Fama_McBeth Replication Table

Table 1

			Summary of periods and securities															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		16
	tfolio mation od	1926- 1929	1927- 1933			1939- 1945	1943- 1949	1947- 1953		1955- 1961	1959- 1965		1967- 1973	1971- 1977	1975- 1981	1979- 1985		
Initi Esti Peri	mation		1934- 1938						1958- 1962							1986- 1990	199	
Test Peri	_	1935- 1938	1939- 1942									1975- 1978		1983- 1986	1987- 1990	1991- 1994	199	
	of urities ilable	802	862	912	893	927	1036	1092	1189	1320	1668	1921	2525	2405	2464	2659	296	62
Me Dat	urities eting	489 nt	700	703	778	800	862	991	1037	1054	1137	1431	1574	2207	2152	2037	20	74
	Portfo	olio Fo			imation			ting P	eriods	5								
6	7																	
		8	9	10	11	12	13	14	15	16	5 1	7 1	8 1	9 2	20	21	22	
943- 949		1951-		1959-	1963-				1979-	1983-	- 1987	- 1991	- 1995	5- 199	9- 200		 07- 1	
949	1953	1951- 1957	1955- 1961 1962-	1959- 1965	1963- 1969	1967- 1973	1971- 1977 1978-	1975- 1981 1982-	1979- 1985 1986-	1983- 1989 1990-	- 1987) 1993 - 1994	- 1991 3 199 - 1998	- 1995 7 200	5- 199 1 200 2- 200	9- 200 05 20	0- 20°)))) 14-	20°
949 50- 954	1953 1954- 1958 1959-	1951- 1957 1958- 1962 1963-	1955- 1961 1962- 1966	1959- 1965 1966- 1970	1963- 1969 1970- 1974	1967- 1973 1974- 1978	1971- 1977 1978- 1982	1975- 1981 1982- 1986	1979- 1985 1986- 1990	1983- 1989- 1990- 1994- 1995-	- 1987 - 1993 - 1994 + 1998 - 1999	- 1991 3 199 - 1998 8 200	- 1995 7 200 1- 2002 2 200	5- 199 1 200 2- 200 6 20	9- 200 05 20 6- 201 10 20	0- 20° 114 20° 5- 20°	07- 1 013 14- 1 018	20 20 20
949 50- 954 55-	1953 1954- 1958 1959-	1951- 1957 1958- 1962 1963-	1955- 1961 1962- 1966	1959- 1965 1966- 1970	1963- 1969 1970- 1974	1967- 1973 1974- 1978	1971- 1977 1978- 1982 1983-	1975- 1981 1982- 1986	1979- 1985 1986- 1990 1991- 1994	1983 1989 1990 1994 1995 1998	- 1987 - 1993 - 1994 1 1998 - 1999 3 2000	- 1991 3 199 - 1998 8 200 - 2003 2 200	- 1995 7 200 1- 2002 2 200 1- 2007 6 201	5- 199 1 200 2- 200 6 20 7- 201 0 20	9- 200 05 20 6- 201 10 20 1- 201 14 20	0- 20° 114 20° 5- 20° 18 20°	07- 1 013 14- 1 018	20 20 20

