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# **STATISTICAL YEARBOOK OF THE REPUBLIC OF CHINA**

---

# **2019**

DIRECTORATE-GENERAL OF BUDGET, ACCOUNTING AND STATISTICS

EXECUTIVE YUAN, REPUBLIC OF CHINA

September 2020



## EXPLANATION OF SYMBOLS

Not yet published.....	...
Zero or not available.....	-
Meaningless.....	--
Less than a half unit.....	0
Revised figure.....	r
Preliminary estimate.....	p
Forecasted figure.....	f
Estimated figure.....	e

Decimal figures are always preceded by a period ( . ).

Thousands and millions are separated by a space.

Significant breaks in the homogeneity of a series are indicated by a horizontal or vertical line across the column.

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1. Explanatory notes
2. The other important indicators (URL)

# LAND AND CLIMATE

Table 1. Land, agricultural land and forest land areas

End of Year	Land area (Km <sup>2</sup> )	Cultivated land (Ha.)							Forest land area (Ha.)
		Grand total	Paddy field					Upland field	
			Total	Double- cropping	Single-cropping				
					Sub-total	1st Crop	2nd Crop		
1962	36 140.27	871 858	530 354	331 765	198 589	14 922	183 667	341 504	2 131 267
1971	36 160.50	902 617	525 761	334 690	191 071	11 109	179 962	376 856	2 224 472
1981	36 179.12	900 062	502 822	354 036	148 786	11 906	136 880	397 240	1 865 141
1991	36 181.87	884 443	472 759	333 448	139 311	10 182	129 129	411 684	1 865 141
2001	36 188.04	848 743	438 974	315 544	123 430	7 239	116 191	409 769	2 101 719

  

End of Year	Land area (Km <sup>2</sup> )	Agricultural land area (Ha.)								Forest land area (Ha.)
		Grand total	Cropland						Fallow	
			Total	Short-term cropland				Permanent cropland		
				Sub-total	Rice	Temporary crops, excluding rice	Short-term fallow			
2010	36 191.47	813 126	761 821	479 639	139 941	136 899	202 799	282 182	51 305	2 101 719
2011	36 192.82	808 294	755 355	479 332	153 405	119 314	206 613	276 022	52 939	2 101 719
2012	36 192.82	802 876	752 108	482 915	156 662	120 151	206 102	269 193	50 768	2 101 719
2013	36 192.82	799 830	751 151	485 622	162 869	106 286	216 467	265 529	48 679	2 101 719
2014	36 192.82	799 611	748 613	484 594	166 602	96 503	221 489	264 019	50 999	2 101 719
2015	36 197.07	796 618	746 576	481 824	146 597	98 639	236 587	264 752	50 042	2 101 719
2016	36 197.07	794 005	745 627	479 264	168 872	80 315	230 078	266 362	48 378	2 197 090
2017	36 197.07	793 027	745 518	480 751	169 819	78 581	232 352	264 767	47 509	2 197 090
2018	36 197.07	790 680	743 879	478 724	169 789	80 626	228 308	265 155	46 801	2 197 090
2019	36 197.07	790 197	742 162	477 840	169 740	75 808	232 292	264 322	48 035	2 197 090

Source: 1. Ministry of the Interior  
2. Agriculture and Food Agency, COA, Executive Yuan  
3. Forestry Bureau, COA, Executive Yuan



Table 2. The mean temperature

°C

Year	Kee-lung	Dan-shuei	Taipei	Hsin-chu	Yilan	Tai-chung	Hua-lien	Sun Moon Lake	Ali-shan	Kao-hsiung	Heng-chun
1952	22.4	22.5	22.4	22.1	22.3	23.1	23.2	19.9	11.3	24.5	25.6
1971	22.1	22.1	22.1	21.8	21.6	22.6	22.7	18.9	10.1	23.8	24.7
1981	22.1	22.5	22.5	22.2	22.3	22.8	23.1	19.1	10.9	25.0	25.2
1991	22.6	22.3	23.5	22.5	22.3	23.5	23.5	19.4	11.1	25.3	25.1
2001	23.0	22.3	23.3	22.7	22.8	23.6	23.7	19.2	11.5	25.1	25.2
2010	22.6	22.3	23.3	22.7	22.7	23.7	23.7	19.2	11.8	25.4	25.4
2011	22.2	21.6	22.7	22.3	22.1	23.5	23.1	18.9	11.0	24.9	24.7
2012	22.6	22.1	23.2	22.7	22.6	23.6	23.3	19.2	11.5	25.4	25.5
2013	22.7	22.7	23.4	22.9	22.7	23.6	23.5	19.4	11.5	25.5	25.6
2014	22.8	22.8	23.5	23.1	22.6	23.8	23.5	19.4	11.5	25.6	25.6
2015	23.0	23.1	23.8	23.3	23.0	24.3	23.9	19.6	12.0	26.1	26.1
2016	23.3	23.0	24.0	23.5	23.3	24.2	24.2	19.6	12.2	25.9	26.3
2017	23.2	23.2	23.9	23.5	23.3	24.2	24.1	19.6	12.3	26.3	26.3
2018	23.2	23.0	23.9	23.4	23.4	24.2	24.0	19.5	11.7	25.9	25.8
2019	23.3	23.2	24.1	23.7	23.6	24.4	24.4	19.8	11.3	26.3	25.9

Source: Central Weather Bureau



# POPULATION AND HOUSING

**Table 3. General situation of population**

End of Year	No. of population (1,000 Persons)						Sex ratio (Female=100)	Depen- dency ratio (%)	House- holds (1,000 Households)	Mean size of house- holds (Persons/ households)	Popula- tion density (Persons per km <sup>2</sup> )
	Total	By sex		By age							
		Male	Female	0-14	15-64	65+					
1961	11 149	5 715	5 434	5 112	5 759	278	105.2	93.6	2 002	5.6	310.0
1971	14 995	7 895	7 100	5 805	8 736	454	111.2	71.6	2 703	5.5	416.7
1981	18 194	9 480	8 714	5 754	11 637	803	108.8	56.3	3 906	4.7	502.9
1991	20 606	10 640	9 966	5 427	13 833	1 345	106.8	49.0	5 227	3.9	569.5
2001	22 406	11 442	10 964	4 662	15 770	1 973	104.4	42.1	6 802	3.3	619.1
2010	23 162	11 635	11 527	3 624	17 050	2 488	100.9	35.8	7 937	2.9	640.0
2011	23 225	11 646	11 579	3 502	17 195	2 528	100.6	35.1	8 058	2.9	641.7
2012	23 316	11 673	11 643	3 412	17 304	2 600	100.3	34.7	8 186	2.8	644.2
2013	23 374	11 685	11 689	3 347	17 333	2 694	100.0	34.9	8 286	2.8	645.8
2014	23 434	11 698	11 736	3 277	17 348	2 809	99.7	35.1	8 383	2.8	647.5
2015	23 492	11 712	11 780	3 188	17 366	2 939	99.4	35.3	8 469	2.8	649.0
2016	23 540	11 719	11 821	3 142	17 292	3 106	99.1	36.1	8 561	2.7	650.3
2017	23 571	11 720	11 852	3 092	17 211	3 268	98.9	37.0	8 649	2.7	651.2
2018	23 589	11 713	11 876	3 048	17 107	3 434	98.6	37.9	8 734	2.7	651.7
2019	23 603	11 705	11 898	3 010	16 986	3 607	98.4	39.0	8 833	2.7	652.1

**Note:** Data do not include Kinmen County and Lienchiang County before 1980.

**Source:** Ministry of the Interior

**Table 4. Number and rates of births, deaths, immigrants and emigrants, marriages and divorces**

Persons

Year	Births				Deaths			
	No. of births	Male	Female	Crude birth rates (0/00)	No. of deaths	Male (1)	Female (1)	Crude death rates (0/00)
1966	415 108	213 328	201 780	32.40	69 778	39 379	30 399	5.45
1971	380 424	195 938	184 486	25.64	70 954	41 596	29 358	4.78
1981	414 069	213 948	200 121	22.97	87 192	52 627	34 221	4.84
1991	321 932	168 865	153 067	15.70	106 284	65 386	40 898	5.18
2001	260 354	135 596	124 758	11.65	127 647	79 319	48 328	5.71
2010	166 886	87 213	79 673	7.21	145 772	89 152	56 620	6.30
2011	196 627	101 943	94 684	8.48	152 915	93 810	59 105	6.59
2012	229 481	118 848	110 633	9.86	154 251	93 618	60 633	6.63
2013	199 113	103 120	95 993	8.53	155 908	94 505	61 403	6.68
2014	210 383	108 817	101 566	8.99	163 929	98 733	65 196	7.00
2015	213 598	111 041	102 557	9.10	163 858	98 580	65 278	6.98
2016	208 440	108 133	100 307	8.86	172 405	103 144	69 261	7.33
2017	193 844	100 477	93 367	8.23	171 242	101 555	69 687	7.27
2018	181 601	93 876	87 725	7.70	172 784	101 931	70 853	7.33
2019	177 767	92 237	85 530	7.53	176 296	103 720	72 576	7.47

**Note:** Data do not include Kinmen County and Lienchiang County before 1980.

(1) Data do not include Kinmen County and Lienchiang County in 1981.

**Source:** Ministry of the Interior

**Table 4. Number and rates of births, deaths, immigrants and emigrants, marriages and divorces (continued)**

Year	Immigrants & emigrants (Persons)		Natural increase rates (0/00)	Social increase rates (0/00)	Marriages		Divorces	
	Immigrants	Emigrants			Couples (Pairs)	Crude marriage rates (0/00)	Couples (Pairs)	Crude divorce rates (0/00)
1966	680 765	661 991	31.58	1.54	95 897	7.49	4 915	0.38
1971	691 326	688 843	20.86	0.76	106 812	7.20	5 310	0.36
1981	1 541 191	1 536 683	18.13	0.06	167 496	9.29	14 884	0.83
1991	1 477 764	1 489 892	10.52	-0.54	162 972	7.95	28 298	1.38
2001	1 373 363	1 377 174	5.94	-0.17	170 515	7.63	56 538	2.53
2010	1 213 899	1 192 662	0.91	0.92	138 819	6.00	58 115	2.51
2011	1 128 449	1 109 372	1.88	0.82	165 327	7.13	57 008	2.46
2012	1 118 006	1 102 326	3.23	0.67	143 384	6.16	55 980	2.41
2013	1 079 702	1 065 212	1.85	0.62	147 636	6.32	53 604	2.30
2014	1 073 783	1 060 001	1.98	0.59	149 287	6.38	53 190	2.27
2015	1 004 108	995 527	2.12	0.37	154 346	6.58	53 459	2.28
2016	964 536	952 829	1.53	0.50	147 861	6.29	53 837	2.29
2017	948 049	939 240	0.96	0.37	138 034	5.86	54 412	2.31
2018	984 815	975 927	0.37	0.38	135 403	5.74	54 443	2.31
2019	972 043	959 325	0.06	0.54	134 524	5.70	54 473	2.31

**Table 5. Fertility rates of childbearing age women**

‰

Year	General fertility rates	Total fertility rates	Age-specific fertility rates						
			15-19	20-24	25-29	30-34	35-39	40-44	45-49
1951	211	7 040	68	267	350	311	226	132	34
1971	112	3 705	36	224	277	134	51	16	3
1981	89	2 455	31	176	197	69	14	3	1
1991	58	1 720	17	92	149	68	16	2	0
2001	41	1 400	13	62	106	75	21	3	0
2010	27	895	4	23	55	65	28	4	0
2011	32	1 065	4	23	66	81	34	5	0
2012	38	1 270	4	26	79	97	42	6	0
2013	32	1 065	4	22	62	80	39	6	0
2014	34	1 165	4	22	67	90	43	7	0
2015	35	1 175	4	22	66	91	45	7	0
2016	34	1 170	4	22	63	90	47	8	0
2017	33	1 125	4	21	59	85	47	9	0
2018	31	1 060	4	20	55	80	44	9	0
2019	30	1 050	4	20	53	79	44	9	1

Source: Ministry of the Interior

Table 6. Life expectancy and death rates by 5-year age group

Year	Life expectancy (1) (Years)		Infant mortality rates (2)	Maternal mortality rates (3)	All ages			0			1-4		
	Male	Female			Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
	1951	53.10	57.32	-	-	11.57	11.75	11.39	40.42	42.72	38.04	24.89	23.36
1971	67.19	72.08	-	-	4.78	5.32	4.18	15.96	17.04	14.80	2.68	2.78	2.58
1981	69.74	74.64	-	-	4.85	5.63	4.00	10.05	10.63	9.42	1.28	1.45	1.10
1991	71.83	77.14	5.1	8.1	5.17	6.15	4.12	5.39	5.69	5.07	0.74	0.84	0.64
2001	74.07	79.92	6.0	7.0	5.72	6.96	4.43	6.33	6.85	5.76	0.46	0.53	0.38
2010	76.13	82.55	4.2	4.2	6.30	7.66	4.92	4.42	4.91	3.88	0.25	0.26	0.25
2011	75.96	82.63	4.2	5.0	6.61	8.07	5.13	5.05	5.30	4.79	0.30	0.31	0.28
2012	76.43	82.82	3.7	8.5	6.67	8.08	5.25	4.43	4.89	3.93	0.28	0.29	0.27
2013	76.91	83.36	3.9	9.2	6.67	8.08	5.26	3.91	4.21	3.58	0.21	0.23	0.19
2014	76.72	83.19	3.6	6.6	6.98	8.42	5.54	4.01	4.57	3.42	0.22	0.23	0.21
2015	77.01	83.62	4.1	11.7	6.98	8.42	5.55	4.44	4.74	4.11	0.22	0.25	0.18
2016	76.81	83.42	3.9	11.6	7.35	8.82	5.89	4.12	4.31	3.91	0.21	0.23	0.18
2017	77.28	83.70	4.0	9.8	7.30	8.70	5.92	4.09	4.20	3.96	0.17	0.17	0.16
2018	77.55	84.05	4.2	12.2	7.32	8.70	5.96	4.26	4.55	3.95	0.20	0.21	0.20
2019	...	...	3.8	16.0	7.44	8.81	6.09	3.98	4.32	3.62	0.18	0.21	0.16

  

Year	5-9			10-14			15-19			20-24		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
1951	3.35	3.42	3.27	2.02	2.21	1.82	2.09	2.17	2.00	3.39	3.53	3.26
1971	0.62	0.72	0.50	0.48	0.57	0.38	0.89	1.08	0.68	1.28	1.71	0.82
1981	0.45	0.58	0.32	0.46	0.57	0.33	0.95	1.33	0.54	1.23	1.71	0.74
1991	0.33	0.39	0.27	0.34	0.41	0.26	0.91	1.30	0.49	1.08	1.55	0.58
2001	0.20	0.23	0.17	0.21	0.25	0.17	0.60	0.80	0.39	0.73	1.01	0.43
2010	0.14	0.16	0.11	0.15	0.17	0.13	0.38	0.52	0.23	0.48	0.67	0.27
2011	0.13	0.15	0.11	0.15	0.17	0.12	0.37	0.50	0.24	0.53	0.73	0.30
2012	0.15	0.14	0.15	0.15	0.17	0.12	0.36	0.48	0.22	0.49	0.63	0.33
2013	0.15	0.14	0.15	0.16	0.17	0.14	0.34	0.47	0.21	0.45	0.61	0.28
2014	0.15	0.15	0.15	0.14	0.16	0.12	0.33	0.45	0.21	0.44	0.61	0.24
2015	0.10	0.12	0.08	0.12	0.15	0.10	0.35	0.48	0.20	0.45	0.61	0.27
2016	0.13	0.14	0.12	0.14	0.16	0.11	0.34	0.48	0.20	0.46	0.66	0.26
2017	0.11	0.11	0.10	0.15	0.17	0.12	0.34	0.45	0.22	0.44	0.60	0.27
2018	0.10	0.11	0.10	0.14	0.18	0.10	0.31	0.42	0.19	0.43	0.59	0.25
2019	0.10	0.11	0.09	0.12	0.11	0.13	0.37	0.50	0.24	0.46	0.62	0.28

**Note:** The data of death rates do not include Kinmen County and Lienchiang County before 1983, and they are calculated by the date of death of occurrence after 1973.

(1) Data do not include Kinmen County and Lienchiang County before 1992.

(2) It's per 1,000 live births.

(3) It's per 100,000 live births.

**Source:** 1. Ministry of the Interior  
2. Ministry of Health and Welfare



Table 6. Life expectancy and death rates by 5-year age group (continued)

‰

Year	25-29			30-34			35-39			40-44		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
1951	4.38	4.66	4.08	5.35	5.44	5.26	6.55	6.84	6.22	9.19	9.65	8.70
1971	1.58	2.07	1.07	1.88	2.39	1.35	2.60	3.13	1.99	3.58	4.09	2.82
1981	1.34	1.83	0.82	1.56	2.13	0.95	2.20	2.92	1.44	3.18	4.29	2.04
1991	1.24	1.75	0.70	1.46	2.05	0.84	1.97	2.72	1.18	2.68	3.75	1.56
2001	0.85	1.22	0.46	1.22	1.76	0.66	1.81	2.62	0.97	2.56	3.68	1.40
2010	0.68	0.94	0.41	0.97	1.38	0.56	1.46	2.19	0.75	2.32	3.43	1.21
2011	0.64	0.90	0.37	0.99	1.41	0.56	1.56	2.35	0.79	2.37	3.61	1.13
2012	0.64	0.84	0.44	0.96	1.35	0.58	1.50	2.22	0.80	2.30	3.47	1.14
2013	0.55	0.75	0.33	0.86	1.20	0.52	1.38	2.05	0.72	2.13	3.17	1.10
2014	0.54	0.72	0.35	0.86	1.21	0.51	1.44	2.13	0.76	2.16	3.22	1.13
2015	0.55	0.73	0.36	0.80	1.11	0.50	1.34	1.99	0.70	2.11	3.15	1.10
2016	0.55	0.75	0.33	0.85	1.20	0.51	1.35	1.93	0.77	2.10	3.15	1.08
2017	0.50	0.65	0.33	0.79	1.07	0.50	1.24	1.79	0.71	2.02	3.00	1.08
2018	0.49	0.67	0.30	0.74	0.99	0.48	1.19	1.66	0.73	1.97	2.87	1.09
2019	0.47	0.63	0.30	0.72	0.97	0.47	1.13	1.60	0.68	1.89	2.80	1.00

  

Year	45-49			50-54			55-59			60-64		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
1951	11.93	13.52	10.18	15.95	18.75	12.99	22.36	26.48	18.21	34.37	41.41	28.04
1971	5.28	5.96	4.25	8.54	9.94	6.55	12.96	15.40	9.72	21.76	26.74	16.26
1981	4.91	6.27	3.38	7.28	8.68	5.26	11.24	13.20	8.38	18.10	21.15	14.03
1991	4.16	5.62	2.65	6.18	8.20	4.15	9.08	11.72	6.21	14.42	17.29	10.51
2001	3.60	5.09	2.07	5.26	7.32	3.18	8.20	10.95	5.49	12.05	16.01	8.32
2010	3.31	4.82	1.80	4.53	6.51	2.58	6.48	9.13	3.92	9.25	12.66	6.00
2011	3.36	5.02	1.70	4.65	6.63	2.69	6.38	9.11	3.74	9.31	12.88	5.93
2012	3.36	4.93	1.81	4.45	6.44	2.50	6.18	8.78	3.66	9.04	12.31	5.94
2013	3.25	4.78	1.73	4.55	6.55	2.57	6.14	8.73	3.65	8.92	12.34	5.68
2014	3.29	4.89	1.71	4.58	6.57	2.62	6.21	8.68	3.82	8.91	12.33	5.69
2015	3.21	4.76	1.68	4.44	6.41	2.50	6.05	8.75	3.46	8.76	12.21	5.52
2016	3.16	4.70	1.65	4.61	6.71	2.54	6.34	9.13	3.66	8.76	12.37	5.38
2017	3.02	4.50	1.58	4.38	6.40	2.41	6.12	8.81	3.54	8.42	11.87	5.18
2018	2.99	4.36	1.67	4.35	6.33	2.43	6.08	8.69	3.58	8.39	11.80	5.19
2019	3.02	4.44	1.65	4.35	6.34	2.41	6.05	8.82	3.39	8.36	11.79	5.16

Table 6. Life expectancy and death rates by 5-year age group (continued)

‰

Year	65-69			70-74			75-79			80-84		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
1951	46.90	57.80	38.42	112.03	131.49	101.09	-	-	-	-	-	-
1971	34.46	42.13	26.89	55.72	67.05	46.37	84.00	103.34	70.78	131.86	152.60	120.76
1981	29.42	34.11	23.72	45.72	52.85	38.87	71.16	79.04	64.64	113.80	127.26	104.95
1991	22.60	26.15	17.84	37.67	42.90	31.42	63.33	70.01	56.30	100.13	110.18	92.10
2001	19.23	24.59	13.88	30.59	35.87	23.98	48.52	55.68	39.91	80.05	89.47	70.46
2010	14.41	19.49	9.77	23.27	29.97	17.54	39.99	49.35	31.34	67.09	76.87	56.48
2011	14.48	19.58	9.83	23.36	30.52	17.24	40.70	51.33	31.44	67.49	78.29	56.13
2012	14.29	19.06	9.93	22.71	29.59	16.81	39.14	49.29	30.69	66.71	78.66	54.71
2013	13.55	18.15	9.35	22.22	28.81	16.55	37.11	47.10	29.03	65.08	77.47	53.34
2014	13.64	18.32	9.36	22.29	29.16	16.37	37.61	47.60	29.64	65.37	78.71	53.52
2015	13.03	17.63	8.83	21.36	27.89	15.71	36.44	46.76	28.25	63.63	77.69	51.98
2016	13.00	17.54	8.86	21.55	28.60	15.45	36.44	46.75	28.27	66.04	80.60	54.67
2017	12.56	17.25	8.29	20.97	27.57	15.26	35.23	45.17	27.33	61.81	75.97	51.22
2018	12.19	16.60	8.18	19.94	26.46	14.27	33.90	43.76	26.03	60.57	74.99	50.08
2019	12.01	16.66	7.79	19.29	25.60	13.79	32.64	41.75	25.34	58.58	72.78	48.40
Year	85-89			90-94			95-99			100+		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
1951				-	-	-						
1971				239.66	278.53	225.17						
1981				197.77	220.30	186.64						
1991				166.92	170.41	164.68						
2001	127.12	133.90	121.28	190.08	189.88	190.21	244.90	212.52	266.46	166.67	92.59	218.95
2010	109.58	119.86	99.81	171.48	175.96	167.91	239.46	216.84	256.56	225.68	144.99	303.15
2011	110.83	121.63	100.35	177.90	185.84	171.48	246.85	228.83	260.64	259.17	198.64	316.27
2012	108.63	120.20	97.30	175.29	181.34	170.34	257.79	248.49	264.80	256.12	213.49	297.75
2013	107.13	120.80	93.71	167.09	174.31	161.10	251.54	241.65	258.84	246.78	190.93	303.25
2014	110.25	124.23	96.67	175.58	186.71	166.32	253.85	249.92	256.79	312.41	284.32	339.64
2015	106.43	118.89	94.58	170.44	184.36	158.70	253.78	255.65	252.36	317.72	301.31	332.70
2016	111.05	126.44	96.90	176.09	187.88	166.04	265.62	267.12	264.49	325.40	307.10	341.24
2017	108.50	123.57	95.31	177.59	189.97	167.00	259.63	259.71	259.56	320.30	266.07	365.99
2018	105.94	123.01	91.88	168.11	182.84	155.54	254.89	255.92	254.11	338.41	313.27	359.21
2019	105.04	122.17	91.86	172.11	186.49	160.05	254.68	258.64	251.70	318.09	305.47	328.23

# MANPOWER

Table 7. Indicators of labor force status

1,000 Persons

Year	Total population	Civilian population aged 15 years & over	As a % of total population (%)	Labor force					Employed	
				Numbers			As a % of total population (%)	Labor force participation rates (%)	Numbers	
				Total	Male	Female			Total	Male
Ave. 1952	8 325	4 485	53.9	3 030	-	-	36.4	67.6	2 893	-
Ave. 1971	14 848	8 444	56.9	4 819	-	-	32.5	57.1	4 738	-
Ave. 1981	17 974	11 698	65.1	6 764	4 503	2 261	37.6	57.8	6 672	4 448
Ave. 1991	20 456	14 496	70.9	8 569	5 355	3 214	41.9	59.1	8 439	5 274
Ave. 2001	22 281	17 179	77.1	9 832	5 855	3 977	44.1	57.2	9 383	5 553
Ave. 2010	23 036	19 062	82.8	11 070	6 242	4 828	48.1	58.1	10 493	5 880
Ave. 2011	23 077	19 253	83.4	11 200	6 304	4 896	48.5	58.2	10 709	6 006
Ave. 2012	23 148	19 436	84.0	11 341	6 369	4 972	49.0	58.4	10 860	6 083
Ave. 2013	23 218	19 587	84.4	11 445	6 402	5 043	49.3	58.4	10 967	6 116
Ave. 2014	23 262	19 705	84.7	11 535	6 441	5 094	49.6	58.5	11 079	6 166
Ave. 2015	23 319	19 842	85.1	11 638	6 497	5 141	49.9	58.7	11 198	6 234
Ave. 2016	23 364	19 962	85.4	11 727	6 541	5 186	50.2	58.8	11 267	6 267
Ave. 2017	23 404	20 049	85.7	11 795	6 568	5 227	50.4	58.8	11 352	6 305
Ave. 2018	23 425	20 129	85.9	11 874	6 602	5 272	50.7	59.0	11 434	6 346
Ave. 2019	23 440	20 189	86.1	11 946	6 631	5 315	51.0	59.2	11 500	6 376

**Note:** Data do not include Kinmen County and Lienchiang County.

**Source:** Directorate-General of Budget, Accounting and Statistics, Executive Yuan

Table 7. Indicators of labor force status (continued)

1,000 Persons

Year	Employed					Unemployed			Not in labor force	
	Numbers	As a % of total population (%)	As a % of civilian population aged 15 years & over (%)	As a % of labor force (%)	Employment index (Ave. 2016=100)	Numbers	Female	Unemployment rates (%)	force	Female
	Female									
Ave. 1952	-	34.8	64.5	95.5	-	137	-	4.5	1 455	-
Ave. 1971	-	31.9	56.1	98.3	-	80	-	1.7	3 625	-
Ave. 1981	2 224	37.1	57.0	98.6	59.2	92	37	1.4	4 934	3 572
Ave. 1991	3 165	41.3	58.2	98.5	74.9	130	49	1.5	5 927	4 026
Ave. 2001	3 830	42.1	54.6	95.4	83.3	450	148	4.6	7 347	4 651
Ave. 2010	4 613	45.6	55.1	94.8	93.1	577	215	5.2	7 992	4 849
Ave. 2011	4 702	46.4	55.6	95.6	95.0	491	194	4.4	8 053	4 901
Ave. 2012	4 777	46.9	55.9	95.8	96.4	481	195	4.2	8 096	4 934
Ave. 2013	4 851	47.2	56.0	95.8	97.3	478	192	4.2	8 142	4 951
Ave. 2014	4 913	47.6	56.2	96.0	98.3	457	182	4.0	8 170	4 966
Ave. 2015	4 964	48.0	56.4	96.2	99.4	440	177	3.8	8 204	4 991
Ave. 2016	5 000	48.2	56.4	96.1	100.0	460	185	3.9	8 235	5 022
Ave. 2017	5 047	48.5	56.6	96.2	100.8	443	180	3.8	8 254	5 038
Ave. 2018	5 089	48.8	56.8	96.3	101.5	440	184	3.7	8 254	5 037
Ave. 2019	5 124	49.1	57.0	96.3	102.1	446	191	3.7	8 243	5 026

**Table 8. Employed persons by industry**

1,000 Persons

Year	Total	Agriculture, forestry, fishing & animal husbandry	Goods-producing industries					Services-providing industries		
			Mining & quarrying	Manufactur- ing	Electricity & gas supply	Water supply & remediation activities	Construc- tion	Wholesale & retail trade	Accommo- dation & food service activities	Transporta- tion & storage
Ave. 1978	6 231	1 553	60	1 916	25	-	459	941	-	304
Ave. 1981	6 672	1 257	54	2 162	29	-	583	1 106	-	342
Ave. 1991	8 439	1 093	19	2 598	37	-	715	1 712	-	448
Ave. 2001	9 383	706	10	2 594	28	54	745	1 679	532	421
Ave. 2006	10 111	554	7	2 777	28	60	829	1 759	665	417
Ave. 2010	10 493	550	4	2 861	29	78	797	1 747	727	404
Ave. 2011	10 709	542	4	2 949	29	79	831	1 763	728	411
Ave. 2012	10 860	544	4	2 975	29	82	845	1 800	750	414
Ave. 2013	10 967	544	4	2 988	29	84	861	1 817	775	425
Ave. 2014	11 079	548	4	3 007	29	82	881	1 825	792	433
Ave. 2015	11 198	555	4	3 024	30	82	895	1 842	813	437
Ave. 2016	11 267	557	4	3 028	30	82	899	1 853	826	440
Ave. 2017	11 352	557	4	3 045	30	82	901	1 875	832	443
Ave. 2018	11 434	561	4	3 064	30	81	904	1 901	838	446
Ave. 2019	11 500	559	4	3 066	31	84	907	1 915	848	450

**Note:** 1. Data do not include Kinmen County and Lienchiang County.

2. The data in the table are based on the tenth revised Standard Industrial Classification System from 2017.

**Source:** Directorate-General of Budget, Accounting and Statistics, Executive Yuan

**Table 8. Employed persons by industry (continued)**

1,000 Persons

Year	Services-providing industries									
	Information & communication	Financial & insurance activities	Real estate activities	Professional, scientific & technical activities	Support service activities	Public administration & defence; compulsory social security	Education	Human health & social work activities	Arts, entertainment & recreation	Others
Ave. 1978	-	73	-	-	-	210	-	-	-	692
Ave. 1981	-	95	-	-	-	238	-	-	-	806
Ave. 1991	-	227	-	-	-	294	-	-	-	1 297
Ave. 2001	190	373	40	202	153	315	484	268	93	496
Ave. 2006	209	407	66	264	205	334	563	334	111	524
Ave. 2010	208	428	75	325	236	389	619	386	98	532
Ave. 2011	218	428	87	339	247	388	629	408	94	536
Ave. 2012	228	426	90	342	260	384	630	420	95	541
Ave. 2013	234	422	92	347	263	383	634	427	96	541
Ave. 2014	241	416	98	354	273	378	645	432	95	543
Ave. 2015	246	420	100	362	281	375	650	438	99	546
Ave. 2016	249	424	100	368	286	374	652	444	103	547
Ave. 2017	253	429	103	372	292	373	652	451	106	551
Ave. 2018	258	432	106	374	296	367	653	456	110	554
Ave. 2019	262	434	108	377	297	368	657	461	115	557

**Table 9. Unemployment rates by educational attainment and age**

%

Year	Both sexes	Male	Female	Educational attainment						
				Primary school & below	Junior high school	Senior high school	Vocational school	Junior college	University	Graduate school
Ave. 1978	1.7	1.6	1.9	0.6	2.3	3.7	3.7	3.7	2.5	
Ave. 1981	1.4	1.2	1.7	0.5	1.7	2.3	3.0	2.6	1.9	
Ave. 1991	1.5	1.5	1.5	0.6	1.6	2.1	2.2	2.2	1.8	
Ave. 2001	4.6	3.4	2.4	3.6	5.8	4.9	5.2	4.0	3.3	
Ave. 2006	3.9	4.1	3.7	2.3	3.9	4.1	4.4	3.6	4.4	
Ave. 2010	5.2	5.8	4.5	3.3	5.8	5.4	5.6	4.3	5.6	
Ave. 2011	4.4	4.7	4.0	2.5	4.4	4.8	4.6	3.4	5.8	3.0
Ave. 2012	4.2	4.5	3.9	2.3	4.3	4.4	4.2	3.2	5.9	3.5
Ave. 2013	4.2	4.5	3.8	2.3	4.3	4.3	4.1	3.1	5.8	3.3
Ave. 2014	4.0	4.3	3.6	2.0	3.9	3.8	3.8	3.1	5.6	3.0
Ave. 2015	3.8	4.1	3.4	1.8	3.3	3.8	3.8	2.8	5.3	2.9
Ave. 2016	3.9	4.2	3.6	2.3	3.5	4.0	3.9	2.9	5.4	3.0
Ave. 2017	3.8	4.0	3.5	2.2	3.3	3.9	3.7	2.8	5.2	2.8
Ave. 2018	3.7	3.9	3.5	2.4	3.2	3.8	3.5	2.7	5.1	2.9
Ave. 2019	3.7	3.9	3.6	2.3	3.2	3.6	3.5	2.7	5.3	2.9

