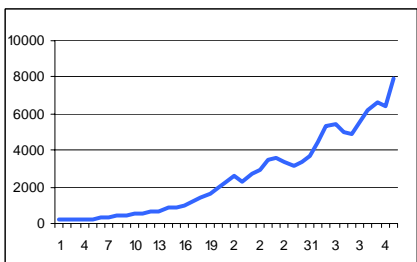
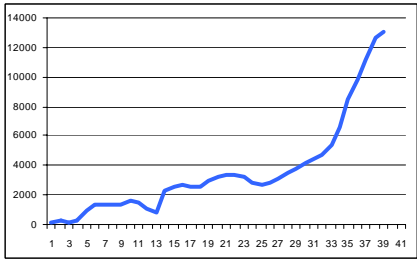
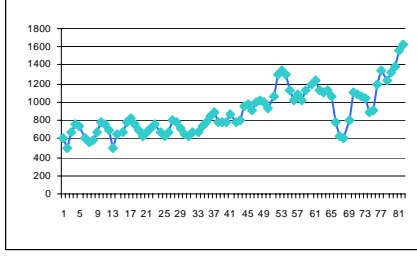
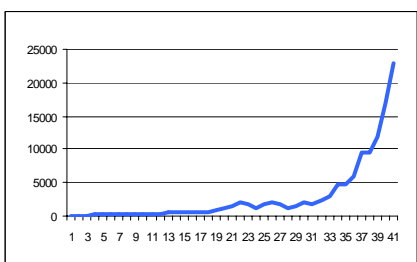
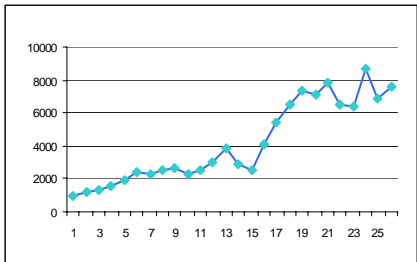
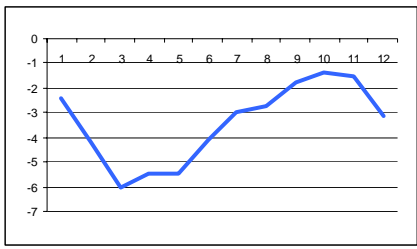
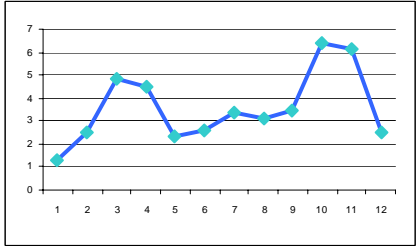
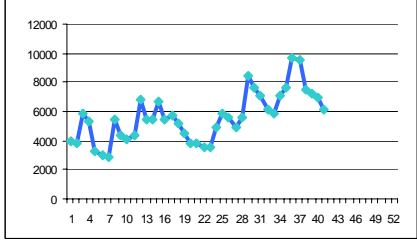
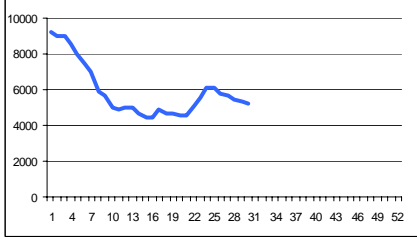
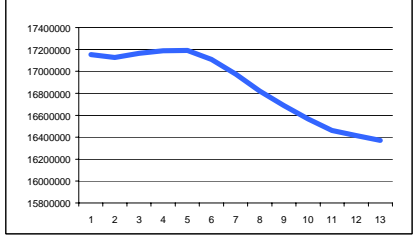
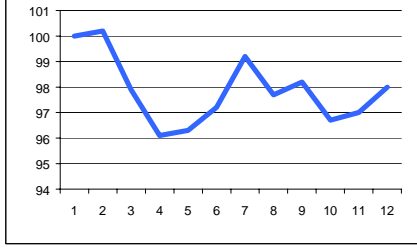


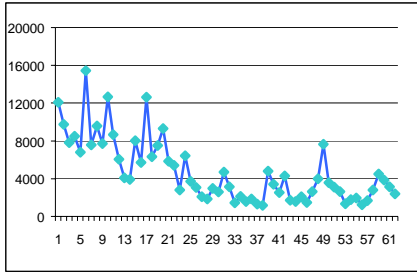
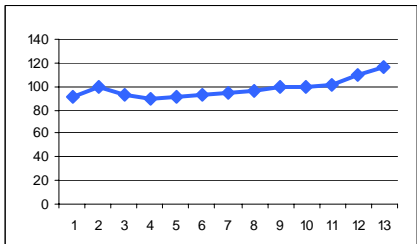
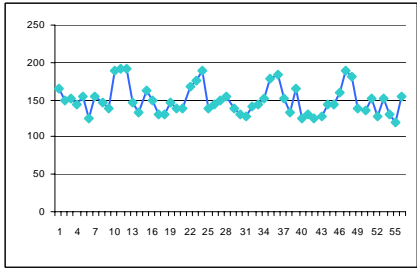
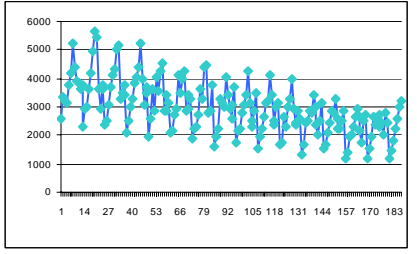
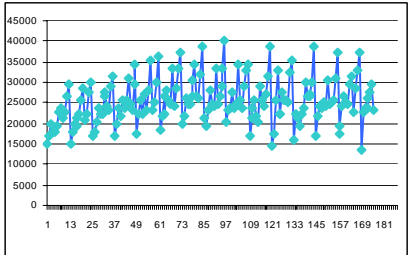
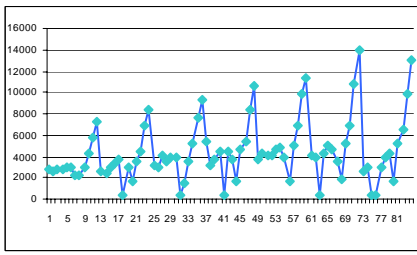