Table 2

Sample selected for four selected estimation periods													
	_			•						•			
Statistic	1	2	3		4	5	6		7	8	9		10
Portfolios for Estimation Period 1934				5405	0.504		70.00	700	0.700				
$\beta_{p,t-1}$	0.20										22 0.80		
$s(\beta)$	0.21				0.129					6 0.16			
$R^2\left(r(R_p,R_m)^2\right)$	0.11										82 0.37		
$s(R_p)$	0.05						74 0.0				22 0.08		
$s(\varepsilon_p)$	0.05										67 0.06		
$\bar{s}(arepsilon_i)$	0.03						14 0.0				89 0.06		
$\frac{s(\varepsilon_p)}{\bar{s}(\varepsilon_i)}$	0.65	514 0.6	903 0.	.662	0.710	1 0.68	98 0.70	026	0.714	0.83	27 0.86	32	0.83
Portfolios for Estimation Period 1942	2-46												
$\beta_{p,t-1}$	0.20	0.4	308 0.	.5105	0.564	8 0.61	72 0.6	703	0.723	6 0.77	22 0.80	93	0.86
s(eta)	0.21	169 0.1	34 0.	.1246	0.129	0.14	25 0.1	412	0.145	6 0.16	4 0.18	36	0.21
$R^2\left(r(R_p,R_m)^2\right)$	0.14	188 0.2	206 0	.2879	0.286	5 0.34	56 0.3	662	0.399	2 0.35	82 0.37	11	0.39
$s(R_p)$	0.05	573 0.0	617 0	.0619	0.066	8 0.06	74 0.0	7	0.072	6 0.08	22 0.08	857	0.08
$s(arepsilon_p)$	0.05	522 0.0	553 0	.0531	0.056	9 0.05	53 0.0	563	0.057	2 0.06	67 0.06	92	0.06
$\bar{s}(arepsilon_i)$	0.03	307 0.0	409 0	.0449	0.048	3 0.05	14 0.0	54	0.056	2 0.05	89 0.06	18	0.06
$s(\varepsilon_p)$	0.65	514 0.6	903 0	.662	0.710	1 0.68	98 0.7	026	0.714	0.83	27 0.86	32	0.83
$\bar{s}(\varepsilon_i)$													
Portfolios for Estimation Period 1950-54	ı.												
$\{s_{p,t-1}\}_{p,t-1}$	0.1151	0.3621	0.45	64 0	542	0 6212	0.694	1 0	7606	0.8241	0.8874	4 0	043
(β)	0.2054										0.198		
$R^2 (r(R_p, R_m)^2)$	0.2034										0.198		
PARTICIPATION OF THE PROPERTY.	0.0786										0.0629		
(R_p)													
(ε_p)	0.0433												
(ε_i)	0.0257										0.050		
$\frac{(\epsilon_p)}{(\epsilon_i)}$	0.7387	0.7132	0.72	15 0.	7383	0.8333	0.915	5 0.	8923	0.9355	0.912	U	.9632
ortfolios for Estimation Period 1958-62	!												
$_{p,t-1}$	-0.0649	9 0.423	0.53	18 0.	6007	0.6654	0.720	7 0.	7673	0.8132	0.8689	9 0	.9224
(β)	0.407	0.2477	0.19	44 0.	2079	0.2113	0.219	8 0.	2104	0.236	0.2049	9 0	.196
$R^2\left(r(R_p,R_m)^2 ight)$	0.1505	0.1957	0.25	2 0.	242	0.2793	0.284	5 0.	2933	0.3319	0.333	5 0	.346
(R_p)	0.0712	0.0586	0.05	67 0.	0609	0.0646	0.064	4 0.	.0681	0.0707	0.072	1 0	.073
(ε_p)	0.059	0.0534	0.04	93 0.	0534	0.055	0.054	7 0.	.0577	0.0577	0.059	1 0	.059
(ε_i)	0.0228	0.0365	0.04	07 0.	0445	0.0479	0.050	5 0.	.0533	0.056	0.058	5 0	.0613
$\frac{(e_p)}{(e_i)}$	0.8811	0.7971	0.73	61 0.	798	0.8221	0.817	4 0.	8614	0.8616	0.882	4 0	.8819
ortfolios for Estimation Period 2006-10	-0 3337	0.1719	0 272	0.3	537 0	4480	0.5424	0.6	3216	0 6050	0.7638	0.9	8383
β)		0.1719									0.2054		
$r^{(p)} = \frac{r^{(p)}}{r^{(p)}} (r(R_p, R_m)^2)$	0.7306	0.2009											3937
	0.1036										0.0906		
R_p)													
ε_p)		0.0547											
(ε_i)	0.017	0.0332									0.0705		
$\frac{\varepsilon_p}{\varepsilon_i}$	U./608	0.5803	0.605	т 0.7	U35 0	./415	U.7887	0.8	248 (71rs.u	U.7878	0.8	BU68
ortfolios for Estimation Period 2018-22													
o, t-1	-0.314	0.0567	0.224	7 0.3	487 0	.4639	0.5619	0.6	3422 (0.7106	0.7758	0.8	8455
β)	0.4326	0.106	0.172	7 0.1	99 0	.2195	0.208	0.1	852 (0.1723	0.2308	0.2	2162
$^{2}\left(r(R_{p},R_{m})^{2} ight)$	0.0793	0.0963	0.143	2 0.1	727 0	.2381	0.2959	0.3	3834 (0.3979	0.3845	0.4	4189
R_p)	0.0755	0.0277	0.059	2 0.0	747 0	.0834	0.0894	0.0)827	0.0877	0.0977	0.1	1015
$\varepsilon_p)$	0.0711	0.0272	0.056	4 0.0	701 0	.0759	0.079	0.0)681 (0.0712	0.0803	0.0	0811
·													
(ε_i)	0.0047	0.0188	0.028	5 0.0	352 0	.0439	0.0513	0.0	1565	0.0617	0.067	0.0	0729

