

經濟統計學

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1. 平方表

數	0	1	2	3	4	5	6	7	8	9
10	10000	10201	10404	10609	10816	11025	11236	11449	11664	11881
11	12100	12321	12544	12769	12996	13225	13456	13689	13924	14161
12	14400	14641	14884	15129	15376	15625	15876	16129	16384	16641
13	16900	17161	17424	17689	17956	18225	18496	18769	19044	19321
14	19600	19881	20164	20449	20736	21025	21316	21609	21904	22201
15	22500	22801	23104	23409	23716	24025	24336	24649	24964	25281
16	25600	25921	26244	26569	26896	27225	27556	27889	28224	28561
17	28900	29241	29584	29929	30276	30625	30976	31329	31684	32041
18	32400	32761	33124	33489	33856	34225	34596	34969	35344	35721
19	36100	36481	36864	37249	37636	38025	38416	38809	39204	39601
20	40000	40401	40804	41209	41616	42025	42436	42849	43264	43681
21	44100	44521	44944	45369	45796	46225	46656	47089	47524	47961
22	48400	48841	49284	49729	50176	50625	51076	51529	51984	52441
23	52900	53361	53824	54289	54756	55225	55696	56169	56644	57121
24	57600	58081	58564	59049	59536	60025	60516	61009	61504	62001
25	62500	63001	63504	64009	64516	65025	65536	66049	66564	67081
26	67600	68121	68644	69169	69696	70225	70756	71289	71824	72361
27	72900	73441	73984	74529	75076	75625	76176	76729	77284	77841
28	78400	78961	79524	80089	80656	81225	81796	82369	82944	83521
29	84100	84681	85264	85849	86436	87025	87616	88209	88804	89401
30	90000	90601	91204	91809	92416	93025	93636	94249	94864	95481
31	96100	96721	97344	97969	98596	99225	99856	100489	101124	101761
32	102400	103041	103684	104329	104976	105625	106276	106929	107584	108241
33	108900	109561	110224	110889	111556	112225	112896	113569	114244	114921
34	115600	116281	116964	117649	118336	119025	119716	120409	121104	121801
35	122500	123201	123904	124609	125316	126025	126736	127449	128164	128881
36	129600	130321	131044	131769	132496	133225	133956	134689	135424	136161
37	136900	137641	138384	139129	139876	140625	141376	142129	142884	143641
38	144400	145161	145924	146689	147456	148225	148996	149769	150544	151321
39	152100	152881	153664	154449	155236	156025	156816	157609	158404	159201
40	160000	160801	161604	162409	163216	164025	164836	165649	166464	167281
41	168100	168921	169744	170569	171396	172225	173056	173889	174724	175561
42	176400	177241	178084	178929	179776	180625	181476	182329	183184	184041
43	184900	185761	186624	187489	188356	189225	190096	190969	191844	192721
44	193600	194481	195364	196249	197136	198025	198916	199809	200704	201601
45	202500	203401	204304	205209	206116	207025	207936	208849	209764	210681
46	211600	212521	213444	214369	215296	216225	217156	218089	219024	219961
47	220900	221841	222784	223729	224676	225625	226576	227529	228484	229441
48	230400	231361	232324	233289	234256	235225	236196	237169	238144	239121
49	240100	241081	242064	243049	244036	245025	246016	247009	248004	249001
50	250000	251001	252004	253009	254016	255025	256036	257049	258064	259081
51	260100	261121	262144	263169	264196	265225	266256	267289	268324	269361
52	270400	271441	272484	273529	274576	275625	276676	277729	278784	279841
53	280900	281961	283024	284089	285156	286225	287296	288369	289444	290521
54	291600	292681	293764	294849	295936	297025	298116	299209	300304	301401