Valentina STAN : Une étude comparative de logiciels de prévision automatique de séries chronologiques

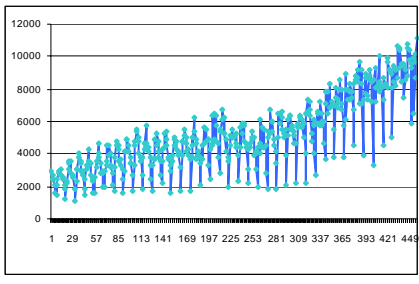
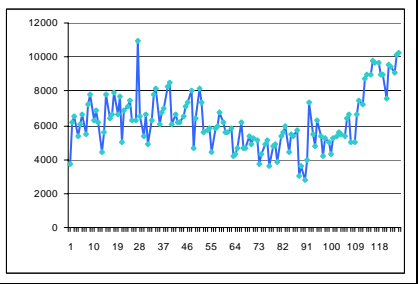
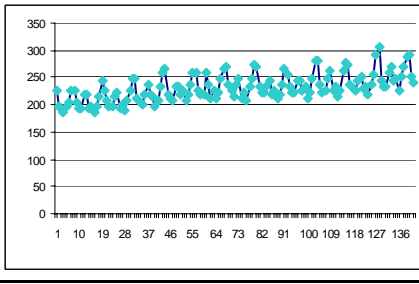
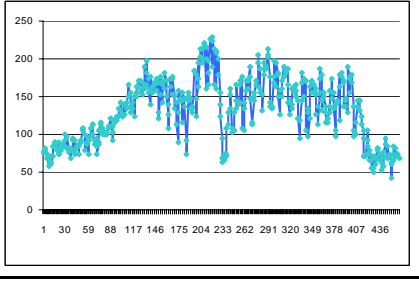
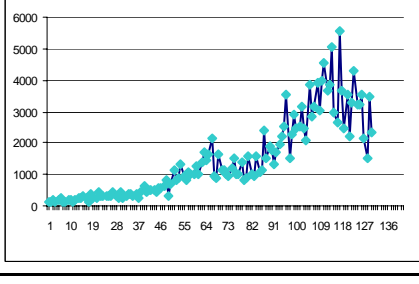
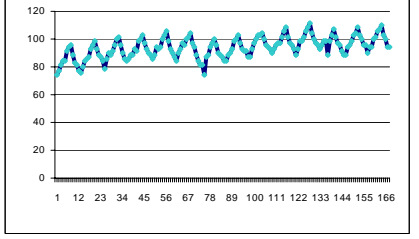
ANNEXE 1 : RESULTATS «BRUTS» DE L'ETUDE

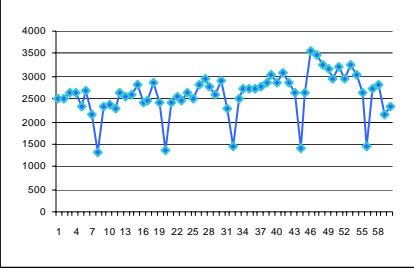
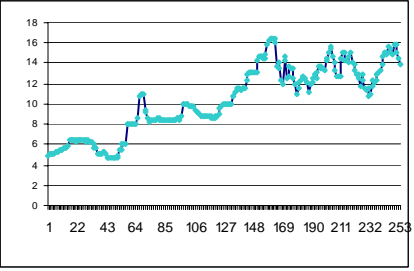
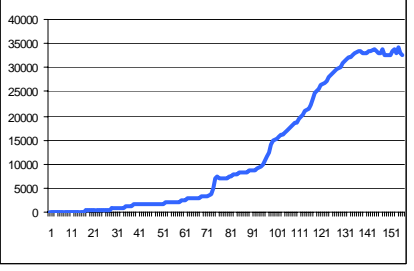
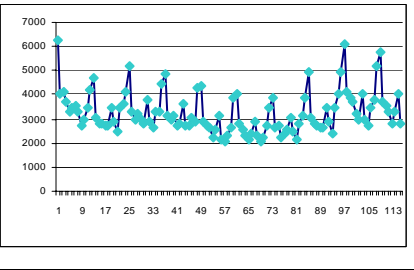
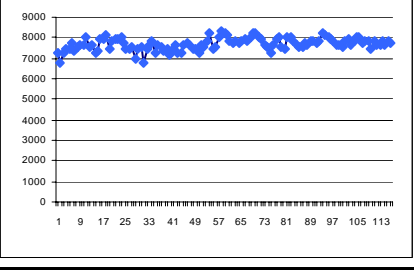
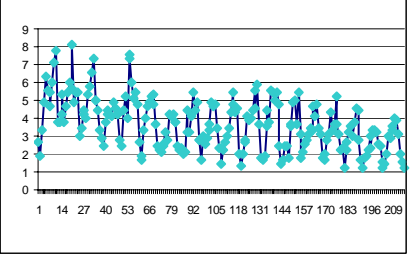
Le tableau suivant donne, pour chaque série, les performances de chaque logiciel selon les 6 critères.