**Note:** Data do not include Kinmen County and Lienchiang County.

**Source:** Directorate-General of Budget, Accounting and Statistics, Executive Yuan



**Table 9. Unemployment rates by educational attainment and age (continued)**

%

Year	Age										
	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65+
Ave. 1978	4.0	3.8	1.5	0.6	0.4	0.4	0.4	0.8	0.8	0.4	0.2
Ave. 1981	3.7	3.5	1.1	0.5	0.4	0.4	0.3	0.4	0.4	0.2	0.0
Ave. 1991	4.9	4.4	1.9	0.9	0.8	0.6	0.5	0.5	0.4	0.2	0.1
Ave. 2001	13.6	9.6	5.5	4.2	3.7	3.4	3.3	3.1	2.4	1.3	0.1
Ave. 2006	11.5	10.1	5.9	3.8	2.9	2.4	2.3	2.5	2.3	1.6	0.3
Ave. 2010	10.9	13.5	8.2	5.2	4.1	3.8	3.9	3.5	3.1	1.5	0.2
Ave. 2011	11.2	12.7	7.1	4.3	3.3	3.0	3.0	2.7	2.4	1.6	0.2
Ave. 2012	9.8	13.2	7.1	4.3	3.4	2.8	2.6	2.4	2.1	1.7	0.2
Ave. 2013	9.6	13.7	7.1	4.2	3.4	2.5	2.6	2.3	2.1	1.3	0.1
Ave. 2014	8.8	13.2	6.8	4.0	3.3	2.6	2.4	2.1	2.0	1.2	0.1
Ave. 2015	8.6	12.6	6.6	4.0	3.1	2.4	2.4	2.1	1.8	1.2	0.1
Ave. 2016	8.9	12.6	6.8	3.8	3.4	2.7	2.5	2.1	1.9	1.6	0.2
Ave. 2017	8.8	12.4	6.6	3.5	3.3	2.6	2.3	2.0	1.7	1.7	0.1
Ave. 2018	8.5	12.0	6.4	3.4	3.4	2.6	2.2	2.0	1.7	2.0	0.1
Ave. 2019	9.2	12.3	6.6	3.2	3.2	2.8	2.0	2.0	1.7	2.1	0.3

**Table 10. Average monthly total earnings per employee on payrolls of establishments by industry**

NT\$

Year	Industry & services			Industry						Services	
	Average	Male	Female	Average	Mining & quarrying	Manufacturing	Electricity & gas supply	Water supply & remediation activities	Construction	Average	Wholesale & retail trade
Ave. 1973	-	-	-	2 254	2 964	2 179	4 331	-	2 558	-	-
Ave. 1981	10 677	12 550	8 051	9 915	14 751	9 556	19 157	10 800	10 764	12 186	11 488
Ave. 1991	26 875	31 446	20 794	25 362	28 671	24 430	58 395	29 916	28 193	29 032	26 435
Ave. 2001	41 952	46 995	35 623	39 011	44 068	38 420	97 399	46 002	37 746	44 796	39 775
Ave. 2006	43 492	48 019	38 034	42 515	53 344	42 403	97 230	47 251	39 168	44 349	39 380
Ave. 2010	44 646	48 966	39 475	43 465	52 551	43 152	96 523	45 106	41 598	45 600	41 766
Ave. 2011	45 961	50 482	40 580	44 824	53 978	44 603	95 382	45 828	42 716	46 881	42 562
Ave. 2012	46 109	50 470	40 940	45 309	52 752	45 238	92 871	43 675	42 683	46 747	41 815
Ave. 2013	46 174	50 485	41 091	45 434	54 871	45 448	88 934	44 143	42 540	46 756	42 249
Ave. 2014	47 832	52 087	42 877	46 903	54 093	47 018	94 111	44 919	43 251	48 558	44 377
Ave. 2015	49 024	53 315	44 070	48 373	57 198	48 713	96 595	44 357	43 346	49 526	45 422
Ave. 2016	49 266	53 445	44 457	48 654	55 425	49 162	94 453	43 216	42 839	49 730	45 345
Ave. 2017	50 480	54 706	45 633	49 907	55 098	50 678	94 730	44 286	42 506	50 912	47 260
Ave. 2018	52 407	56 903	47 257	52 005	56 288	52 948	96 054	45 319	43 645	52 708	49 798
Ave. 2019	53 667	58 143	48 540	52 839	57 360	53 740	96 110	45 836	44 862	54 282	51 439
Year	Services										
	Transportation & storage	Accommodation & food service activities	Information & communication	Financial & insurance activities	Real estate activities	Professional, scientific & technical activities	Support service activities	Education (excluding all levels of public & private schools)	Human health activities	Arts, entertainment & recreation	Others
Ave. 1973	3 163	-	-	-	-	-	-	-	-	-	-
Ave. 1981	12 697	8 501	15 999	17 467	18 724	12 458	11 401	-	14 502	10 033	8 462
Ave. 1991	29 898	17 049	41 579	41 031	39 214	33 345	23 702	-	32 366	18 235	18 631
Ave. 2001	48 019	25 973	62 100	62 657	42 277	48 812	35 579	-	54 484	28 338	29 927
Ave. 2006	48 340	24 960	61 134	69 054	38 313	51 721	32 622	-	55 430	31 303	30 203
Ave. 2010	49 012	27 788	64 266	74 219	42 093	52 141	32 064	22 459	57 897	32 687	30 832
Ave. 2011	50 333	29 715	66 291	76 920	43 783	54 097	32 855	22 416	59 900	33 236	32 526
Ave. 2012	50 364	30 072	66 962	77 957	41 546	54 950	33 436	22 773	60 261	35 446	32 601
Ave. 2013	50 021	30 459	65 547	77 864	42 165	53 835	33 662	22 923	59 908	36 070	33 020
Ave. 2014	50 291	31 676	66 386	83 085	44 786	55 491	34 689	24 226	61 298	35 829	34 491
Ave. 2015	51 579	32 508	66 595	84 742	44 075	56 132	35 451	24 304	64 100	36 184	33 901
Ave. 2016	52 540	32 498	67 749	85 452	42 897	56 427	35 855	24 876	65 236	36 821	33 497
Ave. 2017	53 314	33 406	69 196	86 425	44 893	57 585	36 178	25 288	65 681	37 535	33 860
Ave. 2018	54 994	34 077	69 909	89 215	47 658	58 773	37 133	26 033	67 014	38 742	34 966
Ave. 2019	55 525	34 731	72 160	93 074	50 413	61 272	37 603	26 971	68 492	39 520	35 583

**Note:** 1. Data do not include Kinmen County and Lienchiang County.

2. The data in the table are based on the 10th revised Standard Industrial Classification System from 2018.

**Source:** Directorate-General of Budget, Accounting and Statistics, Executive Yuan

**EDUCATION, SCIENCE AND TECHNOLOGY,  
CULTURE AND MASS COMMUNICATION**

Table 11. Educational situation

School Year	No. of schools (Schools)	No. of teachers (Persons)			No. of students (Persons)			No. of schools per 1,000Sq. Km (Schools)	No. of students per teacher (Persons)	No. of students per 1,000 population (Persons)	Educational expenditure per student (NT\$)
		Total	Male	Female	Total	Male	Female				
1961	3 095	71 098	47 977	23 121	2 540 665	1 407 586	1 133 079	86.06	35.73	226.64	704
1971	4 115	126 454	77 009	49 445	4 130 691	2 239 648	1 891 043	113.80	32.67	274.04	2 815
1981	5 241	170 347	87 733	82 614	4 641 975	2 402 005	2 239 970	144.86	27.25	255.14	20 395
1991	6 787	219 788	97 702	122 086	5 323 715	2 709 473	2 614 242	187.58	24.22	258.36	56 533
2001	8 158	271 625	105 326	166 299	5 354 091	2 732 602	2 621 489	225.43	19.71	238.96	113 255
2010	8 196	273 189	104 732	168 457	4 965 690	2 571 212	2 394 478	226.48	18.18	214.39	156 042
2011	8 100	271 523	103 360	168 163	4 860 022	2 515 663	2 344 359	223.82	17.90	209.26	166 410
2012	11 496	301 911	103 282	198 629	5 007 275	2 594 024	2 413 251	317.66	16.59	214.76	166 280
2013	11 426	303 113	103 000	200 113	4 859 558	2 512 750	2 346 808	315.72	16.03	207.91	172 519
2014	11 078	303 078	102 086	200 992	4 729 465	2 441 816	2 287 649	306.11	15.60	201.82	180 035
2015	10 948	299 917	100 142	199 775	4 616 078	2 380 564	2 235 514	302.48	15.39	196.50	187 646
2016	10 882	294 911	97 749	197 162	4 504 363	2 318 647	2 185 716	300.66	15.27	191.35	195 477
2017	10 884	293 554	95 942	197 612	4 403 690	2 265 250	2 138 440	300.71	15.00	186.82	204 113
2018	10 902	295 054	95 110	199 944	4 325 027	2 223 310	2 101 717	301.21	14.66	183.35	208 794
2019	10 931	297 091	94 353	202 738	4 260 327	2 189 790	2 070 537	302.01	14.34	180.50	...

Source: Ministry of Education

**Table 12. Expenditure situation on education**

I . Educational expenditure

Fiscal Year	Total educational expenditure			Government's educational expenditure			
	Amount (Thousand NT\$)	As a % of GNI (%)		Amount (Thousand NT\$)	Per capita (NT\$)	As a % of gov. exp. (%)	
		Public	Private				
1951	213 082	1.69	1.69	-	213 082	28	9.93
1971	11 236 766	4.49	3.62	0.87	9 065 121	614	16.51
1981	74 112 578	4.45	3.61	0.83	60 262 157	3 312	14.71
1991	300 965 051	6.20	5.10	1.10	247 488 080	12 011	17.77
2001	590 444 164	5.73	4.26	1.47	406 886 944	18 160	17.91
2010	765 283 147	5.29	4.04	1.25	516 804 324	22 312	20.13
2011	784 518 065	5.36	4.12	1.24	537 799 401	23 156	20.58
2012	817 856 782	5.41	4.12	1.30	548 815 737	23 538	20.49
2013	832 633 478	5.31	3.97	1.34	553 419 602	23 677	20.76
2014	843 545 864	5.05	3.79	1.27	564 144 138	24 074	21.32
2015	856 766 171	4.90	3.67	1.22	575 286 556	24 489	21.75
2016	873 281 648	4.85	3.65	1.20	590 263 123	25 075	21.50
2017	886 970 355	4.81	3.63	1.18	601 521 134	25 519	21.65
2018	907 010 190	4.84	3.66	1.18	614 799 693	26 063	21.61
2019	899 492 920	4.65	3.51	1.14	602 838 326	25 541	20.24

**Note:** 1. From FY 2000, the government's educational expenditure to public sector was calculated in accordance with the scope of "The Compilation and Administration of Education Expenditures Act" definition.

2. The private sector is only private school.

3. The data of GNI and GDP were announced by DGBAS in August, 2018, and it is the same in Table 18.

4. Public sector expenditure on education includes government's educational expenditure and self-financing.

**Source:** Ministry of Education

**Table 12. Expenditure situation on education (continued)**  
II. Total educational expenditure and composition at all levels of schools

Thousand NT\$

School Year	Kindergarten (1)		Primary and jr. high school		Senior secondary school			
	Amount	As a % of total ed. exp. (%)	Amount	As a % of total ed. exp. (%)	Amount		As a % of total ed. exp. (%)	
					Sr. high school	Vocational school	Sr. high school	Vocational school
1971	130 308	1.22	5 597 317	52.30	1 271 932	1 127 694	11.89	10.54
1981	1 638 797	2.12	38 348 249	49.57	7 588 738	8 642 887	9.81	11.17
1991	8 938 441	3.18	134 930 938	47.95	24 176 059	27 932 875	8.59	9.93
2001	16 392 865	3.15	234 848 594	45.18	54 833 510	32 114 076	10.55	6.18
2006	16 840 356	2.78	263 846 425	43.50	63 029 864	30 858 354	10.39	5.09
2009	20 492 347	3.30	265 932 749	42.85	68 636 695	34 677 263	11.06	5.59
2010	22 410 725	3.58	270 759 569	43.26	68 105 694	34 447 731	10.88	5.50
2011	35 716 015	5.32	289 288 021	43.08	70 880 551	33 560 846	10.56	5.00
2012	49 007 110	6.91	302 103 382	42.62	72 498 167	33 977 710	10.23	4.79
2013	47 807 343	6.80	302 449 368	43.01	106 711 092		15.18	
2014	48 866 832	6.93	302 419 974	42.89	106 365 069		15.09	
2015	51 833 721	7.25	304 021 318	42.53	109 065 920		15.26	
2016	55 314 280	7.68	304 841 439	42.33	109 779 660		15.24	
2017	58 130 354	7.94	307 867 393	42.08	111 283 948		15.21	
2018	61 279 863	8.27	309 876 561	41.83	113 733 569		15.35	
School Year	Junior college		University & college		Supplementary school		Special ed. school	
	Amount	As a % of total ed. exp. (%)	Amount	As a % of total ed. exp. (%)	Amount	As a % of total ed. exp. (%)	Amount	As a % of total ed. exp. (%)
1971	-	-	2 574 330	24.06	-	-	-	-
1981	7 912 238	10.23	13 233 316	17.11	-	-	-	-
1991	24 610 075	8.75	59 457 368	21.13	-	-	1 342 372	0.48
2001	9 713 177	1.87	168 698 089	32.45	175 137	0.03	3 030 678	0.58
2006	4 065 979	0.67	224 197 996	36.96	203 285	0.03	3 520 638	0.58
2009	4 199 929	0.68	222 516 267	35.86	228 316	0.04	3 880 696	0.63
2010	4 430 076	0.71	221 480 012	35.39	298 630	0.05	3 973 171	0.63
2011	5 719 453	0.85	232 111 633	34.57	212 960	0.03	3 991 822	0.59
2012	5 534 968	0.78	241 560 285	34.08	199 337	0.03	4 000 443	0.56
2013	5 238 632	0.74	236 641 558	33.65	199 747	0.03	4 133 424	0.59
2014	5 361 641	0.76	237 844 409	33.73	-	-	4 218 629	0.60
2015	5 580 545	0.78	240 052 267	33.58	-	-	4 258 515	0.60
2016	5 655 651	0.79	240 307 166	33.37	-	-	4 211 512	0.58
2017	5 208 252	0.71	244 965 773	33.48	-	-	4 220 560	0.58
2018	5 303 440	0.72	246 333 544	33.25	-	-	4 336 738	0.59

**Note:** The data of university and college include junior college in SY 1971.

(1) The kindergartens include the child-care from SY 2012.

**Table 13. Primary and junior high school**

I . Primary school

Persons

School Year	No. of schools (Schools)	No. of teachers		No. of staffs	No. of classes (Classes)	No. of students		No. of graduates	
			Female				Female		Female
1946	1 130	15 356	4 905	-	13 683	823 400	337 997	97 051	-
1971	2 331	60 576	26 429	1 378	49 300	2 456 615	1 189 368	389 245	-
1981	2 444	69 613	35 900	1 770	50 622	2 213 179	1 075 582	375 965	-
1991	2 495	84 304	50 886	3 510	56 009	2 293 444	1 111 804	399 710	194 042
2001	2 611	103 501	69 938	7 114	63 172	1 925 491	920 991	326 223	155 865
2010	2 661	99 562	68 703	7 925	58 652	1 519 746	725 094	271 625	130 172
2011	2 659	98 559	68 326	8 046	57 986	1 457 004	694 988	285 628	136 258
2012	2 657	97 466	67 840	8 322	56 391	1 373 366	654 851	275 346	131 871
2013	2 650	97 436	68 258	8 621	54 641	1 297 120	618 346	242 831	115 974
2014	2 644	98 580	69 497	8 805	53 541	1 252 762	596 921	230 012	109 644
2015	2 633	97 368	68 890	8 936	52 404	1 214 360	579 158	214 785	101 779
2016	2 630	95 081	67 407	8 985	51 097	1 173 885	560 728	208 832	100 082
2017	2 630	94 403	67 063	9 032	50 311	1 146 661	548 134	201 696	95 952
2018	2 631	95 670	68 256	9 099	50 767	1 158 551	555 227	198 563	94 951
2019	2 631	96 604	69 246	9 166	51 119	1 170 612	561 742	...	...

**Note:** 1. The number of teachers include staffs in SY 1946.

2. Data do not include Kinmen County and Lienchiang County before SY 1956.

**Source:** Ministry of Education

**Table 13. Primary and junior high school (continued)**

## II. Junior high school

Persons

School Year	No. of schools (Schools)	No. of teachers		No. of staffs	No. of classes (Classes)	No. of students		No. of graduates	
			Female				Female		Female
1968	487	18 587	-	3 704	11 459	617 225	241 816	147 140	-
1971	567	30 239	-	4 912	16 345	847 660	358 801	248 017	-
1981	658	44 796	-	6 402	22 946	1 070 942	510 674	342 117	-
1991	706	52 495	30 372	6 657	26 843	1 176 402	571 428	376 686	185 262
2001	708	49 318	32 207	7 177	26 803	935 738	450 298	300 235	144 958
2010	740	51 965	35 383	6 593	28 146	919 802	440 934	316 906	152 059
2011	742	51 200	34 896	6 509	27 639	873 226	418 411	309 159	148 878
2012	740	51 872	35 398	6 480	27 468	844 884	404 173	284 579	137 052
2013	738	52 451	35 888	6 592	27 639	831 925	397 958	267 798	128 825
2014	738	52 154	35 776	6 717	27 251	803 233	383 818	276 628	133 439
2015	733	50 394	34 683	6 659	26 052	747 724	357 251	265 886	129 065
2016	736	48 063	33 141	6 645	24 637	687 212	327 263	236 042	114 148
2017	732	46 770	32 329	6 565	23 761	653 273	311 308	224 751	108 168
2018	737	46 452	32 086	6 510	23 034	624 409	297 523	209 978	100 501
2019	739	46 606	32 095	6 409	22 525	607 969	290 737	...	...



**Table 14. Senior secondary schools**

Persons

School Year	No. of schools (Schools)		No. of teachers		No. of staffs		No. of classes (Classes)				
	Sr. high school	Vocational school	Sr. high school	Vocational school	Sr. high school	Vocational school	General education	Comprehensive high school	Vocational education	Practical technical program	Continuing education
1946	132	76	1 914	1 314	859	764	-	-	-	-	-
1971	199	168	10 476	8 212	2 933	3 081	4 122		4 597	-	1 680
1981	180	196	13 156	13 147	3 262	4 124	3 841		8 064	-	3 871
1991	177	212	16 711	18 000	3 599	5 045	4 472		10 264	588	4 382
2001	295	178	31 894	17 397	5 910	4 503	8 749		9 203	1 148	3 113
2010	335	156	36 257	16 906	6 668	4 073	10 082		8 738	1 289	2 595
2011	336	155	36 407	16 976	6 607	3 995	10 119		8 847	1 241	2 515
2012	340	155	37 159	17 166	6 635	4 040	10 110		8 932	1 182	2 387
2013	344	155	37 842	17 045	6 760	4 063	9 975		8 881	1 102	2 248
2014	503		55 699		11 012		8 156	1 676	8 810	1 051	2 092
2015	506		55 340		10 969		8 233	1 528	8 760	1 006	1 923
2016	506		54 575		10 969		8 343	1 387	8 761	993	1 788
2017	511		53 962		10 880		8 352	1 255	8 605	970	1 650
2018	513		52 963		10 772		8 289	1 101	8 328	944	1 522
2019	513		52 153		10 673		8 262	958	8 011	911	1 385

**Note:** 1. Data include Kinmen County and Lienchiang County from SY 1971.

2. Since the "Senior High School Education Act" was fulfilled in 2013, the types of the senior secondary schools are classified into General education, Vocational education, Comprehensive high school, Practical technical program, and Continuing education from SY 2014.

**Source:** Ministry of Education

Table 14. Senior secondary schools (continued)

School Year	No. of students					No. of graduates	
	General education	Comprehensive high school	Vocational education	Practical technical program	Continuing education	Sr. high school	Vocational school
1946	-	-	-	-	-	298	5 058
1971	190 798		198 969	-	73 972	49 604	52 045
1981	182 391		374 206	-	172 130	53 411	101 524
1991	218 061		475 852	23 386	186 619	61 720	134 917
2001	370 980		377 731	39 750	110 343	112 596	134 013
2010	400 642		362 514	51 904	87 494	128 967	109 837
2011	401 958		366 449	48 018	82 763	128 502	109 863
2012	402 689		369 436	44 301	74 698	128 831	111 933
2013	393 313		360 206	40 530	66 909	277 047	
2014	311 213	65 042	345 937	37 741	58 933	272 638	
2015	309 410	57 481	337 354	35 696	52 349	250 172	
2016	311 077	50 737	332 184	34 794	47 321	233 642	
2017	310 239	44 929	315 649	33 041	41 606	241 288	
2018	300 692	38 118	290 769	31 079	36 124	231 022	
2019	289 979	31 549	262 047	28 451	30 786		...

**Table 15. Higher Education**  
I . Summary of universities, colleges and junior colleges

Persons

School Year	No. of schools (Schools)			No. of graduate schools (Schools)	No. of staffs		
	University	College	Junior college			Female	
1946	4	1	3	-		906	-
1971	96	9	14	73	110	6 558	-
1981	104	16	11	77	232	9 185	-
1991	123	21	29	73	446	9 796	5 588
2001	154	57	78	19	1 668	15 595	10 364
2010	163	112	36	15	3 362	27 249	19 051
2011	163	116	32	15	3 326	29 779	21 050
2012	162	120	28	14	3 355	30 400	21 504
2013	161	122	25	14	3 384	30 617	21 761
2014	159	124	21	14	3 417	30 694	21 861
2015	158	126	19	13	3 466	30 656	21 925
2016	158	126	19	13	3 528	31 088	22 243
2017	157	129	15	13	3 600	31 510	22 584
2018	153	127	14	12	3 569	31 523	22 617
2019	152	126	14	12	3 575	31 108	22 328

  

School Year	No. of departments (Departments)	No. of teachers (Including assistants ) (1)		No. of students		No. of graduates	
			Female		Female		Female
1946	59	616	-	2 983	54	154	-
1971	943	11 471	2 586	222 505	82 074	40 756	-
1981	1 349	17 452	4 910	358 437	148 107	75 128	-
1991	1 759	29 444	9 208	612 376	282 989	144 354	69 561
2001	4 381	44 769	15 517	1 187 225	591 374	296 884	150 274
2010	5 005	50 684	17 229	1 343 603	662 549	313 211	159 106
2011	4 857	50 332	17 252	1 352 084	668 717	315 564	161 406
2012	4 837	50 158	17 401	1 355 290	671 844	309 333	157 412
2013	4 811	50 024	17 496	1 345 973	672 097	311 041	159 617
2014	4 689	49 357	17 379	1 339 849	673 721	309 849	161 023
2015	4 589	48 696	17 268	1 332 445	671 670	309 277	160 396
2016	4 627	48 096	17 138	1 309 441	662 575	304 649	159 225
2017	4 634	47 412	17 070	1 273 894	644 854	304 919	158 856
2018	4 516	46 794	16 958	1 244 822	630 469	301 170	157 241
2019	4 429	46 137	16 751	1 213 172	613 981	...	...

**Note:** (1) From SY 2009, the number of staffs include assistants appointed after March 21, 1997.

**Source:** Ministry of Education

Table 15. Higher Education (continued)

## II. Number of students by fields of study

Persons

School Year & Types of Degree	Total	Education	Arts	Huma- nities	Lan- guages & litera- tures	Social & behav- ioral sciences	Journa- lism & library informa- tion	Business & admini- stration	Law	Life sciences	Physical sciences, chemistry & earth sciences
1991	612 376	26 511	10 815	35 426	22 104	9 650	131 272	6 907	-	16 428	
1996	795 547	33 042	13 784	47 249	25 927	10 716	179 080	8 348	-	18 862	
2001	1 187 225	46 141	36 115	94 594	37 278	17 147	267 130	12 203	8 124	18 091	
2006	1 313 993	44 185	53 737	117 436	46 662	25 302	258 072	19 160	21 054	22 135	
2010	1 343 603	41 135	75 825	116 298	49 794	26 973	240 085	20 520	23 660	23 636	
2011	1 352 084	40 693	81 923	116 266	49 227	27 018	239 452	20 358	23 169	24 025	
2012	1 355 290	39 682	88 142	114 857	48 907	26 467	238 671	20 174	22 431	23 822	
2013	1 345 973	38 704	93 258	113 426	48 507	26 086	234 781	20 019	21 604	23 053	
2014	1 339 849	38 704	96 873	112 284	48 462	26 364	231 665	19 870	20 734	22 901	
2015	1 332 445	38 600	99 627	110 703	48 623	26 763	228 196	20 174	19 830	22 594	
2016	1 309 441	38 816	99 985	107 749	48 064	26 389	222 007	20 415	19 160	22 128	
2017	1 273 894	35 969	105 409	15 281	90 660	39 980	19 354	220 619	20 360	26 695	21 150
2018	1 244 822	35 701	104 695	14 585	87 605	40 346	17 888	211 565	20 212	25 259	21 170
2019	1 213 172	35 466	102 243	14 231	84 808	40 221	17 272	205 368	20 106	24 533	21 218
Ph.D. program	28 510	2 729	1 144	840	1 485	1 459	151	2 992	395	1 531	1 723
M. A. program	168 203	13 187	10 944	3 217	6 873	10 385	2 023	31 333	6 491	3 589	4 617
Univ. & college	932 518	19 550	86 478	10 174	71 175	28 377	15 094	164 903	13 220	18 698	14 878
Total for Jr. college	83 941	-	3 677	-	5 275	-	4	6 140	-	715	-
School Year & Types of Degree	Mathe- matics & statistics	Information & communica- tion tech- nologies	Engineering & engineering trades	Manufac- turing & proce- ssing	Architec- ture & construc- tion	Agricul- ture, forestry & fisheries	Medicine & health	Social welfare	Hospi- tality, tourism & personal service	Transport services	Environ- ment
1991	-	27 608	215 505	8 670	17 188	56 006	-	-	7 015	-	
1996	-	50 773	252 415	13 231	22 219	77 446	-	-	9 566	-	
2001	16 069	76 235	327 058	15 476	24 708	115 139	21 439	43 363	8 304	831	
2006	16 429	85 238	320 656	14 766	23 693	119 791	36 014	74 008	9 512	3 730	
2010	16 012	77 378	303 080	15 525	25 871	122 859	32 366	115 966	9 088	3 027	
2011	15 910	77 611	295 319	15 631	26 446	122 639	31 134	128 938	8 921	3 239	
2012	15 669	76 079	285 630	15 391	26 458	122 848	31 684	142 239	8 833	2 974	
2013	15 201	72 551	275 963	14 835	26 124	123 151	31 477	151 873	9 110	2 049	
2014	15 018	68 509	268 135	15 032	25 784	124 190	31 683	158 163	9 468	1 875	
2015	14 889	65 022	262 444	14 920	25 735	125 698	31 612	161 327	9 729	1 847	
2016	14 698	59 632	256 213	14 517	25 391	127 946	31 307	159 124	9 852	1 787	
2017	13 581	80 510	209 907	9 858	31 910	119 622	31 289	148 142	9 913	3 215	
2018	13 066	83 239	203 484	9 977	31 364	120 488	29 903	140 785	9 553	2 805	
2019	12 867	80 364	201 516	9 733	30 234	119 067	29 634	130 394	9 544	2 639	
Ph.D. program	209	1 331	6 814	171	864	502	3 428	136	210	78	105
M. A. program	1 799	11 653	35 974	1 331	5 502	2 214	7 206	2 150	5 081	1 064	819
Univ. & college	10 859	64 823	154 862	8 078	23 203	11 896	64 795	22 651	113 342	7 908	1 715
Total for Jr. college	-	2 557	3 866	153	665	245	43 638	4 697	11 761	494	-

**Table 16. Number of overseas compatriot Chinese students in all levels of schools**

Persons

School Year	Number of overseas compatriot Chinese students			University		National Defense Medical Center		NTNU Division of Preparatory Programs for Overseas Chinese Students		Junior college	
	Total	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
2005	11 401	5 583	5 818	4 180	4 391	48	30	498	499	115	198
2006	11 455	5 687	5 768	4 474	4 583	48	27	516	498	91	158
2007	11 974	6 117	5 857	4 874	4 576	43	32	592	593	71	155
2008	12 510	6 403	6 107	5 150	4 897	40	34	636	557	62	124
2009	13 941	7 082	6 859	5 675	5 553	42	30	763	697	42	110
2010	14 610	7 476	7 134	6 164	5 911	42	33	735	643	28	81
2011	15 151	7 821	7 330	6 789	6 404	42	33	447	339	18	48
2012	16 266	8 468	7 798	7 401	6 813	40	34	511	424	15	40
2013	18 068	9 393	8 675	8 229	7 637	43	37	619	504	21	45
2014	21 437	11 265	10 172	9 878	8 863	47	34	655	593	26	38
2015	24 649	12 953	11 696	11 550	10 232	49	39	464	526	22	36
2016	26 973	14 126	12 847	12 472	11 146	49	49	434	416	19	41
2017	28 308	14 766	13 542	12 919	11 624	54	54	277	311	14	37
2018	28 805	14 841	13 964	12 370	11 542	57	67	238	259	10	32
2019	28 743	14 757	13 986	11 606	11 086	51	73	251	258	11	30

  

School Year	Senior secondary schools				Junior high school		Primary school		Elementary & junior high supp. school		Continuing school	
	Male		Female		Male	Female	Male	Female	Male	Female	Male	Female
	Sr. high school	Vocational school	Sr. high school	Vocational school								
2005	163	207	177	101	229	179	116	84	7	132	20	27
2006	150	165	170	115	146	107	69	64	6	20	22	26
2007	150	160	156	103	138	132	68	55	3	31	18	24
2008	166	130	178	90	137	124	73	59	9	44	-	-
2009	197	91	199	69	111	95	161	106	-	-	-	-
2010	174	86	178	61	92	99	155	128	-	-	-	-
2011	203	74	218	65	92	84	156	139	-	-	-	-
2012	180	66	183	68	65	88	190	148	-	-	-	-
2013	188	56	187	59	59	71	178	135	-	-	-	-
2014	347	56	363	59	103	105	209	176	-	-	-	-
2015	588	56	571	78	78	94	202	198	-	-	-	-
2016	832	928	122	110	198	157	-	-	-	-	-	-
2017	1 275	1 286	73	91	154	139	-	-	-	-	-	-
2018	1 919	1 812	77	87	170	165	-	-	-	-	-	-
2019	2 546	2 284	112	100	180	155	-	-	-	-	-	-

**Note:** Including Students from Hong Kong and Macao

**Source:** Ministry of Education

Table 17. Summary of R&amp;D personnel

Persons, Person-years

Year	R&D personnel							R&D personnel indicators		
	Total	Researchers		Technicians		Supporting staff		Resear- chers per 1,000 population	Resear- chers per 1,000 labor force	Annual R&D expenditure per researcher (Million NT\$)
		Female	Female	Female						
1999	134 845	67 165	13 307	51 754	11 633	15 926	8 025	3.0	7.0	2.84
2001	138 409	73 239	13 334	48 886	11 830	16 283	9 096	3.3	7.4	2.80
2006	212 483	126 168	25 820	67 715	17 828	18 600	10 889	5.5	12.0	2.43
2007	228 987	136 249	27 294	72 799	19 115	19 939	11 773	5.9	12.7	2.44
2008	241 366	144 234	28 994	77 218	20 523	19 914	11 885	6.3	13.3	2.44
2009	256 252	154 949	31 857	80 433	22 479	20 870	11 689	6.7	14.2	2.37
2010	273 249	165 370	34 580	86 882	23 773	20 997	12 324	7.1	14.9	2.39
2011	288 311	174 341	37 544	91 618	25 028	22 352	13 453	7.5	15.6	2.38
2012	296 288	179 491	39 038	94 863	25 989	21 934	12 501	7.7	15.8	2.42
2013	300 514	179 975	39 482	98 356	26 507	22 183	13 147	7.7	15.7	2.55
2014	307 379	181 589	40 066	103 408	27 329	22 382	12 877	7.7	15.7	2.67
2015	312 923	183 022	40 574	106 822	28 019	23 079	13 070	7.8	15.7	2.80
2016	316 467	184 898	41 300	108 755	29 016	22 814	12 886	7.9	15.8	2.93
2017	321 877	187 971	42 393	110 428	29 977	23 478	13 525	8.0	15.9	3.06
2018	330 579	193 035	43 654	114 145	31 668	23 399	13 342	8.2	16.3	3.19
Year	Researchers (Full time equivalent)									
	Total	By field of science and technology						By qualification		
		Natural sciences	Engi- neering & techno- logy	Medical sciences	Agricul- tural sciences	Humanities	Social sciences	Ph.D.	Master	Bachelor
1999	54 844	7 962	35 172	4 189	2 949	2 046	2 526	11 614	20 435	22 795
2001	59 656	8 692	38 874	4 433	3 037	1 588	3 033	12 797	24 825	22 034
2006	95 176	15 327	62 759	6 611	3 239	2 058	5 182	16 792	49 545	28 839
2007	103 786	17 204	68 616	6 707	3 208	2 391	5 660	18 264	54 324	31 197
2008	110 461	18 489	73 077	7 375	3 216	2 524	5 779	19 580	58 157	32 725
2009	119 320	19 948	78 497	8 153	3 271	2 904	6 546	20 968	63 837	34 515
2010	128 135	21 209	84 900	8 828	3 583	2 984	6 632	22 451	68 290	37 394
2011	134 503	22 040	89 922	9 063	3 530	3 204	6 745	23 813	71 071	39 619
2012	139 763	22 944	93 486	9 541	3 496	3 187	7 109	24 978	73 858	40 927
2013	140 781	23 497	93 973	9 558	3 546	3 169	7 038	25 926	75 239	39 616
2014	142 458	23 725	95 369	9 877	3 380	3 203	6 905	26 077	76 900	39 482
2015	144 836	24 035	97 298	10 234	3 204	3 230	6 836	26 661	79 198	38 978
2016	147 141	24 162	99 600	10 338	3 125	3 122	6 794	26 884	81 447	38 810
2017	149 886	24 494	101 660	10 598	3 037	3 115	6 982	27 061	83 445	39 380
2018	153 998	24 617	105 136	11 109	3 152	3 045	6 939	27 096	85 892	41 010
Business enterprise	109 276	16 203	87 644	3 107	488	241	1 593	6 925	65 215	37 136
Government	15 688	2 915	7 852	2 426	1 389	300	806	5 431	8 464	1 792
Higher education	28 767	5 460	9 595	5 489	1 218	2 501	4 505	14 606	12 096	2 064
Private non-profit	267	40	45	87	57	3	36	134	117	17

**Note:** R&D personnel do not include the personnel of defense from 1999 to 2001 and include the students of Ph. D. program from 2002.