1. 平方表

數	0	1	2	3	4	5	6	7	8	9
55	302500	303601	304704	305809	306916	308025	309136	310249	311364	312481
56	313600	314721	315844	316969	318096	319225	320356	321489	322624	323761
57	324900	326041	327184	328329	329476	330625	331776	332929	334084	335241
58	336400	337561	338724	339889	341056	342225	343396	344569	345744	346921
59	348100	349281	350464	351649	352836	354025	355216	356409	357604	358801
60	360000	361201	362404	363609	364816	366025	367236	368449	369664	370881
61	372100	373321	374544	375769	376996	378225	379456	380689	381924	383161
62	384400	385641	386884	388129	389376	390625	391876	393129	394384	395641
63	396900	398161	399424	400689	401956	403225	404496	405769	407044	408321
64	409800	410881	411964	413049	414136	415225	416316	417409	418504	419601
65	422500	423501	424504	425509	426516	427525	428536	429549	430564	431581
66	433600	434621	435644	436669	437696	438725	439756	440789	441824	442861
67	444900	445941	446984	448029	449076	450125	451176	452229	453284	454341
68	455800	456861	457924	458989	460056	461125	462196	463269	464344	465421
69	466400	467481	468564	469649	470736	471825	472916	474009	475104	476201
70	480000	481101	482204	483309	484416	485525	486636	487749	488864	490081
71	504100	505221	506344	507469	508596	509725	510856	511989	513124	514261
72	518400	519541	520684	521829	522976	524125	525276	526429	527584	528741
73	532900	534061	535224	536389	537556	538725	539896	541069	542244	543421
74	547600	548881	550164	551449	552736	554025	555316	556609	557904	559201
75	562500	563801	565104	566409	567716	569025	570336	571649	572964	574281
76	577600	578921	580244	581569	582896	584225	585556	586889	588224	589561
77	592900	594241	595584	596929	598276	599625	600976	602329	603684	605041
78	608400	609861	611324	612789	614256	615725	617196	618669	620144	621621
79	624100	625681	627264	628849	630436	632025	633616	635209	636804	638401
80	640000	641601	643204	644809	646416	648025	649636	651249	652864	654481
81	656100	657721	659344	660969	662596	664225	665856	667489	669124	670761
82	672400	674041	675684	677329	678976	680625	682276	683929	685584	687241
83	688900	690561	692224	693889	695556	697225	698896	700569	702244	703921
84	705600	707281	708964	710649	712336	714025	715716	717409	719104	720801
85	722500	724201	725904	727609	729316	731025	732736	734449	736164	737881
86	739600	741321	743044	744769	746496	748225	749956	751689	753424	755161
87	756900	758641	760384	762129	763876	765625	767376	769129	770884	772641
88	774400	776161	777924	779689	781456	783225	784996	786769	788544	790321
89	792100	793881	795664	797449	799236	801025	802816	804609	806404	808201
90	810000	811801	813604	815409	817216	819025	820836	822649	824464	826281
91	828100	829921	831744	833569	835396	837225	839056	840889	842724	844561
92	846400	848241	850084	851929	853776	855625	857476	859329	861184	863041
93	864900	866761	868624	870489	872356	874225	876096	877969	879844	881721
