185.4675	168.4	184.5966	185.5057	185.5007	-3.6337	19.8	4.986	41.02	2.736458	3.969189	
13		180.1537	181.867	181.867	181.867	182.6674	184.9637	182.8435	184.9754	168.4	185.4044	185.0164	185.0026							
14		180.1537	181.867	181.867	181.867	182.6674	185.7655	182.8435	185.7794	168.4	186.2122	185.8283	185.812							
15		180.1537	181.867	181.867	181.867	182.6674	186.5673	182.8435	186.5835	168.4	187.02	186.6402	186.6213							
16		180.1537	181.867	181.867	181.867	182.6674	187.3691	182.8435	187.3876	168.4	187.8278	187.4521	187.4306							
17		180.1537	181.867	181.867	181.867	182.6674	188.1709	182.8435	188.1917	168.4	188.6356	188.264	188.24							
18		180.1537	181.867	181.867	181.867	182.6674	188.9726	182.8435	188.9958	168.4	189.4434	189.0759	189.0493							
19		180.1537	181.867	181.867	181.867	182.6674	189.7744	182.8435	189.7998	168.4	190.2512	189.8878	189.8586							
20		180.1537	181.867	181.867	181.867	182.6674	190.5762	182.8435	190.6039	168.4	191.059	190.6996	190.668							
21		180.1537	181.867	181.867	181.867	182.6674	191.378	182.8435	191.408	168.4	191.8668	191.5116	191.4773							
22		180.1537	181.867	181.867	181.867	182.6674	192.1798	182.8435	192.2121	168.4	192.6746	192.3234	192.2866							
23		180.1537	181.867	181.867	181.867	182.6674	192.9816	182.8435	193.0161	168.4	193.4824	193.1353	193.0959							
24		180.1537	181.867	181.867	181.867	182.6674	193.7834	182.8435	193.8202	168.4	194.2902	193.9472	193.9053							
CFE		44.37982	13.46701	13.46701	13.46701	29.11722	20.24704	29.13206	20.10164	141.0441	-1.07E-04	19.89937	19.78912							
MAD		5.110157	5.731001	5.731001	5.731001	4.735515	4.972975	4.782206	4.976961	12.82219	3.661432	4.983638	4.983684							
MSE		45.15913	53.05447	53.05447	53.05447	42.57119	41.02157	42.5633	41.02084	181.0021	19.99363	41.02	41.02106							
MAPE		2.787789	3.14887	3.14887	3.14887	2.590618	2.72914	2.618201	2.731436	7.027892	2.045213	2.735276	2.736458							
Trk.Signal		8.684629	2.349853	2.349853	2.349853	6.148691	4.071414	6.091763	4.038939	11	-2.92E-05	3.99294	3.969189							
R-square											0.280023									

c=1  
 Alpha=0.12 Alpha=0.34  
 Beta=0.34 Beta=0.12  
 Gamma=0.27 Gamma=0.03  
 F(0)=168.4 F(0)=168.4  
 T(0)=0 T(0)=0  
 S(1)=1 S(1)=1  
 Y-intercept=174.9030 c=1  
 Alpha=0.12 Alpha=0.34  
 Beta=0.34 Beta=0.12  
 Gamma=0.27 Gamma=0.03  
 F(0)=168.4 F(0)=168.4  
 T(0)=0 T(0)=0  
 S(1)=1 S(1)=1

Forecast Result for Argo Willis SB-BD hari Sabtu, Minggu		Forecast by												Tracking Signal			
3/15/2011	Actual Data	1-MA	1-WMA	1-MAT	SEST	DES	DEST	AES	LR	HWA	HWM	Forecast Error	CFE	MAD	MSE	MAPE (%)	Tracking Signal
1	230.83	230.833	230.833	230.833	230.833	230.833	230.833	230.833	230.833	230.833	230.833	230.833	1.5	1.5	2.25	0.6456251	1
2	232.33	230.833	232.333	231.433	231.1613	231.3376	231.403	230.833	231.1613	231.1613	231.1613	-1.03633	0.46	1.268	1.662	0.5479795	0.365622
3	230.13	231.583	232.333	230.125	230.9098	231.0187	230.9715	230.833	231.0075	231.0978	231.0978	-0.43082	0.03	0.989	1.17	0.4275763	0.032216
4	230.67	231.097	230.125	230.667	230.8127	231.054	230.8638	230.833	232.0704	231.054	231.054	-0.929	-0.9	0.974	1.093	0.4216058	-0.92004
5	230.13	230.9895	230.125	230.125	230.5376	230.5714	230.5801	230.833	232.5332	230.8542	230.8542	1.645782	0.75	1.108	1.416	0.4788573	0.076329
6	232.5	230.8166	230.125	232.5	231.3226	231.1721	231.28	230.833	232.996	231.1169	231.1169	1.883133	2.63	1.238	1.771	0.5337496	2.12747
7	233	231.0972	232.5	232.5	231.9935	231.6107	231.893	230.833	233.4588	231.6107	231.6107	3.564285	6.2	1.57	3.333	0.6740123	3.947401
8	235.18	231.369	233	233	233.2661	232.6776	233.2917	230.833	233.9217	232.6776	232.6776	4.072357	10.3	1.883	4.989	0.8047743	5.454579
9	236.75	231.8448	235.175	235.175	233.175	234.5611	234.8232	230.833	234.8232	234.8232	234.8232	-3.74391	6.53	2.09	5.993	0.8958279	3.122975
10	230.5	232.3898	236.75	236.75	234.667	234.484	233.5226	230.833	234.8473	234.5427	234.5427	-0.04271	6.48	1.885	5.393	0.8080665	3.43945
11	234.5	232.2008	230.5	230.5	232.9975	235.244	234.0801	230.833	235.1102	235.244	235.244	1.423035	7.91	1.843	5.087	0.7892678	4.289995
12	236.67	232.4098	234.5	234.5	233.5975	235.244	233.6059	230.833	235.1102	235.244	235.244	1.423035	7.91	1.843	5.087	0.7892678	4.289995
13		232.7646	236.667	236.667	236.667	234.8253	236.2614	230.833	235.1102	235.244	235.244	1.423035	7.91	1.843	5.087	0.7892678	4.289995
14		232.7646	236.667	236.667	236.667	234.8253	237.1224	230.833	236.2614	236.2614	236.2614	1.423035	7.91	1.843	5.087	0.7892678	4.289995
15		232.7646	236.667	236.667	236.667	234.8253	237.1224	230.833	236.2614	236.2614	236.2614	1.423035	7.91	1.843	5.087	0.7892678	4.289995
16		232.7646	236.667	236.667	236.667	234.8253	237.1224	230.833	236.2614	236.2614	236.2614	1.423035	7.91	1.843	5.087	0.7892678	4.289995
17		232.7646	236.667	236.667	236.667	234.8253	237.1224	230.833	236.2614	236.2614	236.2614	1.423035	7.91	1.843	5.087	0.7892678	4.289995
18		232.7646	236.667	236.667	236.667	234.8253	237.1224	230.833	236.2614	236.2614	236.2614	1.423035	7.91	1.843	5.087	0.7892678	4.289995
19		232.7646	236.667	236.667	236.667	234.8253	237.1224	230.833	236.2614	236.2614	236.2614	1.423035	7.91	1.843	5.087	0.7892678	4.289995
20		232.7646	236.667	236.667	236.667	234.8253	237.1224	230.833	236.2614	236.2614	236.2614	1.423035	7.91	1.843	5.087	0.7892678	4.289995
21		232.7646	236.667	236.667	236.667	234.8253	237.1224	230.833	236.2614	236.2614	236.2614	1.423035	7.91	1.843	5.087	0.7892678	4.289995
22		232.7646	236.667	236.667	236.667	234.8253	237.1224	230.833	236.2614	236.2614	236.2614	1.423035	7.91	1.843	5.087	0.7892678	4.289995
23		232.7646	236.667	236.667	236.667	234.8253	237.1224	230.833	236.2614	236.2614	236.2614	1.423035	7.91	1.843	5.087	0.7892678	4.289995
24		232.7646	236.667	236.667	236.667	234.8253	237.1224	230.833	236.2614	236.2614	236.2614	1.423035	7.91	1.843	5.087	0.7892678	4.289995
CFE		15.71158	5.834015	5.834015	9.980698	9.932541	8.71994	23.17909	-1.22E-04	7.905823	7.905823						
MAD		2.27237	2.166729	2.166729	2.070638	2.0565	2.00807	2.455365	1.36175	1.842851	1.842851						
MSE		7.026442	7.324825	7.324825	5.679091	5.664446	5.428649	10.70113	3.067396	5.087215	5.087215						
MAPE		0.9701267	0.9304264	0.9304264	0.8863154	0.880209	0.8568769	1.045344	0.584991	0.7892678	0.7892678						
Trk.Signal		6.914166	2.692545	2.692545	4.820107	4.820107	4.358211	9.440182	-8.96E-05	4.289995	4.289995						
R-square		0.4132972	0.8508919	0.8508919	0.4441206	0.5309153	0.4664431	0.7707605	0.4542108	0.5309153	0.5309153						