Table 2

					idbio E (Continue	٠,			
Statistic	11	12	13	14	15	16	17	18	19	20
Portfolios for Estimation Period 1934-38										
$\beta_{p,t-1}$	0.9243	0.9784	1.0313	1.1039	1.1849	1.2648	1.3719	1.5159	1.8073	3.2034
$s(\beta)$	0.1902	0.1688	0.1781	0.1945	0.2181	0.2447	0.2347	0.2572	0.2902	0.738
$R^2\left(r(R_p,R_m)^2\right)$	0.4067	0.4124	0.4441	0.4879	0.445	0.5108	0.489	0.4668	0.5064	0.4378
$s(R_p)$	0.0913	0.0937	0.0986	0.0985	0.1112	0.1148	0.1237	0.1403	0.1623	0.3234
$s(\varepsilon_p)$	0.0712	0.0724	0.0749	0.0711	0.0837	0.0799	0.0897	0.1032	0.1156	0.252
$ar{s}(arepsilon_i)$	0.0672	0.0703	0.0746	0.0779	0.0821	0.089	0.099	0.1143	0.1398	0.2788
$\frac{s(\varepsilon_p)}{\bar{s}(\varepsilon_i)}$	0.8882	0.9032	0.934	0.8873	1.0441	0.9976	1.1192	1.2872	1.4427	3.1445
Portfolios for Estimation Period 1942-46										
$\beta_{p,t-1}$	0.9243	0.9784	1.0313	1.1039	1.1849	1.2648	1.3719	1.5159	1.8073	3.2034
$s(\beta)$	0.1902	0.1688	0.1781	0.1945	0.2181	0.2447	0.2347	0.2572	0.2902	0.738
$R^2\left(r(R_v,R_m)^2\right)$	0.4067	0.4124	0.4441	0.4879	0.445	0.5108	0.489	0.4668	0.5064	0.4378
$s(R_p)$	0.0913	0.0937	0.0986	0.0985	0.1112	0.1148	0.1237	0.1403	0.1623	0.3234
$s(\varepsilon_p)$				0.0711						
$\bar{s}(\varepsilon_i)$				0.0779			0.099		0.1398	
$\frac{s(\varepsilon_p)}{s(\varepsilon_p)}$		0.9032				0.9976				
$\frac{\bar{s}(\varepsilon_i)}{\bar{s}(\varepsilon_i)}$	0.0002	0.5052	0.554	0.0073	1.0441	0.5570	1.1102	1.2072	1.4427	3.1443
Portfolios for Estimation Period 1950-54										
$\beta_{p,t-1}$	1.0076	1.0652	1.1172	1.1686	1.2294	1.2975	1.4076	1.5623	1.7302	2.2164
$s(\beta)$	0.2268	0.2169	0.2279	0.2433	0.245	0.2921	0.2632	0.2566	0.2804	0.5486
$R^2\left(r(R_p,R_m)^2 ight)$	0.2968	0.3335	0.347	0.3622	0.3439	0.3526	0.3877	0.4423	0.4444	0.4361
$s(R_p)$	0.0713	0.0708	0.073	0.0781	0.0797	0.0847	0.0864	0.0895	0.0975	0.1248
$s(arepsilon_p)$	0.0605	0.0585	0.0598	0.064	0.0653	0.0692	0.0686	0.0677	0.0735	0.0947
$ar{s}(arepsilon_i)$	0.0554	0.0582	0.0608	0.0636	0.0667	0.0703	0.0747	0.0823	0.0928	0.1285
$\frac{s(\varepsilon_p)}{\bar{s}(\varepsilon_i)}$	1.0319	0.9989	1.0209	1.0928	1.1141	1.1812	1.1708	1.156	1.2543	1.6157
Portfolios for Estimation Period 1958-62										
$\beta_{p,t-1}$	0.9774	1.0372	1.0991	1.1733	1.2536	1.3358	1.4316	1.5593	1.7264	2.3255
$s(\beta)$	0.2342	0.2681	0.2689	0.2786	0.2928	0.312	0.3096	0.36	0.3438	0.5276
$R^2\left(r(R_p,R_m)^2\right)$	0.345	0.3857	0.3678	0.3597	0.3733	0.4354	0.4158	0.4669	0.5087	0.6097
$s(R_p)$	0.0803	0.0846	0.0899	0.094	0.1004	0.1061	0.1091	0.1192	0.1255	0.1736
$s(\varepsilon_p)$	0.065	0.0661	0.0714	0.0751						
$\bar{s}(\varepsilon_i)$				0.0736						
$s(\varepsilon_p)$				1.1215				1.2734		
$\frac{-(v_p)}{\bar{s}(\varepsilon_i)}$	0.9704	0.9671	1.0073	1.1215	1.1007	1.1304	1.237	1.2734	1.2526	1.4005
ortfolios for Estimation Period 2006-10										
$\beta_{p,t-1}$										34 3.140
(β)										37 0.839
$R^2\left(r(R_p,R_m)^2\right)$	0.4038									02 0.476
$e(R_p)$										15 0.254
(ε_p)	0.0811	0.0941	0.0881	0.0942	0.102	8 0.113	9 0.122	0.14	0.16	19 0.186
$\epsilon(arepsilon_i)$	0.0826	0.0894	0.097	0.1049	0.114	1 0.125	8 0.139	0.15	78 0.18	71 0.274
$\frac{\epsilon(\varepsilon_p)}{\epsilon(\varepsilon_i)}$	0.8615	0.9994	0.9354	1.0004	1.091	2 1.209	6 1.295	66 1.49	75 1.71	93 1.979
ortfolios for Estimation Period 2018-22										
$S_{p,t-1}$	0.9235	0.999	1.0771	1.1603	3 1.264	9 1.390	8 1.552	7 1.75	77 2.08	47 3.169
(β)	0.2405	0.2188	0.2324	0.2233	0.329	2 0.322	0.350	0.39	29 0.54	97 0.959
$R^2\left(r(R_p,R_m)^2\right)$	0.4009	0.444	0.454	0.4543	3 0.423	1 0.421	8 0.439	0.45	74 0.41	45 0.438
(R_p)										58 0.304
(ε_p)										78 0.235
10.0E(0)										96 0.327
$i(\varepsilon_i)$										
$\frac{s(\varepsilon_p)}{\bar{\epsilon}(\varepsilon_i)}$	0.9746	0.8897	0.8904	0.9679	1.125	0 1.233	3 1.29	1.37	1.74	27 2.447