94	885000	886881	888764	890649	892536	894425	896316	898209	899104	900001
95	902500	904401	906304	908209	910116	912025	913936	915849	917764	919681
96	921600	923521	925444	927369	929296	931225	933156	935089	937024	938961
97	940900	942841	944784	946729	948676	950625	952576	954529	956484	958441
98	960400	962361	964324	966289	968256	970225	972196	974169	976144	978121
99	980100	982081	984064	986049	988036	990025	992016	994009	996004	998001

2 倒 數 表

數	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09
1.0	1000	.990	.980	.971	.963	.952	.943	.935	.926	.917
1.1	.909	.901	.893	.885	.877	.870	.862	.855	.847	.840
1.2	.833	.826	.820	.813	.806	.800	.794	.787	.781	.775
1.3	.769	.763	.758	.752	.747	.741	.735	.730	.725	.719
1.4	.714	.709	.704	.699	.694	.690	.685	.680	.676	.671
1.5	.667	.662	.658	.654	.650	.645	.641	.637	.633	.629
1.6	.625	.621	.617	.613	.610	.606	.602	.599	.595	.592
1.7	.588	.585	.582	.578	.575	.571	.568	.565	.562	.559
1.8	.556	.552	.549	.546	.543	.541	.538	.535	.532	.529
1.9	.526	.524	.521	.518	.515	.513	.510	.508	.505	.503
2.0	.500	.498	.495	.493	.490	.488	.485	.483	.481	.478
2.1	.476	.474	.472	.469	.467	.465	.463	.461	.459	.457
2.2	.455	.452	.450	.448	.446	.444	.442	.441	.439	.437
2.3	.435	.433	.431	.429	.427	.426	.424	.422	.420	.418
2.4	.417	.415	.413	.412	.410	.408	.407	.405	.403	.402
2.5	.400	.398	.397	.395	.393	.392	.391	.389	.388	.386
2.6	.385	.383	.382	.380	.379	.377	.376	.375	.373	.372
2.7	.370	.369	.368	.366	.365	.364	.362	.361	.360	.358
2.8	.357	.356	.355	.353	.352	.351	.350	.348	.347	.346
2.9	.345	.344	.342	.341	.340	.339	.338	.337	.336	.334
3.0	.333	.332	.331	.330	.329	.328	.327	.326	.325	.324
3.1	.323	.322	.321	.319	.318	.317	.316	.315	.314	.313
3.2	.312	.311	.310	.309	.308	.307	.306	.305	.304	.303
3.3	.303	.302	.301	.300	.299	.299	.297	.296	.295	.295
3.4	.294	.293	.292	.291	.290	.289	.288	.287	.287	.287
3.5	.286	.285	.284	.283	.282	.281	.281	.280	.279	.279
3.6	.278	.277	.276	.275	.275	.274	.273	.272	.272	.271
3.7	.270	.270	.269	.268	.267	.267	.266	.265	.265	.264
3.8	.263	.262	.262	.261	.260	.260	.259	.258	.258	.257
3.9	.256	.256	.255	.254	.254	.253	.253	.252	.251	.251
4.0	.250	.249	.249	.248	.248	.247	.246	.246	.245	.244
4.1	.244	.243	.243	.242	.242	.241	.240	.240	.239	.239
4.2	.238	.238	.237	.236	.236	.235	.235	.234	.234	.233
4.3	.233	.232	.231	.231	.230	.230	.229	.229	.228	.228
4.4	.227	.227	.226	.226	.225	.225	.224	.224	.223	.223
4.5	.222	.222	.221	.221	.220	.220	.219	.219	.218	.218
4.6	.217	.217	.216	.216	.216	.215	.215	.214	.214	.213
4.7	.213	.212	.212	.211	.211	.211	.210	.210	.209	.209
4.8	.208	.208	.207	.207	.207	.206	.206	.205	.205	.204
4.9	.204	.204	.203	.203	.202	.202	.202	.201	.201	.200
5.0	.200	.200	.199	.199	.198	.198	.198	.197	.197	.197
5.1	.196	.196	.195	.195	.195	.194	.193	.193	.192	.192
5.2	.192	.192	.192	.191	.191	.191	.190	.190	.189	.189
5.3	.189	.188	.188	.188	.187	.187	.186	.186	.185	.185
5.4	.185	.185	.185	.184	.184	.184	.183	.183	.183	.182