$\alpha=0.11$   $\beta=0.99$   $\gamma=0$   $\delta=0$   $\epsilon=1$   
 $F(0)=230.833$   $F(1)=230.833$   $F(2)=230.833$   $F(3)=230.833$   $F(4)=230.833$   
 $T(0)=0$   $T(1)=0$   $T(2)=0$   $T(3)=0$   $T(4)=0$

Forecast Result for Turangga BD-SB hari Senin - Kamis																		
3/15/2011	Actual	Forecast by SA	Forecast by I-MA	Forecast by I-WMA	Forecast by I-MA	Forecast by SES	Forecast by DEST	Forecast by AES	Forecast by LR	Forecast by HWA	Forecast by HWM	Forecast Error	CFE	MAD	MSE	MAPE (%)	Tracking Signal	
1	346.83																	
2	344.38	346.833	347	346.833	346.833	346.833	346.833	346.833	346.3464	346.833	346.833	-2.45801	-2.46	2.458	6.042	0.7137591	-1	
3	353.6	345.604	344	344.38	346.5626	346.833	346.6364	346.833	346.1541	346.5626	346.5626	7.037384	4.58	4.748	27.78	1.351985	0.964547	
4	347.35	348.2693	354	353.6	347.3367	346.833	347.1895	346.833	345.9618	347.3367	347.3367	0.013275	4.59	3.17	18.52	0.9025971	1.448989	
5	343.8	348.0395	347	347.35	347.3382	346.833	347.2096	346.833	345.7694	347.3382	347.3382	-3.53818	1.05	3.262	17.02	0.9342324	0.323289	
6	343.31	347.1916	344	343.8	346.949	346.833	346.9443	346.833	345.5771	346.949	346.949	-3.63599	-2.58	3.337	16.26	0.9592035	-0.7737	
7	340.5	346.5452	343	343.31	346.549	346.833	346.6558	346.833	345.3848	346.549	346.549	-6.04901	-8.63	3.789	19.65	1.095421	-2.278	
8	344.18	345.6816	341	340.5	345.8836	345.8836	345.1955	346.833	345.1924	345.8836	345.8836	-1.70865	-10.3	3.491	17.26	1.009853	-2.96124	
9	342.88	345.4933	344	344.18	345.9957	346.833	345.9872	346.833	345.0001	345.9957	345.9957	-2.82068	-13.2	3.408	16.1	0.9864536	-3.86186	
10	343.25	345.7023	343	342.88	345.3854	346.833	345.7214	346.833	344.8078	345.3854	345.3854	-2.13538	-15.3	3.266	14.81	0.9459704	-4.68276	
11	348.33	345.0071	343	343.25	346.833	346.833	345.5018	346.833	344.6155	345.1505	345.1505	3.1745	-12.1	3.257	14.34	0.9425095	-3.72132	
12	347.38	345.3087	348	348.33	348.33	346.833	345.7019	346.833	344.4232	345.4997	345.4997	1.875275	-10.2	3.131	13.36	0.9059034	-3.27176	
13		345.4809	347	347.38	347	345.706	345.706	346.833	344.2308	345.706	345.706							
14		345.4809	347	347.38	347	345.706	345.706	346.833	344.0385	345.706	345.706							
15		345.4809	347	347.38	347	345.706	345.706	346.833	343.8462	345.706	345.706							
16		345.4809	347	347.38	347	345.706	345.706	346.833	343.6538	345.706	345.706							
17		345.4809	347	347.38	347	345.706	345.706	346.833	343.4615	345.706	345.706							
18		345.4809	347	347.38	347	345.706	345.706	346.833	343.2692	345.706	345.706							
19		345.4809	347	347.38	347	345.706	345.706	346.833	343.0769	345.706	345.706							
20		345.4809	347	347.38	347	345.706	345.706	346.833	342.8846	345.706	345.706							
21		345.4809	347	347.38	347	345.706	345.706	346.833	342.6922	345.706	345.706							
22		345.4809	347	347.38	347	345.706	345.706	346.833	342.4999	345.706	345.706							
23		345.4809	347	347.38	347	345.706	345.706	346.833	342.3076	345.706	345.706							
24		345.4809	347	347.38	347	345.706	345.706	346.833	342.1152	345.706	345.706							
CFE		-10.23758	0.54	0.542	0.54	-10.24554	-11.60251	-16.2251	-2.44E-04	-10.24557	-10.24557							
MAD		3.363451	3.29	3.2871	3.29	3.169189	3.167572	3.169189	2.631658	3.131495	3.131495							
MSE		15.32715	17.5	17.541	17.5	13.35701	13.43343	13.80789	10.38832	13.357	13.356991							
MAPE		0.9723179	0.95	0.9463	0.95	0.9059074	0.9180571	0.9180571	0.7594674	0.9059066	0.9059034							
Trk-Signal		-3.04373	0.16	0.1649	0.16	-3.271772	-3.271772	-5.119637	-9.28E-05	-3.271784	-3.271757							
R-square		0.179333	0.99	0.9852	0.99	0.1240077	0.1240077	0.1258492	0.04070386	0.1240078	0.1240055							

m=1 m=1 W(L)=1 F(0)=346.833 Beta=0 Alpha=0.11 Alpha=0.04 Alpha=0 Y-intercept=346.7310 c=1  
 F(0)=346.833 F(0)=346.833 F(0)=346.833 F(0)=346.833 F(0)=346.833 F(0)=346.833 F(0)=346.833 F(0)=346.833  
 T(0)=0 T(0)=0 T(0)=0 T(0)=0 T(0)=0 T(0)=0 T(0)=0 T(0)=0  
 Gamma=0.11 Gamma=0.11 Gamma=0.11 Gamma=0.11  
 Alpha=0 Alpha=0 Alpha=0 Alpha=0  
 Beta=0 Beta=0 Beta=0 Beta=0  
 S(1)=1 S(1)=1 S(1)=1 S(1)=1

Forecast Result for Turangga BD-SP hari Jumat - Minggu														
3/15/2011	Actual Data	Forecast by 1-MA	Forecast by 1-WMA	Forecast by 1-MAT	Forecast by SES	Forecast by SEST	Forecast by DES	Forecast by DEST	Forecast by AES	Forecast by LR	Forecast by HWA	Forecast by HWM	Forecast by Error	Tracking Signal
1	392.67													
2	386	392.667	392.667	392.667	392.667	392.667	392.667	392.667	392.667	388.7528	392.667	392.667	-6.66699	1.7272
3	392.17	389.3335	386	386	389.9335	390.1042	389.4668	390.1042	392.667	389.4549	392.667	389.9002	2.266785	-1
4	387.64	390.278	392.167	392.167	390.8492	390.5271	390.3789	390.3789	392.667	390.1661	389.9102	390.8434	-4.4	1.152608
5	392.67	389.6183	387.639	387.639	389.5331	389.4781	388.8353	389.4781	392.667	391.5794	390.8727	390.8409	-3.2019	-1.87928
6	389.92	390.228	392.667	392.667	390.818	390.5523	390.2881	390.2881	392.667	392.2861	390.8203	390.8214	3.154877	-1.16339
7	393.89	390.1762	389.917	389.917	390.4486	390.4632	389.9444	390.4632	392.667	392.9927	390.4468	390.4461	3.442932	-1.65225
8	396.3	390.7066	393.889	393.889	391.8592	391.7672	391.6508	391.7672	392.667	393.6994	391.8701	391.8749	4.425079	0.840116
9	392.83	391.4058	396.3	396.3	393.6799	393.6979	393.9227	393.9227	392.667	394.406	393.7019	393.7113	-0.87833	1.285
10	391.4	391.5643	392.833	392.833	393.3327	393.3327	393.7077	393.7077	392.667	395.1127	393.3426	393.3426	0.053162	0.7976102
11	395.08	391.7479	393.4	393.4	393.3603	393.5426	393.8052	393.5426	392.667	395.8194	393.3664	393.3689	1.714081	12.85
12	399.11	392.0511	395.083	395.083	394.0666	394.1201	394.6461	394.6461	392.667	396.526	394.0762	394.0803	3.41	0.7353386
13		392.6394	399.111	399.111	396.1348	396.1219	397.0904	397.0904	392.667	397.2327	396.1581	396.1581	5.030701	1.92
14		392.6394	399.111	399.111	396.1348	396.1348	396.1219	397.6487	392.667	397.9393	396.1581	396.1581	8.44	0.7976102
15		392.6394	399.111	399.111	396.1348	396.1348	396.1219	398.207	392.667	398.646	396.1581	396.1581	2.52	12.85
16		392.6394	399.111	399.111	396.1348	396.1348	396.1219	398.7654	392.667	399.3527	396.1581	396.1581	3.438	0.8796135
17		392.6394	399.111	399.111	396.1348	396.1348	396.1219	399.882	392.667	400.0593	396.1581	396.1581	4.425079	0.732026
18		392.6394	399.111	399.111	396.1348	396.1348	396.1219	399.3237	392.667	400.766	396.1581	396.1581	2.52	14.58
19		392.6394	399.111	399.111	396.1348	396.1348	396.1219	400.4403	392.667	401.4726	396.1581	396.1581	3.273	12.85
20		392.6394	399.111	399.111	396.1348	396.1348	396.1219	400.9986	392.667	402.1793	396.1581	396.1581	13.74	0.840116
21		392.6394	399.111	399.111	396.1348	396.1348	396.1219	401.5569	392.667	402.886	396.1581	396.1581	4.425079	0.7976102
22		392.6394	399.111	399.111	396.1348	396.1348	396.1219	402.1153	392.667	403.5926	396.1581	396.1581	2.52	12.85
23		392.6394	399.111	399.111	396.1348	396.1348	396.1219	402.6736	392.667	404.2993	396.1581	396.1581	11.42	0.7104884
24		392.6394	399.111	399.111	396.1348	396.1348	396.1219	403.2319	392.667	405.0059	396.1581	396.1581	8.44	1.92
CFE		19.22943	6.444	6.444	8.458038	8.442139	9.692993	-0.3309326		2.14E-04	8.442657	8.436005		
IMAD		3.496671	3.751629	3.751629	2.882565	2.821933	2.913064	2.687184		2.180743	2.884535	2.885384		
MSE		16.38878	17.16497	17.16497	11.91538	11.63547	12.19012	12.74191		5.72862	11.91512	11.91508		
MAPE		0.8894272	0.9574799	0.9574799	0.794612	0.7190451	0.7423514	0.6853384		0.5563058	0.7351198	0.7353386		
Trk.Signal		5.499354	1.717654	1.717654	2.934205	2.994616	3.327422	-0.1231522		9.80E-05	2.926869	2.923702		
R-square		0.3208959	0.7009445	0.7009445	0.2353182	0.2556737	0.367568	7.1064E-05		0.5095152	0.2375872	0.2385596		