**Source:** Ministry of Science and Technology

**Table 18. Summary of R&D expenditure**

Million NT\$

Year	R&D expenditure	Growth rate (%)	R&D expenditure as a % of GNI (%)	R&D expenditure as a % of GDP (%)	Gov. sector R&D expenditure as a % of R&D expenditure (%)	Manufacturing industry R&D expenditure as a % of sales (1) (%)	Basic research expenditure as a % of R&D expenditure (%)	Business enterprise R&D expenditure as a % of value-added in industry (2) (%)
1996	137 955	10.3	1.76	1.79	41.6	-	-	-
2001	204 974	3.7	1.98	2.02	33.3	1.26	10.8	1.68
2006	307 037	9.3	2.37	2.43	31.4	1.34	10.2	2.22
2008	351 790	6.0	2.61	2.68	28.2	1.56	10.2	2.60
2009	367 053	4.7	2.76	2.84	28.8	1.84	11.0	2.79
2010	395 879	7.9	2.73	2.82	27.5	1.60	10.5	2.74
2011	415 357	4.9	2.84	2.91	26.4	1.60	10.5	2.88
2012	433 997	4.5	2.87	2.96	24.7	1.75	10.2	3.02
2013	458 433	5.6	2.92	3.00	23.5	1.85	9.8	3.06
2014	484 541	5.7	2.90	2.98	21.9	1.91	9.5	3.03
2015	511 618	5.6	2.92	3.00	21.2	2.23	9.2	3.08
2016	541 757	5.9	3.01	3.09	21.4	2.33	8.6	3.15
2017	574 502	6.0	3.12	3.19	19.8	2.48	8.1	3.29
2018	615 986	7.2	3.28	3.36	18.8	2.56	7.3	3.51

  

Year	R&D expenditure								
	By source of funds					By sector of performance			
	Business enterprise	Government	Higher education	Private non-profit	Abroad	Business enterprise	Government	Higher education	Private non-profit
1991	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-
2001	132 950	68 339	2 719	931	35	130 296	47 732	25 521	1 425
2006	206 177	96 443	3 257	1 071	91	207 238	60 965	37 565	1 270
2008	247 913	99 343	3 237	1 144	153	248 868	58 928	42 784	1 209
2009	256 492	105 879	3 361	780	542	258 039	60 455	47 200	1 359
2010	282 066	108 916	3 654	681	563	283 421	62 258	48 777	1 424
2011	300 741	109 467	4 002	656	491	301 477	61 679	50 790	1 410
2012	321 236	107 286	4 131	454	891	322 111	60 207	50 358	1 321
2013	345 369	107 612	4 049	427	976	346 206	59 877	50 895	1 455
2014	373 177	105 915	4 032	410	1 008	373 019	59 606	50 308	1 608
2015	397 673	108 694	3 964	429	859	397 163	62 125	50 761	1 569
2016	420 639	115 722	3 953	451	991	419 989	69 252	50 904	1 612
2017	455 260	113 571	4 248	527	895	454 116	67 420	51 560	1 406
2018	494 932	115 749	4 159	384	763	494 706	65 740	54 758	781

**Note:** 1. R&D expenditure include defense R&D expenditure from 2002.

2. About the data of source of funds and sector of performance, they couldn't link up before 1999 because their classifications are different.

(1) MOEA's *Factory Adjustment and Operation Survey* was not conducted in 1991, 1996, 2001, 2006, 2011, and 2016, so sales for these years are estimates.

(2) Value added in industry are calculated from *National Accounts* by DGBAS, and in accordance with the industrial scope of OECD definition.

**Source:** 1. Ministry of Science and Technology

2. Directorate-General of Budget, Accounting and Statistics

Table 18. Summary of R&amp;D expenditure (continued)

Million NT\$

Year	R&D expenditure										
	By type of R&D			By type of costs							
	Basic research	Applied research	Experimental development	R&D current expenditure			R&D capital expenditure				
				Sub-total	Labor costs	Other current costs	Sub-total	Land and buildings	Instruments and equipment	Capitalized computer software	Other intellectual property products
1991	8 275	33 320	40 170	-	-	-	-	-	-	-	-
1996	15 223	41 463	81 269	-	-	-	-	-	-	-	-
2001	22 143	59 914	122 917	175 730	89 634	86 096	29 244	5 755	23 489	-	-
2006	31 229	81 270	194 539	269 860	143 957	125 903	37 177	2 898	34 279	-	-
2008	35 881	89 538	226 370	318 088	175 437	142 651	33 701	2 259	31 442	-	-
2009	40 220	93 129	233 704	333 703	188 458	145 245	33 350	2 488	30 862	-	-
2010	41 731	97 484	256 664	361 227	207 899	153 328	34 652	2 221	32 432	-	-
2011	43 716	98 807	272 834	379 035	216 458	162 578	36 322	2 639	33 682	-	-
2012	44 342	102 122	287 533	395 996	228 827	167 169	38 001	1 890	36 111	-	-
2013	44 796	106 795	306 843	417 795	242 066	175 729	40 638	3 885	36 753	-	-
2014	45 838	111 762	326 941	441 944	263 519	178 425	42 597	5 047	37 551	-	-
2015	47 232	118 117	346 269	464 948	280 622	184 326	46 671	6 368	40 303	-	-
2016	46 807	124 230	370 720	492 964	294 964	198 000	48 793	5 900	39 941	1 531	1 420
2017	46 604	130 937	396 961	517 161	312 520	204 641	57 340	5 394	46 200	3 598	2 148
2018	44 918	141 435	429 634	555 930	336 797	219 133	60 056	3 267	51 003	3 813	1 974



**Table 19. Number of patent applications and grant**

Cases

Year	No. of patent applications	Types			Residents & non-residents	
		Invention	Utility model	Design	Residents	Non-residents
1956	541	59	322	160	514	27
1971	4 640	1 879	2 344	417	3 023	1 617
1981	15 027	3 872	7 408	3 747	10 131	4 896
1991	36 127	10 325	16 644	9 158	22 940	13 187
1996	47 055	15 959	19 975	11 121	31 185	15 870
2010	80 380	47 327	25 833	7 220	51 871	28 509
2011	82 824	49 919	25 170	7 735	52 061	30 763
2012	85 074	51 189	25 637	8 248	52 282	32 792
2013	83 211	49 217	25 025	8 969	50 535	32 676
2014	78 015	46 379	23 488	8 148	45 773	32 242
2015	73 627	44 415	21 404	7 808	41 844	31 783
2016	72 442	43 836	20 161	8 445	40 443	31 999
2017	73 791	46 122	19 549	8 120	40 835	32 956
2018	73 421	47 429	17 910	8 082	39 278	34 143
2019	74 652	48 268	17 580	8 804	39 604	35 048

  

Year	No. of patent grant (1)	Types			Residents & non-residents	
		Invention	Utility model	Design	Residents	Non-residents
1956	189	31	114	44	170	19
1971	2 524	1 433	946	145	969	1 555
1981	6 264	2 074	2 902	1 288	2 897	3 367
1991	27 281	10 123	12 344	4 814	13 555	13 726
1996	29 469	8 594	13 623	7 252	19 410	10 059
2010	46 023	16 377	23 956	5 690	34 925	11 098
2011	50 305	20 025	24 038	6 242	36 767	13 538
2012	56 608	25 535	24 642	6 431	39 551	17 057
2013	72 142	40 249	24 844	7 049	47 378	24 764
2014	76 252	45 601	23 712	6 939	47 742	28 510
2015	78 087	48 315	22 106	7 666	46 446	31 641
2016	76 406	48 947	19 793	7 666	43 971	32 435
2017	71 877	45 710	19 037	7 130	40 132	31 745
2018	62 193	36 147	18 559	7 487	35 824	26 369
2019	57 886	34 926	16 300	6 660	33 065	24 821

**Note:** (1) This system was replaced by the patent granted system on July 1, 2004, which issues a certificate at the same time the approval is published; number of patent grant is the number of approval before 2005.

**Source:** Intellectual Property Office, Ministry of Economic Affairs

Table 20. General conditions of culture and mass communication

Numbers

End of Year					Cinema (3)	Radio & TV				
	Publishing industries	Newspaper & related publishing (1)	Periodical & magazine publishing (1)	Book publishing (1)(2)		Wireless radio & TV		Satellite broadcasting		
						Radio	TV	Direct satellite broadcasting service operator	Program supplier (4)	
									Domestic	Foreign
2005	3 581	195	933	1 900	184	-	-	-	-	-
2006	3 637	171	955	1 948	169	-	-	-	-	-
2007	5 095	177	984	1 908	108	-	-	-	-	-
2008	9 587	183	996	1 864	115	-	-	-	-	-
2009	9 378	191	1 040	1 839	111	172	5	-	79	30
2010	9 249	197	1 073	1 828	108	171	5	-	82	30
2011	9 144	202	1 125	1 833	110	171	5	-	80	29
2012	9 036	211	1 218	1 829	113	171	5	8	80	29
2013	8 884	215	1 247	1 878	108	171	5	7	84	30
2014	8 642	224	1 298	1 876	104	171	5	6	86	29
2015	8 386	232	1 284	1 869	107	171	5	6	93	30
2016	8 254	248	1 291	1 897	114	170	5	6	93	33
2017	8 156	253	1 307	1 909	116	171	5	5	92	30
2018	8 110	258	1 317	1 962	125	171	5	5	90	28
2019	...	...	...	...	...	171	5	5	87	27
End of Year	Radio & TV									
	Satellite broadcasting		Cable TV					Multimedia content platform service		
	Channels		Transmi- sion system	System operators	Subscribers	Digital service subscribers	Digital pay- channel subscribers	Numbers	Channels	Subscribers
	Domestic	Foreign								
2005	-	-	-	-	-	-	-	-	-	-
2006	-	-	-	-	-	-	-	-	-	-
2007	-	-	-	-	-	-	-	-	-	-
2008	-	-	-	-	-	-	-	-	-	-
2009	233		3	60	4 980 251	256 727	146 586	2	120	668 541
2010	268		3	59	5 084 491	391 462	276 984	2	158	815 579
2011	158	105	3	59	5 061 737	570 727	428 448	2	181	1 064 138
2012	157	112	3	59	4 989 155	1 049 321	585 655	2	209	1 205 760
2013	165	115	3	56	4 985 222	2 275 194	972 262	2	208	1 265 111
2014	169	111	3	56	5 002 216	3 947 507	1 212 630	1	159	1 284 557
2015	181	118	3	61	5 078 876	4 563 243	1 329 730	1	195	1 298 012
2016	180	124	2	63	5 205 562	4 988 968	1 418 710	1	193	1 331 545
2017	175	115	-	65	5 225 255	5 196 974	1 550 946	1	202	1 602 048
2018	171	114	-	65	5 077 382	5 075 066	1 531 364	1	206	2 009 964
2019	165	110	-	64	4 974 839	4 974 688	1 549 020	1	205	2 081 891

**Note:** (1) Data include the digital publishing.

(2) Data include the comic creation, literary creation and independent contributors from 2010.

(3) Data include the open-air cinema.

(4) Some program suppliers are for both domestic and foreign program suppliers at the same time.

**Source:** 1. Ministry of Culture

2. National Communications Commission

# HEALTH

**Table 21. General situation of medical institutions and registered medical personnel**

 No., Persons, Km<sup>2</sup>

End of Year	Medical institutions								
		Hospitals	Hospitals per 10,000 population	No. of population per hospital	Areas per hospital	Clinics	Clinics per 10,000 population	No. of population per clinic	Areas per clinic
1954	1 000	-	-	-	-	-	-	-	-
1971	7 107	-	-	-	-	-	-	-	-
1981	11 161	-	-	-	-	-	-	-	-
1991	13 661	821	0.40	25 039	44.07	12 840	6.25	1 601	2.82
2001	18 265	637	0.28	35 174	56.81	17 628	7.87	1 271	2.05
2010	20 691	508	0.22	45 595	71.24	20 183	8.71	1 148	1.79
2011	21 135	507	0.22	45 809	71.39	20 628	8.88	1 126	1.75
2012	21 437	502	0.22	46 446	72.10	20 935	8.98	1 114	1.73
2013	21 713	495	0.21	47 219	73.12	21 218	9.08	1 102	1.71
2014	22 041	497	0.21	47 150	72.82	21 544	9.19	1 088	1.68
2015	22 177	494	0.21	47 555	73.27	21 683	9.23	1 083	1.67
2016	22 384	490	0.21	48 040	73.87	21 894	9.30	1 075	1.65
2017	22 612	483	0.20	48 802	74.94	22 129	9.39	1 065	1.64
2018	22 816	483	0.20	48 838	74.94	22 333	9.47	1 056	1.62
2019	22 992	480	0.20	49 173	75.41	22 512	9.54	1 048	1.61

**Note:** Data do not include Kinmen County and Lienchiang County before 1993.

**Source:** 1. Ministry of Health and Welfare

2. Ministry of the Interior

**Table 21. General situation of medical institutions and registered medical personnel (continued)**

Beds, Persons

End of Year	Beds			Registered medical personnel (1)	Medical personnel per 10,000 population	Physicians per 10,000 population (2)	Population served per physician (2)	Registered medical personnel per km <sup>2</sup>
		Beds per 10,000 population	Population served per bed					
1954	2 876	3.29	3 042	10 414	11.90	6.31	1 584	0.29
1971	23 984	15.99	625	18 227	12.16	5.23	1 912	0.51
1981	44 053	24.29	412	45 696	25.20	7.52	1 330	1.27
1991	92 785	45.14	222	96 921	47.15	11.49	870	2.69
2001	127 676	56.98	175	165 855	74.02	15.42	649	4.58
2010	158 922	68.61	146	241 156	104.12	19.10	524	6.66
2011	160 472	69.09	145	250 258	107.75	19.62	510	6.91
2012	160 900	69.01	145	258 283	110.78	20.02	500	7.14
2013	159 422	68.21	147	265 759	113.70	20.51	488	7.34
2014	161 491	68.91	145	271 555	115.88	20.96	477	7.50
2015	162 163	69.03	145	280 508	119.41	21.41	467	7.75
2016	163 148	69.31	144	289 174	122.84	21.79	459	7.99
2017	164 590	69.83	143	299 782	127.18	22.51	444	8.28
2018	167 521	71.02	141	312 887	132.64	23.04	434	8.64
2019	168 266	71.29	140	326 691	138.41	24.00	417	9.03

**Note:** (1) Data includes personnel in hospitals, clinics and other medical care institutions. From 2018, about the other medical care institutions, their definitions are adjusted and their scope of statistics is expanded.

(2) Including doctors of Chinese medicine

**Table 22. Number of registered medical personnel in hospitals, clinics and other medical care institutions**

Persons

End of Year	Total	Persons										
		Physicians	Doctors of Chinese medicine	Dentists	Pharmacists & assistant pharmacists	Medical technologists & technicians	Medical radiological technologists & technicians	Registered nurses & professional nurses	Midwives & registered professional midwives	Dental assistants	Dietitians	Physical therapists & therapy technicians, occupational therapists & therapy technicians
1954	10 414	3 978	1 545	709	989	-	-	1 265	1 742	186	-	-
1971	18 227	6 375	1 466	910	3 304	-	-	3 616	2 362	194	-	-
1981	45 696	11 957	1 682	2 128	12 955	728	-	13 196	2 871	179	-	-
1991	96 921	21 115	2 514	5 983	18 570	3 700	1 500	41 756	1 649	134	-	-
2001	165 855	30 562	3 979	8 944	24 891	6 542	3 152	82 763	518	68	778	3 658
2010	241 156	38 887	5 354	11 656	30 001	8 377	4 913	128 955	208	41	1 687	7 501
2011	250 258	40 002	5 570	11 992	31 300	8 579	5 133	133 336	134	40	1 824	8 104
2012	258 283	40 938	5 740	12 391	32 015	8 751	5 341	137 641	120	40	2 050	8 538
2013	265 759	41 965	5 977	12 794	32 668	9 006	5 507	140 915	132	40	2 234	9 009
2014	271 555	42 961	6 156	13 178	33 162	9 132	5 774	142 708	149	35	2 304	9 383
2015	280 508	44 006	6 298	13 502	33 516	9 261	5 952	148 223	150	34	2 392	9 887
2016	289 174	44 849	6 441	13 912	33 908	9 400	6 164	153 509	154	33	2 525	10 455
2017	299 782	46 356	6 692	14 380	34 526	9 561	6 416	159 621	164	33	2 631	11 008
2018	312 887	47 471	6 880	14 718	34 838	9 698	6 629	167 803	179	33	3 061	12 065
2019	326 691	49 542	7 096	15 128	35 316	9 940	6 840	172 966	200	31	3 237	12 906

**Note:** Data do not include Kinmen County and Lienchiang County before 1993.**Source:** Ministry of Health and Welfare

Table 23. Number of deaths and crude death rates by leading causes

Persons

Year and Sex	All causes of deaths		Leading causes of deaths								
			Malignant neoplasms		Cerebrovascular diseases		Diseases of heart (except hypertensive diseases)		Diabetes mellitus		Accidents & adverse effects
	No. of deaths	Crude death rates	No. of deaths	Crude death rates	No. of deaths	Crude death rates	No. of deaths	Crude death rates	No. of deaths	Crude death rates	No. of deaths
1952	76 053	950.8	2 459	30.7	3 902	48.8	3 922	49.0	-	-	-
1971	68 522	461.9	8 463	57.0	10 335	69.7	5 744	38.7	-	-	6 325
1981	86 204	479.7	13 764	76.6	14 202	79.0	7 706	42.9	1 613	9.0	11 616
1991	104 461	510.7	19 630	96.0	14 137	69.1	12 026	58.8	4 210	20.6	13 636
2001	126 667	567.0	32 993	147.7	13 141	58.8	11 003	49.2	9 113	40.8	9 513
2010	144 709	625.3	41 046	177.4	10 134	43.8	15 675	67.7	8 211	35.5	6 669
2011	152 030	655.5	42 559	183.5	10 823	46.7	16 513	71.2	9 081	39.2	6 726
2012	153 823	661.0	43 665	187.6	11 061	47.5	17 121	73.6	9 281	39.9	6 873
2013	154 374	661.3	44 791	191.9	11 313	48.5	17 694	75.8	9 438	40.4	6 619
2014	162 886	696.0	46 093	196.9	11 733	50.1	19 399	82.9	9 846	42.1	7 118
2015	163 574	697.2	46 829	199.6	11 169	47.6	19 202	81.8	9 530	40.6	7 033
2016	172 418	733.2	47 760	203.1	11 846	50.4	20 812	88.5	9 960	42.4	7 206
2017	171 857	729.6	48 037	203.9	11 755	49.9	20 644	87.6	9 845	41.8	6 965
2018	172 859	733.1	48 784	206.9	11 520	48.9	21 569	91.5	9 374	39.8	6 846
2019	175 424	743.4	50 232	212.9	12 176	51.6	19 859	84.2	9 996	42.4	6 640
By sex											
Male	103 004	879.7	30 543	260.8	7 009	59.9	11 375	97.1	5 044	43.1	4 701
Female	72 420	609.2	19 689	165.6	5 167	43.5	8 484	71.4	4 952	41.7	1 939

**Note:** 1. Data do not include Kinmen County and Lienchiang County before 1994.

2. Crude death rate is number of deaths per 100,000 population.

3. From 2008, the classification standards of leading causes of death are based on the tenth revision of the International Statistical Classification of Diseases and Related Health Problems (ICD) by the World Health Organization.

**Source:** Ministry of Health and Welfare

**Table 23. Number of deaths and crude death rates by leading causes (continued)**

Persons

Year and sex	Leading causes of deaths										
	Accidents & adverse effects	Chronic liver disease and cirrhosis		Pneumonia		Nephritis, nephrotic syndrome and nephrosis		Hypertensive diseases		Chronic lower respiratory diseases	
	Crude death rates	No. of deaths	Crude death rates	No. of deaths	Crude death rates	No. of deaths	Crude death rates	No. of deaths	Crude death rates	No. of deaths	Crude death rates
1952	-	621	7.8	10 516	131.5	2 904	36.3	-	-	-	-
1971	42.6	2 063	13.9	4 414	29.8	1 766	11.9	-	-	-	-
1981	64.6	3 075	17.1	2 833	15.8	2 329	13.0	3 146	17.5	-	-
1991	66.7	3 601	17.6	2 644	12.9	2 527	12.4	2 492	12.2	-	-
2001	42.6	5 239	23.5	3 746	16.8	4 056	18.2	1 766	7.9	-	-
2010	28.8	4 912	21.2	8 909	38.5	4 105	17.7	4 174	18.0	5 197	22.5
2011	29.0	5 153	22.2	9 047	39.0	4 368	18.8	4 631	20.0	5 984	25.8
2012	29.5	4 975	21.4	9 314	40.0	4 327	18.6	4 986	21.4	6 326	27.2
2013	28.4	4 843	20.7	9 042	38.7	4 489	19.2	5 033	21.6	5 959	25.5
2014	30.4	4 962	21.2	10 353	44.2	4 868	20.8	5 459	23.3	6 428	27.5
2015	30.0	4 688	20.0	10 761	45.9	4 762	20.3	5 536	23.6	6 383	27.2
2016	30.6	4 738	20.1	12 212	51.9	5 226	22.2	5 881	25.0	6 787	28.9
2017	29.6	4 554	19.3	12 480	53.0	5 381	22.8	6 072	25.8	6 260	26.6
2018	29.0	4 315	18.3	13 421	56.9	5 523	23.4	5 991	25.4	6 146	26.1
2019	28.1	4 240	18.0	15 185	64.4	5 049	21.4	6 255	26.5	6 301	26.7
By sex											
Male	40.1	3 011	25.7	8 935	76.3	2 583	22.1	3 104	26.5	4 546	38.8
Female	16.3	1 229	10.3	6 250	52.6	2 466	20.7	3 151	26.5	1 755	14.8



**Table 24. Number of confirmed cases of notifiable diseases**

Year	Persons								
	Tuberculosis	Invasive pneumococcal disease	Syphilis	HIV infection	AIDS	Complicated influenza	Gonorrhea	Amoebiasis	Shigellosis
1992	-	-	2 847	149	22	-	-	28	88
1996	-	-	3 172	311	162	-	121	7	256
2001	14 486	-	4 237	689	165	-	443	303	1 327
2006	15 378	-	5 808	2 938	579	25	1 437	125	139
2009	13 512	690	6 668	1 648	930	1 134	2 137	190	91
2010	13 393	737	6 482	1 796	1 087	882	2 265	262	172
2011	12 788	837	6 372	1 967	1 075	1 481	1 978	256	203
2012	12 478	749	5 896	2 224	1 280	1 595	1 983	258	155
2013	11 657	625	6 346	2 244	1 430	965	2 155	270	155
2014	11 438	587	6 986	2 236	1 387	1 721	2 622	300	132
2015	10 828	524	7 471	2 327	1 440	857	3 587	350	186
2016	10 440	592	8 725	2 396	1 412	2 084	4 469	314	225
2017	9 862	454	9 835	2 514	1 390	1 359	4 601	378	162
2018	9 299	459	9 808	1 992	1 091	1 196	4 209	334	172
2019	8 809	447	9 397	1 755	1 005	2 325	4 523	352	147

**Note:** Data do not include Kinmen County and Lienchiang County before 1993.

**Source:** Centers for Disease Control, Ministry of Health and Welfare

**Table 24. Number of confirmed cases of notifiable diseases (continued)**

Year	Persons								
	Acute hepatitis	Enteroviruses infection with severe complications	Scrub typhus	Dengue fever	Legionnaires' disease	Japanese encephalitis	Acute flaccid paralysis	Pertussis	Invasive haemophilus influenzae type b infection
1992	-	-	52	23	-	10	-	-	-
1996	560	-	156	53	44	21	83	15	-
2001	769	393	235	270	40	33	101	6	49
2006	613	11	384	1 074	56	29	66	14	16
2009	545	29	353	1 052	84	18	45	90	14
2010	344	16	402	1 896	102	33	49	61	12
2011	323	59	322	1 702	97	22	45	77	9
2012	249	153	460	1 478	88	32	51	54	3
2013	260	12	538	860	115	16	25	51	10
2014	453	6	414	15 732	135	18	29	78	4
2015	525	6	494	43 784	153	30	19	70	3
2016	1 476	33	488	743	114	23	41	17	14
2017	858	24	422	343	188	25	61	34	6
2018	751	36	386	533	211	37	66	30	5
2019	851	69	449	640	281	21	64	32	3

Table 25. Daily nutrient consumption per capita

Year	Energy (1) (Calories)	Protein (Grams)	Fat (Grams)	Carbohydrate (Grams)	Calcium (Milligrams)	Phosphorus (Milligrams)
1984	2 592.9	78.8	80.8	379.1	441.2	1 190.6
1991	2 925.3	91.6	114.3	372.9	580.8	1 301.0
1996	3 047.1	98.3	126.6	366.9	640.2	1 355.8
2001	2 867.3	92.0	117.0	350.0	571.9	1 230.4
2006	2 730.1	80.7	114.2	337.5	483.6	1 077.7
2009	2 652.8	77.6	107.5	335.4	459.7	1 022.3
2010	2 661.3	78.3	110.7	329.0	446.4	1 023.2
2011	2 655.7	80.6	107.6	331.2	463.9	1 045.6
2012	2 715.8	80.5	111.2	337.8	457.6	1 040.6
2013	2 635.7	78.8	103.7	336.9	457.1	1 029.1
2014	2 750.6	80.7	113.4	342.0	466.3	1 054.1
2015	2 806.8	84.8	115.3	347.6	509.1	1 105.2
2016	2 768.2	83.4	114.0	341.7	520.1	1 096.5
2017	2 838.5	85.5	117.1	350.7	541.4	1 134.5
2018	2 857.0	87.6	118.9	349.4	531.2	1 146.1
Year	Iron (Milligrams)	Vitamin A (International unit)	Thiamine (Milligrams)	Riboflavin (Milligrams)	Niacin (Milligrams)	Ascorbic acid (Milligrams)
1984	11.0	7 460.1	1.4	1.1	15.8	134.2
1991	12.9	6 989.6	1.6	1.4	15.6	137.7
1996	14.2	7 845.0	1.6	1.5	16.6	142.5
2001	12.4	7 193.4	1.5	1.5	15.9	146.8
2006	10.8	8 996.1	1.4	1.4	14.9	151.3
2009	10.4	8 760.4	1.3	1.3	14.3	135.4
2010	10.4	8 548.8	1.3	1.3	14.7	141.7
2011	10.7	8 876.8	1.3	1.3	14.9	144.9
2012	10.8	9 260.1	1.3	1.3	14.8	138.2
2013	10.6	9 386.7	1.3	1.3	14.4	138.0
2014	10.8	9 771.4	1.3	1.3	14.9	138.5
2015	11.4	9 818.2	1.4	1.3	14.7	134.1
2016	11.7	10 150.9	1.4	1.3	14.5	132.2
2017	12.3	10 436.9	1.4	1.4	14.8	142.7
2018	11.7	10 390.5	1.4	1.4	15.6	144.3

Note: (1)Including wine & beer

Source: Council of Agriculture, Executive Yuan



# ENVIRONMENT

Table 26. Emissions of greenhouse gases

10<sup>3</sup>M.T. CO<sub>2</sub> equivalent

Year	Total	Carbon dioxide (CO <sub>2</sub> )	Per capita (M. T. / persons)	Methane (CH <sub>4</sub> )	Nitrous oxide (N <sub>2</sub> O)	Hydro fluoro-carbons (HFC <sub>s</sub> )	Perfluoro-carbons (PFC <sub>s</sub> )	Sulphur hexafluoride (SF <sub>6</sub> )	Nitrogen trifluoride (NF <sub>3</sub> )
1990	138 119	124 066	6.12	11 158	2 895	-	-	-	-
1991	148 128	133 586	6.52	11 394	3 148	-	-	-	-
1996	195 196	176 779	8.24	13 700	3 412	1 305	-	-	-
2001	252 671	229 927	10.29	12 348	3 857	2 619	2 939	746	235
2006	296 905	274 281	12.02	9 458	4 675	987	3 264	3 590	650
2008	282 883	264 738	11.51	8 267	4 340	1 046	1 682	2 644	166
2009	267 625	250 632	10.86	7 650	4 506	980	1 143	2 176	538
2010	284 915	268 436	11.60	7 120	4 910	934	1 354	1 942	219
2011	290 891	274 933	11.85	6 743	4 811	1 016	1 365	1 642	381
2012	285 716	271 048	11.65	6 421	4 727	869	725	1 577	349
2013	286 928	271 984	11.65	6 046	4 532	981	929	1 722	734
2014	290 904	276 302	11.81	5 853	4 518	1 010	1 139	1 455	627
2015	289 733	275 825	11.76	5 637	4 488	982	931	1 247	623
2016	293 468	279 530	11.89	5 629	4 695	991	1 045	1 138	440
2017	298 659	284 803	12.09	5 529	4 892	984	980	1 079	392

Source: Environmental Protection Administration, Executive Yuan

Table 27. Carbon dioxide emissions

10<sup>3</sup>M.T.