2. 傾 數 表

數	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09
5.5	.1818	.1815	.1812	.1808	.1805	.1702	.1799	.1795	.1792	.1789
5.6	.1786	.1783	.1779	.1776	.1773	.1770	.1767	.1763	.1761	.1757
5.7	.1754	.1751	.1748	.1745	.1742	.1739	.1736	.1733	.1730	.1727
5.8	.1724	.1721	.1718	.1715	.1712	.1709	.1706	.1704	.1701	.1698
5.9	.1695	.1692	.1689	.1686	.1684	.1681	.1678	.1675	.1672	.1669
6.0	.1667	.1664	.1661	.1658	.1656	.1653	.1650	.1647	.1645	.1642
6.1	.1639	.1637	.1634	.1631	.1629	.1626	.1623	.1621	.1618	.1616
6.2	.1613	.1610	.1608	.1605	.1603	.1600	.1597	.1595	.1592	.1590
6.3	.1587	.1585	.1582	.1580	.1577	.1575	.1572	.1570	.1567	.1565
6.4	.1563	.1560	.1558	.1555	.1553	.1550	.1548	.1545	.1543	.1541
6.5	.1538	.1536	.1534	.1531	.1529	.1527	.1524	.1522	.1520	.1517
6.6	.1515	.1513	.1511	.1508	.1506	.1504	.1502	.1499	.1497	.1495
6.7	.1493	.1490	.1488	.1486	.1484	.1481	.1479	.1477	.1475	.1473
6.8	.1471	.1468	.1466	.1464	.1462	.1460	.1458	.1456	.1453	.1451
6.9	.1449	.1447	.1445	.1443	.1441	.1439	.1437	.1435	.1433	.1431
7.0	.1429	.1427	.1425	.1422	.1420	.1418	.1416	.1414	.1412	.1410
7.1	.1408	.1406	.1404	.1403	.1401	.1399	.1397	.1395	.1393	.1391
7.2	.1389	.1387	.1385	.1383	.1381	.1379	.1377	.1375	.1374	.1372
7.3	.1370	.1368	.1366	.1364	.1362	.1361	.1359	.1357	.1355	.1353
7.4	.1351	.1350	.1348	.1346	.1344	.1342	.1340	.1339	.1337	.1335
7.5	.1333	.1331	.1330	.1328	.1326	.1325	.1323	.1321	.1319	.1318
7.6	.1316	.1314	.1312	.1311	.1309	.1307	.1305	.1304	.1302	.1300
7.7	.1299	.1297	.1295	.1294	.1292	.1290	.1289	.1287	.1285	.1284
7.8	.1282	.1280	.1279	.1277	.1276	.1274	.1273	.1271	.1269	.1267
7.9	.1266	.1264	.1263	.1261	.1259	.1258	.1256	.1255	.1253	.1252
8.0	.1250	.1248	.1247	.1245	.1244	.1242	.1241	.1239	.1238	.1236
8.1	.1235	.1233	.1232	.1230	.1229	.1227	.1225	.1224	.1222	.1221
8.2	.1220	.1218	.1217	.1215	.1214	.1211	.1211	.1209	.1208	.1206
8.3	.1205	.1203	.1202	.1200	.1199	.1198	.1196	.1195	.1193	.1192
8.4	.1190	.1189	.1188	.1186	.1185	.1183	.1182	.1181	.1179	.1178
8.5	.1176	.1175	.1174	.1172	.1171	.1170	.1168	.1167	.1166	.1164
8.6	.1163	.1161	.1160	.1158	.1157	.1156	.1155	.1153	.1152	.1151
8.7	.1149	.1148	.1147	.1145	.1144	.1143	.1142	.1140	.1139	.1138
8.8	.1136	.1135	.1134	.1133	.1131	.1130	.1129	.1127	.1126	.1125
8.9	.1124	.1122	.1121	.1120	.1119	.1117	.1116	.1115	.1114	.1112
9.0	.1111	.1110	.1109	.1107	.1106	.1105	.1104	.1103	.1101	.1100
9.1	.1099	.1098	.1096	.1095	.1094	.1093	.1092	.1091	.1090	.1088
9.2	.1087	.1086	.1085	.1083	.1082	.1081	.1080	.1079	.1078	.1076
9.3	.1075	.1074	.1073	.1072	.1071	.1070	.1068	.1067	.1066	.1065
9.4	.1064	.1063	.1062	.1060	.1059	.1058	.1057	.1056	.1055	.1054
9.5	.1053	.1052	.1050	.1049	.1048	.1047	.1046	.1045	.1044	.1043
9.6	.1042	.1041	.1040	.1038	.1037	.1036	.1035	.1034	.1033	.1032
9.7	.1031	.1030	.1029	.1028	.1027	.1026	.1025	.1024	.1022	.1021
9.8	.1020	.1019	.1018	.1017	.1016	.1015	.1014	.1013	.1012	.1011
9.9	.1010	.1009	.1008	.1007	.1006	.1005	.1004	.1003	.1002	.1001