m=1 Alpha=0.41 Alpha=0.62 Alpha=0.24 Alpha=0 Y-intercept=388.0461 c=1  
 F(0)=392.667 Beta=0 F(0)=392.667 F(0)=392.667 Beta=392.667 Slope=0.7067 Alpha=0.31 Alpha=0.1  
 T(0)=0 F(0)=392.667 F(0)=392.667 F(0)=0 Beta=0  
 Gamma=0.15 Gamma=0.35  
 T(0)=0 T(0)=0  
 S(1)=1 S(1)=1

Forecast Result for Turangga SB-BD Hari Senin - Kamis																			
3/15/2011 Month	Actual Data	Forecast by 1-MA	Forecast by 1-WMA	Forecast by 1-WAT	Forecast by SES	Forecast by SEST	Forecast by DES	Forecast by DEST	Forecast by AES	Forecast by LR	Forecast by HWA	Forecast by HWM	Forecast Error	CFE	MAD	MSE	MAPE (%)	Tracking Signal	
1	348.58																		
2	351	348.5833	348.5833	348.5833	348.5833	348.5833	348.5833	348.5833	348.5833	347.892	348.5833	348.5833	2.416556	2.42	2.417	5.84	0.6885061	1	
3	351.63	349.7917	351	351	348.5833	348.5833	348.5833	348.5833	348.5833	347.8483	348.5833	348.5833	3.041656	5.46	2.729	7.546	0.767673	2	
4	350.99	350.4028	351.625	351.625	348.5833	348.5833	348.5833	348.5833	348.5833	347.8045	348.5833	348.5833	2.404144	7.86	2.621	6.957	0.7461668	3	
5	342.78	350.549	350.9875	350.9875	348.5833	348.5833	348.5833	348.5833	348.5833	347.7608	348.5833	348.5833	-5.80835	2.051	3.418	13.65	0.9832521	0.60102	
6	339.98	348.9942	342.775	342.775	348.5833	348.5833	348.5833	348.5833	348.5833	347.717	348.5833	348.5833	-8.60419	-6.55	4.455	25.73	1.292761	-1.47028	
7	345.33	347.4917	339.9792	339.9792	348.5833	348.5833	348.5833	348.5833	348.5833	347.6733	348.5833	348.5833	-3.25	-9.8	4.254	23.2	1.234154	-2.30364	
8	348.06	347.1833	345.3333	345.3333	348.5833	348.5833	348.5833	348.5833	348.5833	347.6295	348.5833	348.5833	-0.52084	-10.3	3.721	19.92	1.079224	-2.77382	
9	345.13	347.0523	348.0625	348.0625	348.5833	348.5833	348.5833	348.5833	348.5833	347.5421	348.5833	348.5833	-3.39584	-17.2	3.656	18.11	1.069043	-4.69836	
10	345.19	347.0523	345.125	345.125	348.5833	348.5833	348.5833	348.5833	348.5833	347.4983	348.5833	348.5833	4.641663	-12.5	3.754	18.45	1.085447	-3.33954	
11	353.23	346.8658	345.1875	345.1875	348.5833	348.5833	348.5833	348.5833	348.5833	347.4546	348.5833	348.5833	1.875	-10.7	3.583	17.09	1.035408	-2.97449	
12	350.46	347.4439	353.225	353.225	348.5833	348.5833	348.5833	348.5833	348.5833	347.4108	348.5833	348.5833							
13		347.6952	350.4583	350.4583	348.5833	348.5833	348.5833	348.5833	348.5833	347.3671	348.5833	348.5833							
14		347.6952	350.4583	350.4583	348.5833	348.5833	348.5833	348.5833	348.5833	347.3233	348.5833	348.5833							
15		347.6952	350.4583	350.4583	348.5833	348.5833	348.5833	348.5833	348.5833	347.2796	348.5833	348.5833							
16		347.6952	350.4583	350.4583	348.5833	348.5833	348.5833	348.5833	348.5833	347.2358	348.5833	348.5833							
17		347.6952	350.4583	350.4583	348.5833	348.5833	348.5833	348.5833	348.5833	347.1921	348.5833	348.5833							
18		347.6952	350.4583	350.4583	348.5833	348.5833	348.5833	348.5833	348.5833	347.1483	348.5833	348.5833							
19		347.6952	350.4583	350.4583	348.5833	348.5833	348.5833	348.5833	348.5833	347.1046	348.5833	348.5833							
20		347.6952	350.4583	350.4583	348.5833	348.5833	348.5833	348.5833	348.5833	347.0609	348.5833	348.5833							
21		347.6952	350.4583	350.4583	348.5833	348.5833	348.5833	348.5833	348.5833	347.0171	348.5833	348.5833							
22		347.6952	350.4583	350.4583	348.5833	348.5833	348.5833	348.5833	348.5833	346.9734	348.5833	348.5833							
23		347.6952	350.4583	350.4583	348.5833	348.5833	348.5833	348.5833	348.5833	346.9296	348.5833	348.5833							
24		347.6952	350.4583	350.4583	348.5833	348.5833	348.5833	348.5833	348.5833										
CFE		-7.892883	1.875	1.875	-10.65845	-10.65845	-10.65845	-10.65845	-10.65845	-4.27E-04	-10.65845	-10.65845							
MAD		3.460705	3.325001	3.325001	3.583335	3.583335	3.583335	3.583335	3.583335	3.313136	3.583335	3.583335							
MSE		19.48945	18.08213	18.08213	17.09337	17.09337	17.09337	17.09337	17.09337	14.85722	17.09337	17.09337							
MAPE		1.000234	0.9577107	0.9577107	1.035408	1.035408	1.035408	1.035408	1.035408	0.9548468	1.035408	1.035408							
Trk-Signal		-2.180716	0.5639096	0.5639096	-2.974449	-2.974449	-2.974449	-2.974449	-2.974449	-1.29E-04	-2.974449	-2.974449							
R-square		0.1416983	0.9597678	0.9597678	0.05811941	0.05811941	0.05811941	0.05811941	0.05811941	Y-intercept=347.9795	0.05811941	0.05811941							

$\alpha=0$     $\beta=0$     $\gamma=0$     $\delta=0$     $\epsilon=1$   
 $F(0)=348.5833$     $F(1)=348.5833$     $F(2)=348.5833$     $F(3)=348.5833$     $F(4)=0$   
 $T(0)=0$     $T(1)=0$     $T(2)=0$     $T(3)=0$     $T(4)=1$