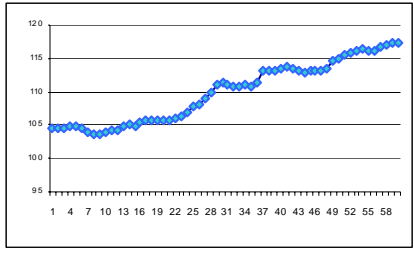
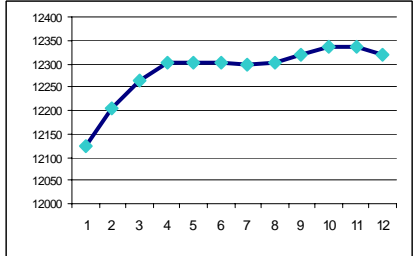
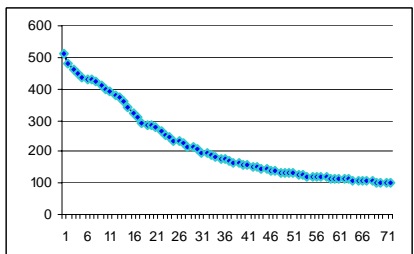
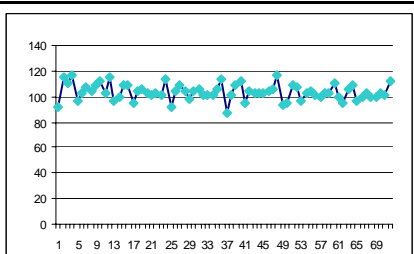
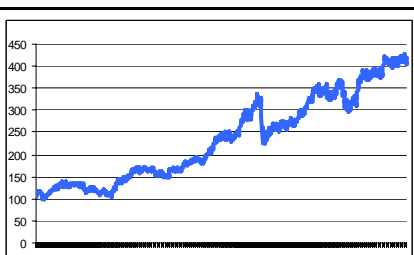
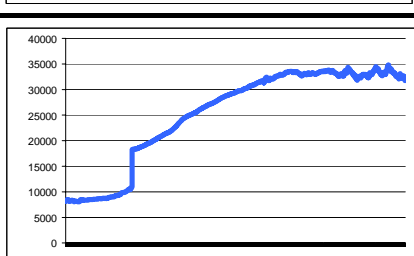
Série	Logiciel	Critère					
		SD	MAD	MAE	MAPE	RMSE	Erreur max
	Forecast Pro 4.2	952,6863	739,0000	1272,3333	0,1859	1569,8036	2966,0000
	ForeScope+ 1.0	536,4608	424,3091	515,9090	0,0835	586,1120	839,4663
	KTS - 304	481,1381	383,0267	383,0267	0,0594	485,6013	997,7800
	SAS 8.2	712,2782	527,6583	792,0181	0,1155	1010,4086	2056,0722
	SPSS - Decision Time 1.1	712,2256	527,6244	792,2483	0,1156	1010,6480	2056,3800
	Statgraphics 5.1	797,0265	703,6544	642,7067	0,1017	942,8886	1944,8100
	Forecast Pro 4.2	2041,0657	1788,3937	4447,1043	0,4049	4893,1264	6843,9380
	ForeScope+ 1.0	2279,5223	2000,4979	4470,3620	0,4014	5018,0034	7220,3602
	KTS - 304	1998,4955	1750,0517	5110,6383	0,4742	5487,4956	7439,4900
	SAS 8.2	2062,1778	1807,2010	4491,4457	0,4090	4942,2325	6919,6251
	SPSS - Decision Time 1.1	2018,4626	1768,2517	4400,0083	0,4007	4840,8950	6763,2700
	Statgraphics 5.1	1900,9260	1671,4217	4147,4083	0,3777	4562,2928	6327,1100
	Forecast Pro 4.2	178,2947	154,0893	299,7983	0,2031	348,8094	563,2210
	ForeScope+ 1.0	213,0502	195,1229	290,2011	0,1938	360,0098	571,1382
	KTS - 304	169,7928	147,7550	208,2283	0,1383	264,1792	449,6200
	SAS 8.2	126,5181	111,5047	195,7568	0,1314	233,0827	397,5364
	SPSS - Decision Time 1.1	136,5777	120,7778	219,8333	0,1480	258,8053	439,0000
	Statgraphics 5.1	210,3599	183,6868	305,3702	0,2046	370,8129	632,6610
	Forecast Pro 4.2	4934,0614	4209,9666	6565,1797	0,4385	8212,5846	15579,0290
	ForeScope+ 1.0	5640,1663	4784,1117	7220,3644	0,4715	9162,1579	17321,8006
	KTS - 304	5238,2030	4464,7978	8585,0733	0,6142	10056,9506	18008,1700
	SAS 8.2	3670,7085	3131,0225	4581,2406	0,3005	5870,4230	11423,3420
	SPSS - Decision Time 1.1	3670,7154	3131,0278	4581,2433	0,3005	5870,4295	11423,3600
	Statgraphics 5.1	4201,2603	3586,6078	5427,6733	0,3596	6863,6890	13188,7500
	Forecast Pro 4.2	902,6230	834,3124	1132,3215	0,1641	1270,4380	1772,9800
	ForeScope+ 1.0	808,9987	734,1667	734,1667	0,0984	830,4428	1502,0000
	KTS - 304	808,9987	734,1667	734,1667	0,0984	830,4428	1502,0000
	SAS 8.2	889,4605	822,8305	1100,8885	0,1592	1219,4205	1687,2927
	SPSS - Decision Time 1.1	911,8793	842,0156	1153,4633	0,1673	1305,5732	1830,6300
	Statgraphics 5.1	808,9987	734,1667	734,1667	0,0984	830,4428	1502,0000

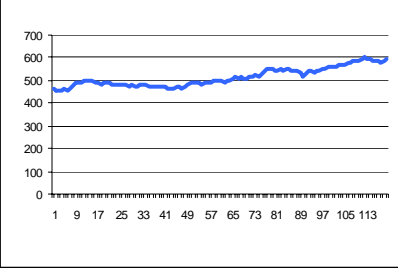
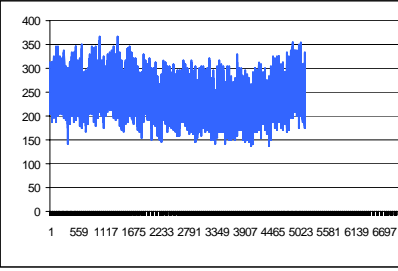
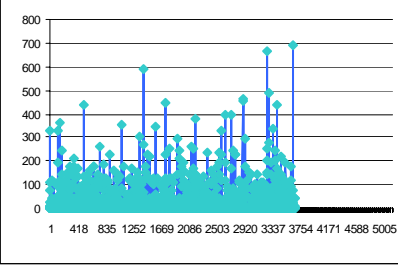
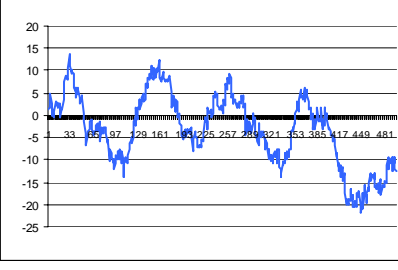
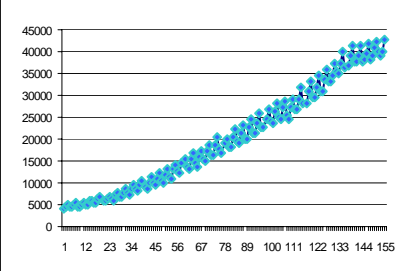
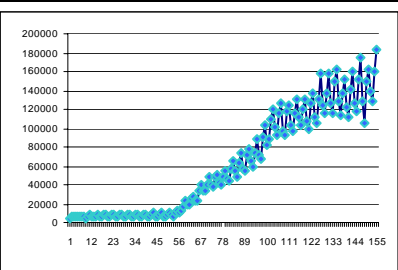
Série	Logiciel	Critère					
		SD	MAD	MAE	MAPE	RMSE	Erreur max
S6 	Forecast Pro 4.2	0,8000	0,8000	2,3000	1,0000	2,4352	3,1000
	ForeScope+ 1.0	0,8000	0,8000	0,9000	0,3075	1,2042	1,7000
	KTS - 304						
	SAS 8.2	0,9609	0,9609	1,4760	0,5648	1,7612	2,4369
	SPSS - Decision Time 1.1	0,8000	0,8000	0,9000	0,3075	1,2042	1,7000
	Statgraphics 5.1	0,9549	0,9549	1,6154	0,6348	1,8766	2,5703
S7 	Forecast Pro 4.2	1,8000	1,8000	1,8000	0,4575	1,8493	2,2240
	ForeScope+ 1.0	1,8000	1,8000	2,1000	0,8046	2,7659	3,9000
	KTS - 304						
	SAS 8.2	2,0355	2,0355	2,0355	0,7317	2,4349	3,3717
	SPSS - Decision Time 1.1	1,8000	1,8000	2,0999	0,8046	2,7658	3,8999
	Statgraphics 5.1	1,8000	1,8000	2,1000	0,8046	2,7659	3,9000
S8 	Forecast Pro 4.2	1321,1947	1188,8889	1066,6667	0,1252	1424,6225	2366,2440