Year	Total	Energy use (fuel combustion only) by sectors							Industrial process and product use sector	Agricultural sector	Incineration of waste sector
		Subtotal	Energy	Industrial	Transportation	Agricultural	Services	Residential			
1990	124 066	109 459	49 123	30 117	19 646	2 946	3 621	4 005	14 445	142	20
1991	133 586	118 436	55 126	31 956	20 888	2 700	3 529	4 238	14 996	146	8
1996	176 779	158 572	81 254	36 785	29 801	2 805	3 175	4 754	17 669	151	387
2001	229 927	213 107	126 142	42 545	33 246	2 455	3 538	5 181	16 186	94	540
2006	274 281	253 643	161 926	43 994	36 771	1 647	4 272	5 033	20 109	60	470
2008	264 738	245 824	162 724	39 098	33 216	1 543	4 226	5 017	18 414	57	443
2009	250 632	234 103	153 406	36 693	33 541	1 169	4 264	5 030	16 319	56	154
2010	268 436	250 147	163 969	41 353	34 652	1 113	4 204	4 857	18 027	54	208
2011	274 933	255 878	168 674	42 289	35 107	1 123	3 898	4 786	18 853	53	149
2012	271 048	251 687	166 846	40 991	34 284	1 259	3 635	4 672	19 157	55	149
2013	271 984	252 434	166 645	42 009	34 209	1 274	3 812	4 484	19 351	45	153
2014	276 302	258 472	175 180	38 944	34 667	1 343	3 928	4 411	17 644	40	146
2015	275 825	258 467	175 198	38 065	35 506	1 287	3 941	4 469	17 219	38	103
2016	279 530	262 806	178 402	38 287	36 585	1 276	3 720	4 537	16 557	34	132
2017	284 803	269 452	187 135	36 731	36 202	1 203	3 779	4 402	15 199	31	120

Source: 1. Environmental Protection Administration, Executive Yuan

2. Bureau of Energy, Ministry of Economic Affairs

Table 28. Air quality index

Year	Measurement days (Station day)						Percentage of measurement days (%)			
	Total	Good 0-50	Moderate 51-100	Unhealthy 101-199	Very unhealthy 200-299	Hazardous >=300	Good 0-50	Good 51-100	Unhealthy 101-199	Very unhealthy 200-299
1984	2 421	438	1 585	132	232	34	-	18.09	18.09	9.58
1991	6 907	1 131	4 654	1 087	33	2	16.37	67.38	15.74	0.48
1996	20 692	8 209	11 123	1 351	9	-	39.67	53.76	6.53	0.04
2001	20 699	8 985	11 011	703	-	-	43.41	53.20	3.40	-
2006	20 760	8 578	11 319	863	-	-	41.32	54.52	4.16	-
2010	20 771	9 059	11 262	380	14	56	43.61	54.22	1.83	0.07
2011	20 721	9 208	11 228	285	-	-	44.44	54.19	1.38	-
2012	21 788	10 474	11 105	208	1	-	48.07	50.97	0.95	0.00
2013	21 758	9 493	11 933	332	-	-	43.63	54.84	1.53	-
2014	21 884	9 838	11 758	288	-	-	44.96	53.73	1.32	-
2015	21 869	11 298	10 441	130	-	-	51.66	47.74	0.59	-
2016	21 935	12 312	9 458	165	-	-	56.13	43.12	0.75	-

  

Year	Measurement days (Station day)							Percentage of measurement days (%)			
	Total	Good 0-50	Moderate 51-100	Unhealthy for Sensitive Groups 101-150	Unhealthy 151-200	Very Unhealthy 201-300	Hazardous 301-500	Good 0-50	Moderate 51-100	Unhealthy for Sensitive Groups 101-150	Unhealthy 151-200
2017	21 876	8 690	9 231	3 334	610	11	-	39.72	42.20	15.24	2.79
2018	21 885	9 299	9 083	2 955	540	8	-	42.49	41.50	13.50	2.47
2019	21 775	10 423	8 543	2 423	383	3	-	47.87	39.23	11.13	1.76

**Note:** 1. The data are edited according to the auto-monitoring stations of general air quality monitoring stations; general air quality monitoring stations are 55 stations from 1994, 57 stations from 1996 and 60 stations from 2012.

2. The data are "Pollutant standards index" (PSI) before 2017.

**Source:** Environmental Protection Administration, Executive Yuan



**Table 28. Air quality index (continued)**

Year	% of measurement days (%)		Measurement days with PSI>100 by maximum index pollutant (Station day)								
	Hazardous >=300		Total	Percentage (%)	PM <sub>10</sub>	SO <sub>2</sub>	PM <sub>10</sub> × SO <sub>2</sub>	CO	O <sub>3</sub>	NO <sub>2</sub>	
1984	1.40		398	16.44	296	12	1	75	13	1	
1991	0.03		1 122	16.24	901	37	-	146	37	1	
1996	-		1 360	6.57	829	-	-	-	531	-	
2001	-		703	3.40	259	-	-	-	444	-	
2006	-		863	4.16	352	-	-	-	511	-	
2010	0.27		450	2.17	239	-	-	-	211	-	
2011	-		285	1.38	88	-	-	-	197	-	
2012	-		209	0.96	29	-	-	-	180	-	
2013	-		332	1.53	177	-	-	-	155	-	
2014	-		288	1.32	102	-	-	-	186	-	
2015	-		130	0.59	22	-	-	-	108	-	
2016	-		165	0.75	12	-	-	-	153	-	
Year	% of measurement days (%)		Measurement days with AQI>100 by maximum index pollutant (Station day)								
	Very Unhealthy 201-300	Hazardous 301-500	Total	Percentage (%)	O <sub>3</sub> (Maximum 8 hours average)	O <sub>3</sub> (Maximum hourly value)	PM <sub>2.5</sub>	PM <sub>10</sub>	CO	SO <sub>2</sub>	NO <sub>2</sub>
2017	0.05	-	3 955	18.08	1 563	3	2 355	34	-	-	-
2018	0.04	-	3 503	16.01	1 733	-	1 744	24	-	2	-
2019	0.01	-	2 809	12.90	1 687	1	1 118	3	-	-	-



# **JUSTICE AND PUBLIC SAFETY**

Table 29. Summary of filings and dispositions of cases in the Judicial Yuan &amp; its subordinate organs

Cases, Days

Year	Total		Judicial Yuan					
			Interpretation of Justices of the Constitutional Court		Private citizen petition cases		Criminal compensation, judicial evaluation and court of the judiciary	
	Lodged	Closed	Lodged	Closed	Lodged	Closed	Lodged	Closed
1981	1 290 506	1 227 127	118	100	3 735	3 667	-	-
1991	1 853 737	1 745 311	350	297	4 297	4 248	-	-
1996	2 801 156	2 520 678	430	292	3 587	3 453	-	-
2001	3 234 339	2 975 331	327	214	4 686	4 552	-	-
2006	3 429 938	3 219 003	500	351	5 207	5 141	-	-
2010	3 128 642	2 943 204	787	561	7 548	7 399	364	315
2011	3 113 674	2 934 477	793	498	7 395	7 304	208	177
2012	3 269 441	3 076 302	913	570	7 469	7 417	233	183
2013	3 237 403	3 048 510	896	544	6 244	6 166	202	164
2014	3 262 920	3 054 915	840	522	8 046	7 951	142	108
2015	3 244 012	3 027 555	745	385	9 417	9 321	129	99
2016	3 350 851	3 118 330	827	452	7 373	7 207	101	77
2017	3 353 339	3 106 723	872	356	8 011	7 865	89	70
2018	3 388 144	3 132 630	1 008	371	7 616	7 498	115	82
2019	3 528 510	3 258 677	1 264	645	8 118	7 985	146	107
Year	Supreme Administrative Court				High Administrative Courts			
	Administrative litigation cases				Administrative litigation cases			
	Lodged	Closed	Average no. of days to close a case	Average no. of cases closed by each justice per month	Lodged	Closed	Average no. of days to close a case	Average no. of cases closed by each justice per month
1981	2 764	2 134	127.81	15.46	-	-	-	-
1991	4 282	3 774	57.76	20.40	-	-	-	-
1996	6 388	5 311	79.05	23.60	-	-	-	-
2001	8 199	3 845	505.15	24.92	45 673	39 274	132.94	115.92
2006	11 438	5 237	377.54	23.33	14 582	9 824	228.28	22.98
2010	7 878	5 268	244.54	22.61	8 892	6 909	135.71	17.13
2011	6 466	5 603	206.05	19.35	8 514	6 385	138.51	16.58
2012	4 858	4 356	80.22	15.45	7 697	6 065	144.73	14.39
2013	3 564	3 071	71.74	11.45	6 493	4 700	155.74	10.77
2014	3 793	3 055	69.06	11.96	7 098	5 158	152.50	12.04
2015	4 492	3 797	72.34	15.61	7 473	5 280	156.73	11.81
2016	4 503	3 123	92.46	15.16	7 910	5 657	164.82	12.71
2017	5 124	3 871	115.46	21.11	7 704	5 340	170.93	11.81
2018	5 861	4 356	127.97	23.29	8 397	5 459	181.69	11.80
2019	6 139	3 597	171.56	20.39	10 460	6 483	193.85	14.17

Source: Judicial Yuan

**Table 29. Summary of filings and dispositions of cases in the Judicial Yuan & its subordinate organs (continued)**

Cases, Days

Year	Public Functionary Disciplinary Sanction Commission				Intellectual Property Court					
	Trial cases				Civil cases				Criminal cases	
	Lodged	Closed	Average no. of days to close a case	Average no. of cases closed by each commissioner per month	Lodged	Closed	Average no. of days to close a case	Average no. of cases closed by each justice per month	Lodged	Closed
1981	84	70	64.69	5.83	-	-	-	-	-	-
1991	288	248	39.04	20.67	-	-	-	-	-	-
1996	577	512	52.13	42.67	-	-	-	-	-	-
2001	477	415	57.66	34.58	-	-	-	-	-	-
2006	608	542	51.62	45.17	-	-	-	-	-	-
2010	721	665	36.07	55.42	1,316	981	167.45	19.49	450	346
2011	743	681	34.26	56.75	1,032	758	214.39	13.86	457	374
2012	708	662	34.84	55.17	1 063	763	216.19	10.97	416	344
2013	720	665	33.05	55.42	1 030	698	225.07	14.08	375	307
2014	707	661	29.91	55.08	1 047	703	226.65	12.46	354	281
2015	1 456	1 297	25.89	108.08	1 004	690	267.68	11.82	327	254
2016	683	639	28.89	53.25	919	652	243.21	11.07	343	261
2017	291	241	55.78	20.08	938	637	228.35	10.30	320	237
2018	302	239	63.54	19.92	1 117	817	214.50	12.56	317	245
2019	261	183	115.84	15.25	1 169	874	194.72	11.45	357	255
Year	Intellectual Property Court						Supreme Court			
	Criminal cases		Administrative litigation cases				Civil cases			
	Average no. of days to close a case	Average no. of cases closed by each justice per month	Lodged	Closed	Average no. of days to close a case	Average no. of cases closed by each justice per month	Lodged	Closed	Average no. of days to close a case	Average no. of cases closed by each justice per month
1981	-	-	-	-	-	-	6 980	6 028	-	-
1991	-	-	-	-	-	-	4 882	4 495	22.38	22.25
1996	-	-	-	-	-	-	7 338	4 962	61.96	18.73
2001	-	-	-	-	-	-	7 011	4 279	46.27	17.05
2006	-	-	-	-	-	-	6 216	5 098	35.32	19.36
2010	113.21	18.62	614	443	140.35	18.90	6 074	5 167	24.02	21.17
2011	110.39	13.80	510	402	146.72	13.59	6 174	5 056	24.84	23.11
2012	83.52	10.55	454	308	141.31	10.77	6 871	5 205	26.07	22.62
2013	97.64	7.10	471	345	150.01	7.01	7 400	5 600	31.78	20.33
2014	102.06	6.17	420	288	157.52	6.27	7 642	5 987	39.69	19.25
2015	125.10	6.00	445	288	185.50	6.00	7 915	5 763	45.08	20.32
2016	116.12	5.70	435	284	194.08	5.70	8 772	5 470	39.37	20.09
2017	131.43	6.82	450	262	218.25	4.49	9 559	6 089	39.91	21.29
2018	149.65	7.21	432	310	228.46	5.56	9 411	5 335	42.51	17.86
2019	142.43	5.65	385	263	190.87	4.46	10 676	5 916	43.10	18.76

**Table 29. Summary of filings and dispositions of cases in the Judicial Yuan & its subordinate organs (continued)**

Cases, Days

Year	Supreme Court				High Courts and their branches				
	Criminal cases				Civil cases				Criminal cases
	Lodged	Closed	Average no. of days to close a case	Average no. of cases closed by each justice per month	Lodged	Closed	Average no. of days to close a case	Average no. of cases closed by each justice per month	Lodged
1981	9 842	8 457	-	-	19 764	16 805	84.01	-	54 312
1991	8 310	7 915	15.28	19.50	15 631	12 927	98.08	17.03	63 695
1996	11 316	7 803	26.98	20.18	23 185	18 152	108.74	18.60	55 136
2001	16 928	9 516	38.52	19.25	27 629	21 031	130.31	18.89	51 467
2006	13 547	8 654	34.68	18.78	19 491	14 152	161.86	12.95	44 508
2010	13 057	10 061	25.17	20.53	20 737	14 788	150.67	12.55	46 782
2011	11 304	9 110	27.07	19.78	21 826	15 481	160.67	12.30	45 524
2012	9 726	8 608	28.95	17.22	22 736	16 311	172.45	12.04	43 148
2013	7 997	7 172	32.06	14.64	22 667	15 594	169.45	11.40	39 662
2014	7 093	6 229	28.63	13.80	25 145	17 195	174.95	11.97	37 789
2015	6 689	5 577	30.75	13.60	27 293	19 240	186.72	12.78	36 539
2016	6 640	4 975	30.96	13.37	26 843	19 023	187.96	12.19	36 472
2017	7 504	5 431	29.16	14.21	25 988	18 162	185.08	11.56	38 553
2018	8 657	6 688	28.08	16.77	26 842	19 102	189.88	12.30	41 556
2019	9 678	6 637	29.93	16.90	27 956	19 705	187.07	12.32	44 111
Year	High Courts and their branches					District Courts			
	Criminal cases			Public defense cases		Civil cases (1)			
	Closed	Average no. of days to close a case	Average no. of cases closed by each justice per month	Lodged	Closed	Lodged	Closed	Average no. of days to close a case	Average no. of cases closed by each justice per month
1981	50 015	51.65	-	2 174	2 008	208 075	204 152	32.98	-
1991	59 273	53.39	45.70	3 744	3 366	391 880	382 503	41.93	185.47
1996	48 412	70.61	33.59	6 274	5 539	823 165	801 264	53.95	294.71
2001	44 540	84.40	28.12	4 700	3 941	1 906 314	1 725 693	111.12	340.42
2006	37 876	83.90	25.38	6 830	5 189	2 649 650	2 502 737	56.09	378.10
2010	41 545	68.10	23.60	5 384	4 313	2 370 999	2 246 271	41.77	84.40
2011	40 452	68.92	21.85	4 882	3 933	2 374 933	2 256 792	33.83	71.89
2012	38 384	73.58	20.56	4 446	3 489	2 543 963	2 414 450	31.51	73.04
2013	35 192	78.53	18.40	4 641	3 714	2 530 089	2 405 047	31.07	70.43
2014	33 526	82.24	17.56	4 503	3 536	2 530 852	2 392 584	30.46	67.25
2015	32 355	74.19	17.75	4 069	3 206	2 465 361	2 325 681	32.59	65.65
2016	31 887	75.42	17.97	3 526	2 747	2 552 684	2 405 796	31.35	66.05
2017	33 355	80.92	18.81	3 621	2 759	2 545 111	2 389 013	33.13	67.91
2018	35 704	83.32	19.66	3 969	3 075	2 588 801	2 425 617	34.41	68.29
2019	38 059	88.08	20.68	4 044	3 247	2 733 791	2 562 005	34.25	71.48

**Note:** (1) Excluding the compulsory execution cases before 1997

**Table 29. Summary of filings and dispositions of cases in the Judicial Yuan & its subordinate organs (continued)**

Cases, Days

Year	District Courts								
	Criminal cases				Compulsory execution cases		Financial rulings		Financial compulsory execution cases
	Lodged	Closed	Average no. of days to close a case	Average no. of cases closed by each justice per month	Lodged	Closed	Lodged	Closed	Lodged
1981	214 079	205 969	28.96	-	73 969	68 291	51 938	51 602	437 023
1991	241 034	223 832	51.44	83.45	115 923	107 659	80 442	79 929	488 150
1996	298 672	269 648	66.96	63.97	220 597	183 890	836	832	639 911
2001	372 350	328 747	94.84	65.25	452 344	327 238	414	390	281 389
2006	377 951	343 635	66.90	63.47	748 253	669 416	-	-	-
2010	477 261	437 693	57.86	66.97	1 208 541	1 139 161	-	-	-
2011	483 053	441 075	59.61	64.45	1 280 133	1 219 188	-	-	-
2012	476 036	431 196	62.42	60.45	1 361 697	1 299 043	-	-	-
2013	456 686	412 273	64.11	56.14	1 369 452	1 311 609	-	-	-
2014	479 193	429 826	62.56	56.96	1 397 338	1 330 652	-	-	-
2015	514 896	460 261	66.52	60.35	1 362 760	1 299 123	-	-	-
2016	527 386	466 444	71.72	60.87	1 428 321	1 364 218	-	-	-
2017	543 059	478 703	77.53	63.15	1 389 353	1 321 438	-	-	-
2018	541 839	477 624	80.89	63.04	1 387 300	1 318 649	-	-	-
2019	526 174	461 041	83.76	60.36	1 453 501	1 382 211	-	-	-
Year	District Courts								
	Financial compulsory execution cases	Notarization		Lodgment		Public defense		Investigation and probation cases (Persons)	
	Closed	Lodged	Closed	Lodged	Closed	Lodged	Closed	Lodged	Closed
1981	402 300	163 284	163 281	40 610	40 610	1 755	1 638	39 059	23 757
1991	425 252	347 747	347 746	74 936	74 927	8 146	6 920	65 077	44 132
1996	466 141	623 967	623 967	86 051	86 039	15 410	11 495	83 424	59 045
2001	281 389	400 824	400 824	110 651	110 622	11 475	6 869	60 949	39 195
2006	-	156 582	156 157	129 658	129 599	17 407	11 658	42 247	28 797
2010	-	107 949	107 682	57 213	57 110	15 318	10 838	46 026	30 581
2011	-	99 197	98 956	45 545	45 373	17 634	12 906	52 448	35 286
2012	-	95 896	95 749	45 099	44 793	18 325	14 119	58 587	39 589
2013	-	99 249	99 085	47 019	46 876	18 650	13 738	58 721	39 125
2014	-	95 569	95 424	50 328	50 210	18 169	12 986	54 220	34 932
2015	-	95 226	95 118	49 725	49 483	17 935	12 280	52 263	33 842
2016	-	93 430	93 311	57 100	56 999	18 614	12 577	49 320	31 951
2017	-	90 566	90 478	48 081	47 913	19 978	14 348	48 582	31 225
2018	-	84 180	84 073	40 687	40 514	20 114	14 793	46 827	29 951
2019	-	83 612	83 556	40 321	40 160	18 880	13 547	46 922	30 728

Table 30. Fire fighting

Year	The equipment of fire fighting (1)						Inspection of fire safety (3)		Fires accidents
	No. of firemen (2) (Persons)	No. of firemen per 10,000 population (Persons)	No. of fire engines (Vehicles)	No. of fire engines per 10,000 population (Vehicles)	Hydrant (Sets)	No. of hydrant per 1,000 household (Sets)	Cases (Cases)	Qualified rate (%)	No. of fires (Times) (4)
1981	17 501	9.7	1 060	0.58	32 356	8.28	-	-	9 260
1991	22 065	10.7	1 425	0.69	62 061	11.87	-	-	7 742
1996	26 487	12.3	1 734	0.81	81 073	13.46	602 077	94.0	13 309
2001	34 679	15.5	1 956	0.87	102 254	15.03	347 355	93.1	13 750
2006	41 074	18.0	2 110	0.92	121 146	16.38	287 416	90.5	4 332
2010	46 179	19.9	2 173	0.94	134 708	16.97	302 257	88.8	2 186
2011	45 366	19.5	2 191	0.94	137 661	17.08	327 519	85.4	1 772
2012	46 618	20.0	2 307	0.99	140 061	17.11	317 605	86.1	1 574
2013	48 302	20.7	2 336	1.00	141 384	17.06	335 436	86.9	1 451
2014	48 958	20.9	2 374	1.01	149 283	17.81	325 367	86.0	1 417
2015	50 556	21.5	2 382	1.01	151 158	17.85	317 309	85.3	1 704
2016	52 186	22.2	2 448	1.03	154 798	18.08	294 264	85.6	1 856
2017	55 572	23.6	2 532	1.08	159 302	18.42	212 532	87.1	30 464
2018	58 321	24.7	2 535	1.07	160 100	18.33	290 527	88.3	27 922
2019	59 173	25.1	2 561	1.09	165 238	18.71	313 887	86.5	22 866

**Note:** In the table, the data excluding inspection of fire safety do not include Kinmen County and Lienchiang County before 1997.

(1) The data is end of year.

(2) Including voluntary fire fighters

(3) It was executed after implementing "Maintaining Public Safety Projects" in June, 1993.

(4) According to the new system of fire statistics in 2017, the range of fire statistics was enlarged.

**Source:** National Fire Agency, MOI



**Table 30. Fire fighting (continued)**

Year	Fire accidents							Emergency medical services (119 services)	
	Average no. of fires a day (Times)	Deaths and injured (Persons)			Burn-out & damaged vehicles (Vehicles)	Burn-out & damaged houses (Houses)	Estimated losses (Millions NT\$)	Times of call volume (Times)	No. of persons rescued in emergency (Person-times)
		Total	Deaths	Injured					
1981	25.37	427	157	270	-	1 777	1 773	-	-
1991	21.21	874	250	624	-	1 680	3 002	164 070	116 430
1996	36.36	1 057	275	782	-	2 020	2 815	277 830	200 877
2001	37.67	1 040	234	806	3 583	2 844	15 563	464 941	343 076
2006	11.87	596	125	471	1 458	1 489	1 559	691 964	537 707
2010	5.99	391	83	308	729	1 278	1 688	918 882	749 126
2011	4.85	385	97	288	567	1 029	553	1 003 981	817 927
2012	4.30	428	142	286	614	907	694	1 014 909	826 076
2013	3.98	281	92	189	627	1 204	533	1 016 637	826 839
2014	3.88	368	124	244	658	1 263	436	1 078 727	878 849
2015	4.67	850	117	733	802	1 477	531	1 100 264	891 562
2016	5.07	430	169	261	836	1 568	459	1 117 523	906 603
2017	83.46	480	178	302	2 060	5 614	691	1 100 323	891 508
2018	76.50	463	173	290	1 920	5 302	596	1 101 350	897 081
2019	62.65	628	150	478	1 796	4 339	1 442	1 118 439	905 951

Table 31. All kinds of illegal cases and the number of offenders

Year	Criminal cases (1)						Violent crime			Larceny (1)		
	Cases known to the police (Cases)	Cases cleared (Cases)	Offenders (Persons)	Crime rate (Cases/100,000 pop.)	Clearance rate (%)	Offender rate (Persons/100,000 pop.)	Cases known to the police (Cases)	Cases cleared (Cases)	Offenders (Persons)	Cases known to the police (Cases)	Cases cleared (Cases)	Offenders (Persons)
1946	20 977	14 437	18 081	-	68.8	-	-	-	-	9 654	7 146	8 326
1971	36 013	30 401	30 927	242.8	84.4	208.5	-	-	-	19 614	14 101	11 735
1981	51 292	43 240	43 612	285.4	84.3	242.7	3 557	3 071	4 103	28 918	21 574	17 774
1991	304 141	191 492	145 442	1 486.9	63.0	711.0	8 683	7 864	9 435	225 976	114 401	31 631
2001	490 736	271 128	180 527	2 196.6	55.3	808.1	14 327	8 584	9 595	338 063	154 811	40 178
2010	371 934	296 500	269 340	1 607.3	79.7	1 163.9	5 312	4 684	5 365	142 774	92 076	37 554
2011	347 674	276 371	260 356	1 499.0	79.5	1 122.5	4 190	3 943	4 929	116 831	77 627	36 278
2012	317 356	266 512	262 058	1 363.8	84.0	1 126.1	3 461	3 355	4 527	100 264	70 369	37 059
2013	298 967	258 802	255 310	1 280.7	86.6	1 093.7	2 525	2 456	3 052	82 496	60 436	33 468
2014	306 300	263 515	261 603	1 308.8	86.0	1 117.8	2 289	2 234	2 825	76 330	59 223	34 574
2015	297 800	273 567	269 296	1 269.2	91.9	1 147.8	1 956	2 008	2 522	66 255	55 055	33 913
2016	294 831	274 091	272 817	1 253.8	93.0	1 160.1	1 627	1 656	2 208	57 606	48 898	31 543
2017	293 453	277 506	287 294	1 245.8	94.6	1 219.7	1 260	1 293	1 910	52 025	46 022	32 204
2018	284 538	270 882	291 621	1 206.7	95.2	1 236.7	993	995	1 666	47 591	43 262	32 028
2019	268 349	258 706	277 664	1 137.3	96.4	1 176.7	859	898	1 464	42 272	40 406	31 398

**Note:** Data do not include Kinmen County and Lienchiang County before 1996.

(1) It doesn't include motorcycle theft before 1985.

**Source:** National Police Agency, MOI

**Table 31. All kinds of illegal cases and the number of offenders (continued)**

Year	Automobile theft (Cases)		Fraudulent, breach of trust (Cases)		Homicide (Cases)		Robbery, snatch and grab (Cases)		Category one narcotics (Cases, persons)		Category two narcotics (Cases, persons)	
	Cases known to the police	Cases cleared	Cases known to the police	Cases cleared	Cases known to the police	Cases cleared	Cases known to the police	Cases cleared	Cases known to the police	Offenders	Cases known to the police	Offenders
1946	9 654	7 146	1 876	1 032	36	36	15	14	21	25	-	-
1971	19 614	14 101	1 530	1 522	1 658	1 623	450	415	617	799	-	-
1981	4 647	2 355	1 204	1 168	1 267	1 186	1 274	960	98	136	2 798	4 400
1991	28 975	11 777	1 036	978	1 854	1 733	3 385	2 794	2 467	3 549	14	21
2001	51 377	33 709	16 082	2 665	1 201	1 089	10 959	5 527	11 902	15 390	14 275	18 590
2010	17 106	11 269	28 900	25 123	836	833	2 557	2 026	19 504	20 238	27 694	29 334
2011	11 385	8 062	24 076	18 195	804	795	1 661	1 433	17 435	18 361	26 968	28 550
2012	8 577	6 414	20 936	16 399	744	743	1 275	1 207	15 661	16 488	26 021	27 682
2013	6 535	4 878	19 534	13 447	551	551	1 001	947	12 675	13 320	24 687	26 555
2014	6 363	5 016	23 813	15 751	561	559	835	805	11 495	12 129	24 625	26 337
2015	5 638	4 721	21 825	18 520	522	518	740	756	13 355	14 449	33 463	35 785
2016	4 500	3 822	23 994	20 565	465	459	643	668	13 991	14 970	39 097	41 642
2017	3 086	2 729	23 623	21 667	451	446	523	554	13 905	14 905	42 501	45 334
2018	2 235	2 161	24 585	22 697	379	374	399	412	14 278	15 261	39 388	41 631
2019	1 456	1 377	24 642	22 883	378	388	329	338	12 791	13 132	32 353	33 713

Table 31. All kinds of illegal cases and the number of offenders (continued)

Year	Child offenders		Juvenile offenders		Violation of copyright law		Violation of the trademark law		Violation of the law for maintaining social order (Cases)	Disturbance of the peace	Violation of moral order
	Offenders (Persons)	Offender rate (Persons/100,000 pop.)	Offenders (Persons)	Offender rate (Persons/100,000 pop.)	No. of cases (Cases)	Offenders (Persons)	No. of cases (Cases)	Offenders (Persons)			
1946	-	-	-	-	-	-	-	-	9 269	1 753	3 342
1971	-	-	-	-	-	-	-	-	122 896	49 225	39 142
1981	913	19.9	11 038	472.5	1	1	124	128	87 916	46 939	35 421
1991	1 351	31.6	25 472	1 106.8	1 782	1 604	274	267	21 676	16 230	5 367
2001	533	14.3	16 939	849.0	4 264	4 961	637	811	8 545	3 398	5 103
2010	472	17.1	11 102	581.1	2 003	2 269	2 833	3 123	7 325	3 552	3 639
2011	537	20.1	13 103	703.5	2 185	2 550	3 306	3 603	6 382	3 458	2 792
2012	623	24.0	15 078	822.7	2 043	2 379	3 133	3 439	7 476	3 798	3 532
2013	609	24.1	12 038	672.1	2 201	2 266	3 352	3 699	7 329	3 085	4 119
2014	579	23.3	10 969	637.9	2 066	2 251	2 764	2 886	6 324	2 591	3 581
2015	478	19.4	11 002	673.3	2 128	2 364	2 755	2 863	5 237	1 155	3 861
2016	440	17.9	9 775	625.8	2 371	2 438	2 610	2 712	4 841	926	3 440
2017	448	18.3	10 499	699.8	2 616	2 652	2 087	2 182	4 919	959	3 186
2018	383	15.8	8 893	629.2	2 776	2 806	1 808	1 849	5 375	1 097	3 065
2019	430	17.9	9 441	705.5	2 134	2 126	2 031	2 219	7 149	1 564	3 173

# **SOCIAL WELFARE**

Table 32. Net expenditure for social welfare

Fiscal Year	Net expenditures for social welfare by general government (Thousand NT\$)			
	Total	Social insurance	Social relief	Welfare service
1966	1 123 853	-	-	-
1971	5 682 995	-	-	-
1981	16 549 485	-	-	-
1991	117 771 908	33 378 237	13 581 114	46 373 817
2001	396 980 708	201 574 123	39 016 143	126 861 977
2010	415 356 194	203 081 916	30 835 106	138 618 928
2011	446 921 628	225 292 952	31 161 163	147 751 355
2012	540 440 045	303 471 755	36 627 757	162 095 606
2013	536 911 718	321 010 987	36 177 655	140 920 087
2014	517 142 825	294 119 857	22 018 031	161 606 551
2015	532 095 640	310 802 728	21 060 639	160 343 862
2016	548 538 121	327 253 815	20 990 292	160 176 950
2017	563 844 224	340 900 812	20 083 106	160 965 344
2018	588 093 209	366 352 453	19 801 747	158 815 212
2019	591 121 046	356 459 630	19 231 301	165 653 896
Fiscal Year	Net expenditures for social welfare by general government (Thousand NT\$)		As a % of government expenditures (%)	Net benefit from social welfare per capita (NT\$)
	Employment service	Public health		
1966	-	-	4.7	88
1971	-	-	10.9	383
1981	-	-	3.9	918
1991	2 851 351	21 587 389	9.2	5 744
2001	2 899 722	26 628 743	17.5	17 769
2010	4 783 718	38 036 526	16.2	17 949
2011	5 317 036	37 399 122	17.1	19 269
2012	3 387 609	34 857 318	20.2	23 224
2013	2 981 731	35 821 258	20.1	22 999
2014	2 672 719	36 725 667	19.5	22 097
2015	2 876 776	37 011 635	20.1	22 678
2016	2 842 204	37 274 860	20.0	23 326
2017	2 877 384	39 017 578	20.3	23 937
2018	2 972 441	40 151 356	20.7	24 940
2019	3 039 365	46 736 854	20.3	25 052

**Note:** Before 2003, the figures are final audit accounts; since 2003, the figures are final account.

**Source:** 1. Ministry of Finance  
2. National Audit Office

**Table 33. Low-income families and living assistance**

End of Year	Low-income families (1) (Households, Persons)								As a % of total households (%)	As a % of total population (%)
	Total		Class 1		Class 2		Class 3			
	Households	Persons	Households	Persons	Households	Persons	Households	Persons		
1981	31 038	113 440	-	-	-	-	-	-	0.80	0.63
1991	42 665	116 225	12 012	15 326	14 818	48 089	15 835	52 810	0.82	0.56
1996	49 307	115 542	7 855	9 533	17 884	42 738	23 568	63 271	0.82	0.54
2001	67 191	162 699	4 132	4 761	22 461	49 876	40 598	108 062	0.99	0.73
2006	89 900	218 166	4 214	4 472	21 073	47 168	64 613	166 526	1.22	0.95
2010	112 200	273 361	4 085	4 271	24 201	51 788	83 914	217 302	1.41	1.18
2011	128 237	314 282	4 253	4 482	26 999	56 295	96 985	253 505	1.59	1.35
2012	145 613	357 446	4 364	4 582	31 095	63 984	110 154	288 880	1.78	1.53
2013	148 590	361 765	4 520	4 698	32 656	64 022	111 414	293 045	1.79	1.55
2014	149 958	357 722	4 243	4 389	33 053	61 779	112 662	291 554	1.79	1.53
2015	146 379	342 490	3 902	4 032	32 662	57 917	109 815	280 541	1.73	1.46
2016	145 176	331 776	3 533	3 653	33 216	56 516	108 427	271 607	1.70	1.41
2017	142 814	317 257	3 328	3 448	32 748	53 142	106 738	260 667	1.65	1.35
2018	143 941	311 526	3 073	3 194	33 394	52 141	107 474	256 191	1.65	1.32
2019	144 863	304 470	2 926	3 028	34 050	51 337	107 887	250 105	1.64	1.29

**Note:** (1) Data do not include Kinmen County and Lienchiang County before 1982. The new "Public Assistance Act" shall take effect on the 1st of July 2011.