Forecast Result for Turangga SB - BD hari Jumat - Minggu																				
3/15/2011	Actual Data	Forecast by SA	Forecast by I-MA	Forecast by I-WMA	Forecast by I-MAT	Forecast by SES	Forecast by SEST	Forecast by DES	Forecast by DIEST	Forecast by AES	Forecast by LR	Forecast by HWA	Forecast by HWM	Forecast Error	CFE	MAD	MSE	MAPE (%)	Tracking Signal	
1	387.11																			
2	386.33	387.1111	387.1111	387.1111	387.1111	387.1111	387.1111	387.1111	387.1111	387.1111	388.1371	389.0425	387.1111	-0.7777	-0.78	0.778	0.605	0.2013212	-1	
3	390.25	386.7222	386.3333	386.3333	386.3333	386.6056	386.6056	386.6257	386.6911	387.1111	389.0425	386.6877	386.6877	3.562286	2.78	2.17	6.647	0.5570714	1.28317	
4	392.72	387.8922	390.25	390.25	388.9745	388.5997	388.8662	388.5662	387.1111	387.1111	390.8535	388.5725	388.5725	4.148621	6.93	2.83	10.17	0.723506	2.45253	
5	394.67	389.1042	392.7222	392.7222	391.4705	391.0056	391.3716	391.0086	387.1111	387.1111	391.7589	391.0237	391.0237	3.642639	10.6	3.033	10.94	0.723371	3.487099	
6	393.22	390.2167	394.6667	394.6667	393.527	393.474	393.5385	393.4904	387.1111	387.1111	392.6644	393.4868	393.4868	1.431946	12	2.713	9.165	0.6912157	4.42656	
7	393.22	391	394.9167	394.9167	394.4303	395.0014	394.4942	395.0377	387.1111	387.1111	393.5699	394.9926	394.9926	-1.77042	10.2	2.556	8.16	0.6510519	4.003811	
8	390.8	391.3174	393.2222	393.2222	393.6451	394.8891	393.7425	394.9326	387.1111	387.1111	394.4754	394.8637	394.8556	-4.0556	6.18	2.77	9.344	0.7062973	2.231744	
9	398.17	391.2528	390.8	390.8	391.7957	393.4029	391.8729	393.4461	387.1111	387.1111	395.3808	393.3613	393.3525	4.814178	11	3.025	11.07	0.7691459	3.634482	
10	393.47	392.021	398.1667	398.1667	398.1667	395.9368	396.4133	395.7184	396.4389	387.1111	396.2863	396.4038	396.3994	-2.93271	8.06	3.015	10.8	0.7665038	2.674211	
11	397.75	392.1656	393.4667	393.4667	393.4667	394.3312	395.5922	394.4827	395.6218	387.1111	397.1918	395.5658	395.56	2.190002	10.3	2.933	10.2	0.7449132	3.496226	
12	398	392.6732	397.75	397.75	397.75	396.5534	397.3222	396.4673	397.3422	387.1111	398.0973	397.3113	397.3078	0.692169	10.9	2.729	9.315	0.693004	4.01081	
13		393.1172	398	398	398	397.4937	398.4044	397.5114	398.4238	387.1111	399.0027	398.3943	398.391							
14		393.1172	398	398	398	397.4937	399.1681	397.5114	399.1981	387.1111	399.9082	399.1503	399.1449							
15		393.1172	398	398	398	397.4937	399.9318	397.5114	399.9724	387.1111	400.8137	399.9063	399.8988							
16		393.1172	398	398	398	397.4937	400.6955	397.5114	400.7468	387.1111	401.7191	400.6623	400.6528							
17		393.1172	398	398	398	397.4937	401.4591	397.5114	401.5211	387.1111	402.6246	401.4182	401.4067							
18		393.1172	398	398	398	397.4937	402.2228	397.5114	402.2954	387.1111	403.5301	402.1742	402.1606							
19		393.1172	398	398	398	397.4937	402.9865	397.5114	403.0697	387.1111	404.4356	402.9302	402.9146							
20		393.1172	398	398	398	397.4937	403.7502	397.5114	403.8441	387.1111	405.3411	403.6862	403.6685							
21		393.1172	398	398	398	397.4937	404.5138	397.5114	404.6184	387.1111	406.2465	404.4421	404.4224							
22		393.1172	398	398	398	397.4937	405.2775	397.5114	405.3927	387.1111	407.152	405.1981	405.1763							
23		393.1172	398	398	398	397.4937	406.0412	397.5114	406.167	387.1111	408.0575	405.9541	405.9303							
24		393.1172	398	398	398	397.4937	406.8048	397.5114	406.9413	387.1111	408.963	406.7101	406.6842							
CFE		38.81701	10.88889	10.88889	10.88889	15.97321	10.83215	16.00336	10.62155	72.07217	-2.75E-04	10.90863	10.94528							
MAD		3.76386	2.734339	2.734339	2.734339	2.779569	2.72876	2.771928	2.728174	6.693429	1.779152	2.72832	2.728946							
RMSE		18.54639	11.76415	11.76415	11.76415	10.0446	9.314821	9.940742	9.316548	55.02547	4.59705	9.314874	9.314555							
MAPE		0.9524515	0.6932291	0.6932291	0.6932291	0.704771	0.6930151	0.7028806	0.6928702	1.693266	0.4530436	0.6929814	0.693004							
Trk Signal		10.31176	3.982273	3.982273	3.982273	5.746649	3.969455	5.773366	3.893282	10.7676	-1.54E-04	3.997945	4.01081							
R-square																				

Y-intercept=387.2316 c=1  
 Alpha=0.11 Alpha=0.43  
 Beta=0.63 Beta=0.16  
 Gamma=0.41 Gamma=0.08  
 F(0)=387.1111 F(0)=387.1111  
 T(0)=0 T(0)=0  
 S(1)=0 S(1)=1