	ForeScope+ 1.0	969,0079	870,6567	1511,2716	0,1774	1795,2488	2966,2070
	KTS - 304	1421,5404	1255,9356	1180,4633	0,1413	1504,6858	2421,7700
	SAS 8.2	1450,4025	1295,0235	1205,0995	0,1477	1475,2777	2302,1080
	SPSS - Decision Time 1.1	1321,1947	1188,8889	1066,6667	0,1251	1426,1635	2370,3500
	Statgraphics 5.1	904,5415	809,1833	1773,1700	0,2130	1990,5595	3177,7600
S9 	Forecast Pro 4.2	1038,7009	913,6742	1981,8655	0,3647	2237,5635	3454,6560
	ForeScope+ 1.0	315,4582	275,0000	508,3333	0,0938	584,1661	900,0000
	KTS - 304	1304,4560	1151,8417	2296,7717	0,4235	2641,3567	4370,6400
	SAS 8.2	762,4929	667,2943	1556,1530	0,2858	1732,9188	2573,1815
	SPSS - Decision Time 1.1	1108,3202	974,9150	2118,5317	0,3898	2390,9308	3693,3900
	Statgraphics 5.1	910,6498	801,1600	1786,7400	0,3285	2005,4234	3024,7100
S10 	Forecast Pro 4.2	29120,5000	29120,5000	84108,5000	0,0051	89006,9845	113229,0000
	ForeScope+ 1.0	22217,0000	22217,0000	69904,0000	0,0043	73349,6033	92121,0000
	KTS - 304						
	SAS 8.2	25582,3973	25582,3973	76996,6999	0,0047	81135,3859	102579,0972
	SPSS - Decision Time 1.1	29120,5000	29120,5000	84108,5000	0,0051	89006,9845	113229,0000
	Statgraphics 5.1	38833,0000	38833,0000	132727,0000	0,0081	138291,2088	171560,0000
S11 	Forecast Pro 4.2	0,5000	0,5000	0,5000	0,0051	0,5711	0,7760
	ForeScope+ 1.0	0,5000	0,5000	0,8000	0,0082	0,9434	1,3000
	KTS - 304						
	SAS 8.2	0,6022	0,6022	0,7844	0,0080	0,9889	1,3866
	SPSS - Decision Time 1.1	0,5000	0,5000	0,8000	0,0082	0,9434	1,3000
	Statgraphics 5.1	0,5000	0,5000	0,8000	0,0082	0,9434	1,3000

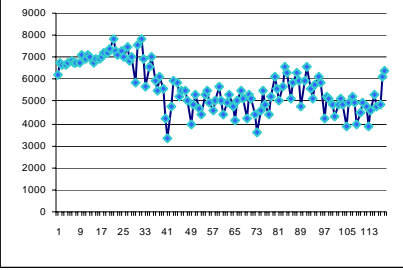
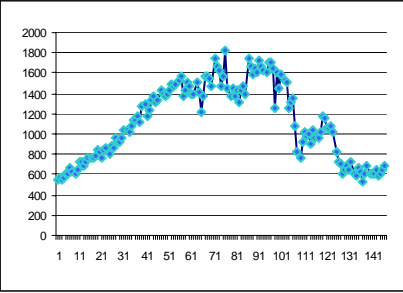
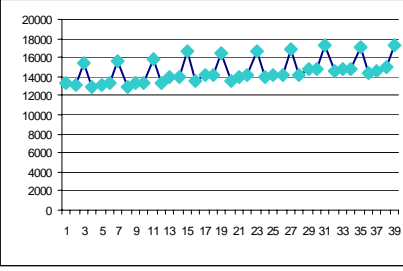
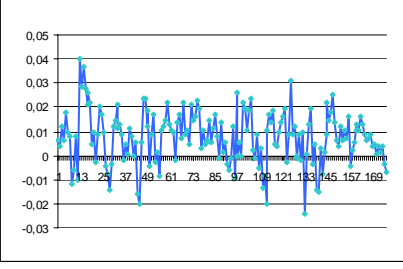
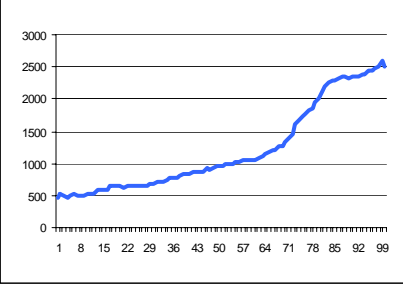
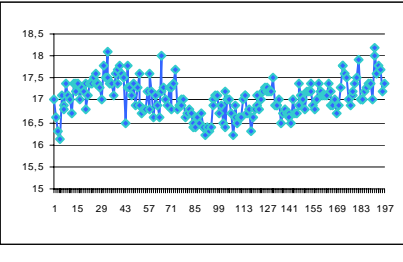
Série	Logiciel	Critère					
		SD	MAD	MAE	MAPE	RMSE	Erreur max
	Forecast Pro 4.2	918,7783	766,5000	1543,7510	0,4506	1796,4745	2981,2510
	ForeScope+ 1.0	916,3111	817,8032	866,9217	0,2979	928,0838	1453,8423
	KTS - 304	656,9977	539,9017	539,9017	0,2095	657,9704	1159,3600
	SAS 8.2	942,9464	793,9490	1493,4435	0,4287	1764,6162	2905,5351
	SPSS - Decision Time 1.1	918,7783	766,5000	1176,0067	0,3399	1418,8998	2518,7600
	Statgraphics 5.1	908,4438	748,2722	725,4500	0,2584	911,6246	1573,7300
	Forecast Pro 4.2	3,1000	3,1000	12,3280	0,1081	12,7118	15,4280
	ForeScope+ 1.0	3,1000	3,1000	11,6000	0,1017	12,0071	14,7000
	KTS - 304						
	SAS 8.2	2,6509	2,6509	12,3800	0,1087	12,6606	15,0309
	SPSS - Decision Time 1.1	2,6509	2,6509	12,1781	0,1069	12,4633	14,8290
	Statgraphics 5.1	3,1000	3,1000	12,8670	0,1129	13,2352	15,9670
	Forecast Pro 4.2	9,6130	7,7639	7,9167	0,0529	9,8362	20,0000
	ForeScope+ 1.0	9,6701	7,8227	9,6051	0,0626	11,5202	22,1166
	KTS - 304	11,5332	9,5423	13,1059	0,0887	14,9046	26,9350
	SAS 8.2	10,1099	8,5725	8,3922	0,0584	10,2092	17,0039
	SPSS - Decision Time 1.1	10,1527	8,6764	10,0372	0,0680	12,4692	23,7245
	Statgraphics 5.1	10,4253	8,3429	8,1801	0,0589	11,0180	24,1230
	Forecast Pro 4.2	238,5933	213,0472	249,0269	0,0992	305,4268	530,5210
	ForeScope+ 1.0	245,1669	218,5392	260,6529	0,1065	315,3185	544,0891
	KTS - 304	286,9109	251,1092	280,1108	0,1111	354,3895	705,1400
	SAS 8.2	224,8254	189,8545	195,2947	0,0811	232,7384	389,1634
	SPSS - Decision Time 1.1	246,4991	217,6024	258,1242	0,0997	328,4258	596,4700
	Statgraphics 5.1	283,8730	233,0775	313,2592	0,1244	374,3731	676,8800
	Forecast Pro 4.2	2332,7459	1802,9280	1919,1257	0,0885	2476,4753	5226,9470