In addition to the upward revision of minimum monthly income, brothers and sisters are excluded from the scope of number of members living in the household.

**Source:** Ministry of Health and Welfare

Table 33. Low-income families and living assistance (continued)

10 Thousand NT\$

Year	Living support (2)			Student living assistance		Work relief (2)		Education subsidies (2)		Primary festival grants	
	Times of persons	Times of households	Amount	Times of persons	Amount	Times of persons	Amount	Times of persons	Amount	Times of households	Amount
1981	-	-	21 833	-	-	-	-	-	-	-	-
1991	-	-	51 390	-	-	-	-	-	-	-	-
1996	481 464	-	194 612	81 436	33 954	48 891	59 434	11 161	1 895	-	16 541
2001	591 145	230 327	270 147	143 303	59 604	40 047	51 354	12 644	2 373	-	21 186
2006	821 714	228 512	306 091	271 072	108 912	41 460	57 449	15 639	3 942	251 916	31 370
2010	1 066 300	268 877	442 886	416 203	207 061	43 367	57 010	10 391	3 798	305 877	31 622
2011	1 120 856	270 893	460 079	496 156	251 285	34 594	48 862	15 423	5 619	256 877	29 782
2012	1 316 404	327 166	625 468	598 615	353 331	27 621	41 524	20 485	7 033	266 439	36 132
2013	1 360 970	352 852	648 918	695 024	409 786	26 929	39 871	28 481	8 240	408 212	43 169
2014	1 292 475	349 305	626 175	689 307	406 765	23 985	37 309	34 975	9 956	460 818	52 063
2015	1 201 568	337 163	605 253	646 749	380 865	23 685	37 159	30 780	9 044	357 820	54 343
2016	1 177 215	357 436	615 896	633 747	381 342	21 779	34 798	7 398	4 027	461 885	59 464
2017	1 055 006	345 382	580 772	577 471	352 491	21 038	34 714	15 743	4 835	411 849	55 979
2018	1 001 146	345 855	567 976	545 154	332 360	20 876	34 548	8 685	4 159	438 730	59 711
2019	936 751	350 600	552 850	521 076	318 043	21 293	36 678	4 307	3 139	451 123	59 599

Note: (2) Data do not include Kinmen County and Lienchiang County before 1996.



**Table 34. General situation of national health insurance**

End of Year	No. of beneficiaries (1,000 Persons)	Contracted medical care institutions (No.)		
		Total	Medical care institutions	Western med. hospitals and clinics
1995	19 123	15 662	14 599	8 262
1996	20 041	18 338	15 429	8 755
2001	21 654	20 071	16 558	8 821
2006	22 484	23 207	18 289	9 660
2009	23 026	24 423	19 077	10 032
2010	23 074	25 031	19 388	10 191
2011	23 199	25 747	19 763	10 360
2012	23 281	26 317	20 058	10 504
2013	23 463	26 823	20 324	10 594
2014	23 622	27 332	20 603	10 703
2015	23 737	27 728	20 762	10 729
2016	23 815	27 995	20 857	10 736
2017	23 880	28 339	21 080	10 824
2018	23 948	28 753	21 292	10 903
2019	24 020	29 120	21 435	10 970
End of Year	Contracted medical care institutions (No.)			
	Medical care institutions		Others	Pharmacies
	Chinese med. Hospitals and clinics	Dental clinics		
1995	1 722	4 615	1 063	804
1996	1 815	4 859	2 909	2 608
2001	2 269	5 468	3 513	2 860
2006	2 723	5 906	4 918	4 036
2009	2 957	6 088	5 346	4 446
2010	3 024	6 173	5 643	4 706
2011	3 140	6 263	5 984	5 037
2012	3 205	6 349	6 259	5 284
2013	3 288	6 442	6 499	5 513
2014	3 391	6 509	6 729	5 737
2015	3 468	6 565	6 966	5 950
2016	3 526	6 595	7 138	6 107
2017	3 594	6 662	7 259	6 203
2018	3 666	6 723	7 461	6 350
2019	3 728	6 737	7 685	6 516

**Note:** The national health insurance was implemented in March, 1995.

**Source:** National Health Insurance Administration, Ministry of Health and Welfare

**Table 34. General situation of national health insurance (continued)**

Year	Medical benefit claims (1,000 Cases, Million points, Days)					Average insured amount of the insured for category 1 to 3 (1) (NT\$)
	Outpatient		Inpatient			
	Cases	Points	Cases	Points	Average length of stay	
1995	201 905	106 923	1 173	36 395	9.41	20 691
1996	272 744	149 793	2 349	75 005	9.03	21 877
2001	313 947	206 918	2 815	104 629	8.83	25 693
2006	330 043	277 212	2 913	146 259	9.92	30 066
2009	356 795	325 980	3 144	161 650	10.19	31 847
2010	360 651	336 007	3 207	164 416	10.25	32 544
2011	375 009	356 128	3 277	169 792	10.18	33 505
2012	365 406	389 004	3 177	176 540	9.88	34 087
2013	351 209	410 119	3 134	179 150	9.89	34 715
2014	357 029	427 366	3 208	187 894	9.75	35 402
2015	355 589	436 847	3 281	193 523	9.55	35 918
2016	361 558	458 081	3 316	203 798	9.65	36 380
2017	352 249	488 273	3 361	212 579	9.44	36 933
2018	359 890	513 602	3 437	224 819	9.39	38 079
2019	367 614	539 914	3 533	233 249	9.29	38 837
Year	Premium receivables (Million NT\$)	Beneficiaries	Group insurance applicants	Government subsidies	Revenues and expenditures of national health insurance (Million NT\$)	
					Revenues	Expenditures
1995	198 376	65 507	72 885	59 984	-	-
1996	236 130	87 612	79 870	68 648	248 373	219 683
2001	290 070	115 355	93 566	81 149	295 150	296 612
2006	367 587	139 358	134 778	93 451	374 297	369 914
2009	385 194	148 418	136 656	100 120	391 396	431 752
2010	437 377	166 371	159 505	111 501	444 501	439 080
2011	468 799	176 459	174 166	118 175	485 798	463 727
2012	482 413	180 016	182 192	120 205	528 177	479 978
2013	466 290	175 513	180 366	110 412	571 007	491 892
2014	476 947	178 902	186 814	111 230	572 490	519 258
2015	479 882	182 715	184 538	112 629	594 699	539 402
2016	469 201	179 103	181 534	108 563	589 790	566 136
2017	478 751	182 130	188 630	107 991	600 412	597 359
2018	493 425	187 391	196 638	109 395	618 517	619 621
2019	503 828	190 429	204 315	109 084	...	...

Note: (1) End of year

**Table 35. General situation of labor insurance**

Units, 1,000 Persons

End of Year	No. of insured units and persons							
	Total		Industrial workers		Workers of commercial firms and shops		Employees in government agencies and schools	
	Units	Persons	Units	Persons	Units	Persons	Units	Persons
1971	10 052	1 000	5 117	752	584	25	3 994	49
1981	48 716	2 782	27 480	1 854	12 214	259	6 498	119
1991	294 807	7 281	116 367	2 804	151 213	1 695	6 853	191
2001	399 303	7 779	117 507	2 414	234 720	2 268	8 579	279
2006	462 233	8 681	124 308	2 583	279 312	2 721	8 458	309
2010	489 844	9 398	132 788	2 668	290 247	2 921	8 429	375
2011	503 646	9 726	137 766	2 774	296 898	3 076	8 491	384
2012	508 930	9 710	140 508	2 811	298 502	3 136	8 463	385
2013	517 325	9 746	144 159	2 896	301 083	3 176	8 390	390
2014	527 270	9 920	147 903	3 001	305 676	3 248	8 334	395
2015	537 221	10 073	151 945	3 060	309 950	3 321	8 433	419
2016	544 826	10 165	154 859	3 120	313 367	3 394	8 436	418
2017	553 170	10 272	157 936	3 201	317 284	3 464	8 397	429
2018	561 761	10 372	161 607	3 270	320 484	3 518	8 384	437
2019	569 671	10 469	164 726	3 313	323 266	3 581	8 381	454

Source: Bureau of Labor Insurance, Ministry of Labor

**Table 35. General situation of labor insurance (continued)**

Units, 1,000 Persons

End of Year	No. of insured units and persons							
	Workers employed in fishing production		Craft workers		Class A members of fishermen's association		Others	
	Units	Persons	Units	Persons	Units	Persons	Units	Persons
1971	-	-	134	25	70	142	153	6
1981	-	-	350	319	42	151	2 132	80
1991	882	12	2 031	2 121	39	183	17 422	275
2001	711	4	2 541	2 114	39	269	35 206	431
2006	549	2	3 054	2 252	39	290	46 513	524
2010	549	2	3 487	2 528	39	295	54 305	608
2011	541	2	3 614	2 557	39	297	56 297	635
2012	722	2	3 703	2 436	39	292	56 993	647
2013	1 398	4	3 753	2 332	39	289	58 503	658
2014	1 682	5	3 772	2 305	39	289	59 864	678
2015	1 652	5	3 799	2 281	39	288	61 403	700
2016	1 756	5	3 828	2 222	39	285	62 541	722
2017	1 867	5	3 866	2 149	39	278	63 781	746
2018	1 907	6	3 905	2 101	39	272	65 435	768
2019	1 927	6	3 926	2 052	39	265	67 406	798

**Table 35. General situation of labor insurance (continued)**

1,000 Persons, 1,000 Cases, 10 Thousand NT\$

End of Year	Premium receivable	Real benefit payments						
		Total	Pension benefit payments		Lump sum benefit payments			
			Amount	Persons (1)	Amount	Maternity, injury or sickness, permanent disability, old-age, death		Occupational accident medical care
		Cases				Amount	Cases	Amount
1971	110 118	52 280	-	-	110	37 803	65	14 474
1981	1 337 968	1 162 608	-	-	257	462 266	26 759	700 342
1991	8 645 363	6 580 894	-	-	601	3 265 384	62 803	3 315 510
2001	15 177 981	12 983 842	-	-	569	12 154 594	71	46 705
2006	15 791 806	17 355 303	-	-	571	17 167 248	726	188 055
2010	20 714 956	13 133 429	121	1 540 970	553	11 278 994	1 770	313 466
2011	23 416 708	14 448 200	194	2 663 126	577	11 492 423	1 439	292 651
2012	26 017 454	26 269 050	327	4 383 842	675	21 548 729	1 867	336 479
2013	27 691 721	28 002 503	507	8 167 843	634	19 565 962	1 196	268 698
2014	30 077 501	24 874 063	628	10 725 118	588	13 857 908	1 455	291 036
2015	32 679 482	28 245 088	748	13 319 277	588	14 624 552	1 501	301 260
2016	33 595 869	32 594 934	905	16 342 613	597	15 974 728	1 535	277 593
2017	36 336 896	38 954 503	1 066	20 060 593	603	18 599 284	1 625	294 626
2018	37 242 503	39 636 054	1 194	23 165 480	578	16 154 342	1 845	316 233
2019	40 080 147	42 265 671	1 307	26 001 786	576	15 923 139	1 944	340 746

**Note:** (1) End of year

**Table 36. General situation of farmer's health insurance**

Units, Persons, Cases, 10 Thousand NT\$

Year	No. of insured units (1)	No. of insured persons (1)	Premium receivable	Real cash benefits	
				Cases	Amount
1985	41	100 739	7 647	250	609
1991	289	1 653 676	1 343 377	46 035	495 688
1996	288	1 812 293	551 487	51 033	606 122
2001	289	1 766 854	546 612	96 844	1 308 879
2006	288	1 622 923	505 760	59 775	847 952
2010	287	1 508 284	472 038	56 412	846 248
2011	287	1 479 148	463 073	56 859	849 452
2012	287	1 454 728	453 335	56 234	870 956
2013	287	1 409 634	443 058	52 457	818 194
2014	287	1 349 903	427 586	52 379	822 868
2015	287	1 284 649	408 793	49 058	766 785
2016	287	1 235 745	387 456	47 194	749 651
2017	287	1 174 749	370 018	46 386	744 217
2018	287	1 130 275	353 008	45 518	737 345
2019	287	1 084 030	337 589	45 001	739 890

**Note:** (1) End of year**Source:** Bureau of Labor Insurance, Ministry of Labor

**Table 37. General situation of government employee and school staff insurance**

Persons, Thousand NT\$

Year	No. of insured persons (1)		Premiums		Cash benefits (including pension benefit payments) (2)				
					Total		Disability		Old age (3)
	GESSI	RGEI	GESSI	RGEI	Persons	Amount	Persons	Amount	Persons
2005	591 158	634	16 744 093	1 788	43 484	38 817 086	1 084	355 608	26 924
2006	589 237	563	16 468 839	1 568	30 546	23 518 563	1 042	355 977	14 929
2007	590 808	502	16 677 444	1 391	29 194	21 377 770	1 056	347 635	13 520
2008	594 798	458	16 926 336	1 306	28 766	20 307 724	1 042	340 805	12 852
2009	597 983	416	17 165 917	1 164	31 957	20 374 548	1 030	345 954	12 897
2010	597 583	372	17 417 350	1 054	36 324	24 971 873	1 029	355 476	16 333
2011	593 949	334	17 694 632	948	37 850	26 951 995	947	337 644	17 365
2012	593 846	303	17 991 298	851	38 862	28 245 148	952	361 365	17 989
2013	593 760	258	20 862 453	689	38 024	26 406 707	885	320 252	16 896
2014	587 459	150	20 948 418	538	44 936	24 424 799	869	327 938	18 029
2015	582 725	125	20 917 837	302	55 581	32 784 604	790	302 791	22 954
2016	578 624	100	22 778 804	329	53 385	29 852 594	828	324 413	20 356
2017	584 469	89	23 477 880	286	48 909	24 901 898	830	313 684	16 788
2018	589 483	78	24 863 074	260	46 050	23 212 324	751	294 712	14 638
2019	591 856	62	23 511 420	206	45 353	24 657 067	807	326 439	15 252
Year	Cash benefits (including pension benefit payments) (2)								
	Old age (3)	Death (3)		Dependents' funeral allowance		Parental leave allowance		Maternity (4)	
	Amount	Persons	Amount	Persons	Amount	Persons	Amount	Persons	Amount
2005	36 274 085	629	641 088	14 847	1 546 305	-	-	-	-
2006	21 009 265	642	685 830	13 933	1 467 490	-	-	-	-
2007	18 921 039	585	622 512	14 033	1 486 584	-	-	-	-
2008	17 785 186	597	643 120	14 275	1 538 613	-	-	-	-
2009	17 602 882	569	639 646	14 751	1 601 003	2 710	185 063	-	-
2010	22 016 132	575	643 044	14 768	1 624 451	3 619	332 772	-	-
2011	23 927 578	565	647 101	15 234	1 706 094	3 739	333 578	-	-
2012	25 142 386	521	623 324	15 113	1 739 995	4 287	378 080	-	-
2013	23 276 649	541	646 142	15 120	1 756 005	4 582	407 659	-	-
2014	20 865 515	564	683 050	15 733	1 834 985	5 175	444 792	4 566	268 518
2015	28 976 625	505	621 253	15 183	1 775 493	5 929	497 877	10 220	610 565
2016	25 909 044	529	651 982	15 624	1 838 896	6 036	520 070	10 012	608 190
2017	21 045 386	504	632 333	15 155	1 796 785	6 151	534 112	9 481	579 597
2018	19 317 586	512	662 135	15 336	1 861 466	6 055	532 565	8 758	543 862
2019	20 774 112	522	679 997	14 996	1 855 867	5 741	514 850	8 035	505 803

**Note:** GEI and ITASPS were transformed to GESSI since May 31, 1999.

(1) End of year (2) Including RGEI (3) Amendment to the GESSI Act was implemented on June 1, 2014. "Old age" and "Death" benefits separately were divided into two parts, pension and lump sum. (4) Maternity benefit came into operation on June 1, 2014.

**Source:** Bank of Taiwan

**Table 38. General situation of national pension**

Persons, Thousand NT\$

Year	No. of insured persons (1)	Premium receivable			Real insurance benefit payments (2)	
		Total	Premium paid by government	Premium paid by the insured	Persons	Amount
2008	4 220 905	8 189 050	-	8 189 050	935 562	5 642 835
2009	4 014 678	30 843 317	-	30 843 317	1 044 341	37 696 991
2010	3 872 241	29 862 186	-	29 862 186	1 109 914	40 498 338
2011	3 783 731	80 506 455	48 624 278	31 882 177	1 216 260	43 281 019
2012	3 725 626	46 283 655	16 977 261	29 306 395	1 293 871	53 283 638
2013	3 677 601	47 443 118	16 508 156	30 934 962	1 373 599	58 001 719
2014	3 584 020	47 168 321	16 869 803	30 298 519	1 454 560	61 017 622
2015	3 509 970	51 044 259	17 664 559	33 379 700	1 531 373	64 800 157
2016	3 425 214	50 814 483	18 236 252	32 578 231	1 620 012	71 141 319
2017	3 349 164	52 126 240	18 443 081	33 683 158	1 696 768	75 311 801
2018	3 286 664	51 895 695	18 971 769	32 923 925	1 770 198	78 982 940
2019	3 230 918	53 850 441	19 571 334	34 279 107	1 833 837	82 111 121

**Note:** (1) End of year

(2) The grand total means the sum of the persons receiving pensions at the end of the recent year and the total of the persons receiving maternity and funeral benefit.

**Source:** Bureau of Labor Insurance, Ministry of Labor



# **NATIONAL ECONOMICS AND BUSINESS ACTIVITIES**

Table 39. General situation of national income

Year	Gross domestic product (GDP)					Gross national income (GNI) (At current prices)
	At current prices		Chained (2016) dollars			
	Amount (Million NT\$)	Annual rate of increase (%)	Amount (Million US\$)	Chained dollars (Million NT\$)	Economic growth rate (%)	Amount (Million NT\$)
1951	12 327	-	1 197	156 918	-	12 320
1971	269 084	16.29	6 727	985 232	13.43	268 962
1981	1 804 431	18.52	49 047	2 512 595	7.10	1 794 778
1991	5 018 019	12.15	187 100	5 592 915	8.37	5 153 461
2001	10 119 429	-2.02	299 303	9 724 993	-1.40	10 308 613
2010	14 060 345	8.83	444 245	14 889 912	10.25	14 476 060
2011	14 262 201	1.44	483 957	15 436 975	3.67	14 634 307
2012	14 677 765	2.91	495 536	15 779 909	2.22	15 109 951
2013	15 270 728	4.04	512 957	16 171 821	2.48	15 673 232
2014	16 258 047	6.47	535 332	16 935 007	4.72	16 697 152
2015	17 055 080	4.90	534 474	17 183 235	1.47	17 494 741
2016	17 555 268	2.93	543 002	17 555 268	2.17	18 006 409
2017	17 983 347	2.44	590 780	18 136 589	3.31	18 430 708
2018	18 342 891	2.00	608 186	18 634 482	2.75	18 757 692
2019	18 886 878	2.97	610 872	19 139 231	2.71	19 339 384
Year	Gross national income (GNI) (At current prices)		National income (NI)			
	Annual rate of increase (%)	Amount (Million US\$)	At current prices		Chained (2016) dollars	
			Amount (Million NT\$)	Amount (Million US\$)	Chained dollars (Million NT\$)	Annual rate of increase (%)
1951	-	1 196	12 276	1 192	168 377	-
1971	16.44	6 724	251 184	6 280	1 037 769	13.82
1981	18.05	48 784	1 612 497	43 830	2 414 184	6.16
1991	12.24	192 150	4 682 161	174 577	5 785 410	8.90
2001	-1.50	304 898	8 979 918	265 599	9 288 056	-3.79
2010	8.66	457 379	12 131 269	383 294	12 249 873	9.43
2011	1.09	496 583	12 227 309	414 907	12 339 892	0.73
2012	3.25	510 127	12 496 672	421 900	12 667 183	2.65
2013	3.73	526 477	13 194 356	443 210	13 193 923	4.16
2014	6.53	549 791	14 212 193	467 968	14 127 703	7.08
2015	4.78	548 253	14 860 645	465 705	14 950 537	5.82
2016	2.92	556 957	15 305 453	473 413	15 305 453	2.37
2017	2.36	605 477	15 733 800	516 879	15 765 865	3.01
2018	1.77	621 939	15 992 789	530 265	15 885 444	0.76
2019	3.10	625 563	16 211 451	524 409	16 118 850	1.47

Source: Directorate-General of Budget, Accounting and Statistics, Executive Yuan

**Table 40. Per capita income and consumption**

At current prices

Year	Per capita GDP				Per capita GNI
	Amount (NT\$)	Annual rate of increase (%)	Amount (US\$)	Annual rate of increase (%)	Amount (NT\$)
1951	1 589	-	154	-	1 588
1971	18 043	13.71	451	13.60	18 035
1981	100 079	16.38	2 720	13.86	99 544
1991	244 739	10.92	9 125	11.21	251 345
2001	452 951	-2.71	13 397	-10.14	461 419
2010	607 596	8.54	19 197	13.37	625 560
2011	614 922	1.21	20 866	8.69	630 965
2012	630 749	2.57	21 295	2.06	649 322
2013	654 142	3.71	21 973	3.18	671 384
2014	694 680	6.20	22 874	4.10	713 443
2015	726 895	4.64	22 780	-0.41	745 634
2016	746 526	2.70	23 091	1.37	765 711
2017	763 445	2.27	25 080	8.61	782 437
2018	777 898	1.89	25 792	2.84	795 489
2019	800 542	2.91	25 893	0.39	819 724
Year	Per capita GNI	Per capita NI		Per capita private final consumption	
	Amount (US\$)	Amount (NT\$)	Amount (US\$)	Amount (NT\$)	Amount (US\$)
1951	154	1 582	154	1 157	112
1971	451	16 843	421	9 687	242
1981	2 706	89 434	2 431	51 381	1 397
1991	9 372	228 358	8 514	127 865	4 768
2001	13 647	401 946	11 888	257 619	7 620
2010	19 765	524 234	16 563	323 280	10 214
2011	21 410	527 186	17 889	335 222	11 375
2012	21 922	537 021	18 130	344 466	11 630
2013	22 552	565 198	18 985	353 073	11 860
2014	23 492	607 264	19 996	367 586	12 104
2015	23 367	633 367	19 849	374 530	11 737
2016	23 684	650 854	20 132	386 209	11 946
2017	25 704	667 945	21 943	395 902	13 006
2018	26 376	678 233	22 488	407 513	13 512
2019	26 514	687 140	22 228	418 660	13 539

Source: Directorate-General of Budget, Accounting and Statistics, Executive Yuan

**Table 41. Gross national income**

Chained (2016) dollars

Million NT\$

Year	GNI	GDP	Net factor income from the rest of the world	Gain or loss resulting from changes in the terms of trade	NI			Consumption of fixed capital	Statistical discrepancy
					at market prices	NI at factor cost	Net taxes on production and imports		
1951	163 187	156 918	- 208	5 687	168 377	153 790	14 186	323	-
1971	1 096 938	985 232	- 632	106 665	1 037 769	910 418	119 792	61 610	-
1981	2 663 796	2 512 595	- 16 650	149 710	2 414 184	2 133 095	264 672	249 481	- 14 960
1991	6 457 778	5 592 915	197 030	679 957	5 785 410	5 235 013	550 820	607 956	26 453
2001	10 956 059	9 724 993	221 157	1 001 953	9 288 056	8 652 703	642 023	1 585 104	65 230
2010	14 585 937	14 889 912	443 183	- 746 838	12 249 873	11 463 802	786 653	2 300 340	35 589
2011	14 683 569	15 436 975	391 231	- 1 144 749	12 339 892	11 526 315	815 639	2 367 961	- 24 891
2012	15 052 892	15 779 909	445 802	- 1 174 237	12 667 183	11 858 812	809 433	2 422 048	- 36 862
2013	15 638 936	16 171 821	411 099	- 943 499	13 193 923	12 346 322	848 862	2 480 319	- 34 887
2014	16 564 562	16 935 007	443 686	- 814 222	14 127 703	13 236 549	891 914	2 550 223	- 113 302
2015	17 547 430	17 183 235	446 330	- 82 111	14 950 537	14 041 824	908 694	2 623 072	- 26 345
2016	18 006 409	17 555 268	451 141	-	15 305 453	14 346 163	959 290	2 700 956	-
2017	18 479 611	18 136 589	443 260	- 100 238	15 765 865	14 775 599	990 266	2 778 339	- 64 593
2018	18 615 915	18 634 482	406 600	- 424 655	15 885 444	14 850 359	1 035 399	2 850 795	- 120 255
2019	19 080 100	19 139 231	440 798	- 500 221	16 118 850	15 083 389	1 035 774	2 939 061	22 107

**Note:** The chained-dollar estimates are not additive.**Source:** Directorate-General of Budget, Accounting and Statistics, Executive Yuan

**Table 42. Expenditure on gross domestic product**

Chained (2016) dollars

Million NT\$

Year	GDP	Private final consumption	Government final consumption	Gross fixed capital formation	Changes in inventories	Exports of goods and services	Imports of goods and services
1951	156 918	112 338	62 122	12 495	5 953	9 026	22 673
1971	985 232	634 844	314 070	253 740	7 340	200 265	302 901
1981	2 512 595	1 431 014	610 226	764 029	23 927	764 625	924 360
1991	5 592 915	3 399 946	1 386 701	1 699 619	58 555	2 184 878	2 733 335
2001	9 724 993	6 266 946	2 013 348	2 770 811	- 44 014	4 351 942	4 962 150
2010	14 889 912	7 703 014	2 238 401	3 325 172	213 621	10 255 389	8 766 869
2011	15 436 975	7 936 336	2 287 674	3 278 240	48 429	10 654 521	8 750 115
2012	15 779 909	8 088 499	2 341 729	3 236 301	32 738	10 856 621	8 786 748
2013	16 171 821	8 295 114	2 309 864	3 463 774	- 37 457	11 205 236	9 073 498
2014	16 935 007	8 602 399	2 397 202	3 584 961	54 700	11 876 154	9 584 756
2015	17 183 235	8 848 554	2 394 167	3 681 042	51 517	11 918 840	9 711 038
2016	17 555 268	9 082 075	2 482 242	3 807 567	- 10 001	11 808 128	9 614 743
2017	18 136 589	9 327 236	2 472 048	3 797 673	- 28 946	12 339 710	9 771 132
2018	18 634 482	9 517 747	2 571 655	3 909 804	111 662	12 424 341	9 904 538
2019	19 139 231	9 728 509	2 573 218	4 263 775	- 35 094	12 571 688	9 979 638

**Note:** The chained-dollar estimates are not additive.**Source:** Directorate-General of Budget, Accounting and Statistics, Executive Yuan

Table 43. Composition of gross fixed capital formation

%

Year	By type of capital goods								By owner		
	Residential buildings	Non-residential buildings	Other constructions except land improvement	Land improvement and plantation and orchard development	Transport equipments	Machinery and equipments	Breeding stock, draught animals, dairy cattle and the like	Intellectual property products	Private enterprises	Public enterprises	General government
1951	8.96	21.47	23.32	0.37	9.33	34.79	0.07	1.70	53.96	28.72	17.32
1971	11.76	11.79	12.88	0.21	12.74	44.83	0.14	5.66	56.48	31.16	12.36
1981	11.82	18.37	13.47	0.24	8.14	44.33	0.14	3.50	50.77	32.45	16.79
1991	9.58	17.65	20.34	0.57	8.64	34.72	0.30	8.20	50.85	21.91	27.25
2001	6.35	15.64	16.21	1.36	7.53	38.23	0.03	14.65	65.84	11.02	23.13
2010	6.93	16.40	13.12	1.27	5.21	38.73	0.15	18.21	74.70	7.49	17.81
2011	10.43	17.30	10.90	0.83	5.36	36.33	0.10	18.76	76.21	6.58	17.21
2012	11.64	18.33	9.67	0.74	5.59	34.17	0.06	19.79	78.25	6.11	15.65
2013	10.44	19.63	9.35	0.75	5.45	34.03	0.06	20.27	79.73	5.78	14.49
2014	11.62	19.90	8.41	0.52	6.10	32.61	0.07	20.76	81.31	5.82	12.87
2015	11.67	19.77	7.62	0.44	6.25	32.73	0.07	21.44	82.69	5.23	12.09
2016	10.11	19.64	7.22	0.40	6.12	34.46	0.06	21.99	83.33	4.90	11.77
2017	10.23	19.76	7.76	0.43	6.37	32.41	0.08	22.96	82.52	4.86	12.63
2018	10.04	20.19	7.90	0.42	6.09	32.23	0.07	23.07	81.96	5.36	12.68
2019	36.24				5.41	36.26		22.09	82.58	4.95	12.47

Source: Directorate-General of Budget, Accounting and Statistics, Executive Yuan

**Table 44. Gross domestic product and expenditure**

At current prices

Million NT \$

Item	2012	2013	2014	2015	2016	2017	2018	2019
Compensation of employees	6 657 257	6 806 932	7 198 293	7 516 962	7 740 858	8 024 870	8 417 966	} 14 716 596
Operating surplus	4 628 954	5 163 719	5 697 300	6 001 355	6 154 164	6 281 062	6 118 015	
Consumption of fixed capital	2 481 522	2 471 945	2 570 369	2 601 636	2 700 956	2 768 310	2 896 566	3 039 968
Taxes on production and imports	854 107	891 642	951 098	975 582	1 035 207	1 053 682	1 119 106	} 1 042 349
Less: subsidies	75 832	70 441	73 603	72 915	75 917	73 175	77 099	
Plus: statistical discrepancy	131 757	6 931	- 85 410	32 460	-	- 71 402	- 131 663	87 965
Gross domestic product	14 677 765	15 270 728	16 258 047	17 055 080	17 555 268	17 983 347	18 342 891	18 886 878
Government final consumption expenditure	2 284 488	2 259 221	2 360 910	2 363 711	2 482 242	2 486 552	2 623 026	2 641 472
Private final consumption expenditure	8 015 850	8 242 378	8 602 842	8 787 564	9 082 075	9 325 676	9 609 198	9 877 261
Changes in inventories	16 699	- 24 524	37 881	42 438	- 10 001	- 24 580	84 773	- 28 842
Gross fixed capital formation	3 313 753	3 465 988	3 630 558	3 663 758	3 807 567	3 795 869	3 990 545	4 429 650
Exports of goods and services	11 634 675	11 854 435	12 559 478	12 157 096	11 808 128	12 095 508	12 219 490	12 097 562
Less: imports of goods and services	10 587 700	10 526 770	10 933 622	9 959 487	9 614 743	9 695 678	10 184 141	10 130 225
Gross domestic product	14 677 765	15 270 728	16 258 047	17 055 080	17 555 268	17 983 347	18 342 891	18 886 878

Source: Directorate-General of Budget, Accounting and Statistics, Executive Yuan

**Table 45. National disposable income and its appropriation**

At current prices

Million NT \$

Item	2012	2013	2014	2015	2016	2017	2018	2019
Government final consumption expenditure	2 284 488	2 259 221	2 360 910	2 363 711	2 482 242	2 486 552	2 623 026	2 641 472
Private final consumption expenditure	8 015 850	8 242 378	8 602 842	8 787 564	9 082 075	9 325 676	9 609 198	9 877 261
Saving	2 119 806	2 604 516	3 164 738	3 601 872	3 638 664	3 795 630	3 660 394	3 603 014
Appropriation of disposable income	12 420 144	13 106 115	14 128 490	14 753 147	15 202 981	15 607 858	15 892 618	16 121 747
Compensation of employees	6 657 257	6 806 932	7 198 293	7 516 962	7 740 858	8 024 870	8 417 966	} 14 716 596
Operating surplus	4 628 954	5 163 719	5 697 300	6 001 355	6 154 164	6 281 062	6 118 015	
Compensation of employees from ROW, net	4 383	8 008	9 719	8 264	4 590	6 241	8 898	13 048
Property and entrepreneurial income from ROW, net	427 803	394 496	429 386	431 397	446 551	441 120	405 903	439 458
Taxes on production and imports	854 107	891 642	951 098	975 582	1 035 207	1 053 682	1 119 106	} 1 042 349
Less: subsidies	75 832	70 441	73 603	72 915	75 917	73 175	77 099	
Other current transfers from ROW, net	- 76 528	- 88 241	- 83 703	- 107 498	- 102 472	- 125 942	- 100 171	- 89 704
Disposable income	12 420 144	13 106 115	14 128 490	14 753 147	15 202 981	15 607 858	15 892 618	16 121 747

Source: Directorate-General of Budget, Accounting and Statistics, Executive Yuan



**Table 46. Average disposable income per household by disposable income quintile**

NT\$, %

Year	Average disposable income per household	Average disposable income per household of each fifth					Income inequality indices		As a % of number of households by sex of household heads	
		1 (Lowest 20%)	2	3	4	5 (Highest 20%)	Ratio of income share of highest 20% to that of lowest 20%	Gini's concentration coefficient	Male	Female
1976	116 297	51 754	79 335	101 676	132 056	216 666	4.18	0.280	-	-
1981	266 439	117 224	183 360	234 699	303 530	493 382	4.21	0.281	-	-
1991	587 242	227 816	389 205	511 410	674 451	1 133 327	4.97	0.308	-	-
2001	868 651	279 404	524 766	740 054	1 013 478	1 785 550	6.39	0.350	80.39	19.61
2006	913 092	304 274	564 865	795 427	1 073 507	1 827 387	6.01	0.339	76.93	23.07
2010	889 353	288 553	542 741	773 468	1 054 693	1 787 312	6.19	0.342	73.73	26.27
2011	907 988	296 352	546 903	786 324	1 083 008	1 827 354	6.17	0.342	73.30	26.70
2012	923 584	301 362	566 814	810 075	1 093 553	1 846 116	6.13	0.338	71.99	28.01
2013	942 208	309 459	583 287	823 937	1 111 674	1 882 680	6.08	0.336	72.18	27.82
2014	956 849	317 144	587 625	830 741	1 128 799	1 919 937	6.05	0.336	72.07	27.93
2015	964 895	320 312	587 763	836 842	1 139 842	1 939 718	6.06	0.338	70.84	29.16
2016	993 115	329 400	616 604	861 413	1 153 992	2 004 165	6.08	0.336	70.29	29.71
2017	1 018 941	338 278	627 855	884 183	1 191 537	2 052 850	6.07	0.337	70.85	29.15
2018	1 036 304	344 948	637 775	888 498	1 211 270	2 099 030	6.09	0.338	70.73	29.27
2019	1 059 731	350 189	645 272	911 571	1 253 751	2 137 871	6.10	0.339	70.34	29.66

Source: Directorate-General of Budget, Accounting and Statistics, Executive Yuan

**Table 47. Family income and expenditure**

Persons, NT\$

Year	No. of persons per household	No. of persons employed per household	Per household					Average disposable income (A)
			Current receipts					
			Total	Compensation of employees	Entrepreneurial income	Property income	Transfer income	
1976	5.24	1.92	125 324	75 720	31 080	11 628	6 900	116 297
1981	4.79	1.92	302 114	187 696	64 242	36 271	13 905	266 439
1991	4.16	1.76	711 333	429 095	139 521	98 941	43 776	587 242
2001	3.58	1.56	1 108 461	602 182	176 460	177 199	152 620	868 651
2006	3.41	1.52	1 151 338	635 926	167 860	169 822	177 730	913 092
2010	3.25	1.44	1 123 761	619 014	145 430	166 096	193 221	889 353
2011	3.29	1.49	1 157 895	646 849	147 071	170 078	193 897	907 988
2012	3.23	1.46	1 176 877	647 332	148 332	169 341	211 872	923 584
2013	3.21	1.46	1 195 566	655 707	149 970	170 301	219 589	942 208
2014	3.15	1.45	1 213 703	667 520	151 601	176 624	217 959	956 849
2015	3.10	1.43	1 224 600	665 122	147 585	182 698	229 194	964 895
2016	3.07	1.42	1 253 389	674 344	154 303	185 749	238 993	993 115
2017	3.07	1.43	1 292 578	695 838	156 791	190 713	249 236	1 018 941
2018	3.05	1.42	1 310 447	707 123	158 872	192 481	251 971	1 036 304
2019	3.02	1.40	1 335 845	724 607	157 174	194 064	260 000	1 059 731

**Note:** Property income includes imputed rentals of owner-occupiers, and transfer income includes miscellaneous receipts.