Forecast Result for Muhiara Selatan BD-SP hari Senin - Kamis																				
3/15/2011	Actual Data	Forecast by SA	Forecast by 1-MA	Forecast by 1-WMA	Forecast by 1-WMAT	Forecast by SES	Forecast by SEST	Forecast by DES	Forecast by DEST	Forecast by AES	Forecast by LR	Forecast by HWA	Forecast by HWM	Forecast Error	CFE	IMAD	MSE	MAPE (%)	Tracking Signal	
1	455.67	455.6667	455.6667	455.6667	455.6667	455.6667	455.6667	455.6667	455.6667	455.6667	459.9711	455.6667	455.6667	5.98344	5.96	5.98	35.5	1.290732	1	
2	461.63	458.6667	461.625	461.625	461.625	457.8116	457.8116	457.8116	457.8116	455.6667	459.9711	455.6667	455.6667	2.185944	8.14	4.072	20.14	0.8829623	2	
3	460.01	458.6667	460.0125	460.0125	460.0125	458.6039	458.6039	458.6039	458.6039	455.6667	459.9711	455.6667	455.6667	0.060018	8.75	2.917	13.55	0.63263	3	
4	459.23	459.1323	459.225	459.225	459.225	458.8275	458.8275	458.8275	458.8275	455.6667	459.9711	455.6667	455.6667	5.661316	14.4	3.603	18.17	0.7791719	4	
5	464.5	460.2059	464.5	464.5	464.5	460.8696	460.8696	460.8696	460.8696	455.6667	459.9711	455.6667	455.6667	0.29657	14.7	2.942	14.56	0.6361987	5	
6	461.19	460.2059	461.1875	461.1875	461.1875	460.984	460.984	461.9498	461.2043	455.6667	459.9711	455.6667	455.6667	-1.24844	13.5	2.659	12.39	0.5794237	5.061122	
7	459.75	460.3695	461.1875	461.1875	461.1875	460.984	460.984	460.9077	461.1177	455.6667	459.9711	455.6667	455.6667	4.091614	14.6	2.435	10.79	0.527001	5.97478	
8	461.64	460.2811	459.75	459.75	459.75	460.5398	460.5398	460.9077	461.1177	455.6667	459.9711	455.6667	455.6667	4.605459	14.6	2.435	10.79	0.527001	5.97478	
9	458.83	460.4505	461.6375	461.6375	461.6375	460.935	460.935	461.0631	461.5905	455.6667	460.0031	460.1771	460.1771	-4.36484	8.08	2.613	11	0.5673425	3.091003	
10	455.81	460.2708	458.8333	458.8333	458.8333	460.1784	460.1784	460.3674	461.9092	455.6667	460.0031	460.1771	460.1771	-2.10825	12.4	2.395	9.998	0.5185609	5.196406	
11	464.33	459.825	458.8125	458.8125	458.8125	458.6067	458.6067	458.7599	459.7407	455.6667	460.0031	460.1771	460.1771	5.729919	13.8	2.925	13.19	0.6340114	4.720549	
12	457.31	460.2341	464.325	464.325	464.325	460.6653	460.6653	460.2699	461.2878	455.6667	460.0031	460.1771	460.1771	-3.35965	10.4	2.965	13.01	0.6411604	3.524405	
13	459.9906	457.3125	457.3125	457.3125	457.3125	459.4583	459.4583	459.5884	460.3452	455.6667	460.0137	459.4535	459.4535	4.601173	14.6	2.435	10.79	0.527001	5.97478	
14	459.9906	457.3125	457.3125	457.3125	457.3125	459.4583	459.4583	459.5884	460.5059	455.6667	460.0137	459.4535	459.4535	4.601173	14.6	2.435	10.79	0.527001	5.97478	
15	459.9906	457.3125	457.3125	457.3125	457.3125	459.4583	459.4583	459.5884	460.6666	455.6667	460.0208	459.4535	459.4535	4.601173	14.6	2.435	10.79	0.527001	5.97478	
16	459.9906	457.3125	457.3125	457.3125	457.3125	459.4583	459.4583	459.5884	460.8273	455.6667	460.0244	459.4535	459.4535	4.601173	14.6	2.435	10.79	0.527001	5.97478	
17	459.9906	457.3125	457.3125	457.3125	457.3125	459.4583	459.4583	459.5884	460.988	455.6667	460.0279	459.4535	459.4535	4.601173	14.6	2.435	10.79	0.527001	5.97478	
18	459.9906	457.3125	457.3125	457.3125	457.3125	459.4583	459.4583	459.5884	461.1487	455.6667	460.0315	459.4535	459.4535	4.601173	14.6	2.435	10.79	0.527001	5.97478	
19	459.9906	457.3125	457.3125	457.3125	457.3125	459.4583	459.4583	459.5884	461.3094	455.6667	460.035	459.4535	459.4535	4.601173	14.6	2.435	10.79	0.527001	5.97478	
20	459.9906	457.3125	457.3125	457.3125	457.3125	459.4583	459.4583	459.5884	461.4702	455.6667	460.0386	459.4535	459.4535	4.601173	14.6	2.435	10.79	0.527001	5.97478	
21	459.9906	457.3125	457.3125	457.3125	457.3125	459.4583	459.4583	459.5884	461.6309	455.6667	460.0421	459.4535	459.4535	4.601173	14.6	2.435	10.79	0.527001	5.97478	
22	459.9906	457.3125	457.3125	457.3125	457.3125	459.4583	459.4583	459.5884	461.7916	455.6667	460.0457	459.4535	459.4535	4.601173	14.6	2.435	10.79	0.527001	5.97478	
23	459.9906	457.3125	457.3125	457.3125	457.3125	459.4583	459.4583	459.5884	461.9523	455.6667	460.0493	459.4535	459.4535	4.601173	14.6	2.435	10.79	0.527001	5.97478	
24	459.9906	457.3125	457.3125	457.3125	457.3125	459.4583	459.4583	459.5884	462.113	455.6667	460.0528	459.4535	459.4535	4.601173	14.6	2.435	10.79	0.527001	5.97478	
CFE	10.0379	1.645844	1.645844	1.645844	1.645844	10.53244	10.53244	9.450928	7.142578	51.88766	6.10E-05	10.43201	10.44852	51.88766	6.10E-05	10.43201	10.44852	10.44852	10.44852	
IMAD	2.661011	3.783716	3.783716	3.783716	3.783716	2.967366	2.967366	2.92132	3.097701	4.717001	2.226329	2.964095	2.964627	4.717001	2.226329	2.964095	2.964627	2.964627	2.964627	
MSE	10.96933	20.1615	20.1615	20.1615	20.1615	13.01414	13.01414	12.6516	13.61629	28.69161	7.603741	13.01384	13.01384	28.69161	7.603741	13.01384	13.01384	13.01384	13.01384	
MAPE	0.577305	0.8207994	0.8207994	0.8207994	0.8207994	0.6437536	0.6437536	0.6338488	0.6726134	1.021586	0.4840022	0.6430451	0.6431604	1.021586	0.4840022	0.6430451	0.6431604	0.6431604	0.6431604	
Trk Signal	3.772214	0.4349807	0.4349807	0.4349807	0.4349807	3.549425	3.549425	3.231516	2.305768	11	2.74E-05	0.5444515	0.5444515	11	2.74E-05	0.5444515	0.5444515	0.5444515	0.5444515	
R-square	0.4075494	0.4075494	0.4075494	0.4075494	0.4075494	0.5456451	0.5456451	0.5492809	0.5914406	Alpha=0	Y-intercept=459.9675	Alpha=0.3	Alpha=0.15	Alpha=0	Y-intercept=459.9675	Alpha=0.3	Alpha=0.15	Alpha=0	Y-intercept=459.9675	
						Alpha=0.36	Alpha=0.36	Alpha=0.57	Alpha=0.15	Alpha=0	Slope=3.55E-3	Beta=0	Beta=0	Beta=0	Slope=3.55E-3	Beta=0	Beta=0	Beta=0	Slope=3.55E-3	
						F(0)=455.6667	F(0)=455.6667	F(0)=455.6667	F(0)=455.6667	F(0)=455.6667	F(0)=455.6667	Gamma=0.09	Gamma=0.25	Gamma=0.09	F(0)=455.6667	F(0)=455.6667	F(0)=455.6667	F(0)=455.6667	F(0)=455.6667	
						T(0)=0	T(0)=0	T(0)=0	T(0)=0	T(0)=0	T(0)=0	T(0)=0	T(0)=0	T(0)=0	T(0)=0	T(0)=0	T(0)=0	T(0)=0	T(0)=0	T(0)=0
						W(1)=1	W(1)=1	W(1)=1	W(1)=1	W(1)=1	W(1)=1	S(1)=0	S(1)=1	S(1)=0	W(1)=1	W(1)=1	W(1)=1	W(1)=1	W(1)=1	