	ForeScope+ 1.0	2576,7366	2100,8464	2014,5007	0,0933	2628,3022	5959,5273
	KTS - 304	2884,3310	2339,5292	2370,3417	0,1158	3551,2547	8500,6000
	SAS 8.2	2620,1164	2068,8556	1988,8021	0,0932	2699,3014	6344,2929
	SPSS - Decision Time 1.1	2710,1163	2183,8736	2153,9417	0,1040	3109,4212	7502,7000
	Statgraphics 5.1	2676,1159	2076,9236	2176,2417	0,1024	3044,8379	7657,9000
	ForeScope+ 1.0	1649,5875	1284,3554	1362,2374	1,9939	1880,8007	4767,4492
	KTS - 304	2014,2271	1594,2142	2123,4808	2,8634	2655,1884	5274,1400
	SAS 8.2	1716,1322	1360,0268	1675,1068	2,3801	2204,1044	4785,6079
	SPSS - Decision Time 1.1	1371,4188	1053,5414	1615,7233	2,2228	2070,4786	4734,7200
	Statgraphics 5.1	1533,7649	1209,9778	1441,4050	2,2200	2001,4522	4709,3600

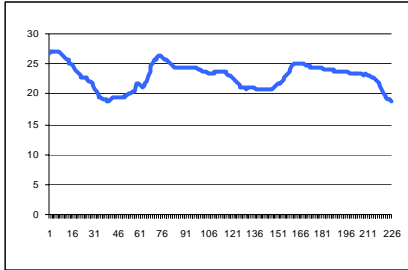
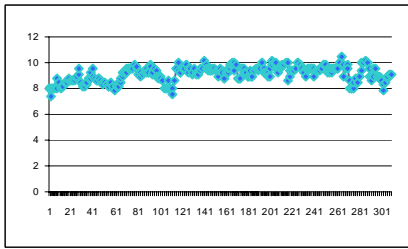
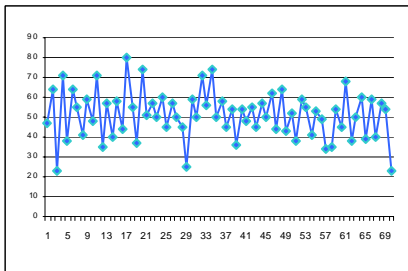
Série	Logiciel	Critère					
		SD	MAD	MAE	MAPE	RMSE	Erreur max
S18 	Forecast Pro 4.2	797,6552	615,0716	648,4912	0,0758	812,8748	1856,9010
	ForeScope+ 1.0	733,3532	572,2704	630,7676	0,0730	754,0585	1691,7168
	KTS - 304	566,7363	471,7444	733,4500	0,0785	811,7326	1234,9900
	SAS 8.2	742,7003	575,2204	687,9535	0,0765	816,0775	1576,6083
	SPSS - Decision Time 1.1	755,8183	573,8822	618,7392	0,0722	767,7047	1803,8100
	Statgraphics 5.1	880,2066	634,1450	631,8525	0,0807	924,2501	2539,6100
S19 	Forecast Pro 4.2	658,2547	509,7527	1148,1157	0,1202	1323,4307	2379,4620
	ForeScope+ 1.0	805,3677	632,1302	2316,4900	0,2427	2452,4973	3396,2207
	KTS - 304	737,3748	556,7658	698,5308	0,0751	866,4830	1739,5000
	SAS 8.2	686,8671	574,3401	1295,8707	0,1367	1466,6517	2454,1354
	SPSS - Decision Time 1.1	607,8243	486,7800	1563,7433	0,1648	1677,7198	2640,3400
	Statgraphics 5.1	885,1196	703,1292	969,8008	0,1018	1176,2425	2532,8400
S20 	Forecast Pro 4.2	3,6396	2,8029	3,9574	0,0156	5,1334	11,0910
	ForeScope+ 1.0	3,6445	3,0386	4,3175	0,0169	5,4984	10,8921
	KTS - 304	4,2829	3,9753	4,1533	0,0163	4,4142	5,9850
	SAS 8.2	3,8709	3,2876	3,0491	0,0119	4,1269	9,2369
	SPSS - Decision Time 1.1	3,6022	3,2102	3,2412	0,0129	3,8945	8,0823
	Statgraphics 5.1	4,0003	3,2863	3,1677	0,0125	4,1338	8,9720
S21 	Forecast Pro 4.2	6,9874	5,1027	5,8268	0,1018	8,2040	23,2790
	ForeScope+ 1.0	7,6677	5,8974	6,7691	0,1143	8,7725	23,8329
	KTS - 304	7,7188	6,7552	7,1856	0,1160	8,8103	19,5434
	SAS 8.2	7,5627	5,9399	8,1240	0,1370	10,8404	26,2447
	SPSS - Decision Time 1.1	8,3569	6,9207	7,7070	0,1247	9,8204	18,7313
	Statgraphics 5.1	7,7059	5,8959	6,7655	0,1144	8,7849	23,9480
S22 	Forecast Pro 4.2	667,1769	580,6782	2091,3567	0,7739	2195,1988	3437,7680
	ForeScope+ 1.0	656,4512	556,1054	1486,0513	0,5774	1624,5851	2695,4793
	KTS - 304	818,7549	686,5623	2292,2458	0,8940	2434,0810	3620,1960
	SAS 8.2	817,2462	719,7303	2253,0445	0,8418	2396,6853	3585,0464
	SPSS - Decision Time 1.1	635,4432	541,2046	1496,7116	0,5690	1626,0177	2691,5160
	Statgraphics 5.1	573,5648	526,3536	1877,6033	0,7043	1963,2551	2660,6660
S23 	ForeScope+ 1.0	1,2425	1,0032	1,1220	0,0114	1,4024	3,1175
	KTS - 304	1,8534	1,5180	1,6480	0,0167	2,1676	5,6094
	SAS 8.2	1,3833	1,1005	1,1106	0,0113	1,3903	3,0734
	SPSS - Decision Time 1.1	1,3947	1,1254	1,4150	0,0144	1,7412	4,0095
	Statgraphics 5.1	1,2794	1,1344	1,3234	0,0133	1,6891	3,3043

Série	Logiciel	Critère						
		SD	MAD	MAE	MAPE	RMSE	Erreur max	
S24		Forecast Pro 4.2	473,5723	391,5980	306,9946	0,1255	516,3517	1321,4900
	ForeScope+ 1.0	707,7746	567,7494	1171,2746	0,4804	1368,5134	2638,5969	
	KTS - 304	329,1678	237,8833	445,8533	0,1890	531,5614	1026,3300	