**Source:** Directorate-General of Budget, Accounting and Statistics, Executive Yuan

**Table 47. Family income and expenditure (continued)**

NT\$, %

Year	Per household					Average propensity to consume (C)=(B)/(A)*100
	Expenditure (B)	Food, beverage and tobacco	Health	Recreation, culture and education		
1976	95 714	38 409	4 406	5 817		82.30
1981	199 523	76 965	8 971	14 929		74.89
1991	411 760	104 587	22 074	46 654		70.12
2001	657 872	113 755	75 223	79 179		75.73
2006	713 024	115 036	98 062	82 190		78.09
2010	702 292	116 864	101 089	77 301		78.97
2011	729 010	118 263	106 607	75 697		80.29
2012	727 693	120 399	105 869	72 857		78.79
2013	747 922	121 903	109 711	72 757		79.38
2014	755 169	119 845	112 270	72 379		78.92
2015	759 647	120 619	114 303	73 242		78.73
2016	776 811	122 391	119 093	72 874		78.22
2017	811 670	126 606	123 765	77 503		79.66
2018	811 359	126 225	128 632	75 113		78.29
2019	829 199	126 084	132 719	79 053		78.25
Year	Per household		Per capita			
	Savings (D)	Savings rate (E)=(D)/(A)*100	Current receipts	Average disposable income	Expenditure	Savings
1976	20 583	17.70	23 917	22 194	18 266	3 928
1981	66 916	25.11	63 072	55 624	41 654	13 970
1991	175 482	29.88	170 994	141 164	98 981	42 183
2001	210 779	24.27	309 626	242 640	183 763	58 877
2006	200 068	21.91	337 636	267 769	209 098	58 671
2010	187 061	21.03	345 773	273 647	216 090	57 557
2011	178 978	19.71	351 944	275 984	221 584	54 401
2012	195 891	21.21	364 358	285 939	225 292	60 647
2013	194 286	20.62	372 451	293 523	232 998	60 525
2014	201 680	21.08	385 303	303 762	239 736	64 025
2015	205 248	21.27	395 032	311 256	245 047	66 209
2016	216 304	21.78	408 270	323 490	253 033	70 457
2017	207 271	20.34	421 035	331 903	264 388	67 515
2018	224 945	21.71	429 655	339 772	266 019	73 752
2019	230 532	21.75	442 333	350 904	274 569	76 335

Table 48. Approved Mainland China investment

10 Thousand US\$

Year	Total	By industry											
		Agriculture, forestry, fishing & animal husbandry	Mining & quarrying	Manufacturing	Electricity & gas supply	Water supply & remediation services	Construction	Wholesale & retail trade	Transportation & storage	Accommodation & food services	Information & communication	Financial & insurance	Real estate
1991	17 416	-	90	17 306	-	-	-	20	-	-	-	-	-
1996	122 924	710	736	111 591	600	-	63	3 029	1 644	668	1 120	1 180	488
2001	278 415	1 039	110	251 396	742	-	2 259	11 721	1 651	150	5 508	316	35
2006	764 234	896	115	664 929	4 626	420	1 473	31 278	10 478	1 641	8 117	8 443	1 780
2009	714 259	719	-	589 208	1 700	280	2 596	74 315	3 121	8 029	10 685	4 872	1 720
2010	1 461 787	756	1 444	1 084 082	4 631	30	7 313	111 549	2 308	6 664	33 307	50 038	112 828
2011	1 437 662	448	1 362	1 037 539	150	4 701	6 147	123 272	9 427	6 017	28 253	125 583	41 360
2012	1 279 208	923	810	751 880	-	1 151	5 340	127 179	6 331	17 180	11 864	172 572	133 800
2013	919 009	222	3 175	512 052	-	2 155	3 552	103 594	2 490	7 813	22 288	190 097	28 932
2014	1 027 657	269	1 791	657 916	1 371	910	4 318	109 557	1 881	3 778	11 327	165 895	32 530
2015	1 096 549	220	2 154	648 557	2 496	815	1 185	67 994	4 228	1 447	11 647	278 589	31 953
2016	967 073	800	921	711 222	2 930	4 605	6 790	53 511	7 197	2 442	4 934	136 291	9 363
2017	924 886	1 681	2 270	643 556	-	5 544	963	105 987	3 780	2 250	6 406	107 352	14 868
2018	849 773	2 604	-	597 553	1 500	-	5 797	118 892	15 843	8 480	4 711	58 904	7 947
2019	417 309	5 239	-	240 806	895	260	2 876	100 887	14 675	661	4 529	23 687	3 732
Year	By industry					By area							
	Professional, scientific & technical services	Support services	Human health & social work services	Arts, entertainment & recreation	Others	Kiangsu	Canton	Chekiang	Fukien	Shanghai	Beijing	Tientsin	Others
1991	-	-	-	-	-	326	7 333	19	5 596	2 114	598	99	1 332
1996	301	-	-	796	-	29 815	30 450	3 275	11 088	24 384	1 886	9 620	12 404
2001	671	106	-	197	2 514	104 635	78 797	20 849	12 012	37 625	8 692	3 697	12 109
2006	12 367	3 626	1 906	4 819	7 319	288 725	141 518	59 100	51 994	104 179	16 399	11 331	90 988
2009	1 701	806	960	3 513	10 037	274 663	128 216	59 218	26 247	95 500	18 752	17 688	93 975
2010	20 023	6 056	824	1 832	18 103	550 183	261 887	72 262	88 165	196 134	17 798	27 805	247 552
2011	17 529	10 320	8 456	1 562	15 536	442 589	220 507	72 446	92 341	217 586	15 416	21 187	355 592
2012	27 499	2 341	7 268	5 462	7 608	345 601	141 427	100 398	110 586	214 770	13 210	35 415	317 800
2013	16 339	11 505	6 126	1 782	6 887	231 093	147 853	42 576	57 363	239 285	17 622	12 678	170 540
2014	20 994	9 785	1 111	783	3 441	245 788	116 103	46 333	189 140	135 267	13 923	9 571	271 532
2015	26 399	6 128	1 582	4 938	6 217	228 866	146 973	65 932	85 040	128 689	142 820	15 153	283 074
2016	6 857	2 636	7 203	3 758	5 613	288 513	98 687	33 772	99 090	110 628	48 387	5 233	282 763
2017	14 160	2 575	4 949	525	8 022	232 510	111 176	67 641	101 026	103 794	31 801	6 175	270 763
2018	14 442	8 566	1 182	923	2 432	219 304	129 743	118 955	97 673	96 377	17 894	8 379	161 448
2019	14 755	973	787	553	1 993	143 407	43 485	38 685	40 600	55 263	6 111	17 381	72 377

Note: The Standard Industrial Classification is the 8th Amendment.

Source: Investment Commission, MOEA

**Table 49. Approved inward and outward investment**

## I . Approved overseas Chinese and foreign investment

10 Thousand US\$

Year	Total	Overseas Chinese	Foreign nationals	By industry						
				Agriculture, forestry, fishing & animal husbandry	Mining & quarrying	Manufacturing	Electricity & gas supply	Water supply & remediation services	Construction	Wholesale & retail trade
1952	107	107	-	-	-	107	-	-	-	-
1971	16 621	3 802	12 819	9	-	13 548	219	-	1 674	-
1981	39 576	3 946	35 629	-	-	26 268	1 513	-	167	-
1991	177 842	21 946	155 896	22	9	124 169	853	-	766	-
2001	512 852	4 722	508 129	1 802	3 945	177 049	2 915	4 133	10 605	79 015
2010	381 157	1 289	379 868	408	74	132 100	2 239	1 762	3 579	38 802
2011	495 543	5 153	490 390	3 087	318	146 325	1 683	7	6 476	74 899
2012	555 898	1 166	554 732	74	159	142 368	467	714	4 601	101 782
2013	493 345	897	492 448	295	55	175 558	393	388	3 454	70 261
2014	577 002	1 881	575 121	536	1	234 600	333	398	3 688	78 466
2015	479 685	1 484	478 200	194	-	133 155	285	1 695	1 058	106 918
2016	1 103 706	1 083	1 102 623	1 607	18	756 636	94	26	6 822	119 507
2017	751 319	940	750 379	3 012	4	304 823	183	1 356	5 112	87 861
2018	1 144 023	1 177	1 142 846	378	9	591 883	6 239	1 724	4 217	89 484
2019	1 119 597	3 875	1 115 722	593	1	429 514	47 878	532	6 826	106 589

  

Year	By industry									
	Transportation & storage	Accommodation & food services	Information & communication	Financial & insurance	Real estate	Professional, scientific & technical services	Support services	Human health & social work services	Arts, entertainment and recreation	Others
1952	-	-	-	-	-	-	-	-	-	-
1971	14	52	-	925	-	179	-	-	-	-
1981	3	12	-	755	-	10 860	-	-	-	-
1991	2 997	23 185	-	12 210	-	13 632	-	-	-	-
2001	1 284	10 675	48 452	143 580	8 349	17 052	3 530	-	313	154
2010	2 980	1 147	8 598	151 492	13 606	10 996	4 178	73	73	9 049
2011	1 576	2 783	11 918	182 359	24 327	22 742	1 939	-	241	14 864
2012	5 507	2 818	49 883	207 769	17 515	12 398	4 296	0	482	5 064
2013	12 552	3 203	7 798	130 898	48 846	15 841	19 670	3	1 716	2 414
2014	7 652	6 193	8 594	157 136	48 927	19 815	7 981	8	2 086	590
2015	2 065	6 887	15 447	120 671	48 330	31 562	8 874	-	2 110	432
2016	2 446	3 485	18 766	122 010	31 694	32 741	5 519	91	1 552	692
2017	4 216	9 709	120 881	93 970	71 703	44 584	2 791	441	237	436
2018	4 397	6 176	23 521	324 413	45 265	37 866	836	-	5 879	1 736
2019	8 472	35 847	124 550	217 749	28 117	103 919	2 511	9	3 479	3 011

**Note:** The Standard Industrial Classification is the 8th Amendment.

**Source:** Investment Commission, MOEA

**Table 49. Approved inward and outward investment (continued)**

## II. Approved outward investmen

10 Thousand US\$

Year	Total	Asia							
		Japan	South Korea	Hong Kong	Singapore	Indonesia	Malaysia	Philippines	
1962	49	49	-	-	-	-	-	-	-
1971	121	111	-	-	3	-	4	14	6
1981	1 076	674	-	-	321	74	196	-	-
1991	165 623	92 982	343	10	19 963	1 254	16 034	44 201	132
2001	439 165	81 498	16 903	1 210	9 490	37 830	612	4 552	4 620
2010	282 345	139 136	4 065	335	24 446	3 270	39	37 037	52
2011	369 683	172 392	25 235	2 800	25 435	44 859	114	13 020	6 917
2012	809 864	715 152	108 935	2 106	29 158	449 866	1 720	18 791	1 070
2013	523 227	289 458	17 050	6 099	31 640	15 829	2 847	10 345	5 893
2014	729 368	248 227	68 002	17 115	42 342	13 677	11 667	3 179	4 093
2015	1 093 115	466 067	30 379	33 605	49 214	23 003	40 483	10 359	64 428
2016	1 212 309	748 802	450 422	21 433	40 771	155 389	4 563	7 997	6 176
2017	1 157 321	356 942	20 204	892	29 480	91 564	12 225	31 272	22 573
2018	1 429 456	364 883	61 988	22 071	57 771	16 597	13 461	5 411	14 970
2019	685 115	321 441	7 192	1 467	45 738	63 571	14 880	10 197	10 672

  

Year	Asia			North America	Europe	Middle-South America	British overseas territories in the Caribbean	Oceania	Africa
	Thailand	Vietnam	India						
1962	49	-	-	-	-	-	-	-	-
1971	84	-	-	10	-	-	-	-	-
1981	7	-	-	165	223	15	-	-	-
1991	8 643	1 714	20	31 204	6 049	34 692	26 787	244	452
2001	1 629	3 091	311	134 173	4 687	211 917	169 337	6 284	607
2010	868	67 012	362	50 662	5 060	78 418	56 769	8 211	858
2011	1 166	45 774	6 705	73 215	3 925	104 886	80 046	12 207	3 057
2012	6 124	94 400	2 093	15 781	7 149	31 089	17 583	37 036	3 658
2013	7 827	173 648	6 504	41 661	16 890	40 262	23 308	133 268	1 687
2014	8 282	64 650	3 349	28 994	93 630	313 607	308 395	39 456	5 454
2015	77 492	122 752	7 216	36 346	269 731	309 098	289 751	7 103	4 769
2016	5 473	45 193	1 494	37 712	113 697	289 759	271 871	16 048	6 291
2017	55 828	68 309	3 056	85 066	23 271	609 983	592 031	78 053	4 005
2018	14 638	90 141	36 122	204 544	128 742	658 970	591 426	64 401	7 916
2019	32 769	91 487	7 038	56 659	76 714	153 911	131 033	73 883	2 508

Table 50. Indices of consumer price

2016=100

Year	General index	Food	Clothing	Housing	Transportation & communication			Fuels & lubricants
					Equipment for transportation & communication			
Item	368	171	23	46	30	5	5	
Weights (‰)	1000.00	240.46	49.54	223.62	147.70	42.53	28.46	
1989	63.63	48.20	91.99	71.28	85.66	122.89	59.93	
1991	68.65	50.42	92.30	79.67	93.10	119.63	73.52	
1996	82.12	64.91	95.36	94.09	96.08	120.71	68.98	
2001	85.46	66.46	88.92	96.14	99.63	114.97	82.09	
2006	88.95	73.63	89.84	95.09	103.22	105.45	111.72	
2010	93.82	82.35	94.14	97.62	106.21	101.99	125.50	
2011	95.15	84.21	96.84	98.46	107.73	102.37	134.67	
2012	96.99	87.72	99.28	99.60	108.21	102.77	142.45	
2013	97.76	88.82	99.09	100.51	108.69	102.00	146.30	
2014	98.93	92.15	100.36	101.39	107.39	100.43	141.65	
2015	98.63	95.03	99.80	100.24	101.13	100.41	106.25	
2016	100.00	100.00	100.00	100.00	100.00	100.00	100.00	
2017	100.62	99.63	99.76	100.86	101.81	99.34	109.36	
2018	101.98	100.62	100.05	101.78	104.12	97.82	123.87	
2019	102.55	102.54	99.31	102.42	102.61	97.67	119.96	

  

Year	Transportation & communication	Health	Education & entertainment	Education & entertainment		Miscellaneous	General index excluding fruits, vegetables, fish, seafood & energy
	Services and vehicle parts for transportation & communication			Educational expenses	Entertainment expenses		
Item	20	21	48	24	24	29	293
Weights (‰)	76.71	44.59	136.27	59.13	77.14	157.83	923.20
1989	84.73	55.65	55.13	49.86	75.01	63.25	66.77
1991	92.57	59.51	64.13	59.62	80.57	66.45	71.58
1996	100.55	67.01	86.65	85.77	92.25	75.32	84.29
2001	104.16	75.71	99.56	103.87	94.04	79.24	87.74
2006	101.85	87.46	98.43	103.70	91.19	86.12	89.62
2010	102.79	94.59	98.49	101.28	94.83	93.36	94.40
2011	101.85	96.49	99.00	101.14	96.22	94.54	95.58
2012	99.61	97.21	99.68	100.91	98.11	96.57	96.53
2013	99.31	98.21	100.01	100.88	98.87	97.07	97.17
2014	99.15	98.85	99.94	100.42	99.30	98.36	98.40
2015	99.78	99.14	99.91	100.11	99.64	98.63	99.17
2016	100.00	100.00	100.00	100.00	100.00	100.00	100.00
2017	100.33	101.71	100.29	100.43	100.12	101.90	101.04
2018	100.45	102.78	100.52	100.93	99.79	106.73	102.26
2019	98.99	103.65	101.27	101.12	100.96	107.35	102.76

Source: Directorate-General of Budget, Accounting and Statistics, Executive Yuan

Table 51. Indices of wholesale price

2016=100

Year	General index	Agriculture, forestry, fishing & animal husbandry products					Quarrying & mineral products	
			Farm products	Poultry & livestock products	Forest products	Fishery products		
Item	1 117	136	95	6	2	33	10	
Weights (‰)	1000.00	31.65	18.14	8.10	0.24	5.17	38.62	
1989	87.74	50.64	51.92	72.22	27.30	41.00	29.45	
1991	87.35	46.54	52.05	50.55	28.05	40.88	31.24	
1996	93.68	63.28	66.22	71.84	44.79	58.68	34.81	
2001	89.95	55.42	60.38	52.03	52.74	52.32	51.84	
2006	104.91	65.29	69.55	65.47	82.91	57.80	120.24	
2010	113.04	85.04	85.71	86.86	94.48	81.53	159.24	
2011	117.92	95.24	95.97	92.57	94.74	95.88	200.52	
2012	116.55	96.14	97.27	87.23	88.62	101.77	202.59	
2013	113.72	90.88	91.20	89.39	95.79	91.57	194.34	
2014	113.08	95.24	91.36	102.65	102.91	95.94	181.45	
2015	103.07	93.66	90.41	99.56	101.69	94.55	114.81	
2016	100.00	100.00	100.00	100.00	100.00	100.00	100.00	
2017	100.90	95.68	91.95	98.11	103.22	101.77	122.24	
2018	104.56	92.42	84.62	98.07	108.70	104.70	155.20	
2019	102.20	93.99	87.89	95.87	103.90	106.33	151.60	
Year	Manufacturing products	Food products & prepared animal feeds					Wearing apparel & clothing accessories	Leather, fur & related products
			Beverages	Tobaccos	Textile products			
Item	963	60	14	3	38	8	10	
Weights (‰)	898.77	27.93	7.02	3.10	18.51	4.64	4.47	
1989	96.57	61.96	77.30	43.89	70.94	73.12	52.24	
1991	96.58	59.83	76.30	43.88	78.61	75.63	59.61	
1996	101.90	73.53	75.07	44.27	80.21	85.59	62.57	
2001	96.85	64.75	77.03	45.74	81.83	96.92	74.72	
2006	108.41	75.05	95.51	66.66	84.70	87.00	77.16	
2010	112.95	94.63	98.27	78.42	95.81	85.17	84.93	
2011	115.54	100.33	98.58	80.84	105.56	88.05	86.59	
2012	113.51	100.98	101.64	87.40	103.47	92.69	89.70	
2013	110.75	101.47	102.49	89.97	102.72	93.53	93.37	
2014	110.19	103.01	101.94	95.19	102.97	96.33	100.93	
2015	102.58	99.87	100.27	97.35	101.83	101.31	99.69	
2016	100.00	100.00	100.00	100.00	100.00	100.00	100.00	
2017	100.20	99.79	98.25	112.43	97.51	95.12	99.16	
2018	102.85	99.87	99.09	121.28	99.19	94.62	98.62	
2019	100.28	100.23	99.75	124.59	99.82	96.04	99.38	

Source: Directorate-General of Budget, Accounting and Statistics, Executive Yuan



**Table 51. Indices of wholesale price (continued)**

2016=100

Year	Manufacturing products							
	Wood & bamboo products	Pulp, paper, paper products & printed matter	Petroleum & coal products	Chemical material, other chemical products & pharmaceuticals	Rubber & plastic products	Non-metallic mineral products	Basic metals	Fabricated metal products
Item	8	30	20	219	36	27	80	70
Weights (%)	2.11	14.56	44.04	127.31	24.49	16.58	57.39	39.99
1989	51.32	79.97	50.20	72.33	73.88	100.52	64.27	68.28
1991	54.71	80.58	59.06	71.79	72.22	102.94	59.93	68.35
1996	67.41	91.14	55.01	75.27	79.86	107.35	59.72	70.88
2001	73.92	85.12	73.56	74.60	80.28	99.68	55.19	71.75
2006	81.19	89.19	128.74	109.44	88.89	115.10	118.36	95.99
2010	92.96	107.62	154.05	123.48	101.61	123.06	140.63	106.86
2011	93.63	107.34	182.66	135.72	104.62	119.52	147.07	108.39
2012	94.11	102.23	192.24	128.41	104.69	116.90	132.71	104.25
2013	98.54	100.61	189.22	126.16	101.70	107.01	123.26	102.62
2014	101.89	100.83	182.25	123.85	100.57	105.03	122.99	104.22
2015	102.01	101.20	119.31	104.95	99.57	99.18	105.64	101.72
2016	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
2017	96.76	102.05	114.40	105.41	97.24	94.44	112.60	101.41
2018	99.65	106.58	139.09	112.53	98.76	94.95	120.69	103.87
2019	97.08	105.66	130.03	101.65	99.49	98.13	116.00	103.81

  

Year	Manufacturing products							Water supply, electricity & gas
	Electronic parts & components	Computers, electronic & optical products	Electrical equipment	Machinery & equipment	Transport equipment & parts	Furniture & fixtures	Miscellaneous products	
Item	62	55	58	95	37	10	23	8
Weights (%)	275.17	70.44	28.87	73.89	43.66	5.23	9.36	30.96
1989	273.49	-	-	79.90	80.07	61.29	59.16	75.15
1991	276.78	303.07	83.60	81.94	81.48	62.05	66.08	75.22
1996	262.76	293.83	86.42	88.74	89.39	70.02	79.19	75.05
2001	191.56	217.16	80.11	92.72	91.84	77.92	85.46	77.14
2006	136.77	155.35	95.32	91.69	90.21	85.42	86.64	82.95
2010	109.34	125.45	103.20	101.55	97.40	91.41	88.76	105.70
2011	101.43	118.13	105.46	102.82	98.76	92.36	91.09	106.58
2012	101.23	118.20	104.27	104.12	99.88	94.32	92.89	113.76
2013	99.90	113.45	101.99	99.12	99.03	94.45	96.43	121.72
2014	101.18	107.74	101.81	98.83	99.34	96.73	98.48	128.94
2015	101.32	103.36	100.61	97.83	99.34	100.45	99.76	113.45
2016	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
2017	96.16	96.09	98.58	95.54	97.38	97.13	96.98	99.35
2018	95.31	92.14	99.52	96.28	97.76	98.63	98.70	102.68
2019	93.82	89.56	100.77	98.33	98.32	101.48	101.04	103.78



# EXTERNAL TRADE

Table 52. Export orders by products

Million US\$

Year	Total	Chemicals	Plastics and articles thereof; rubber and articles thereof	Textile products	Basic metals and articles thereof	Electronic products
1991	74 953	1 521	5 041	12 164	5 729	7 787
1996	118 955	3 698	7 562	15 016	9 793	17 001
2001	135 715	4 899	8 070	13 177	12 505	26 123
2006	299 312	13 276	16 145	12 895	24 564	68 821
2010	406 714	21 780	23 636	11 504	27 137	99 345
2011	436 121	24 603	25 485	13 418	30 652	101 908
2012	441 004	23 258	24 893	13 069	28 701	103 346
2013	442 929	22 913	23 980	13 043	27 435	106 007
2014	472 814	22 785	23 765	13 167	28 515	118 682
2015	451 814	20 043	20 589	12 672	24 136	115 652
2016	444 536	19 063	19 743	11 910	23 589	118 649
2017	492 805	21 401	22 997	12 256	27 391	126 972
2018	511 823	23 914	24 706	12 250	29 610	132 854
2019	484 559	20 233	22 278	11 763	25 288	128 867

  

Year	Machineries	Electrical machinery products	Information & communication products	Transport equipments	Optical, photographic, cinematographic apparatus	Mineral products
1991	6 068	2 510	5 860	4 349	1 983	-
1996	7 871	4 133	18 150	5 583	2 374	-
2001	8 021	5 065	24 251	4 458	3 639	-
2006	13 967	17 157	61 735	8 545	20 645	-
2010	16 122	20 811	100 587	8 976	36 699	-
2011	20 849	17 892	109 029	10 658	36 718	-
2012	20 645	17 568	110 563	11 442	37 012	-
2013	20 079	16 218	116 191	11 928	34 437	-
2014	22 418	16 434	127 083	12 218	32 274	11 937
2015	20 647	15 591	133 234	11 647	27 001	10 485
2016	20 334	17 258	133 501	10 851	22 716	9 192
2017	23 181	19 191	147 569	11 398	26 956	10 900
2018	24 019	19 618	148 509	11 290	24 659	14 622
2019	20 004	19 134	144 803	11 796	22 592	13 565

Source: Ministry of Economic Affairs

**Table 53. Value of external trade**

Million

Year	In N. T. dollars			In U. S. dollars		
	Total exports	Total imports	Trade balance	Total exports	Total imports	Trade balance
2005	6 426 903	5 958 518	468 384	199 753	185 430	14 322
2006	7 351 935	6 715 964	635 972	225 904	206 442	19 462
2007	8 165 709	7 323 389	842 320	248 670	222 982	25 688
2008	8 089 844	7 656 495	433 349	257 755	244 197	13 558
2009	6 769 509	5 839 813	929 696	205 202	177 133	28 069
2010	8 757 385	8 073 600	683 785	277 352	255 746	21 606
2011	9 172 423	8 438 760	733 664	312 182	287 316	24 866
2012	9 037 337	8 185 595	851 742	305 315	276 466	28 848
2013	9 219 045	8 224 322	994 723	310 866	277 384	33 481
2014	9 663 422	8 502 862	1 160 560	319 413	281 096	38 318
2015	9 013 732	7 488 691	1 525 041	284 434	236 380	48 053
2016	8 997 181	7 385 919	1 611 262	279 175	229 199	49 975
2017	9 605 762	7 834 400	1 771 361	315 487	257 200	58 287
2018	10 069 089	8 587 123	1 481 966	334 007	284 792	49 216
2019	10 183 075	8 836 748	1 346 327	329 194	285 694	43 500

**Note:** All figures are compiled according to the General Trade System.

**Source:** Ministry of Finance

Table 54. Trade index

Reference year: 2016

Year	Value index		Quantum index		Unit value index		Net terms of trade (D)=(B)/(C)*100	Income terms of trade (E)=(A)*(D)/100
	Exports	Imports	Exports (A)	Imports	Exports (B)	Imports (C)		
2011	101.98	114.26	91.48	91.22	111.48	125.25	89.00	81.42
2012	100.60	110.89	91.45	89.08	110.00	124.49	88.36	80.81
2013	102.45	111.32	95.38	93.17	107.40	119.48	89.89	85.74
2014	107.41	115.12	99.56	98.07	107.88	117.38	91.90	91.50
2015	100.18	101.39	97.76	100.58	102.48	100.81	101.66	99.38
2016	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
2017	106.76	106.07	107.51	104.76	99.31	101.25	98.08	105.45
2018	111.91	116.26	110.82	107.15	100.99	108.51	93.07	103.14
2019	113.18	119.64	115.51	110.86	97.98	107.93	90.79	104.87