Table 2 (continue)

Table 3

	Table 3													
	Summary Result for the Regression													
Period	Yo	Y1	yo - Rf	s(y ₀)	s(y ₁)	t(y ₀)	t(y ₁)	t(y ₀ - R _f)	R ²	s(R ²)				
Panel A														
1935-6/68	0.007	0.0077	0.0057	5e-04	8e-04	14.4279	9.667	11.7333	0.02	8e-04				
1935-45	0.0031	0.0148	0.0029	0.0012	0.0017	2.6504	8.5429	2.5261	0.0351	0.0014				
1946-55	0.0044	0.0127	0.0034	7e-04	0.0011	6.7173	11.394	5.2665	0.0222	3e-04				
1956-6/68	0.0102	0.0024	0.0076	8e-04	0.0014	13.0905	1.6684	9.7322	0.0135	6e-04				
1935-40	-0.0041	0.0106	-0.0042	0.0021	0.0036	-1.951	2.9355	-1.9877	0.0106	0.0014				
1941-45	0.0044	0.0289	0.0042	0.0011	0.0016	4.0473	18.4003	3.8423	0.1499	8e-04				
1946-50	4e-04	0.0193	-3e-04	8e-04	0.0013	0.459	14.8404	-0.3561	0.0539	2e-04				
1951-55	0.0097	0.0018	0.0085	0.001	0.002	9.3593	0.94	8.1817	0.0179	4e-04				
1956-60	0.0179	-0.0079	0.0158	0.0012	0.0022	15.2092	-3.6805	13.417	0.0093	7e-04				
1961-6/68	0.0043	0.0089	0.0014	0.001	0.0019	4.3283	4.7794	1.3862	0.0916	5e-04				