	SAS 8.2	355,6616	260,2414	321,5650	0,1313	435,0390	996,7983	
	SPSS - Decision Time 1.1	576,9066	465,7838	889,1675	0,3736	1059,9246	1966,0100	
	Statgraphics 5.1	399,3903	322,7051	360,8258	0,1334	420,0101	669,2600	
S25		Forecast Pro 4.2	0,5603	0,4208	0,5275	0,0348	0,6383	1,0350
	ForeScope+ 1.0	0,5603	0,4208	0,6042	0,0397	0,7007	1,1500	
	KTS - 304	0,4931	0,3886	0,4730	0,0311	0,5729	0,9454	
	SAS 8.2	0,5943	0,4572	0,4869	0,0324	0,6149	1,2360	
	SPSS - Decision Time 1.1	0,5603	0,4208	0,6042	0,0397	0,7008	1,1500	
	Statgraphics 5.1	0,5806	0,4397	0,5502	0,0363	0,6578	1,0472	
S26		Forecast Pro 4.2	523,8908	445,1376	438,2899	0,0132	525,9311	1098,2060
	ForeScope+ 1.0	1262,9105	952,6573	1970,2161	0,0596	2340,2339	4633,2172	
	KTS - 304	535,4331	470,6508	727,7158	0,0222	880,3763	1644,2000	
	SAS 8.2	2892,9258	2318,1149	5454,3733	0,1648	6174,0754	10943,6321	
	SPSS - Decision Time 1.1	563,2103	484,9625	484,9625	0,0145	615,1776	1396,7000	
	Statgraphics 5.1	1658,7116	1270,3485	2613,1958	0,0790	3095,1763	5958,5000	
S27		Forecast Pro 4.2	192,5371	172,1238	196,5028	0,0585	249,3412	479,0470
	ForeScope+ 1.0	239,0914	179,9185	323,4847	0,0854	388,0637	760,9102	
	KTS - 304	311,2455	242,2406	373,6400	0,0895	478,3989	1036,0000	
	SAS 8.2	188,7856	137,5719	163,6411	0,0431	204,3439	465,0668	
	SPSS - Decision Time 1.1	255,2390	185,9500	223,5233	0,0565	285,1778	648,6400	
	Statgraphics 5.1	189,5667	144,7525	208,3992	0,0534	241,1137	458,2700	
S28		Forecast Pro 4.2	149,4335	128,2427	128,2427	0,0166	150,0836	252,9550
	ForeScope+ 1.0	150,5294	129,1657	150,7184	0,0196	191,8783	370,2412	
	KTS - 304	154,0950	133,7222	172,6533	0,0224	217,4347	397,3900	
	SAS 8.2	150,8300	126,5862	165,4443	0,0215	209,2736	424,4882	
	SPSS - Decision Time 1.1	152,5877	127,4317	142,2067	0,0184	183,1502	373,0700	
	Statgraphics 5.1	172,3702	155,1117	157,0000	0,0204	182,6859	313,8600	
S29		Forecast Pro 4.2	0,5631	0,4912	0,6097	0,2133	0,7147	1,1860
	ForeScope+ 1.0	0,4860	0,4356	0,7057	0,2421	0,8265	1,3185	
	KTS - 304	0,4865	0,4129	0,5271	0,1940	0,6106	1,0970	
	SAS 8.2	0,6591	0,5266	0,7415	0,2987	0,8415	1,5260	
	SPSS - Decision Time 1.1	0,6583	0,5257	0,7217	0,2909	0,8174	1,4864	
	Statgraphics 5.1	0,6385	0,5596	0,7122	0,2524	0,8255	1,3801	

Série	Logiciel	Critère					
		SD	MAD	MAE	MAPE	RMSE	Erreur max
S30 	Forecast Pro 4.2	0,7870	0,6261	2,6131	0,0224	2,7290	3,6350
	ForeScope+ 1.0	0,4205	0,3435	1,9287	0,0166	1,9740	2,4416
	KTS - 304	0,4351	0,3926	0,8723	0,0075	0,9748	1,5500
	SAS 8.2	0,8531	0,7725	1,0251	0,0088	1,3049	2,2339
	SPSS - Decision Time 1.1	0,7645	0,6899	0,9114	0,0078	1,1590	1,9961
	Statgraphics 5.1	0,2896	0,2477	1,6637	0,0143	1,6887	1,9870
S31 	Forecast Pro 4.2	17,1660	17,1660	36,0980	0,0029	39,9717	53,2640
	ForeScope+ 1.0	6,5737	6,5737	6,5737	0,0005	6,9354	8,7842
	KTS - 304						
	SAS 8.2	14,5770	14,5770	30,0406	0,0024	33,3905	44,6176
	SPSS - Decision Time 1.1	8,0000	8,0000	8,6000	0,0007	11,7456	16,6000
	Statgraphics 5.1	11,1500	11,1500	24,7500	0,0020	27,1456	35,9000
S32 	Forecast Pro 4.2	2,1413	1,9047	4,4798	0,0426	4,9653	6,8590
	ForeScope+ 1.0	0,7569	0,6603	1,1600	0,0108	1,3851	2,6559
	KTS - 304	0,8612	0,6647	0,6758	0,0065	0,8672	1,5950
	SAS 8.2	0,9760	0,8289	1,5791	0,0147	1,8492	3,2112
	SPSS - Decision Time 1.1	12,1285	10,3929	13,2244	0,1281	17,9439	37,5414
	Statgraphics 5.1	7,0808	6,1731	10,2272	0,0983	12,4391	22,7881
S33 	Forecast Pro 4.2	4,7935	3,7431	4,2782	0,0424	5,1080	9,2730
	ForeScope+ 1.0	4,2291	3,5548	3,5555	0,0349	4,3423	8,1284
	KTS - 304	3,5993	2,1897	2,5462	0,0254	4,0071	12,1353