Forecast Result for Mutiara Selatan 98 - BD hari Senin - Kamis																					
3/15/2011	Actual Data	Forecast by SA	Forecast by 1-MA	Forecast by 1-WMA	Forecast by 1-MAT	Forecast by SES	Forecast by DES	Forecast by DEST	Forecast by AFS	Forecast by LR	Forecast by HWA	Forecast by HWM	Forecast Error	CFE	MAD	MSE	MAPE (%)	Tracking Signal			
1	456.42	456.42	456.42	456.42	456.42	456.4167	456.4167	456.4167	456.4167	459.1784	456.4167	456.4167	3.145844	3.15	3.146	9.896	0.6845301	1			
2	459.56	456.4167	456.4167	456.4167	456.4167	456.4167	456.4167	456.4167	456.4167	459.1116	456.4167	456.4167	456.4167	456.4167	3.985	16.59	0.8649705	2			
3	461.48	457.9896	459.5625	459.5625	459.5625	456.7942	456.7942	456.7942	456.7942	459.0449	456.6476	456.6476	456.6476	456.6476	2.979	11.37	0.6473262	2.350538			
4	456.09	459.1514	461.475	461.475	457.3559	457.0549	457.2177	457.3672	456.4167	458.9781	457.0466	457.0466	457.0466	457.0466	7	2.979	11.37	0.6473262	2.350538		
5	464.95	458.3854	456.0875	456.0875	456.0875	457.2037	457.0977	457.3932	456.4167	458.9113	457.0894	457.0894	457.0894	457.0894	7.852295	14.9	4.197	23.94	0.9077562	3.539038	
6	458.54	459.6983	464.95	464.95	458.1332	457.7828	458.1171	458.1903	456.4167	458.8445	457.7661	457.7661	457.7661	457.7661	3.63854	15.6	3.51	19.27	0.7592794	4.448714	
7	454.42	459.5056	458.5417	458.5417	458.5417	458.0342	458.0342	458.0342	456.4167	458.7777	458.0342	458.0342	458.0342	458.0342	12	3.531	18.26	0.766102	3.392166		
8	464.3	458.7786	454.4167	454.4167	457.7304	458.0075	458.3748	457.8723	456.4167	458.7111	457.9909	458.0075	458.0075	458.0075	6.292511	18.3	3.925	21.31	0.8502757	4.654264	
9	455.58	459.4688	464.3	464.3	458.5187	458.6481	458.8011	458.6823	456.4167	458.6442	458.6249	458.6249	458.6249	458.6249	3.06476	15.2	3.818	19.82	0.8280801	3.982662	
10	454.56	459.037	455.5833	455.5833	455.5833	458.1665	458.6832	458.7454	456.4167	458.5774	458.6621	458.6621	458.6621	458.6621	3.241974	14.3	3.791	18.6	0.8233246	3.779532	
11	461.84	458.5896	454.5625	454.5625	457.734	458.5955	458.3655	457.9657	456.4167	458.5106	458.5785	458.5785	458.5785	458.5785	-0.99634	13.3	3.537	17	0.7682425	3.769275	
12	458	458.8849	461.8375	461.8375	458.2264	458.9963	458.466	458.4672	456.4167	458.4438	458.9767	458.9767	458.9767	458.9767	459.1285						
13	458.8111	458	458	458	458.1993	459.1285	458.4774	458.462	456.4167	458.3771	459.1104	459.1104	459.1104	459.1104	459.3018						
14	458.8111	458	458	458	458.1993	459.3205	458.4774	458.5112	456.4167	458.3103	459.3018	459.3018	459.3018	459.3018	459.5124						
15	458.8111	458	458	458	458.1993	459.5124	458.4774	458.5604	456.4167	458.2435	459.4933	459.4933	459.4933	459.4933	459.7043						
16	458.8111	458	458	458	458.1993	459.7044	458.4774	458.6086	456.4167	458.1768	459.6848	459.6848	459.6848	459.6848	459.8963						
17	458.8111	458	458	458	458.1993	459.8963	458.4774	458.6588	456.4167	458.11	459.8762	459.8762	459.8762	459.8762	460.0677						
18	458.8111	458	458	458	458.1993	460.0883	458.4774	458.7079	456.4167	458.0432	460.0677	460.0677	460.0677	460.0677	460.2802						
19	458.8111	458	458	458	458.1993	460.2802	458.4774	458.7571	456.4167	457.9764	460.2591	460.2591	460.2591	460.2591	460.4772						
20	458.8111	458	458	458	458.1993	460.4772	458.4774	458.8063	456.4167	457.9096	460.4506	460.4506	460.4506	460.4506	460.6642						
21	458.8111	458	458	458	458.1993	460.6642	458.4774	458.8555	456.4167	457.8429	460.6421	460.6421	460.6421	460.6421	460.856						
22	458.8111	458	458	458	458.1993	460.8561	458.4774	458.9047	456.4167	457.7761	460.8335	460.8335	460.8335	460.8335	461.048						
23	458.8111	458	458	458	458.1993	461.0481	458.4774	458.9539	456.4167	457.7093	461.025	461.025	461.025	461.025	461.24						
24	458.8111	458	458	458	458.1993	461.24	458.4774	459.0031	456.4167	457.6425	461.2164	461.2164	461.2164	461.2164	13.33005						
CFE		3.410858	1.583344	1.583344	1.583344	13.33005	12.22028	13.66306	28.73343	-2.14E-04	13.48294	13.33005	13.33005	13.33005	2.972623	3.524245	3.533822	3.536502			
MAD		3.683591	5.506822	5.506822	5.506822	3.492376	3.492376	3.518946	3.524245	3.518946	3.524245	3.518946	3.524245	3.518946	17.00331	17.00309	17.00331	17.00331			
MSE		16.24517	38.32367	38.32367	38.32367	17.22025	16.68086	17.1437	19.5428	12.13824	17.00309	17.00309	17.00309	17.00309	0.6470203	0.7676375	0.7682425	0.7682425			
MAPE		0.8016789	1.197388	1.197388	1.197388	0.7591649	0.7588809	0.7643617	0.7636249	0.7643617	0.7636249	0.7636249	0.7636249	0.7636249	-7.19E-05	3.815599	3.769275	3.769275			
Trk.Signal		0.9259601	0.287524	0.287524	0.287524	4.249249	3.769275	3.882713	8.153074	-7.19E-05	3.815599	3.769275	3.769275	3.769275	0.004358857	0.1738621	0.1721255	0.1721255			
R-square		0.06767856	m=1	m=1	m=1	Alpha=0.12	Alpha=0.29	Alpha=0.06	Alpha=0	Y-intercept=459.2452	c=1	c=1	c=1	c=1	Alpha=0.02	Alpha=0.06	Alpha=0.06	Alpha=0.06			
			W(1)=1	W(1)=1	W(1)=1	F(0)=456.4167	F(0)=456.4167	F(0)=456.4167	F(0)=456.4167	F(0)=456.4167	F(0)=456.4167	F(0)=456.4167	F(0)=456.4167	F(0)=456.4167	Beta=0.71	Beta=0.24	Beta=0.24	Beta=0.24			
						F(0)=456.4167	F(0)=456.4167	F(0)=456.4167	F(0)=456.4167	F(0)=456.4167	F(0)=456.4167	F(0)=456.4167	F(0)=456.4167	F(0)=456.4167	Gamma=0.04	Gamma=0	Gamma=0	Gamma=0			
						T(0)=0	T(0)=0	T(0)=0	T(0)=0	T(0)=0	T(0)=0	T(0)=0	T(0)=0	T(0)=0	T(0)=0	T(0)=0	T(0)=0	T(0)=0	T(0)=0		
						S(1)=0	S(1)=0	S(1)=0	S(1)=0	S(1)=0	S(1)=0	S(1)=0	S(1)=0	S(1)=0	S(1)=0	S(1)=0	S(1)=0	S(1)=0	S(1)=0		

Forecast Result for Mudhara Selatan SB - BD hari Jumat - Minggu																		
3/15/2011	Actual Data	Forecast by 1-WMA	Forecast by 1-MAT	Forecast by SES	Forecast by SEST	Forecast by DES	Forecast by DEST	Forecast by AES	Forecast by LR	Forecast by HWA	Forecast by HWM	Forecast Error	CFE	MAD	MSE	MAPE (%)	Tracking Signal	
1	528.89								527.6545									
2	531	528.8889	528.8889	528.8889	528.8889	528.8889	528.8889	528.8889	527.7887	528.8889	528.8889	2.11084	2.11	2.111	4.457	0.39756276	1	
3	524.75	528.9445	531	528.8889	528.8889	528.8889	528.8889	528.8889	527.9229	528.8889	528.8889	-4.13892	-2.03	3.125	10.79	0.5931941	-0.64891	
4	525.33	528.213	524.75	528.8889	528.8889	528.8889	528.8889	528.8889	528.0571	528.8889	528.8889	-3.5556	-5.58	3.209	11.41	0.6210454	-1.70824	
5	523.78	527.493	525.3333	523.7778	528.8889	528.8889	528.8889	528.8889	528.1913	528.8889	528.8889	-5.11115	-10.7	3.729	15.09	0.7087399	-2.86781	
6	528.83	526.75	523.7778	523.7778	528.8889	528.8889	528.8889	528.8889	528.3255	528.8889	528.8889	-0.0556	-10.8	2.994	12.07	0.5689847	-3.59001	
7	531.56	527.0972	528.8333	528.8333	528.8889	528.8889	528.8889	528.8889	528.4597	528.8889	528.8889	2.66626	8.08	2.94	11.24	0.5585231	-2.74967	
8	528.38	527.7341	531.5555	531.5555	528.8889	528.8889	528.8889	528.8889	528.5939	528.8889	528.8889	-0.50555	-8.59	2.592	9.675	0.4924028	-3.3136	
9	534.83	527.8152	528.3834	528.3834	528.8889	528.8889	528.8889	528.8889	528.7281	528.8889	528.8889	5.944397	-2.64	3.011	12.88	0.5697833	-0.87832	
10	529.47	528.595	534.8333	534.8333	528.8889	528.8889	528.8889	528.8889	528.9965	528.8889	528.8889	-1.5556	-3.62	2.622	10.58	0.5185986	-0.75416	
11	527.33	528.6823	529.4667	529.4667	528.8889	528.8889	528.8889	528.8889	529.1307	528.8889	528.8889	-2.33337	-5.96	2.596	10.11	0.4914109	-2.2943	
12	526.56	528.5596	527.3333	527.3333	528.8889	528.8889	528.8889	528.8889	529.2649	528.8889	528.8889							
13		528.3926	526.5555	526.5555	528.8889	528.8889	528.8889	528.8889	529.3991	528.8889	528.8889							
14		528.3926	526.5555	526.5555	528.8889	528.8889	528.8889	528.8889	529.3991	528.8889	528.8889							
15		528.3926	526.5555	526.5555	528.8889	528.8889	528.8889	528.8889	529.5333	528.8889	528.8889							
16		528.3926	526.5555	526.5555	528.8889	528.8889	528.8889	528.8889	529.6675	528.8889	528.8889							
17		528.3926	526.5555	526.5555	528.8889	528.8889	528.8889	528.8889	529.8017	528.8889	528.8889							
18		528.3926	526.5555	526.5555	528.8889	528.8889	528.8889	528.8889	529.9359	528.8889	528.8889							
19		528.3926	526.5555	526.5555	528.8889	528.8889	528.8889	528.8889	530.0701	528.8889	528.8889							
20		528.3926	526.5555	526.5555	528.8889	528.8889	528.8889	528.8889	530.2043	528.8889	528.8889							
21		528.3926	526.5555	526.5555	528.8889	528.8889	528.8889	528.8889	530.3385	528.8889	528.8889							
22		528.3926	526.5555	526.5555	528.8889	528.8889	528.8889	528.8889	530.4727	528.8889	528.8889							
23		528.3926	526.5555	526.5555	528.8889	528.8889	528.8889	528.8889	530.6069	528.8889	528.8889							
24		528.3926	526.5555	526.5555	528.8889	528.8889	528.8889	528.8889	530.7411	528.8889	528.8889							
CFE		2.049316	-2.333374	-2.333374	-5.955933	-5.955933	-5.955933	-5.955933	-4.27E-04	-5.955933	-5.955933							
MAD		2.939464	3.288874	3.288874	2.595969	2.595969	2.595969	2.595969	2.459844	2.595969	2.595969							
MSE		12.18382	14.98816	14.98816	10.11429	10.11429	10.11429	10.11429	8.810405	10.11429	10.11429							
MAPE		0.5557931	0.6215389	0.6215389	0.4914109	0.4914109	0.4914109	0.4914109	0.4651956	0.4914109	0.4914109							
Trk Signal		0.6971734	-0.709475	-0.709475	-2.2943	-2.2943	-2.2943	-2.2943	-1.74E-04	-2.2943	-2.2943							
R-square		0.07946557	0.9729884	0.9729884	0.02984326	0.02984326	0.02984326	0.02984326	0.02378006	0.02984326	0.02984326							