3. 對 數 表

數	0	1	2	3	4	5	6	7	8	9	補 插 數
1.0	.0000	.0043	.0086	.0128	.0170	.0212	.0253	.0294	.0334	.0374	38 36 34 32
2.	.0414	.0453	.0493	.0531	.0569	.0607	.0645	.0682	.0719	.0755	4 4 3 3
3.	.0792	.0828	.0864	.0899	.0934	.0969	.1004	.1038	.1072	.1106	8 7 7 0
4.	.1139	.1173	.1206	.1239	.1271	.1303	.1335	.1367	.1399	.1430	11 11 10 10
5.	.1461	.1492	.1523	.1553	.1584	.1614	.1644	.1673	.1703	.1732	15 14 14 13
6.	.1761	.1790	.1818	.1847	.1875	.1903	.1931	.1959	.1987	.2014	19 18 17 16
7.	.2041	.2068	.2095	.2122	.2148	.2175	.2201	.2227	.2253	.2279	23 22 20 19
8.	.2304	.2330	.2355	.2380	.2405	.2430	.2455	.2480	.2504	.2529	27 25 24 22
9.	.2553	.2577	.2601	.2625	.2648	.2672	.2695	.2718	.2742	.2765	30 29 27 26
10.	.2788	.2810	.2833	.2856	.2878	.2900	.2923	.2945	.2967		34 32 31 29
2.0	.3010	.3032	.3054	.3075	.3096	.3118	.3139	.3160	.3181	.3201	30 28 26 24
1.	.3222	.3243	.3263	.3284	.3304	.3324	.3345	.3365	.3385	.3404	3 3 3 2
2.	.3424	.3444	.3464	.3483	.3502	.3522	.3541	.3560	.3579	.3598	6 6 5 5
3.	.3617	.3636	.3655	.3674	.3692	.3711	.3729	.3747	.3766	.3784	9 8 8 7
4.	.3802	.3820	.3838	.3856	.3874	.3892	.3909	.3927	.3945	.3962	12 11 10 10
5.	.3979	.3997	.4014	.4031	.4048	.4065	.4082	.4099	.4116	.4133	15 14 13 12
6.	.4150	.4166	.4183	.4200	.4216	.4232	.4249	.4265	.4281	.4298	18 17 16 14
7.	.4314	.4330	.4346	.4362	.4378	.4393	.4409	.4425	.4440	.4456	21 20 18 17
8.	.4472	.4487	.4502	.4518	.4533	.4548	.4564	.4579	.4594	.4609	24 22 21 19
9.	.4624	.4639	.4654	.4669	.4683	.4698	.4713	.4728	.4742	.4757	27 25 23 22
3.0	.4771	.4786	.4800	.4814	.4829	.4843	.4857	.4871	.4886	.4900	22 20 18 16
1.	.4914	.4928	.4942	.4955	.4969	.4983	.4997	.5011	.5024	.5038	2 2 2 2
2.	.5051	.5065	.5079	.5092	.5105	.5119	.5132	.5145	.5159	.5172	4 4 4 3
3.	.5185	.5198	.5211	.5224	.5237	.5250	.5263	.5276	.5289	.5302	7 6 5 5
4.	.5315	.5328	.5340	.5353	.5366	.5379	.5391	.5403	.5416	.5428	9 8 7 6
5.	.5441	.5453	.5465	.5478	.5490	.5502	.5514	.5527	.5539	.5551	11 10 9 8
6.	.5563	.5575	.5587	.5599	.5611	.5623	.5635	.5647	.5658	.5670	13 12 11 10
7.	.5682	.5694	.5705	.5717	.5729	.5740	.5752	.5763	.5775	.5786	15 14 13 11
8.	.5798	.5809	.5821	.5832	.5843	.5855	.5866	.5877	.5888	.5899	18 16 14 13
9.	.5911	.5922	.5933	.5944	.5955	.5966	.5977	.5988	.5999	.6010	20 18 16 14
4.0	.6021	.6031	.6042	.6053	.6064	.6075	.6085	.6096	.6107	.6117	15 14 13 12
1.	.6128	.6138	.6149	.6160	.6170	.6180	.6191	.6201	.6212	.6222	2 1 1 1
2.	.6232	.6243	.6253	.6263	.6274	.6284	.6294	.6304	.6314	.6325	3 3 3 2
3.	.6335	.6345	.6355	.6365	.6375	.6385	.6395	.6405	.6415	.6425	5 4 4 4
4.	.6435	.6444	.6454	.6464	.6474	.6480	.6493	.6503	.6513	.6522	6 6 5 5
5.	.6532	.6542	.6551	.6561	.6571	.6580	.6590	.6599	.6609	.6618	8 7 7 6
6.	.6628	.6637	.6646	.6656	.6665	.6675	.6684	.6693	.6702	.6712	9 8 8 7
7.	.6721	.6730	.6739	.6749	.6758	.6767	.6776	.6785	.6794	.6803	11 10 9 8
8.	.6812	.6821	.6830	.6839	.6848	.6857	.6866	.6875	.6884	.6893	12 11 10 11
9.	.6902	.6911	.6920	.6928	.6937	.6946	.6955	.6964	.6972	.6981	14 13 12 11
5.0	.6990	.6998	.7007	.7016	.7024	.7033	.7042	.7050	.7059	.7067	11 10 8 9
1.	.7076	.7084	.7093	.7101	.7110	.7118	.7126	.7135	.7143	.7152	1 1 1 1
2.	.7160	.7168	.7177	.7185	.7193	.7202	.7210	.7218	.7226	.7235	2 2 2 2
3.	.7243	.7251	.7259	.7267	.7275	.7283	.7292	.7300	.7308	.7316	3 3 3 2
4.	.7324	.7332	.7340	.7348	.7356	.7364	.7372	.7380	.7388	.7396	4 4 4 3