	SAS 8.2	3,5763	2,0154	2,2230	0,0224	3,6105	9,6663
	SPSS - Decision Time 1.1	3,6363	2,0203	2,0573	0,0207	3,7126	11,0570
	Statgraphics 5.1	3,9387	3,2300	3,5772	0,0356	4,3922	10,0000
S34 	Forecast Pro 4.2	4,7022	3,4362	4,7480	0,0114	5,4319	11,7400
	ForeScope+ 1.0	4,2252	3,3746	5,7904	0,0138	6,6606	13,6339
	KTS - 304	5,5341	4,0844	5,1955	0,0125	6,1411	13,5835
	SAS 8.2	4,7022	3,4362	4,7472	0,0114	5,4313	11,7389
	SPSS - Decision Time 1.1	4,7022	3,4362	4,7480	0,0114	5,4319	11,7400
	Statgraphics 5.1	5,2908	3,8360	4,1500	0,0100	5,3614	12,7690
S35 	Forecast Pro 4.2	273,8072	226,2418	221,9260	0,0068	286,5642	706,0410
	ForeScope+ 1.0	351,9152	282,6818	357,7215	0,0111	455,5113	1061,0547
	KTS - 304	315,0363	252,9511	264,1333	0,0082	347,2791	817,0000
	SAS 8.2	321,6377	258,4521	275,7503	0,0085	363,4149	861,1891
	SPSS - Decision Time 1.1	407,0193	326,2933	456,3833	0,0142	572,7186	1314,0000
	Statgraphics 5.1	355,1558	284,4058	345,8000	0,0107	446,9180	1057,6000

Série	Logiciel	Critère					
		SD	MAD	MAE	MAPE	RMSE	Erreur max
S36 	Forecast Pro 4.2	9,6977	7,7511	24,7667	0,0711	26,5976	47,0000
	ForeScope+ 1.0	13,0705	10,8588	37,9052	0,1086	40,0954	64,7367
	KTS - 304	9,2101	7,4979	22,4883	0,0646	24,3012	43,7660
	SAS 8.2	9,2018	7,5036	21,9307	0,0630	23,7830	43,1036
	SPSS - Decision Time 1.1	9,5151	7,5995	23,5250	0,0676	25,3764	45,5159
	Statgraphics 5.1	9,6977	7,7511	24,7667	0,0711	26,5976	47,0000
S37 	Forecast Pro 4.2	46,9673	40,9289	40,9138	0,1761	46,9675	86,0060
	ForeScope+ 1.0	26,3332	21,8944	22,2585	0,0907	26,8936	53,3535
	KTS - 304	26,3447	21,3147	23,0132	0,0926	28,3876	60,7540
	SAS 8.2	32,4176	24,7359	26,0065	0,1072	33,3841	76,5973
	SPSS - Decision Time 1.1	32,4013	25,0284	26,3228	0,1089	33,2331	75,3563
	Statgraphics 5.1	47,2456	35,4566	36,8502	0,1761	54,1096	160,1890
S38 	Forecast Pro 4.2	123,7068	46,5244	40,0547	0,4370	124,0449	671,6180
	ForeScope+ 1.0	123,6794	46,4275	41,3001	0,4444	123,9079	669,7625
	KTS - 304						
	SAS 8.2	123,7068	46,5244	37,7509	0,3706	124,3597	675,1929
	SPSS - Decision Time 1.1	123,7033	46,4950	37,8606	0,3752	124,3677	675,1944
	Statgraphics 5.1	123,7015	46,5025	37,8096	0,3728	124,3628	675,1929
S39 	Forecast Pro 4.2	2,8097	2,6024	13,3537	1,0000	13,6461	18,0660
	ForeScope+ 1.0	2,8097	2,6024	2,8151	0,2577	3,6014	6,3951
	KTS - 304	2,9501	2,4639	4,2041	0,2936	4,9966	8,6605
	SAS 8.2	2,8097	2,6024	2,8148	0,2577	3,6010	6,3945
	SPSS - Decision Time 1.1	2,8170	2,5918	2,8388	0,2599	3,6359	6,7315
	Statgraphics 5.1	2,8097	2,6024	2,8144	0,2576	3,6003	6,3934
S40 	Forecast Pro 4.2	692,6518	607,9300	748,1948	0,0183	899,1857	1500,3750
	ForeScope+ 1.0	658,4173	578,8545	651,8379	0,0160	724,1752	1208,1445
	KTS - 304	672,6458	633,2875	767,9375	0,0189	919,0523	1487,1000
	SAS 8.2	772,3792	682,3485	898,4131	0,0221	1148,0149	2096,4819
	SPSS - Decision Time 1.1	694,2437	608,2875	752,2375	0,0184	904,8408	1517,3000
	Statgraphics 5.1	681,3545	597,9844	732,4875	0,0180	868,1598	1436,6000
S41 	Forecast Pro 4.2	5403,8910	4505,2299	12290,7275	0,0892	13426,2437	21796,1480
	ForeScope+ 1.0	7846,7252	6729,1631	9357,8662	0,0710	11947,2663	23135,1797
	KTS - 304	8037,2269	5711,7500	12478,5000	0,0924	13482,2932	22611,0000
	SAS 8.2	4780,2118	3966,8250	14024,8041	0,1009	14817,0697	22328,5886
	SPSS - Decision Time 1.1	6434,7180	5383,1875	9578,7500	0,0720	11539,4128	21891,0000
	Statgraphics 5.1	6447,6951	5376,9375	9609,7500	0,0723	11572,3838	21993,0000

Série	Logiciel	Critère					
		SD	MAD	MAE	MAPE	RMSE	Erreur max