**Note:** All figures are compiled according to the General Trade System.**Source:** Ministry of Finance

**Table 55. Composition of exports and imports**

## I . Imports

Year	Total (Million US\$)	By the characteristic of goods (Million US\$)				By input factor intension (%)			
		Capital goods	Agricultural & industrial raw materials	Consumer goods	Others	Degree of labor intension			
						High	Mid	Low	
2005	185 430	33 475	133 611	16 633	1 711	36.18	49.39	14.43	
2006	206 442	33 347	154 627	17 064	1 405	34.15	49.80	16.05	
2007	222 982	34 212	168 986	18 350	1 434	33.47	48.36	18.17	
2008	244 197	30 923	192 584	19 151	1 540	30.32	44.91	24.77	
2009	177 133	23 242	134 189	18 047	1 654	33.16	48.82	18.02	
2010	255 746	38 612	191 828	23 185	2 121	34.39	47.45	18.16	
2011	287 316	36 751	220 673	27 479	2 412	32.27	46.58	21.15	
2012	276 466	34 057	212 031	28 218	2 160	31.28	48.38	20.34	
2013	277 384	36 117	208 395	29 712	3 160	30.69	48.73	20.58	
2014	281 096	37 770	207 771	31 452	4 103	32.27	48.73	19.00	
2015	236 380	37 217	162 611	32 006	4 547	36.50	47.35	16.15	
2016	229 199	41 109	153 280	31 525	3 285	35.28	49.45	15.27	
2017	257 200	40 556	178 952	33 993	3 700	34.00	50.40	15.60	
2018	284 792	41 867	203 289	36 113	3 523	32.71	51.33	15.96	
2019	285 694	50 797	194 062	37 101	3 733	32.89	53.86	13.24	
Year	By input factor intension (%)								
	Degree of capital intension			Degree of technique intension			Degree of energy intension		
	High	Mid	Low	High	Mid	Low	High	Mid	Low
2005	42.92	53.08	3.99	55.11	32.52	12.37	36.06	41.13	22.81
2006	44.62	50.84	4.54	54.55	33.60	11.85	37.91	42.68	19.41
2007	45.23	50.08	4.69	53.43	34.64	11.93	40.28	41.52	18.20
2008	47.98	47.12	4.91	50.36	37.70	11.94	46.99	38.39	14.62
2009	44.65	50.61	4.74	54.15	33.75	12.10	40.52	42.26	17.22
2010	44.70	51.11	4.18	53.35	35.13	11.51	40.84	40.85	18.31
2011	45.64	49.91	4.45	53.20	34.96	11.83	43.67	39.62	16.71
2012	43.76	51.60	4.64	54.52	33.96	11.51	45.26	38.31	16.43
2013	44.38	50.54	5.09	54.51	34.28	11.21	44.62	38.60	16.78
2014	43.90	50.28	5.82	54.67	34.14	11.19	42.58	39.83	17.60
2015	43.71	49.23	7.05	52.05	36.03	11.92	34.74	45.65	19.60
2016	44.92	48.69	6.40	52.55	35.92	11.52	32.12	48.97	18.92
2017	46.00	48.00	6.00	54.51	33.63	11.85	33.96	47.82	18.22
2018	46.38	47.94	5.68	56.38	32.20	11.42	35.91	46.97	17.12
2019	44.05	50.14	5.81	55.79	32.95	11.26	31.70	50.45	17.85

**Note:** All figures are compiled according to the General Trade System.

**Source:** Ministry of Finance

Table 55. Composition of exports and imports (continued)

## II. Exports

Million US\$

Year	Total (Million US\$)	By the characteristic of goods (Million US\$)				By input factor intension (%)			
		Capital goods	Intermediate products	Consumer goods	Others	Degree of labor intension			
						High	Mid	Low	
2005	199 753	27 309	149 297	22 069	1 077	32.33	42.92	24.74	
2006	225 904	26 846	174 362	23 660	1 037	31.94	43.74	24.31	
2007	248 670	28 351	195 512	23 804	1 003	32.34	41.43	26.22	
2008	257 755	28 721	203 674	24 237	1 123	32.33	39.80	27.86	
2009	205 202	21 309	161 906	20 915	1 072	30.81	43.56	25.63	
2010	277 352	29 303	217 387	29 444	1 219	31.65	43.29	25.05	
2011	312 182	33 633	240 758	36 514	1 277	30.14	43.52	26.34	
2012	305 315	33 749	238 077	32 189	1 299	30.28	43.02	26.70	
2013	310 866	32 648	244 494	32 079	1 644	29.21	43.99	26.80	
2014	319 413	34 235	251 848	31 630	1 701	29.79	45.57	24.64	
2015	284 434	33 362	220 763	28 539	1 770	31.91	48.83	19.26	
2016	279 175	33 737	217 302	26 407	1 729	30.46	51.66	17.88	
2017	315 487	37 870	248 112	27 664	1 840	28.43	53.45	18.12	
2018	334 007	40 460	263 251	28 459	1 838	27.70	52.72	19.59	
2019	329 194	44 124	253 745	29 446	1 879	27.31	53.86	18.83	
Year	By input factor intension (%)								
	Degree of capital intension			Degree of technique intension			Degree of energy intension		
	High	Mid	Low	High	Mid	Low	High	Mid	Low
2005	55.38	40.39	4.22	57.65	33.12	9.22	26.21	44.59	29.19
2006	59.64	36.48	3.88	59.54	32.10	8.35	25.82	46.74	27.44
2007	62.07	34.25	3.68	58.87	33.33	7.79	28.26	44.52	27.22
2008	62.41	33.86	3.73	57.14	35.60	7.24	30.34	42.52	27.13
2009	61.61	34.54	3.85	59.35	33.42	7.22	28.42	45.70	25.89
2010	62.13	34.32	3.54	60.72	32.64	6.63	27.65	44.82	27.53
2011	60.58	35.80	3.62	59.04	34.40	6.55	28.77	44.71	26.52
2012	61.20	34.93	3.86	57.53	35.53	6.93	29.31	45.55	25.14
2013	62.60	33.55	3.85	58.60	34.56	6.84	29.42	45.78	24.80
2014	62.36	33.71	3.93	59.30	33.57	7.13	27.84	48.23	23.93
2015	59.01	36.69	4.30	60.29	32.00	7.71	23.94	51.79	24.27
2016	59.79	36.20	4.02	62.04	30.59	7.36	22.74	54.66	22.60
2017	61.16	35.09	3.75	62.81	30.13	7.07	22.85	55.52	21.62
2018	61.38	34.93	3.69	62.27	30.67	7.06	24.32	55.25	20.42
2019	60.24	36.08	3.68	63.76	29.15	7.09	21.73	56.69	21.58



Table 56. External trade by regions and principal countries

Million US\$

Year	Total		Asia (1)		Hong Kong		Japan		Korea
	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports	Exports
2005	199 753	185 430	134 347	124 635	34 220	1 901	15 246	46 685	5 945
2006	225 904	206 442	152 826	142 945	37 669	1 695	16 509	46 849	7 253
2007	248 670	222 982	171 566	151 010	38 274	1 635	16 144	46 710	7 913
2008	257 755	244 197	176 996	165 927	33 022	1 353	17 819	47 088	8 793
2009	205 202	177 133	145 955	122 746	29 708	1 048	14 607	36 751	7 366
2010	277 352	255 746	199 359	176 893	38 234	1 567	18 445	52 910	10 765
2011	312 182	287 316	223 752	196 985	40 682	1 586	19 120	53 149	12 486
2012	305 315	276 466	222 667	192 929	38 491	2 585	19 518	48 342	11 984
2013	310 866	277 384	229 500	191 837	41 183	1 585	19 391	43 690	12 223
2014	319 413	281 096	235 435	194 081	43 772	1 735	20 129	41 979	12 857
2015	284 434	236 380	208 286	160 282	39 116	1 468	19 557	38 865	12 772
2016	279 175	229 199	205 959	156 045	38 254	1 330	19 471	40 620	12 531
2017	315 487	257 200	235 105	175 661	41 165	1 512	20 574	41 939	14 416
2018	334 007	284 792	246 788	195 754	41 401	1 409	22 801	44 151	15 739
2019	329 194	285 694	237 201	192 790	40 331	1 062	23 282	44 034	16 917
Year	Asia (1)							Europe	
	Korea	Singapore		Malaysia		Thailand			
	Imports	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports
2005	13 357	8 104	4 982	4 310	5 258	3 872	2 916	23 642	22 142
2006	15 095	9 379	5 119	4 979	6 118	4 633	3 355	26 151	21 918
2007	15 165	10 613	4 778	5 421	6 321	5 262	3 630	28 721	23 996
2008	13 190	11 777	4 860	5 542	6 917	4 975	3 262	30 014	24 982
2009	10 558	8 699	4 814	4 082	4 701	3 873	2 701	22 642	19 776
2010	16 224	12 198	7 675	5 975	7 861	5 355	3 840	29 501	26 934
2011	18 186	16 978	8 022	6 924	8 793	6 214	4 405	31 364	30 775
2012	15 305	20 199	8 172	6 588	7 981	6 665	3 709	28 872	29 507
2013	16 163	19 609	8 606	8 243	8 255	6 432	3 793	27 906	31 012
2014	15 286	20 678	8 435	8 670	8 953	6 194	4 408	29 071	32 036
2015	13 453	17 396	7 171	7 197	6 734	5 770	4 043	25 869	28 491
2016	14 650	16 147	7 526	7 814	6 289	5 490	3 818	26 124	28 892
2017	16 893	17 620	8 711	10 368	7 178	6 381	4 357	28 778	31 315
2018	19 525	17 324	8 416	10 602	9 305	6 168	4 581	31 278	34 580
2019	17 734	18 186	7 923	9 400	10 379	5 518	4 252	29 771	36 543

Note: All figures are compiled according to the General Trade System.

(1) Including Middle East

Source: Ministry of Finance

Table 56. External trade by regions and principal countries (continued)

Million US\$

Year	Europe						North America, Central America and South America		U.S.A.
	Germany		Netherlands		United Kingdom		Exports	Imports	
	Exports	Imports	Exports	Imports	Exports	Imports			Exports
2005	4 470	6 304	4 399	2 056	3 260	1 757	34 829	26 847	29 163
2006	5 022	6 299	4 419	2 334	3 509	1 857	38 897	29 587	32 475
2007	5 195	7 208	4 426	2 769	3 622	1 995	39 567	34 321	32 130
2008	5 759	7 738	4 588	2 348	3 633	1 941	39 949	35 691	30 884
2009	4 721	5 745	4 246	1 868	2 985	1 291	29 518	23 911	23 620
2010	6 549	8 603	5 296	3 255	3 641	1 808	39 524	34 868	31 566
2011	6 935	9 884	4 609	2 963	4 628	2 118	46 032	36 853	36 451
2012	5 685	8 122	4 438	3 616	5 071	2 069	42 561	34 063	33 120
2013	5 671	8 497	4 498	4 669	4 330	1 923	41 692	37 134	32 630
2014	6 207	9 632	5 082	3 192	4 234	1 983	44 065	38 071	35 033
2015	5 982	8 765	4 181	2 807	3 905	1 991	42 720	35 704	34 448
2016	5 897	8 569	4 469	4 145	3 643	1 843	40 549	33 608	33 396
2017	6 429	9 198	4 972	3 476	3 756	1 944	44 692	36 297	36 773
2018	7 058	9 969	5 856	3 883	3 858	2 076	48 119	40 518	39 490
2019	6 522	9 401	5 863	7 879	3 576	2 019	54 561	42 861	46 243
Year	U.S.A.	Oceania			Africa		Others		
		Imports	Exports	Imports	Exports	Imports	Exports	Imports	
	Imports	Exports	Imports	Exports	Imports	Exports	Imports		
2005	21 879	3 040	5 402	2 410	4 735	1 668	3 618	2 228	2 786
2006	23 839	3 395	6 124	2 747	5 364	2 096	5 548	2 540	320
2007	27 508	4 045	7 144	3 293	6 164	2 158	6 182	2 612	329
2008	27 333	4 490	9 209	3 592	8 350	2 889	8 005	3 417	382
2009	18 736	2 928	6 590	2 413	6 008	2 255	3 832	1 904	277
2010	26 274	4 018	9 914	3 208	9 036	2 245	7 016	2 705	121
2011	27 025	4 572	11 991	3 719	10 991	2 968	10 600	3 494	113
2012	24 844	4 756	10 375	3 712	9 462	3 127	9 485	3 333	108
2013	27 785	5 027	9 051	3 834	8 106	3 385	8 257	3 356	93
2014	29 338	4 617	9 436	3 645	7 589	2 820	7 401	3 405	70
2015	28 362	4 098	8 465	3 277	6 854	2 364	3 363	1 096	75
2016	27 087	3 703	7 532	2 948	6 118	1 913	3 037	926	85
2017	28 396	3 871	10 077	2 931	8 235	1 869	3 755	1 171	94
2018	33 105	4 235	11 296	3 395	9 552	2 106	2 542	1 481	102
2019	34 831	4 007	11 814	3 237	10 063	2 117	1 586	1 538	100

# **AGRICULTURE, FORESTRY AND FISHING**

Table 57. Indices of agricultural, forestry and fishery production

2016=100

Year	General index	Crop products									
		Group index	Common crops			Special crops	Fruits	Vegetables	Mushrooms	Flowers	
			Sub-group index	Rice	Coarse grain						
No. of commodities	203	106	10	1	9	8	27	41	5	15	
1950	23.33	59.38	120.79	112.07	200.36	138.26	6.60	27.96	-	-	
1971	67.08	119.40	202.19	184.30	359.22	206.38	49.40	86.70	649.50	-	
1981	94.65	127.87	181.21	189.61	163.48	209.26	80.09	127.42	757.24	11.81	
1991	120.45	123.91	149.73	145.50	189.74	201.42	109.83	111.95	181.89	48.50	
2001	119.63	113.02	104.42	108.45	88.93	180.86	110.44	115.64	85.21	84.24	
2010	105.47	105.36	90.87	91.42	88.39	133.51	119.28	102.60	77.29	92.12	
2011	109.39	111.87	102.32	105.08	91.80	128.21	125.22	109.05	81.56	98.82	
2012	107.49	107.25	102.98	107.21	86.77	118.94	119.42	100.44	90.38	95.48	
2013	106.25	106.72	96.97	100.14	84.87	117.94	120.86	102.44	87.23	97.30	
2014	107.41	110.15	107.91	109.20	102.97	120.46	120.22	105.21	84.94	98.00	
2015	103.77	105.12	99.85	99.71	100.41	115.19	114.96	99.92	89.10	100.04	
2016	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	
2017	105.70	109.65	109.11	110.58	104.67	105.88	119.13	104.70	94.83	98.81	
2018	108.47	113.14	117.76	123.05	101.78	107.73	121.12	107.53	99.34	99.40	
2019 p	104.18	104.49	107.81	112.96	92.23	106.94	108.99	99.74	87.76	100.16	
Year	Forestry products			Livestock products			Fishery products				
	Group index	Saw timber	Fire & charcoal wood and bamboo & by-products	Group index	Hogs	Other livestock	Group index	Far sea fisheries	Offshore fisheries	Coastal & inland water fisheries	Aquaculture fisheries
No. of commodities	13	5	8	14	1	13	70	12	23	22	13
1950	1 518.28	2 850.05	796.02	5.14	6.08	3.94	9.32	1.50	34.61	85.67	11.06
1971	4 444.29	11 355.40	730.98	26.32	39.91	13.98	67.48	47.07	305.15	98.33	33.18
1981	2 448.86	5 080.49	1 033.08	54.04	72.86	34.89	112.92	56.86	437.04	133.29	101.71
1991	777.05	538.43	982.49	101.52	136.34	65.46	153.36	123.59	285.11	140.76	146.92
2001	347.58	107.61	570.86	109.73	116.31	104.32	152.98	157.69	192.28	165.59	129.73
2010	217.25	72.36	374.43	98.71	102.23	95.77	117.37	114.19	102.04	115.34	125.73
2011	214.50	93.84	340.02	102.00	104.57	99.79	115.71	113.92	118.19	96.47	119.16
2012	222.22	137.49	310.34	100.55	106.12	95.77	118.82	121.16	112.94	112.11	118.52
2013	241.48	169.08	316.80	98.59	103.39	94.47	117.32	115.61	103.82	100.90	125.35
2014	207.19	220.97	192.83	98.70	98.58	98.82	116.20	116.02	110.68	105.90	119.22
2015	125.57	133.55	117.24	98.14	100.63	96.01	110.48	111.28	95.62	94.35	115.88
2016	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
2017	84.90	89.11	81.40	99.67	98.09	100.88	105.18	97.26	119.58	109.46	108.93
2018	61.23	91.11	36.35	102.66	100.19	104.55	105.34	99.30	117.48	104.22	108.36
2019 p	73.22	122.64	32.05	103.94	99.12	107.64	103.64	93.42	156.42	127.15	95.61

Note: Data do not include Kinmen County and Lienchiang County before 2010.

Source: Council of Agriculture, Executive Yuan

**Table 58. Farm households and population**

Households, Persons

End of Year	Households						Persons
	Total	Having cultivated land				Without cultivated land	
		Cultivated land all self-owned	Cultivated land part self-owned	self-owned 50% & over	Cultivated land all non-self-owned		
2004	721 418	611 280	76 909	38 685	28 523	4 706	3 225 165
2005	767 316	671 740	52 517	26 371	39 074	3 985	3 400 036
2006	772 230	669 329	61 551	28 638	37 341	4 009	3 314 523
2007	772 977	667 131	77 169	37 305	24 641	4 036	3 231 952
2009	775 816	659 134	83 539	39 139	29 024	4 119	3 075 332
2010	776 724	673 944	54 633	26 533	42 754	5 393	2 961 874
2011	775 496	668 483	62 066	29 764	39 554	5 393	2 906 643
2012	775 455	661 298	81 762	33 879	27 620	4 735	2 852 588
2013	774 963	662 726	78 122	33 457	30 162	3 953	2 799 683
2014	774 237	649 466	86 676	38 351	34 989	3 106	2 747 899
2015	775 258	675 377	50 948	23 127	44 139	4 794	2 698 300
2016	775 472	622 798	111 903	47 948	34 626	6 145	2 818 091
2017	775 310	619 638	111 259	47 271	36 973	7 440	2 777 743
2018	775 070	601 303	126 660	56 195	38 747	8 360	2 760 296

**Note:** 1. Data do not include Kinmen County and Lienchiang County.

2. The figures in 2005, 2010, and 2015 came from the Agricultural, Forestry, Fishery and Husbandry Census by DGBAS, Executive Yuan.

**Source:** 1. Agriculture and Food Agency, COA, Executive Yuan

2. Directorate-General of Budget, Accounting and Statistics, Executive Yuan

Table 59. Quantity and value of major farm products

MTs, Thousand NT\$

Year	Paddy rice		Betel nuts		Pineapples		Mangos	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
1946	1 173 105	28 040 289	-	-	17 625	98 876	2 017	16 768
1971	2 913 559	12 894 373	10 075	78 835	358 529	449 241	43 467	152 931
1981	3 004 808	46 369 380	24 358	694 461	181 039	940 726	152 062	1 530 763
1991	2 311 638	38 738 610	111 090	8 887 200	241 477	2 897 724	144 730	2 749 870
2001	1 723 895	32 828 360	165 076	13 206 057	388 691	5 052 978	212 875	4 640 673
2010	1 451 011	30 355 766	131 737	8 288 370	420 172	7 042 078	135 293	5 032 899
2011	1 666 273	38 145 866	129 316	8 082 247	401 367	6 742 965	169 380	6 478 771
2012	1 700 229	39 746 469	124 091	8 065 946	392 211	7 220 603	167 247	7 016 029
2013	1 589 564	36 983 554	124 054	8 435 695	413 465	8 008 823	215 168	9 181 220
2014	1 732 210	41 479 191	121 435	10 686 248	456 243	9 143 108	152 932	7 620 614
2015	1 581 732	37 419 791	113 182	10 186 357	493 998	10 215 886	166 260	6 974 608
2016	1 587 776	37 976 695	99 992	9 199 261	527 161	12 103 611	106 766	8 414 265
2017	1 754 049	40 549 053	102 165	11 401 603	553 531	13 019 045	150 559	7 724 153
2018	1 949 796	42 986 458	102 918	9 159 703	432 084	9 194 740	146 672	7 007 002
2019	1 791 211	39 891 467	103 767	5 759 062	431 084	8 845 846	167 791	7 694 186
Year	Watermelons		Sugar-cane (Refined)		Tea		Pears	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
1946	6 202	20 527	1 006 526	112 399	2 919	135 915	-	-
1971	277 519	588 331	7 881 040	2 127 880	26 984	577 918	35 181	279 525
1981	307 786	1 736 409	8 422 015	7 234 511	25 223	1 566 285	118 199	1 733 946
1991	350 038	3 675 399	4 536 231	5 761 013	21 380	1 817 300	127 495	2 677 395
2001	330 082	4 291 062	2 180 288	2 579 280	19 837	3 570 596	100 565	3 318 648
2010	225 925	2 485 170	665 359	794 306	17 467	6 410 527	174 858	6 120 022
2011	246 643	2 843 300	653 952	839 674	17 310	6 894 424	150 013	5 760 495
2012	243 067	3 159 871	548 455	630 723	14 902	6 735 506	137 911	5 981 216
2013	212 690	2 764 964	505 526	530 802	14 718	6 917 312	109 105	4 797 348
2014	211 330	3 090 485	502 706	519 798	15 200	7 523 876	134 549	6 723 438
2015	217 466	2 763 563	618 264	635 575	14 405	6 827 835	127 016	5 973 577
2016	201 133	3 643 523	526 843	510 511	13 018	7 602 478	111 424	7 481 031
2017	210 661	2 677 505	455 144	470 619	13 443	7 640 177	117 694	7 454 766
2018	220 846	3 118 345	578 778	557 942	14 738	7 477 440	118 649	6 815 188
2019	176 004	2 520 380	532 569	512 864	14 637	7 011 335	91 032	5 039 529

**Note:** Data do not include Kinmen County and Lienchiang County before 2010.**Source:** Agriculture and Food Agency, COA, Executive Yuan

**Table 59. Quantity and value of major farm products (continued)**

M.T., Thousand NT\$

Year	Peanuts		Bamboo shoot		Grapes		Japanese apricot	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
1946	37 379	487 120	-	-	26	748	-	-
1971	97 579	744 899	56 123	178 764	20 227	177 768	14 688	49 651
1981	81 713	2 544 726	252 714	1 948 537	69 818	1 122 966	74 492	640 737
1991	83 816	3 520 272	382 933	2 871 998	113 610	2 726 640	61 705	1 851 150
2001	56 087	2 366 889	322 959	3 520 248	85 018	2 380 484	55 956	2 042 405
2010	65 036	3 467 744	292 209	7 725 999	102 831	4 414 535	49 695	873 141
2011	68 231	3 159 771	294 938	7 992 818	107 280	4 655 962	42 010	861 615
2012	56 845	2 491 497	278 903	7 471 248	99 967	4 575 507	31 880	556 941
2013	46 809	2 662 031	267 092	7 155 400	97 256	4 891 954	30 706	666 317
2014	68 513	4 454 733	277 201	7 280 672	82 199	5 450 649	34 709	690 355
2015	62 083	3 481 015	247 449	6 700 685	85 435	5 115 837	32 473	764 033
2016	61 832	4 180 451	239 800	7 344 125	79 680	5 971 248	16 613	579 115
2017	63 287	4 587 050	257 895	10 775 644	92 602	6 641 397	15 565	651 090
2018	59 471	3 185 878	250 989	12 782 859	97 799	6 306 090	17 382	545 912
2019	53 198	2 986 003	247 958	13 610 438	88 635	6 957 853	8 270	323 680

  

Year	Bananas		Cabbage		Shiitake		Garlic bulbs	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
1946	53 412	332 317	26 728	137 414	-	-	-	-
1971	470 595	1 122 131	200 234	265 099	-	-	16 629	71 815
1981	185 309	1 214 736	207 852	1 287 597	-	-	47 926	432 251
1991	196 663	2 163 293	153 811	1 153 582	3 682	2 651 040	42 962	1 288 860
2001	204 724	2 456 687	349 719	2 378 087	4 866	2 967 977	54 103	1 839 499
2010	287 895	3 978 714	329 149	3 097 297	4 540	3 845 349	44 916	3 144 130
2011	305 740	4 601 381	367 307	3 460 109	4 716	4 462 406	63 939	2 367 004
2012	295 265	5 642 506	341 279	5 155 979	5 334	5 259 521	46 759	2 524 988
2013	291 292	6 522 039	354 390	5 400 896	5 187	5 969 756	43 894	2 459 814
2014	299 900	7 251 579	376 417	4 806 844	5 025	6 437 167	59 496	1 887 168
2015	274 066	7 512 153	361 317	5 889 471	5 119	6 249 222	49 716	2 357 465
2016	257 559	9 766 625	399 667	8 247 533	5 789	7 582 185	34 667	3 310 009
2017	356 017	12 321 747	422 320	5 895 591	5 276	7 855 529	36 543	3 822 411
2018	356 238	7 345 637	431 968	5 624 221	5 665	8 661 381	52 016	2 818 216
2019	342 629	7 321 973	427 942	7 352 048	4 700	7 080 444	39 667	3 211 863

**Table 60. Consumption and production of chemical fertilizers, and agricultural chemicals**

MTs, Thousand NT\$

Year	Consumption of chemical fertilizers		Production of chemical fertilizers		Consumption of agricultural chemicals	
	Quantity	Value	Quantity	Value	Quantity (1)	Value (Million NT\$)
1946	43 178	-	-	-	-	-
1971	839 968	2 113 122	-	-	-	-
1981	1 335 889	6 719 290	1 502 424	6 953 486	-	-
1991	1 409 426	7 534 122	1 525 692	6 997 392	-	-
2001	1 294 910	6 019 850	1 381 364	5 100 741	8 476	5 169
2010	1 030 819	8 875 676	1 352 858	9 711 934	7 851	8 852
2011	1 008 025	10 983 937	1 463 569	12 646 880	8 254	5 774
2012	1 010 722	12 174 233	1 417 442	13 800 171	9 396	6 760
2013	999 908	11 081 692	1 467 269	13 231 980	9 632	6 664
2014	972 277	9 453 794	1 342 107	10 420 609	8 619	6 943
2015	959 623	9 798 378	1 195 553	10 700 169	9 295	7 692
2016	979 215	8 808 109	1 267 510	8 929 201	9 504	7 643
2017	920 965	7 195 467	1 607 175	11 440 143	10 549	8 805
2018	917 417	7 925 021	1 561 067	11 876 350	9 175	8 114
2019	837 412	7 637 169	1 550 031	12 066 704	8 983	8 226

**Note:** (1) The quantity is statistics on effective composition of agricultural chemicals.

**Source:** 1. Agriculture and Food Agency, COA, Executive Yuan

2. Bureau of Animal and Plant Health Inspection and Quarantine, COA, Executive Yuan



Table 61. Quantity and value of forestry production

M<sup>3</sup>, Thousand NT\$

Year	Grand total value	Main-products						
		Total value	Saw-timber					
			Sub-total		Conifers		Hardwoods	
			Quantity	Value	Quantity	Value	Quantity	Value
1971	3 170 917	3 073 822	1 217 791	2 705 524	693 600	2 127 304	524 191	578 220
1981	4 643 007	3 908 752	529 684	3 667 667	331 754	2 930 070	197 931	737 597
1991	1 305 620	464 821	74 190	376 179	49 752	308 193	24 438	67 986
2001	597 494	111 693	26 401	96 031	13 919	60 586	12 482	35 444
2006	518 773	232 212	26 979	213 967	16 135	183 265	10 844	30 702
2010	390 062	88 363	19 131	61 174	10 598	40 547	8 533	20 627
2011	388 278	103 558	23 273	86 622	17 652	72 772	5 620	13 850
2012	374 936	147 614	24 898	129 043	21 341	118 634	3 557	10 409
2013	431 659	184 626	26 785	157 134	21 253	140 140	5 532	16 994
2014	381 613	234 872	37 899	205 172	33 167	190 675	4 732	14 496
2015	243 783	165 243	29 870	124 912	26 055	113 172	3 815	11 740
2016	206 886	128 024	24 768	93 943	19 706	78 353	5 062	15 590
2017	167 296	110 023	20 591	83 753	16 752	71 338	3 840	12 415
2018	139 194	108 534	21 876	86 056	17 337	70 542	4 540	15 514
2019	156 430	132 449	30 143	112 155	25 701	96 978	4 442	15 177

  

Year	Main-products						Value of by-products
	Firewood		Mill-wood		Bamboo		
	Quantity	Value	Quantity (1)	Value	Quantity (1,000 Pieces)	Value	
1971	346 994	177 002	233 060	104 877	14 403	86 419	97 095
1981	64 898	74 892	58 095	95 771	10 060	70 422	734 255
1991	19 320	23 184	13 182	41 704	4 319	23 754	840 799
2001	5 953	8 573	1 727	2 635	594	4 455	485 800
2006	9 224	13 957	31	47	544	4 241	286 562
2010	296	381	41	67	3 261	26 742	301 699
2011	740	992	200	330	1 881	15 614	284 720
2012	2 542	3 701	40	66	1 742	14 805	227 321
2013	8 123	14 611	15	26	1 512	12 855	247 034
2014	4 189	9 063	80	132	2 384	20 505	146 741
2015	7 762	19 764	6	10	2 390	20 557	78 540
2016	7 142	18 333	51	82	1 801	15 666	78 861
2017	4 825	15 836	95	146	1 169	10 288	57 273
2018	5 831	16 528	680	1 037	552	4 913	30 660
2019	4 632	13 130	917	1 397	648	5 768	23 981

Note: Data do not include Kinmen County and Lienchiang County before 2010.

(1) Before 1992, its unit of measurement is metric tons.