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計 算 表

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3. 對 數 表

數	0	1	2	3	4	5	6	7	8	9	補 插 1
5.5	.7404	.7412	.7419	.7427	.7435	.7443	.7451	.7459	.7466	.7474	6 5 5
.6	.7482	.7490	.7497	.7505	.7513	.7520	.7528	.7536	.7543	.7551	7 6 5
.7	.7559	.7566	.7574	.7582	.7589	.7597	.7604	.7612	.7619	.7627	8 7 6
.8	.7634	.7642	.7649	.7657	.7664	.7672	.7679	.7686	.7694	.7701	9 8 7
.9	.7709	.7716	.7723	.7731	.7738	.7745	.7752	.7760	.7767	.7774	10 9 8
6.0	.7782	.7789	.7796	.7803	.7810	.7818	.7825	.7832	.7839	.7846	9 8
.1	.7853	.7860	.7868	.7875	.7882	.7889	.7896	.7903	.7910	.7917	1 1
.2	.7924	.7931	.7938	.7945	.7952	.7959	.7966	.7973	.7980	.7987	2 2
.3	.7993	.8000	.8007	.8014	.8021	.8028	.8035	.8042	.8048	.8055	3 2
.4	.8062	.8069	.8075	.8082	.8089	.8096	.8102	.8109	.8116	.8122	4 3
.5	.8129	.8136	.8142	.8149	.8156	.8162	.8169	.8176	.8182	.8189	5 4
.6	.8195	.8202	.8208	.8215	.8222	.8228	.8235	.8241	.8248	.8254	5 5
.7	.8261	.8267	.8274	.8280	.8287	.8293	.8299	.8306	.8312	.8319	6 6
.8	.8325	.8331	.8338	.8344	.8351	.8357	.8363	.8370	.8376	.8382	7 6
.9	.8388	.8395	.8401	.8407	.8414	.8420	.8426	.8432	.8439	.8445	8 7
7.0	.8451	.8457	.8463	.8470	.8476	.8482	.8488	.8494	.8500	.8506	7
.1	.8513	.8519	.8525	.8531	.8537	.8543	.8549	.8555	.8561	.8567	1
.2	.8573	.8579	.8585	.8591	.8597	.8603	.8609	.8615	.8621	.8627	1
.3	.8633	.8639	.8645	.8651	.8657	.8663	.8669	.8675	.8681	.8686	2
.4	.8692	.8698	.8704	.8710	.8716	.8722	.8727	.8733	.8739	.8745	2
.5	.8751	.8756	.8762	.8768	.8774	.8779	.8785	.8791	.8797	.8802	4
.6	.8808	.8814	.8820	.8825	.8831	.8837	.8842	.8848	.8854	.8859	4
.7	.8865	.8871	.8876	.8882	.8887	.8893	.8899	.8904	.8910	.8915	5
.8	.8921	.8927	.8932	.8938	.8943	.8949	.8954	.8960	.8965	.8971	6
.9	.8977	.8982	.8987	.8993	.8998	.9004	.9009	.9015	.9020	.9025	6
8.0	.9031	.9036	.9042	.9047	.9053	.9058	.9063	.9069	.9074	.9079	6
.1	.9085	.9090	.9096	.9101	.9106	.9112	.9117	.9122	.9128	.9133	1
.2	.9138	.9143	.9149	.9154	.9159	.9165	.9170	.9175	.9180	.9186	1
.3	.9191	.9196	.9201	.9206	.9212	.9217	.9222	.9227	.9232	.9238	2
.4	.9243	.9248	.9253	.9258	.9263	.9268	.9274	.9279	.9284	.9289	2
.5	.9294	.9299	.9304	.9309	.9315	.9320	.9325	.9330	.9335	.9340	3
.6	.9345	.9350	.9355	.9360	.9365	.9370	.9375	.9380	.9385	.9390	4
.7	.9395	.9400	.9405	.9410	.9415	.9420	.9425	.9430	.9435	.9440	4
.8	.9445	.9450	.9455	.9460	.9465	.9469	.9474	.9479	.9484	.9489	5
.9	.9494	.9499	.9504	.9509	.9513	.9518	.9523	.9528	.9533	.9538	5
9.0	.9542	.9547	.9552	.9557	.9562	.9566	.9571	.9576	.9581	.9586	5
.1	.9590	.9595	.9600	.9605	.9609	.9614	.9619	.9624	.9628	.9633	1
.2	.9638	.9643	.9647	.9652	.9657	.9661	.9666	.9671	.9675	.9680	1
.3	.9685	.9689	.9694	.9699	.9703	.9708	.9713	.9717	.9722	.9727	2
.4	.9731	.9736	.9741	.9745	.9750	.9754	.9759	.9763	.9768	.9773	2
.5	.9777	.9782	.9786	.9791	.9795	.9800	.9805	.9809	.9814	.9818	3
.6	.9823	.9827	.9832	.9836	.9841	.9845	.9850	.9854	.9859	.9863	3
.7	.9868	.9872	.9877	.9881	.9886	.9890	.9894	.9899	.9903	.9908	4
.8	.9912	.9917	.9921	.9926	.9930	.9934	.9939	.9943	.9948	.9952	4
.9	.9956	.9961	.9965	.9969	.9974	.9978	.9983	.9987	.9991	.9996	5

6. 由 P 求 r 表

P	r	P	r	P	r	P	r
.01	.0105	.26	.2714	.51	.5277	.76	.7750
.02	.0209	.27	.2818	.52	.5378	.77	.7847
.03	.0314	.28	.2922	.53	.5479	.78	.7943
.04	.0419	.29	.3025	.54	.5580	.79	.8039
.05	.0524	.30	.3129	.55	.5680	.80	.8135
.06	.0628	.31	.3232	.56	.5781	.81	.8230
.07	.0733	.32	.3335	.57	.5881	.82	.8325
.08	.0838	.33	.3439	.58	.5981	.83	.8421
.09	.0942	.34	.3542	.59	.6081	.84	.8516
.10	.1047	.35	.3645	.60	.6180	.85	.8610
.11	.1151	.36	.3743	.61	.6280	.86	.8705
.12	.1256	.37	.3850	.62	.6379	.87	.8799
.13	.1360	.38	.3955	.63	.6478	.88	.8893
.14	.1465	.39	.4056	.64	.6577	.89	.8986
.15	.1569	.40	.4158	.65	.6676	.90	.9080
.16	.1674	.41	.4261	.66	.6775	.91	.9173
.17	.1778	.42	.4363	.67	.6873	.92	.9269
.18	.1882	.43	.4465	.68	.6971	.93	.9359
.19	.1986	.44	.4567	.69	.7069	.94	.9451
.20	.2091	.45	.4669	.70	.7167	.95	.9543
.21	.2195	.46	.4771	.71	.7265	.96	.9635
.22	.2299	.47	.4872	.72	.7363	.97	.9727
.23	.2403	.48	.4973	.73	.7460	.98	.9818
.24	.2507	.49	.5075	.74	.7557	.99	.9909
.25	.2611	.50	.5176	.75	.7654	1.00	1.0000