S42 	Forecast Pro 4.2	681,5861	639,1369	741,6035	0,1333	1007,2414	1793,2210
	ForeScope+ 1.0	626,5617	565,0202	524,8334	0,0921	761,2064	1453,2090
	KTS - 304	616,6526	541,1266	592,0263	0,1058	802,9093	1482,2100
	SAS 8.2	650,5855	609,9947	668,4138	0,1194	932,7585	1678,9187
	SPSS - Decision Time 1.1	614,6742	578,4950	621,4000	0,1112	874,0494	1599,4300
	Statgraphics 5.1	616,4761	568,6550	525,7950	0,0911	800,1020	1520,8900
S43 	Forecast Pro 4.2	25,3888	21,3786	19,0198	0,0309	27,8515	59,2090
	ForeScope+ 1.0	27,4639	23,6535	21,8062	0,0354	29,0230	59,8862
	KTS - 304	22,7455	17,4950	83,4750	0,1349	86,5184	123,4710
	SAS 8.2	49,6556	41,7979	56,8064	0,0894	67,9152	122,8267
	SPSS - Decision Time 1.1	33,4409	28,7693	26,3929	0,0430	35,5309	73,7979
	Statgraphics 5.1	22,3807	16,3724	23,8215	0,0390	29,9591	64,6610
S44 	Forecast Pro 4.2	140,4473	121,0886	124,5760	0,0082	146,7111	246,4040
	ForeScope+ 1.0	137,8712	119,7500	124,4733	0,0082	154,0744	272,7596
	KTS - 304	226,8890	180,4438	383,1750	0,0251	441,5733	763,0000
	SAS 8.2	149,5421	129,7427	128,0179	0,0084	153,7586	251,1589
	SPSS - Decision Time 1.1	205,6578	161,8906	410,9875	0,0269	459,5714	768,8000
	Statgraphics 5.1	148,0098	131,1000	126,2500	0,0083	152,9856	248,0000
S45 	Forecast Pro 4.2	0,0038	0,0031	0,0071	3,0083	0,0080	0,0145
	ForeScope+ 1.0	0,0038	0,0031	0,0076	3,2149	0,0084	0,0149
	KTS - 304	0,0026	0,0021	0,0045	2,0810	0,0051	0,0083
	SAS 8.2	0,0038	0,0031	0,0071	3,0370	0,0081	0,0146
	SPSS - Decision Time 1.1	0,0038	0,0031	0,0072	3,0563	0,0081	0,0146
	Statgraphics 5.1	0,0038	0,0031	0,0072	3,0571	0,0081	0,0146
S46 	Forecast Pro 4.2	69,3301	57,4881	122,5709	0,0490	140,8200	249,5590
	ForeScope+ 1.0	30,7121	22,5605	33,6661	0,0134	44,8004	102,0015
	KTS - 304	38,8753	27,7709	54,5888	0,0218	67,0166	143,7700
	SAS 8.2	52,7887	42,0809	88,8736	0,0355	103,3690	197,9447
	SPSS - Decision Time 1.1	47,1305	35,9813	76,5813	0,0306	89,9220	177,9000
	Statgraphics 5.1	53,0224	42,2513	94,8213	0,0379	108,6390	203,9800
S47 	Forecast Pro 4.2	0,3602	0,2911	0,4122	0,0233	0,5218	1,1530
	ForeScope+ 1.0	0,3567	0,2930	0,3677	0,0208	0,4759	1,1140
	KTS - 304	0,3387	0,2818	0,2833	0,0162	0,3390	0,6829
	SAS 8.2	0,3531	0,2877	0,3431	0,0194	0,4397	1,0175
	SPSS - Decision Time 1.1	0,3531	0,2877	0,3430	0,0194	0,4397	1,0175
	Statgraphics 5.1	0,3531	0,2877	0,3433	0,0194	0,4399	1,0179

Série		Logiciel	Critère					
			SD	MAD	MAE	MAPE	RMSE	Erreur max
S48		Forecast Pro 4.2	1,5562	1,4111	1,5349	0,0774	2,1274	4,0020
		ForeScope+ 1.0	1,3978	1,2693	1,3109	0,0662	1,8405	3,4798
		KTS - 304	1,3793	1,2534	1,2361	0,0626	1,7587	3,3937
		SAS 8.2	1,5554	1,4104	1,5333	0,0774	2,1256	3,9991
		SPSS - Decision Time 1.1	1,5571	1,4119	1,5368	0,0775	2,1295	4,0053
		Statgraphics 5.1	1,2138	1,1053	1,0540	0,0532	1,4801	2,8580
S49		Forecast Pro 4.2	0,4126	0,3098	0,3625	0,0421	0,4781	1,2200
		ForeScope+ 1.0	0,4126	0,3098	0,3651	0,0424	0,4799	1,2237
		KTS - 304	0,5489	0,4767	0,9093	0,1047	1,0462	1,9900
		SAS 8.2	0,4003	0,3049	0,3125	0,0361	0,4267	1,1032
		SPSS - Decision Time 1.1	0,4003	0,3049	0,3125	0,0361	0,4267	1,1032
		Statgraphics 5.1	0,4127	0,3098	0,3646	0,0423	0,4796	1,2231
S50		Forecast Pro 4.2	12,8437	11,0400	10,8000	0,2837	12,9720	27,6200
		ForeScope+ 1.0	13,0549	11,8123	11,8123	0,3117	14,2481	23,6289
		KTS - 304	12,4676	11,4933	11,4933	0,2799	12,4678	22,7968
		SAS 8.2	12,8437	11,0400	10,8000	0,2888	13,1278	28,5167
		SPSS - Decision Time 1.1	12,4265	10,7182	10,5138	0,2840	12,7715	28,5673
		Statgraphics 5.1	12,4217	10,7130	10,5113	0,2839	12,7634	28,5511