$\alpha=1$   
 $m=1$   
 $W(1)=1$   
 $Y\text{-intercept}=527.5203$   
 $\alpha=1$   
 $\text{Alpha}=0$   
 $\text{Beta}=0$   
 $\text{Gamma}=0$   
 $F(0)=528.8889$   
 $T(0)=0$   
 $S(1)=1$

Forecast Result for Pasundan BD-SB Hari Senin - Jumat												
3/15/2011	Actual	Forecast by	Forecast by	Forecast by	Forecast by	Forecast by	Forecast by	Forecast by	Forecast by	Forecast by	Forecast by	Forecast by
Month	Data	SA	1-MA	1-WMA	1-MA	SEST	DES	DEST	AES	LR	HWA	HWM
1	1049.5											
2	1050.5	1049.533	1050	1049.533	1049.533	1049.533	1049.533	1049.533	1049.533	1051.613	1049.533	1049.533
3	1063	1050.025	1051	1049.583	1049.555	1049.592	1049.592	1049.592	1049.533	1052.148	1049.533	1049.533
4	1053.4	1054.353	1063	1063	1050.254	1049.874	1050.998	1049.874	1049.533	1053.217	1050.13	1050.13
5	1061.1	1054.12	1053	1053.4	1050.412	1050.184	1050.593	1050.593	1049.533	1053.751	1050.55	1050.55
6	1054.9	1055.523	1061	1061.1	1050.948	1051.328	1050.655	1051.241	1049.533	1054.285	1051.328	1051.328
7	1057.3	1055.414	1055	1054.9	1051.144	1051.089	1051.484	1049.533	1049.533	1054.82	1052.035	1052.035
8	1018.4	1055.688	1057	1057.3	1051.454	1051.544	1051.863	1049.533	1049.533	1055.354	1052.884	1052.884
9	1059.5	1051.028	1018	1018.4	1049.802	1051.127	1049.89	1049.533	1049.533	1055.888	1052.248	1052.248
10	1057.3	1051.966	1059	1059.5	1050.635	1051.013	1050.468	1049.533	1049.533	1056.423	1052.59	1052.59
11	1069.1	1052.498	1057	1057.3	1050.635	1051.072	1050.89	1049.533	1049.533	1056.957	1052.976	1052.976
12	1060.5	1054.01	1069	1069.1	1051.56	1053.914	1051.521	1052.003	1049.533	1057.491	1053.914	1053.914
13		1054.552	1061	1060.5	1052.008	1054.793	1052.048	1052.548	1049.533	1058.026	1054.793	1054.793
14		1054.552	1061	1060.5	1052.008	1055.54	1052.048	1052.591	1049.533	1058.56	1055.54	1055.54
15		1054.552	1061	1060.5	1052.008	1056.287	1052.048	1052.633	1049.533	1059.094	1056.287	1056.287
16		1054.552	1061	1060.5	1052.008	1057.034	1052.048	1052.676	1049.533	1059.629	1057.034	1057.034
17		1054.552	1061	1060.5	1052.008	1057.781	1052.048	1052.718	1049.533	1060.163	1057.781	1057.781
18		1054.552	1061	1060.5	1052.008	1058.528	1052.048	1052.761	1049.533	1060.698	1058.528	1058.528
19		1054.552	1061	1060.5	1052.008	1059.275	1052.048	1052.803	1049.533	1061.232	1059.275	1059.275
20		1054.552	1061	1060.5	1052.008	1060.022	1052.048	1052.846	1049.533	1061.766	1060.022	1060.022
21		1054.552	1061	1060.5	1052.008	1060.769	1052.048	1052.888	1049.533	1062.301	1060.769	1060.769
22		1054.552	1061	1060.5	1052.008	1061.516	1052.048	1052.931	1049.533	1062.835	1061.516	1061.516
23		1054.552	1061	1060.5	1052.008	1062.262	1052.048	1052.973	1049.533	1063.369	1062.262	1062.262
24		1054.552	1061	1060.5	1052.008	1063.009	1052.048	1053.016	1049.533	1063.904	1063.009	1063.009
CFE		20.93707	11	10.983	11	49.48676	47.92902	47.14044	60.23041	1.16E-03	37.33575	37.33575
MAD		8.970298	12.9	12.921	12.9	10.50677	10.38152	10.36794	11.13428	6.775965	9.662192	9.662192
MSE		184.7234	343	343.07	343	183.3299	180.4607	182.8392	186.7077	142.5545	173.8404	173.8404
MAPE		0.8580343	1.23	1.2324	1.23	1.001701	0.9899569	0.988737	1.060279	0.6503747	0.9226167	0.9226167
Trk.Signal		2.334044	0.85	0.85	0.85	4.709985	3.864108	4.616763	5.409455	1.71E-04	3.864108	3.864108
R-square		0.05181642	1	0.9998	1	0.1320615	0.08638379	0.1244652	0.1912929	0.02331343	0.08638379	0.08638379

  

m=1	m=1	m=1	Alpha=0.05	Alpha=0.02	Alpha=0.15	Alpha=0.03	Alpha=0	Y-intercept=1051.079	c=1
W(1)=1	F(0)=1049.533	Beta=1	F(0)=1049.533	F(0)=1049.533	Beta=1049.533	Beta=1049.533	F(0)=1049.533	Slope=0.5344	Alpha=0.02
			F(0)=1049.533	F(0)=1049.533	F(0)=1049.533	F(0)=1049.533	F(0)=1049.533		Beta=1
			T(0)=0	T(0)=0	T(0)=0	T(0)=0	T(0)=0		Gamma=0
									Gamma=0
									F(0)=1049.533
									T(0)=0
									S(1)=1



Forecast Result for Pasundan SB - BD Hari Senin - Jumat												
3/15/2011	Actual	Forecast by	Forecast by	Forecast by	Forecast by	Forecast by	Forecast by	Forecast by	Forecast by	Forecast by	Forecast by	Forecast by
Month	Data	SA	1-WMA	1-WMA	1-WMA	SES	DES	DEST	AES	LR	HWA	HWM
1	1047.5											
2	1048.9	1047.467	1047.5	1047	1047.467	1047.467	1047.467	1047.467	1047.467	1049.307	1047.467	1047.467
3	1056.7	1048.175	1049	1048.9	1049	1047.552	1047.552	1047.665	1047.665	1049.983	1047.552	1047.552
4	1050.5	1051.1057	1056.7	1057	1048.821	1048.14	1048.018	1048.93	1047.467	1051.334	1048.14	1048.14
5	1063	1050.885	1051	1050.5	1051	1048.044	1048.434	1049.206	1047.467	1052.009	1048.599	1048.599
6	1055.4	1063.654	1055	1055.4	1063	1050.852	1049.848	1049.39	1047.467	1052.684	1049.848	1049.848
7	1050.8	1063.298	1063	1063	1063	1051.448	1050.263	1051.91	1047.467	1053.36	1051.001	1051.001
8	1025	1063.246	1051	1050.8	1051	1051.363	1050.821	1051.901	1047.467	1054.035	1051.975	1051.975
9	1057.3	1049.719	1025	1025	1025	1047.94	1049.912	1048.281	1047.467	1054.71	1051.338	1051.338
10	1058	1050.565	1057	1057.3	1057	1049.161	1049.718	1049.558	1047.467	1055.386	1051.869	1051.869
11	1062.5	1051.305	1058	1058	1058	1050.305	1049.999	1050.789	1047.467	1056.061	1052.585	1052.585
12	1066.8	1052.318	1062	1062.5	1062	1051.884	1050.773	1052.517	1047.467	1056.736	1053.711	1053.711
13		1063.022	1061	1060.8	1061	1053.039	1051.727	1053.824	1047.467	1057.412	1064.964	1054.964
14		1063.022	1061	1060.8	1061	1053.039	1051.727	1054.017	1047.467	1058.087	1056.005	1056.005
15		1063.022	1061	1060.8	1061	1053.039	1051.727	1054.21	1047.467	1058.762	1057.047	1057.047
16		1063.022	1061	1060.8	1061	1053.039	1051.727	1054.403	1047.467	1059.438	1058.088	1058.088
17		1063.022	1061	1060.8	1061	1053.039	1051.727	1054.596	1047.467	1060.113	1059.129	1059.129
18		1063.022	1061	1060.8	1061	1053.039	1051.727	1054.789	1047.467	1060.789	1060.171	1060.171
19		1063.022	1061	1060.8	1061	1053.039	1051.727	1054.982	1047.467	1061.464	1061.212	1061.212
20		1063.022	1061	1060.8	1061	1053.039	1051.727	1055.175	1047.467	1062.139	1062.254	1062.254
21		1063.022	1061	1060.8	1061	1053.039	1051.727	1055.368	1047.467	1062.815	1063.295	1063.295
22		1063.022	1061	1060.8	1061	1053.039	1051.727	1055.561	1047.467	1063.49	1064.336	1064.336
23		1063.022	1061	1060.8	1061	1053.039	1051.727	1055.754	1047.467	1064.165	1065.378	1065.378
24		1063.022	1061	1060.8	1061	1053.039	1051.727	1055.947	1047.467	1064.841	1066.419	1066.419
CFE		27.16479	13.3	13.3	42.86108	34.7124	46.46667	39.38513	66.66333	-2.44E-04	34.7124	34.7124
MAD		8.202259	9.52	9.5206	8.802091	8.091309	8.913519	8.667869	10.13969	5.883077	8.091309	8.091309
MSE		121.5201	188	187.51	126.0209	115.8085	125.6417	124.7383	138.3956	90.56692	115.8085	115.8085
MAPE		0.7824692	0.91	0.9075	0.8385382	0.7716486	0.8489233	0.8260499	0.963941	0.5632402	0.7716486	0.7716486
Trk.Signal		3.311867	1.4	1.397	4.869421	4.290085	5.213056	4.543808	6.574492	-4.15E-05	4.290085	4.290085
R-square		0.09706695	0.99	0.986	0.99	0.172588	0.1892175	0.1550607	0.361246	0.05661629	0.1399544	0.1399544