附錄二 譯名對照

Abscissa	橫標軸
Absolute dispersion	絕對離差
Aggregate	總合
Adjustment	修正, 調節
Amplitude	廣度
Arithmetic average or mean	算術平均數
Arbitrary or assumed average	假設平均數
Arbitrary constant of weights	權權
Arbitrary origin	假設原點
Array	順列
Asymetry	不對稱
Attribute	屬性
Atributive series	屬性數列
Average	平均數
Average or mean deviation	平均差
Axis	軸
Bar diagram	直條圖
Base	基
Base line	基線
Base period	基期
Bias	偏性
Caption	縱標目

Cartogram	統計地圖
Central tendency	集中趨勢
Chance	機遇
Chain base	連鎖基期
Chain relative	鎖比
Charting	圖解
Classification	分類
Class	組
Class interval	組距
Class limit	組限
Coefficient of variation	離差係數
Coefficient of correlation	相關係數
Coefficient of Pth order	P 次係數
Coefficient of regression	回歸係數
Column	縱行
Constant	常數
Continuous series	連續數列
Coordinates	縱橫線
Coordinate system	坐標制度
Correction	校正
Correlation	相關
Correlation ratio	相關率
Correlation table	相關表
Correlative series	相關數列

Crude mode	近似衆數
Cummulative frequency	累積次數
Curve	曲線
Cycle	循環
Cyclical movement	循環變動
Data	資料
Decile	十分位數
Dependent variable	倚變量
Deviation, dispersion, or variability	離差(差異)度
Diagonal method	對角線法
Distribution	分配
Discrete series	分立數列
Downward Bias	偏下
Editing	訂正
Empirical formula	經驗公式
Episodic movement	特異變動
Extrapolation	外延
Extremes	極端
Factor	因子
Factor reversal test	因子倒置測驗
Fiting of curves	曲線之配合
First quartile	第一四分位數
Fixed base	固定基期
Fluctuation	變動

Fortuitous or accidental movement	偶然變動
Free hand fitting	隨手配合
Forecasting	預測
Forecaster	預測計
Frequency	次數
Frequency series	次數數列
Frequency curve	次數曲線
Frequency distribution	次數分佈
Frequency polygon	次數多邊圖
Frequency table	次數表
Functional relationship	函數相關
Geographical or Spatial series	地域數列
Geometric mean	幾何平均數
Given period	計算期
Graph	線圖
Group	歸類
Harmonic mean	倒數平均數
Histogram	直方圖
Homogeneous	同類的
Historical or time series	歷史或時間數列
Hyperbola	雙曲線
Ideal formula	理想公式
Independent event	不相關之事實
Independent variable	自變量

現今美國之農業預測，常用此法，茲將二法分述於后。

混合指數法

採用此種方法最早，者當推美國卜生氏預測，最著成效者，當推哈佛經濟學會之預測。

卜生氏預測 戰前十餘年 Bobson 創設 Babson Statistical Organization 從事研究，初發表時，根據十二種特別指數，分成三組如下：

A.代表商業狀況——移民，新建築，倒閉，銀行清算等四種。

B.代表貨幣狀況——批發物價，國際貿易，押匯利率，平均利率等四種。

C.代表社會狀況——證券市價，農業收穫及工業生產，鐵路收入，政治要素四種。

後經修改，政治要素一項已取消。

哈佛預測制 主持其事者為美國 Harvard committee on Economic Research。

他的預測計 (Forecaster)，並不是根據：商情循環是完整週期的理論，又不是根據：一個商情的變動，必須緊隨着一個相等而背馳的反動那一些的假定。它是純粹建築在1903—1914十餘年試驗時期的縝密研究之結果，深知投機市場，商業市

場及貨幣市場之變動，頗有蟬聯追隨的關係，而可以統計方法測量之，以作預測將來現象之工具。總之，它是經驗的結果。

哈佛預測之統計方法，可約述如下列各步驟。

- (1) 大部分數列之長期趨向之決定，是用最小平方法以計算直線長期趨向，而小部分是使用特種指數作恆差值。
- (2) 每組數列之季節變動，係用環比法計算之。
- (3) 剔除原有資料之長期趨向和季節變動，方法為：(註)
 - a. 每月恆差坐標，各以各月之月差指數乘之，
 - b. 原有資料各減以上項之乘積，
 - c. 上項結果，以恆差坐標之百分比表之，而得循環百分差。
- (4) 修正之循環百分差，各以標準差除之，以便比較循環變動。
- (5) 用圖解觀察及數學計算，以研究其相關，或比較數列之變動程度和方向相同者。
- (6) 最後將變動趨勢相同之各數列，其循環變動使之合併，組成三大類。

一九〇三至一九一四年之試驗時期中，組成哈佛預測計的三大類曲線情形見圖53，每類曲線之構成，取材如下：

註 Review of Economic Statistics, 1919, especially 117-139.