Period	Yo	Y1	Y2	Y3	γ0 - R _f	s(y ₀)	s(y ₁)	s(y ₂)	t(y ₀)	t(Y1)	$t(\gamma_0 - R_f)$	R ²	s(R2)
Panel B													
1935- 6/68	0.00896	0.00213	0.00359	-0.00077	0.00766	0.00019	0.00044	0.00029	45.98454	4.79683	39.30938	0.02067	0.00083
1935-45	0.00688	0.00469	0.00527	-0.00112	0.00674	0.00049	0.00106	0.00064	14.17576	4.4416	13.88087	0.03643	0.00135
1946-55	0.00508	0.01065	-0.00211	-0.00035	0.00414	0.00027	0.00065	0.00046	18.72624	16.33837	15.24318	0.02236	0.00034
1956- 6/68	0.01404	-0.01116	0.01393	-0.0034	0.01143	0.00031	0.00088	0.00075	44.59515	-12.72588	36.31953	0.01573	6e-04
1935-40	0.00193	-0.00819	0.01384	-0.00347	0.00186	0.00096	0.00253	0.00193	2.01253	-3.24078	1.9316	0.0122	0.00142
1941-45	0.00698	0.0223	-0.00059	-0.00066	0.00676	0.00047	0.00098	0.00057	15.00147	22.64537	14.52516	0.151	0.00081
1946-50	-0.00532	0.03423	-0.0171	0.00204	-0.00599	0.00038	0.00088	0.00059	-13.85112	38.86384	-15.58119	0.06094	0.00023
1951-55	0.00688	0.01249	-0.00933	0.00304	0.00566	0.00044	0.00134	0.00124	15.5638	9.32822	12.79438	0.01929	0.00039
1956-60	0.01719	-0.00546	-0.00055	0.00058	0.01508	0.00048	0.00135	0.00114	35.72904	-4.03332	31.34764	0.00938	0.00065
1961- 6/68	0.01032	-0.01215	0.02231	-0.00567	0.00738	4e-04	0.00113	0.00099	25.57458	-10.74634	18.29448	0.09659	0.00048

Period	Yo	V1	V2	V3	γ_0 - R_f	s(y ₀)	s(y ₁)	s(y ₃)	t(y ₀)	$t(\gamma_1)$	t(y ₃)	$t(\gamma_0 - R_f)$	R ²	s(R2)
Panel D														
1935-6/68	0.009	6e-04	0.0049	-0.0011	0.0077	0.002	0.0057	0.0013	4.6019	0.1115	-0.8457	3.9393	0.0197	9e-04
1935-45	0.0075	0.0018	0.0062	-0.001	0.0073	0.0044	0.0126	0.0026	1.7081	0.1443	-0.3638	1.6755	0.033	0.0014
1946-55	0.0103	-0.0094	0.0183	-0.0063	0.0094	0.0024	0.0071	0.0017	4.2467	-1.329	-3.7747	3.858	0.0296	3e-04
1956-6/68	0.0128	-0.0051	0.0067	-0.0012	0.0102	0.0029	0.0085	0.0021	4.4849	-0.6015	-0.5774	3.572	0.0124	6e-04
1935-40	0.0098	-0.0364	0.0436	-0.0127	0.0097	0.0074	0.0239	0.0066	1.3171	-1.5228	-1.9236	1.3066	0.0125	0.0014
1941-45	0.0196	-0.0205	0.0393	-0.0109	0.0193	0.0044	0.0126	0.0025	4.4252	-1.6287	-4.3753	4.375	0.1666	8e-04
1946-50	0.0043	0.0039	0.0093	-0.0044	0.0036	0.0033	0.0093	0.002	1.2976	0.4155	-2.2312	1.0955	0.057	2e-04
1951-55	0.0105	-0.0025	0.0068	-0.0019	0.0093	0.0043	0.0148	0.0047	2.4552	-0.1712	-0.3993	2.1699	0.016	4e-04
1956-60	0.0064	0.0415	-0.0528	0.0168	0.0043	0.0038	0.0118	0.0029	1.684	3.5286	5.7123	1.1262	0.0442	6e-04
1961-6/68	0.0215	-0.0524	0.0632	-0.018	0.0185	0.0043	0.0124	0.0029	5.0192	-4.2179	-6.2703	4.3326	0.0973	5e-04