m=1 m=1  
 W(1)=1  
 Alpha=0.13  
 Beta=1  
 F(0)=1047.467  
 T(0)=0  
 Alpha=0.07  
 Beta=1  
 F(0)=1047.467  
 T(0)=0  
 Alpha=0.03  
 Beta=1  
 F(0)=1047.467  
 T(0)=0  
 Alpha=0.03  
 Beta=1  
 Gamma=0  
 F(0)=1047.467  
 T(0)=0  
 S(1)=1  
 Y-intercept=1048.632  
 Slope=0.6754  
 c=1  
 Alpha=0.03  
 Beta=1  
 Gamma=0  
 F(0)=1047.467  
 T(0)=0  
 S(1)=1  
 c=1  
 Alpha=0.03  
 Beta=1  
 Gamma=0  
 F(0)=1047.467  
 T(0)=0  
 S(1)=1

Forecast Result for Pasundan SB - BD hari Sabtu, Minggu													
3/15/2011	Actual Data	Forecast by 1-WA	Forecast by 1-WMA	Forecast by 1-MAT	Forecast by SES	Forecast by SEST	Forecast by DES	Forecast by DEST	Forecast by AES	Forecast by LR	Forecast by HWA	Forecast by HWM	Tracking Signal
1	1230.5	1230.5	1230.5	1230.5	1230.5	1230.5	1230.5	1230.5	1230.5	1224.399	1230.5	1230.5	-1
2	1220.3	1225.583	1220.667	1220.667	1222.633	1222.633	1221.811	1220.667	1230.5	1224.142	1230.5	1230.5	0.8055741
3	1224.7	1223.806	1220.25	1220.25	1220.727	1220.727	1220.401	1220.25	1230.5	1223.884	1222.578	1222.592	0.4987827
4	1223.8	1224.021	1224.667	1224.667	1223.879	1223.879	1224.165	1224.667	1230.5	1223.627	1220.703	1220.709	0.440232
5	1222.3	1223.967	1223.75	1223.75	1223.776	1223.776	1223.812	1223.75	1230.5	1223.369	1223.896	1223.892	-2.05444
6	1222.3	1223.967	1223.75	1223.75	1223.776	1223.776	1223.812	1223.75	1230.5	1223.111	1223.778	1223.778	-2.77674
7	1222	1223.681	1222.25	1222.25	1222.555	1222.555	1222.431	1222.25	1230.5	1222.854	1222.547	1222.549	-3.41191
8	1222	1223.44	1222	1222	1222.111	1222.111	1222.045	1222	1230.5	1222.596	1222.106	1222.108	-4.00222
9	1220.8	1223.257	1221.975	1221.975	1222.002	1222.002	1221.982	1221.975	1230.5	1222.339	1222	1222.001	-0.201982
10	1224.4	1222.979	1220.75	1220.75	1221	1221	1221	1220.75	1230.5	1222.081	1220.993	1220.995	0.2104004
11	1223.3	1223.121	1224.4	1224.4	1223.72	1223.72	1223.988	1224.4	1230.5	1221.823	1223.738	1223.733	0.1933111
12	1221.3	1223.133	1223.25	1223.25	1223.344	1223.344	1223.347	1223.25	1230.5	1221.566	1223.345	1223.345	0.1907078
13	1222.983	1221.983	1221.333	1221.333	1221.735	1221.735	1221.566	1221.333	1230.5	1221.308	1221.724	1221.727	-4.68097
14	1222.983	1221.983	1221.333	1221.333	1221.735	1221.735	1221.566	1221.333	1230.5	1221.051	1221.724	1221.727	
15	1222.983	1221.983	1221.333	1221.333	1221.735	1221.735	1221.566	1221.333	1230.5	1220.793	1221.724	1221.727	
16	1222.983	1221.983	1221.333	1221.333	1221.735	1221.735	1221.566	1221.333	1230.5	1220.536	1221.724	1221.727	
17	1222.983	1221.983	1221.333	1221.333	1221.735	1221.735	1221.566	1221.333	1230.5	1220.278	1221.724	1221.727	
18	1222.983	1221.983	1221.333	1221.333	1221.735	1221.735	1221.566	1221.333	1230.5	1220.02	1221.724	1221.727	
19	1222.983	1221.983	1221.333	1221.333	1221.735	1221.735	1221.566	1221.333	1230.5	1219.763	1221.724	1221.727	
20	1222.983	1221.983	1221.333	1221.333	1221.735	1221.735	1221.566	1221.333	1230.5	1219.505	1221.724	1221.727	
21	1222.983	1221.983	1221.333	1221.333	1221.735	1221.735	1221.566	1221.333	1230.5	1219.248	1221.724	1221.727	
22	1222.983	1221.983	1221.333	1221.333	1221.735	1221.735	1221.566	1221.333	1230.5	1218.991	1221.724	1221.727	
23	1222.983	1221.983	1221.333	1221.333	1221.735	1221.735	1221.566	1221.333	1230.5	1218.733	1221.724	1221.727	
24	1222.983	1221.983	1221.333	1221.333	1221.735	1221.735	1221.566	1221.333	1230.5	1218.475	1221.724	1221.727	
CFE		-22.1947	-9.166626	-9.166626	-10.95581	-10.95581	-10.0824	-9.166626	-90.20837	4.88E-04	-10.89307	-10.90869	
MAD		2.456177	2.299993	2.299993	2.330433	2.330433	2.329867	2.299993	8.200761	1.877828	2.330433	2.330433	
MSE		13.2211	12.668	12.668	12.54165	12.54165	12.5954	12.668	69.38171	6.297993	12.54151	12.54152	
MAPE		0.201187	0.1881714	0.1881714	0.1907089	0.1907089	0.1906417	0.1881714	0.6710725	0.1533932	0.1907075	0.1907078	
Trk Signal		-9.036281	-3.985501	-3.985501	-4.70119	-4.70119	-4.327456	-3.985501	-11	2.60E-04	-4.674267	-4.680972	
R-square										0.1115314			

  

m=1	m=1	m=1	m=1	Alpha=0.8	Alpha=0.8	Alpha=0.94	Alpha=1	Alpha=1	Alpha=1	Alpha=0.76	Alpha=0.11	c=1
W(1)=1	W(1)=1	W(1)=1	W(1)=1	F(0)=1230.5	F(0)=1230.5	F(0)=1230.5	F(0)=1230.5	F(0)=1230.5	F(0)=1230.5	Beta=0	Beta=0	Beta=0
				F(0)=1230.5	F(0)=1230.5	F(0)=1230.5	F(0)=1230.5	F(0)=1230.5	F(0)=1230.5	Gamma=0.19	Gamma=0.78	c=1
				T(0)=0	T(0)=0	T(0)=0	T(0)=0	T(0)=0	T(0)=0	F(0)=1230.5	F(0)=1230.5	F(0)=1230.5
										S(1)=0	S(1)=1	S(1)=1

**LAMPIRAN 5**

***GANTT CHART* JADWAL**

**PEMELIHARAAN KERETA PENUMPANG**