Primary data	原始資料
Primary investigation	原始調查
Presentation	陳示
Probability	機率
Progressive mean	累進平均數
Quartile	四分位數
Quartile deviation	四分位差
Random sampling	機遇取樣
Range	全距
Ratio chart	比率圖
Regression equation	回歸方程式
Relationship	相關
Reduced value	變量以標準差單位之數值
Relative frequency	相對次數
Reliability	確度
Rank correlation	等級相關
Relative price	價比
Relative quantity	量比
Row	橫列
Sample	標樣
Scale	量表
Scatter diagram	分布圖
Seasonal fluctuation	季節變動
Secondary data	次級資料

Secondary investigation	次級(繼起)調查
Secular trend	長期趨向
Semi-logarithmic	單對數
Series	數列
Skewness	失稱圖
Smoothed curve	修勻曲線
Spurious correlation	不純相關
Standard deviation	標準差
Standard error of estimate	推測之標準差誤
Standard family budget	標準家庭預算
Stub	橫標目
Summary table	概要
Symmetry	對稱
Tabulation	表列法
Tally sheet	賡錄稿
Temporal correlation	時間相關
Third quartile	第三四分位數
Time reversal test	時間倒置測驗
Type bias	類偏
Time series	時間數列
Unit	單位
Upper limit	上限
U shaped curve	U形曲線
Variable	變量

譯名對照



Variation	離差
Variate	變數
Wave-length	波長
Weight	加權
Weight bias	權偏
Working table	計算表
X axis	x 軸
X intercept	x 切
Y axis	y 軸
Y intercept	y 切
Zero correlation	無相關
Zero point	零點

附 錄 三 符 號 表

a	常數
A_1, A_2, A, \dots etc	各變量之算術平均數
b	常數
b	回歸係數或回歸線之斜度，
b_{yx}, b_{xy}	旁注小字代為變量之關係， b_{yx} 為 y 對 x 之回歸係數
$b_{2 \cdot 1}$	淨回歸係數
c	校正數， $M - M'$
c'	組距單位之校正數
d	離差
d'	對假設原點之離差
f	次數
f_1	隣近衆數下一組或數組之次數
f_2	隣近衆數上一組或數組之次數
g	均互差
i	組距
L	組距下限
M	算術平均數
M'	假設平均數

m'_t	t 次希望差
m	組距中值
Md	中位數
Mo	衆數
H	倒數平均數
G	幾何平均數
$M.D.$	平均差
N	總次數或項數
N_1	較真正平均數爲大之次數
N_s	較真正平均數爲小之次數
P	百分位數
$P.E.$	概差
P_0	代表以 $0'$ 爲基期, $0'$ 爲計算期之物價指數
P_1	代表以 $1'$ 爲基期, $0'$ 爲計算期之物價指數
p_0', p_0'', p_0'''	基期各物價格
p_1', p_1'', p_1'''	計算期各物價格
$\frac{p_0'}{p_1'}, \frac{p_0''}{p_1''}, \frac{p_0'''}{p_1'''}$	各物價比
p	成功之機率
q_0', q_0'', q_0'''	基期物量
q_1', q_1'', q_1'''	計算期物量

$\frac{q^I}{q_0^I}, \frac{q^{II}}{q_0^{II}}, \frac{q^{III}}{q_0^{III}}$	各物量比
Q_0	以'0'為基期，'t'為計算期之物量指數
Q_1, Q_2, Q_3	第一，第二，第三四分位數
Q.D.	四分位差
q	失敗之機率
r	相關係數
r_{xy}	為 x 對 y 之相關係數
r_{12}	為變量 1 對變量 2 之相關係數
r_{12-34}	局部相關之係數
R_g	全距
R	複相關之係數
Sk	失稱度
S	推測之標準差誤
${}_0S_x', {}_1S_x', {}_2S_x', \text{ etc}$	累積一次，二次，三次等
${}_0S_x$	等於 N，次數總和
${}_1S_x, {}_2S_x$	二次，三次累積數之總和
t	時期
U	組距上限
V_{01}	物值指數，'0'為基期，'t'為計算期
$\frac{V}{V}$	四分位差係數

$V_{A.D.}$		平均差係數
$V\sigma$		標準差係數
W		權數
x		X變量對平均數之離差
x'		X變量對假設原點之離差
X 或 x		變量, 變量之觀察數值
\bar{X}		X之平均數
y		Y變量對平均數之離差
y'		Y變量對假設原點之離差
Y 或 y		變量, 變量之觀察數值
y_c		計算之Y變量
\bar{Y}		Y之平均數
y_0		常態曲線之最高縱距
Δ	Delta	差
ζ	Zeta	回歸是否成直線之測驗
η_{yx}	eta	相關率 (y 對 x)
π	pi	圓周率
ρ	rho	等級相關
σ	sigma	標準差
σ_{my}		各行平均數對 y 全體平均數之標準差
σ_m		算術平均數之標準差誤
Σ	Summation	總和

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