Source: Council of Agriculture, Executive Yuan

**Table 62. Quantity and value of fishery production**

MTs, Thousand NT\$

Year	Total		Farsea fisheries		Offshore fisheries		Coastal fisheries	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
1946	51 474	1 162 665	2 732	93 409	21 823	330 470	16 949	367 905
1971	650 167	8 350 345	293 014	3 570 401	247 429	2 627 589	30 515	381 179
1981	911 676	50 351 120	321 567	15 235 194	346 203	16 584 578	39 265	1 922 721
1991	1 316 651	83 526 073	714 263	32 203 991	266 945	17 457 328	41 231	3 516 865
2001	1 316 904	90 128 416	795 622	46 659 957	158 969	12 193 237	48 923	4 315 518
2010	1 167 080	92 499 034	688 288	43 319 996	128 289	8 924 129	34 731	3 596 694
2011	1 222 655	106 321 684	702 133	47 531 566	163 579	12 726 058	28 117	3 594 362
2012	1 256 082	106 174 291	726 775	50 139 586	148 279	13 730 358	33 027	4 395 228
2013	1 274 282	101 649 634	772 714	43 828 751	125 021	12 530 670	27 566	4 045 555
2014	1 407 622	104 279 897	899 040	43 644 435	139 928	14 273 950	29 407	4 077 160
2015	1 299 261	92 393 154	825 024	39 172 116	135 298	9 997 719	25 264	3 589 385
2016	1 003 861	86 518 575	584 135	37 714 515	138 120	10 641 077	26 215	4 114 796
2017	1 026 496	90 255 206	556 412	36 542 281	157 727	13 082 053	26 681	4 037 503
2018	1 096 890	89 736 599	621 317	35 740 304	161 529	13 210 104	26 393	3 605 905
2019	1 039 383	89 426 051	560 744	34 037 869	154 965	13 499 709	31 012	4 401 869

**Note:** 1. Data do not include Kinmen County and Lienchiang County before 2010.

2. After 2010, the quantity of the inland water aquaculture excludes Ornamental fish culture.

**Source:** Fisheries Agency, COA, Executive Yuan

**Table 62. Quantity and value of fishery production (continued)**

MTs, Thousand NT\$

Year	Marine aquaculture		Inland water fisheries		Inland water aquaculture	
	Quantity	Value	Quantity	Value	Quantity	Value
1946	-	-	-	-	9 970	370 881
1971	17 446	306 876	1 440	20 098	60 323	1 444 202
1981	31 002	3 243 345	2 715	115 654	170 924	13 249 628
1991	31 192	2 597 564	2 327	91 686	260 693	27 658 639
2001	26 763	3 343 174	609	30 202	286 018	23 586 328
2010	41 410	5 953 314	77	5 591	274 286	30 699 310
2011	38 098	6 079 394	69	6 173	290 660	36 384 131
2012	30 390	4 247 021	66	5 519	317 543	33 656 579
2013	31 706	6 997 706	29	2 014	317 246	34 244 937
2014	29 287	6 168 541	30	1 343	309 930	36 114 468
2015	24 737	6 255 335	103	7 015	288 835	33 371 585
2016	25 267	5 601 349	88	6 265	230 036	28 440 573
2017	26 799	5 695 826	2 624	113 034	256 253	30 784 509
2018	24 738	5 211 442	3 738	227 501	259 175	31 741 345
2019	22 699	4 672 802	156	17 299	269 808	32 796 503

Table 63. Quantity and value of major livestock production

Thousand NT\$

Year	Hogs		Chickens		Ducks		Cow milk		Eggs	
	Quantity (Heads)	Value	Quantity (1,000 Heads)	Value	Quantity (1,000 Heads)	Value	Quantity (MTs)	Value	Quantity (1,000 Pieces)	Value
1946	303 307	1 637 858	-	-	-	-	908	45 390	-	-
1971	4 374 787	9 482 536	33 405	1 806 592	14 606	589 118	17 906	97 404	1 055 657	1 376 731
1981	7 738 018	42 682 384	115 670	15 507 978	32 026	3 778 051	50 154	876 195	2 524 964	6 289 243
1991	13 525 987	53 277 428	233 971	18 226 838	36 295	3 303 534	225 656	4 064 065	4 289 316	5 750 367
2001	10 420 000	46 255 141	376 196	27 271 501	32 142	2 928 077	345 970	7 389 567	7 806 914	11 423 219
2010	8 575 777	70 701 364	334 761	36 691 825	30 301	5 344 711	336 036	8 138 802	7 212 272	16 918 126
2011	8 786 528	75 158 291	350 120	41 959 469	30 515	5 646 099	350 894	9 056 576	7 149 999	18 968 647
2012	8 965 036	66 752 941	324 521	37 457 720	28 952	5 225 385	348 489	9 102 535	7 236 932	21 173 707
2013	8 720 858	66 463 490	307 487	38 113 220	33 955	6 372 921	358 146	9 354 763	7 255 761	20 593 944
2014	8 067 477	76 841 266	326 298	41 588 121	38 332	7 589 795	363 145	9 503 514	7 313 297	23 409 457
2015	8 229 635	71 739 210	321 139	41 153 784	35 061	8 566 626	375 499	9 826 805	7 398 899	24 056 558
2016	8 144 235	71 396 192	340 754	42 057 514	36 184	8 460 642	378 488	9 905 042	7 787 684	24 791 004
2017	7 947 275	75 558 002	335 214	39 393 060	37 719	8 039 319	386 362	10 111 090	7 943 973	20 658 139
2018	8 073 454	70 359 506	353 047	44 120 226	37 073	7 591 471	419 342	10 974 175	7 781 910	22 992 520
2019	7 979 588	70 944 362	370 644	40 255 246	38 294	8 036 637	431 879	11 302 281	8 133 181	23 833 702

**Note:** 1. Data do not include Kinmen County and Lienchiang County before 2010.

2. In the table, data excluding cow milk and eggs is heads slaughtered.

**Source:** 1. Council of Agriculture, Executive Yuan

2. Agriculture and Food Agency, COA, Executive Yuan

# INDUSTRY

Table 64. Indices of industrial production

2016=100

Year	General	Mining & quarrying	Crude petroleum & natural gas extraction	Quarrying of stone, sand, clay & other mining	Manufacturing	Food & prepared animal feeds	Beverages	Tobacco products	Textiles mills	Wearing apparel & clothing accessories	Leather, fur & related products	
												Weights (%)
1981	-	-	-	-	17.30	70.46	53.87	100.52	93.81	1499.48	1081.19	
1991	-	-	-	-	33.58	98.32	84.00	112.36	125.72	1133.02	1411.89	
1996	42.38	237.61	-	-	40.86	109.70	102.62	98.20	140.81	635.04	591.88	
2001	49.84	189.11	-	-	47.81	95.15	105.13	81.65	143.70	397.73	304.96	
2006	69.55	157.59	145.42	159.19	67.74	90.23	81.37	59.57	115.58	216.19	258.19	
2010	87.72	140.64	91.20	143.55	86.99	92.59	95.88	70.34	106.84	140.11	200.33	
2011	90.01	131.07	100.85	132.93	89.37	93.55	103.52	78.28	99.36	119.67	178.18	
2012	90.46	127.63	132.35	127.41	89.87	93.95	107.39	82.63	98.54	115.78	164.78	
2013	93.36	117.07	114.49	117.55	92.93	95.20	101.49	82.11	101.88	115.84	160.19	
2014	99.34	118.44	115.50	118.98	99.28	95.47	102.60	81.37	103.59	114.11	159.60	
2015	98.07	110.70	111.78	110.52	98.13	96.36	101.57	81.04	104.74	105.97	122.11	
2016	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	
2017	105.00	98.00	84.38	100.52	105.27	100.57	102.81	119.06	97.84	89.27	103.83	
2018	108.83	94.42	64.28	100.31	109.41	102.15	99.27	116.03	94.79	81.29	97.44	
2019	108.45	90.96	56.59	97.84	108.92	105.95	94.15	114.52	90.02	79.47	99.20	
Year	Manufacturing											
	Wood & bamboo products	Pulp, paper & paper products	Printing & reproduction of recorded media	Petroleum & coal products	Chemical, fertilizers, nitrogen compounds, plastic & rubber, man-made fibres	Other chemical products	Pharmaceuticals & medicinal chemical products	Rubber products	Plastic products	Non-metallic mineral products	Basic metal	Fabricated metal products
Weights (%)	0.82	8.84	4.80	53.45	77.14	15.45	7.32	7.13	15.15	10.20	56.01	40.98
1981	963.79	38.31	41.31	23.46	12.09	16.25	19.46	38.77	37.34	59.00	15.02	40.44
1991	608.49	76.47	61.92	33.40	28.89	41.26	51.12	100.65	115.65	101.02	39.35	84.31
1996	254.55	84.10	66.21	51.49	46.87	62.98	58.92	99.29	113.72	112.93	57.18	100.87
2001	189.83	86.05	80.85	73.24	64.53	64.64	64.33	81.68	111.58	102.35	72.60	93.03
2006	122.08	97.94	113.11	109.96	82.90	78.22	70.97	99.55	108.36	110.64	91.28	98.95
2010	89.33	96.30	113.42	98.39	104.84	87.47	86.79	107.99	98.73	101.48	95.74	91.91
2011	94.83	96.90	114.60	91.15	99.42	87.84	88.19	110.07	100.37	109.47	99.56	99.11
2012	94.72	97.59	108.18	97.39	98.90	87.67	93.27	104.29	99.97	104.54	95.36	99.49
2013	96.30	98.32	106.00	98.73	100.13	94.89	96.14	102.29	100.14	109.97	99.19	101.49
2014	103.61	100.83	104.16	98.77	100.41	99.65	92.03	106.97	105.15	112.12	102.75	105.99
2015	100.88	98.91	101.74	98.99	99.80	101.52	95.51	106.41	101.96	108.57	96.01	101.40
2016	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
2017	103.34	100.22	96.97	95.20	102.67	107.98	99.12	102.79	101.95	97.49	102.73	100.03
2018	107.43	101.32	95.28	97.95	104.56	110.94	102.40	99.38	104.01	100.52	105.08	100.43
2019	99.87	100.74	84.73	96.86	99.97	109.79	109.84	102.72	102.05	97.17	96.74	93.85

Source: Ministry of Economic Affairs

**Table 64. Indices of industrial production (continued)**

2016=100

Year	Manufacturing									Electricity & gas supply	Water supply
	Electronic parts & components	Computers, electronic & optical products	Electrical equipment	Machinery equipment	Motor vehicles & parts	Other transport equipment & parts	Furniture	Manufacturing not else-where classified	Repair & installation of industrial machinery & equipment		
Weights (%)	405.36	44.52	16.61	41.02	20.38	13.33	2.01	12.98	7.10	65.82	6.01
1981	1.32	6.93	23.92	25.98	27.52	48.06	148.10	60.40	-	18.95	33.18
1991	5.38	17.82	84.54	53.67	75.39	77.13	250.18	110.89	-	40.18	65.06
1996	9.55	27.85	99.24	66.49	77.71	81.31	173.12	88.11	-	59.91	78.92
2001	14.52	49.74	107.23	62.87	67.50	62.28	127.59	68.79	-	76.41	103.68
2006	41.47	55.06	109.69	94.14	93.65	85.60	96.74	69.45	65.10	92.17	103.53
2010	76.65	80.86	98.18	103.52	92.79	85.14	90.81	74.42	71.56	94.68	100.98
2011	76.75	109.64	92.94	109.94	101.12	90.80	90.45	74.79	78.14	96.21	101.18
2012	81.06	91.37	92.40	103.34	98.64	95.71	96.14	78.41	76.41	96.24	100.58
2013	86.89	92.12	91.65	99.03	95.01	98.26	93.79	82.87	72.93	97.61	101.29
2014	96.75	101.83	96.33	107.52	107.16	105.76	98.34	91.06	78.43	99.08	101.82
2015	95.55	104.13	98.19	106.11	103.91	105.76	100.28	94.56	86.83	96.68	99.50
2016	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
2017	108.20	104.49	97.94	110.86	100.38	105.72	99.96	112.04	116.28	102.22	101.30
2018	113.97	116.50	100.47	119.98	94.60	107.30	100.24	126.64	129.13	102.62	101.39
2019	114.10	149.71	97.54	103.49	93.64	115.24	100.07	130.46	128.44	103.79	101.75

Table 65. Industrial production value

Million NT\$

Year	Grand total	Mining & Quarrying			Manufacturing					
		Total	Crude petroleum and natural gas extraction	Quarrying of stone, sand, clay & other mining	Total	Food & prepared animal feeds	Beverages	Tobacco products	Textiles mills	Wearing apparel & clothing accessories
1981	-	-	11 121	9 622	2 511 547	268 091	39 432	26 830	257 740	142 869
1991	-	-	6 340	4 298	4 878 887	336 763	81 458	32 075	337 013	163 370
1996	7 010 254	20 988	5 326	15 663	6 659 890	455 089	93 540	29 575	376 323	99 285
2001	7 775 653	23 739	6 944	16 795	7 321 512	325 018	90 719	26 440	338 351	68 497
2006	12 521 963	29 461	5 506	23 955	11 962 851	347 316	87 270	28 696	295 205	43 033
2010	14 680 770	29 624	4 264	25 360	13 980 039	448 643	95 303	44 485	304 634	28 163
2011	15 316 190	28 229	5 157	23 072	14 606 969	480 244	97 398	46 726	316 306	26 837
2012	14 849 580	29 769	8 143	21 626	14 110 231	484 325	102 774	51 102	295 282	26 064
2013	14 804 124	27 814	7 068	20 746	14 016 588	485 429	97 065	47 619	300 695	25 443
2014	15 364 878	30 046	7 108	22 938	14 513 432	504 540	94 839	45 905	302 207	25 490
2015	13 802 947	25 634	4 566	21 067	13 010 070	491 492	94 819	46 507	298 927	24 529
2016	13 145 607	21 084	3 003	18 081	12 411 640	501 879	94 273	55 056	278 016	23 190
2017	13 910 073	21 170	2 795	18 375	13 184 032	507 011	95 178	69 917	273 349	20 829
2018	14 788 891	21 373	2 470	18 903	14 039 084	522 670	92 616	79 409	275 382	18 276
2019	13 979 886	21 717	2 295	19 423	13 219 500	540 740	89 583	78 683	261 682	17 799

Source: Ministry of Economic Affairs



Table 65. Industrial production value (continued)

Million NT\$

Year	Manufacturing											
	Leather, fur & related products	Wood & bamboo products	Pulp, paper & paper products	Printing & reproduction of recorded media	Petroleum and coal products	Chemical, fertilizers, nitrogen compounds, plastic & rubber, man-made fibres	Other chemical products	Pharmaceuticals & medicinal chemical products	Rubber products	Plastic products	Non-metallic mineral products	Basic metal
1981	101 634	64 822	63 410	27 065	179 476	203 526	36 087	11 251	28 540	109 895	89 932	100 561
1991	135 701	50 659	115 022	55 537	172 672	355 978	97 913	30 853	55 608	276 941	169 815	322 864
1996	69 705	30 472	133 652	67 532	228 611	572 214	128 562	37 490	61 118	299 026	198 176	500 155
2001	37 845	20 184	120 179	64 552	423 627	739 386	136 091	45 059	56 519	268 694	163 054	551 485
2006	33 009	17 722	148 653	71 098	1 005 299	1 593 179	199 160	51 275	79 435	281 346	218 937	1 401 846
2010	27 109	16 339	175 202	75 601	1 106 042	2 155 322	243 025	62 534	92 158	285 604	207 394	1 681 390
2011	24 503	17 778	177 247	77 144	1 241 463	2 269 122	251 683	63 846	102 558	295 484	221 630	1 801 700
2012	23 064	17 325	169 747	74 175	1 391 894	2 134 658	253 562	67 745	98 803	295 199	215 679	1 568 641
2013	23 501	18 340	167 039	73 032	1 319 190	2 155 140	264 814	70 420	96 354	297 049	225 381	1 465 002
2014	24 879	19 912	171 433	72 105	1 269 679	2 111 249	274 483	68 835	100 289	310 696	237 124	1 534 399
2015	19 334	19 233	167 143	71 012	841 452	1 678 084	270 144	73 159	98 397	300 291	226 106	1 216 363
2016	15 078	18 776	163 349	69 905	707 064	1 582 164	265 286	76 808	93 613	292 186	199 847	1 125 896
2017	15 161	18 981	172 528	67 422	784 451	1 784 677	273 651	77 297	96 439	288 755	190 194	1 347 043
2018	13 304	19 569	181 446	66 670	990 556	2 002 461	284 198	80 572	94 653	297 492	200 134	1 508 122
2019	13 487	17 880	174 696	64 407	922 011	1 642 546	278 066	86 328	97 857	289 188	207 155	1 344 336
Year	Manufacturing										Electricity & gas supply	Water supply
	Fabricated metal products	Electronic parts and components	Computers, electronic & optical products	Electrical equipment	Machinery & equipment	Motor vehicles & parts	Other transport equipment & parts	Furniture	Manufacturing not elsewhere classified	Repair & installation of industrial machinery & equipment		
1981	149 787	74 691	105 344	97 933	66 100	70 917	70 734	31 034	89 095	4 749	115 975	6 577
1991	358 742	318 803	339 740	263 505	229 122	226 307	144 845	60 645	137 028	9 908	208 004	16 725
1996	495 084	798 822	659 664	328 026	342 809	283 985	172 288	47 274	136 005	15 408	302 302	27 073
2001	465 752	1 289 784	914 794	278 453	344 837	240 941	136 002	38 164	111 773	25 312	390 972	39 430
2006	698 454	2 935 210	756 386	392 538	555 141	335 588	193 740	33 706	111 571	48 036	489 387	40 264
2010	740 229	3 603 620	790 793	395 506	607 051	351 517	230 618	33 189	119 220	59 347	631 430	39 677
2011	828 791	3 313 363	1 028 549	399 249	667 438	387 059	248 023	33 764	123 952	65 108	640 872	40 120
2012	789 463	3 333 397	812 798	385 774	639 733	388 839	260 061	36 150	130 054	63 922	669 437	40 143
2013	782 433	3 487 565	763 375	374 700	609 916	373 662	259 539	36 474	136 469	60 941	719 260	40 462
2014	826 487	3 769 945	741 758	389 034	668 056	420 570	277 880	39 067	146 535	66 036	780 654	40 747
2015	761 609	3 623 376	697 292	375 616	666 037	408 381	280 166	40 151	146 592	73 859	727 612	39 632
2016	740 850	3 535 769	648 864	367 334	626 743	388 885	265 804	39 901	148 612	86 495	671 458	41 424
2017	778 969	3 696 071	636 413	373 558	672 225	384 622	264 121	39 797	155 971	99 403	662 788	42 083
2018	805 293	3 791 743	641 018	388 434	723 104	363 993	276 704	41 181	170 184	109 902	686 434	42 001
2019	746 035	3 556 444	780 332	368 238	645 543	358 414	308 614	41 880	177 919	109 635	696 699	41 970

**Table 66. Saturation of water supply**

Year	Families or population served (1)		Percentage of families or population served (1)		The daily domestic consumption of water per person (Litre)
	No. of families (1,000 Families)	No. of population (1,000 Persons)	As % of total number of families or population		
			Based on families	Based on population	
1974	1 416	7 723	47.86	48.72	-
1981	1 947	9 565	63.69	63.92	-
1991	3 338	13 495	81.91	80.81	-
2001	6 210	20 287	91.29	90.54	-
2006	6 829	21 018	92.35	91.87	-
2010	7 359	21 386	92.72	92.33	271
2011	7 485	21 494	92.90	92.55	270
2012	7 618	21 622	93.05	92.74	268
2013	7 724	21 722	93.21	92.93	271
2014	7 831	21 826	93.42	93.14	274
2015	7 934	21 953	93.69	93.45	273
2016	8 041	22 060	93.92	93.71	275
2017	8 140	22 136	94.12	93.91	278
2018	8 240	22 208	94.34	94.14	280
2019	8 352	22 278	94.56	94.39	284

**Note:** (1) Data come from Taiwan Water Supply Corporation before 2000.

**Source:** Water Resources Agency, Ministry of Economic Affairs

**Table 67. Composition of energy supply**

%

Year	Quantity of energy supply (10 <sup>3</sup> KLOE)	By energy form						
		Coal and coal products	Crude oil and petroleum products	Natural gas	Biomass and waste	Conventional hydro power	Nuclear power	Others
1989	52 279	23.8	57.1	2.4	0.1	0.9	15.7	0.0
1991	58 394	22.8	53.9	5.0	0.1	0.6	17.5	0.0
1996	81 698	25.8	54.6	5.2	0.3	0.6	13.4	0.1
2001	106 489	30.5	51.6	6.5	1.1	0.5	9.6	0.1
2006	136 771	30.1	52.1	7.7	1.2	0.3	8.4	0.1
2010	143 008	29.5	50.1	10.3	1.2	0.3	8.4	0.1
2011	138 819	31.7	46.1	11.7	1.2	0.3	8.8	0.2
2012	141 611	30.0	47.8	12.1	1.2	0.4	8.3	0.2
2013	144 069	30.6	47.4	11.8	1.2	0.4	8.4	0.2
2014	148 532	29.6	48.4	12.1	1.2	0.3	8.3	0.2
2015	146 132	29.7	48.2	13.2	1.2	0.3	7.2	0.2
2016	146 628	29.4	48.9	13.7	1.1	0.4	6.3	0.2
2017	146 572	30.2	48.5	15.2	1.1	0.4	4.4	0.3
2018	148 629	29.4	48.2	15.2	1.1	0.3	5.4	0.4
2019	148 401	29.9	46.9	15.0	1.1	0.4	6.3	0.4

Source: Bureau of Energy, Ministry of Economic Affairs

Table 68. Composition of energy consumption

Year	Quantity of domestic energy consumption (10 <sup>3</sup> KLOE)	Energy use (By sector)						Non-energy use	%
		Energy	Industrial	Transportation	Agricultural	Services	Residential		
1989	34 789	10.0	37.5	19.5	3.2	7.0	9.3	13.4	
1991	38 972	9.2	37.5	20.1	2.9	7.4	9.3	13.7	
1996	51 057	9.2	34.9	21.9	2.4	7.3	9.3	15.0	
2001	65 909	8.5	33.4	18.9	1.7	7.2	8.7	21.5	
2006	77 873	9.0	33.5	17.7	1.1	7.7	8.2	22.9	
2010	83 999	7.8	31.5	15.6	0.8	7.2	7.6	29.5	
2011	81 588	7.8	33.1	16.3	0.8	7.2	7.9	26.9	
2012	81 881	7.9	32.6	15.9	0.9	7.0	7.7	28.0	
2013	84 576	7.8	32.2	15.4	0.9	6.9	7.4	29.5	
2014	85 751	8.4	31.4	15.3	0.9	7.0	7.4	29.7	
2015	86 013	8.4	30.6	15.6	0.9	7.0	7.4	30.1	
2016	86 589	8.3	30.7	16.0	0.9	7.0	7.6	29.6	
2017	86 038	8.2	31.0	15.9	0.8	7.1	7.7	29.3	
2018	87 569	8.4	31.2	15.2	0.9	6.6	7.5	30.1	
2019	84 910	8.8	31.5	15.8	1.0	6.8	7.7	28.4	

Source: Bureau of Energy, Ministry of Economic Affairs

**Table 69. Water resources demand and supply**

## I. Total water supply

Million M<sup>3</sup>

Year	Grand total	Surface water			Ground water and others	Per capita annual withdrawal (M <sup>3</sup> )	Percentage of available resources (%)
		Total	Intake from rivers	Reservoirs water supply			
1971	15 072	-	-	-	-	-	-
1981	16 613	-	-	-	-	-	-
1991	17 675	10 536	5 107	5 429	7 139	862.0	-
2001	18 477	12 992	8 199	4 793	5 485	827.4	15.8
2006	17 404	11 885	6 720	5 165	5 519	762.6	16.8
2009	18 084	12 267	9 072	3 196	5 816	783.6	20.0
2010	17 098	11 360	7 902	3 457	5 739	738.9	18.2
2011	17 218	11 497	7 383	4 114	5 720	742.3	19.6
2012	17 310	11 624	7 517	4 107	5 685	743.8	13.7
2013	17 299	11 684	7 418	4 266	5 615	741.0	16.5
2014	16 864	11 340	6 996	4 344	5 524	720.6	24.6
2015	16 025	10 498	7 622	2 876	5 527	683.0	19.4
2016	16 546	11 086	6 927	4 159	5 460	703.6	12.6
2017	16 645	11 200	6 966	4 234	5 444	706.6	15.3
2018	16 713	11 281	7 027	4 254	5 432	708.8	18.4

## II. Total water consumption

Million M<sup>3</sup>

Year	Grand total	Agriculture consumption				Domestic consumption	Industrial consumption
		Total	Irrigation	Livestock	Aquaculture		
1971	15 072	13 737	-	-	-	480	855
1981	16 613	13 708	-	-	-	1 125	1 780
1991	17 675	13 554	10 332	129	3 093	2 493	1 628
2001	18 477	13 012	11 479	114	1 419	3 725	1 740
2006	17 404	12 238	10 549	111	1 578	3 591	1 575
2009	18 084	13 170	11 782	73	1 315	3 362	1 551
2010	17 098	12 239	11 088	74	1 077	3 256	1 603
2011	17 218	12 435	11 310	75	1 050	3 231	1 552
2012	17 310	12 514	11 403	72	1 039	3 186	1 610
2013	17 299	12 468	11 384	70	1 013	3 192	1 639
2014	16 864	12 031	10 982	67	982	3 197	1 636
2015	16 025	11 282	10 335	67	880	3 142	1 601
2016	16 546	11 734	10 792	66	876	3 183	1 629
2017	16 645	11 843	10 912	66	865	3 147	1 654
2018	16 713	11 890	10 983	92	815	3 156	1 668

Note: 1. Data do not include Kinmen County and Lienchiang County before 2000.

2. Domestic water consumption is only tap-water supplied to families before 1980 and includes water intake by self from 1981.

Source: Water Resources Agency, Ministry of Economic Affairs



# **TRANSPORTATION, STORAGE, COMMUNICATIONS AND TOURISM**

Table 70. Transport on railway and mass rapid transit

Year	Passenger traffic volume						
	No. of passengers (1,000 Person-times)					Passenger-kilometers (1,000 Passenger-kms)	Taiwan Railways Administration
		Taiwan Railways Administration	Taipei Rapid Transit Corp.	Taiwan High Speed Rail	Kaohsiung Rapid Transit Corp.		
1952	32 493	64 937	-	-	-	1 933 936	1 749 772
1971	141 524	134 213	-	-	-	6 806 205	6 715 449
1981	131 667	130 737	-	-	-	7 981 908	7 946 881
1991	137 785	137 124	-	-	-	8 621 006	8 611 316
2001	476 214	186 079	289 643	-	-	12 268 691	10 036 882
2010	778 779	189 763	505 466	36 940	46 010	20 930 786	8 998 411
2011	864 491	205 829	566 404	41 629	49 637	22 825 848	9 719 605
2012	925 243	220 297	602 199	44 526	56 480	24 207 701	10 185 549
2013	972 332	227 287	634 961	47 487	60 706	25 322 755	10 513 137
2014	1 024 083	232 826	679 506	48 025	61 308	26 339 952	11 037 421
2015	1 062 853	232 217	717 512	50 562	60 203	27 110 886	11 114 977
2016	1 092 127	230 365	739 990	56 586	63 103	27 949 684	10 967 847
2017	1 122 946	232 806	746 067	60 571	64 321	29 003 962	11 016 324
2018	1 153 529	231 268	765 470	63 963	68 085	29 624 218	10 864 841
2019	1 194 660	236 151	789 599	67 411	68 739	30 455 602	11 045 601

  

Year	Passenger traffic volume			Freight traffic volume (1)			
	Passenger-kilometers (1,000 Passenger-kms)			Freight tonnage (1,000 MTs)	Taiwan Railways Administration	Ton-kilometers (1,000 Ton-kms)	Taiwan Railways Administration
	Taipei Rapid Transit Corp.	Taiwan High Speed Rail	Kaohsiung Rapid Transit Corp.				
1952	-	-	-	17 089	8 231	1 253 832	1 158 549
1971	-	-	-	24 550	15 220	2 550 225	2 449 599
1981	-	-	-	31 723	16 906	2 527 131	2 392 595
1991	-	-	-	26 256	16 417	1 961 142	1 903 945
2001	2 223 487	-	-	19 287	12 371	1 009 863	984 633
2010	4 123 190	7 491 020	314 701	15 106	10 426	872 520	866 301
2011	4 607 794	8 147 869	346 198	14 451	10 661	853 362	847 707
2012	4 973 667	8 641 573	400 730	13 905	10 873	833 102	828 475
2013	5 232 349	9 118 060	452 085	11 167	10 659	729 178	727 279
2014	5 589 414	9 235 162	465 106	11 223	11 012	683 452	681 421
2015	5 880 980	9 654 961	446 870	11 117	10 910	636 213	634 220
2016	6 016 179	10 488 340	464 232	9 387	9 215	563 955	562 276
2017	6 039 704	11 103 359	481 384	7 971	7 764	514 520	512 372
2018	6 201 186	11 558 787	536 466	7 878	7 720	544 016	542 497
2019	6 361 118	11 994 453	500 240	7 479	7 313	518 207	516 578

Note: (1) Excluding the data baggages and package

Source: Ministry of Transportation and Communications



**Table 70. Transport on railway and mass rapid transit (continued)**

Year	Efficiency of seat utilization (%)						Mileages (3) (Kms)		
	Taiwan Railways Administration					Taiwan High Speed Rail	Taiwan Railways Administration	Taiwan High Speed Rail	
	Avg.	Tze-chiang Limited Express	Chu-kuang Limited Express	Local train (2)	Ordinary train				
1952	-	-	-	-	-	-	940	-	
1971	-	-	-	-	-	-	1 000	-	
1981	-	-	-	-	-	-	1 091	-	
1991	57.9	96.6	78.5	57.8	29.7	-	1 045	-	
2001	68.5	84.3	72.2	65.5	25.8	-	1 097	-	
2010	59.7	71.4	49.1	55.0	12.0	49.0	1 085	340	
2011	63.6	75.2	54.6	58.2	9.7	51.6	1 087	340	
2012	66.1	76.8	57.2	61.3	11.8	54.6	1 067	340	
2013	66.9	76.3	57.2	62.9	12.9	57.5	1 061	340	
2014	66.2	74.9	52.1	63.3	16.0	57.1	1 065	340	
2015	64.5	73.2	47.6	61.4	12.8	59.7	1 065	340	
2016	63.3	70.3	42.9	61.9	11.4	63.5	1 065	348	
2017	65.1	70.9	43.4	64.3	20.3	65.2	1 065	348	
2018	64.2	68.6	40.7	64.8	21.5	67.0	1 065	348	
2019	65.6	70.1	40.7	66.1	27.5	68.0	1 065	348	
Year	Total railroad accidents and casualties		Taiwan Railways Administration		Taiwan High Speed Rail		Mass rapid transit		
	Accidents (Cases)	Casualties (Persons)	Accidents (Cases)	Casualties (Persons)	Accidents (Cases)	Casualties (Persons)	Accidents (Cases)	Casualties (Persons)	
1952	-	-	-	-	-	-	-	-	
1971	-	-	-	-	-	-	-	-	
1981	-	-	-	-	-	-	-	-	
1991	-	-	-	-	-	-	-	-	
2001	878	290	857	279	-	-	18	1	
2010	889	125	853	114	15	-	19	11	
2011	826	215	812	87	2	-	11	8	
2012	684	107	639	101	35	1	8	6	
2013	696	91	632	85	40	-	10	6	
2014	646	65	590	59	38	-	11	4	
2015	660	91	618	88	29	-	7	3	
2016	609	75	547	71	48	-	7	2	
2017	569	54	509	50	39	-	8	1	
2018	701	344	656	343	30	-	4	-	
2019	755	44	714	36	21	6	6	-	

**Note:** (2) Including Fu-Hsing Semi Express

(3) The data is end of year.

Table 71. Transport on roads

Km

End of Year	Length of roads							Road density (M/km <sup>2</sup> )
	Total	Highway					Urban (1)	
			National	Provincial	County	Rural		
1952	15 619	14 734	-	1 364	2 815	10 555	-	-
1971	15 747	15 747	-	2 471	2 725	10 216	-	-
1981	17 522	17 522	373	3 981	2 330	10 451	-	-
1991	28 472	19 872	382	4 062	2 613	12 429	8 600	791
2001	36 466	20 675	739	4 515	3 401	11 630	15 791	1 013
2010	40 353	21 821	1 010	5 099	3 551	11 765	18 532	1 121
2011	41 298	21 847	1 010	5 124	3 551	11 766	19 451	1 147
2012	42 209	21 860	1 010	5 137	3 551	11 766	20 349	1 172
2013	42 820	21 926	1 050	5 132	3 573	11 775	20 894	1 189
2014	41 916	21 575	1 050	5 148	3 619	11 362	20 341	1 164
2015	41 950	21 587	1 050	5 160	3 619	11 362	20 363	1 165
2016	43 365	21 618	1 050	5 235	3 633	11 304	21 747	1 204
2017	43 206	21 710	1 050	5 262	3 602	11 383	21 496	1 200
2018	43 133	21 678	1 050	5 283	3 656	11 276	21 455	1 198
2019	43 120	21 748	1 050	5 321	3 657	11 306	21 372	1 197

**Note:** (1) Urban road figures include the part which pavement width is over 6m in urban planning district. Prior to and including 2003, urban road of pavement includes sidewalk, safety island and ditch cover.

**Source:** Ministry of Transportation and Communications

**Table 71. Transport on roads (continued)**

Year	Passenger traffic volume of automobile transportation						Freight traffic volume of highway trucking carriers
	No. of passengers (1,000 Person-times)			Passenger-Kilometers (1,000 Passenger-kms)			Freight tonnages (1,000 MTs)
	Total	City bus	Highway bus	Total	City bus	Highway bus	
1952	-	-	-	1 507 145	497 180	1 009 965	2 597
1971	-	-	-	12 468 626	4 722 119	7 746 507	39 599
1981	-	-	-	26 101 329	6 991 918	19 109 412	182 646
1991	1 638 097	965 192	672 906	20 548 765	6 528 376	14 020 389	254 297
2001	1 109 347	804 337	305 009	15 236 537	6 288 993	8 947 544	502 300
2010	1 109 829	877 067	232 762	16 307 047	7 021 088	9 285 959	628 167
2011	1 164 297	943 694	220 603	17 039 888	7 503 861	9 536 027	638 499
2012	1 191 309	994 257	197 051	17 585 569	8 188 123	9 397 446	653 265
2013	1 219 615	1 045 843	173 771	17 927 530	8 904 389	9 023 140	551 430
2014	1 238 797	1 066 896	171 901	18 384 479	9 326 310	9 058 169	541 939
2015	1 217 178	1 048 555	168 623	17 565 272	9 037 316	8 527 956	531 858
2016	1 225 342	1 056 904	168 438	17 378 671	8 988 253	8 390 417	530 290
2017	1 235 066	1 093 161	141 905	17 053 464	9 342 251	7 711 213	537 079
2018	1 248 529	1 112 608	135 922	17 136 287	9 770 847	7 365 440	560 770
2019	1 238 765	1 109 404	129 361	17 036 506	9 946 735	7 089 771	559 682
Year	Freight traffic volume of highway trucking carriers	Freeway transportation					
		Ton-kilometers (1,000 Ton-kms)	Vehicle traffic of freeway (2) (1,000 Cars)				Toll (Million NT\$)
	Total		Small vehicles	Large vehicles	Tractor trailers		
1952	63 682	-	-	-	-	-	-
1971	1 554 301	-	-	-	-	-	-
1981	8 727 256	96 585	59 699	22 634	14 252	2 184	-
1991	11 813 756	295 616	226 159	40 255	29 202	9 065	1 370 484
2001	27 810 051	464 702	375 777	55 336	33 589	18 077	2 263 239
2010	29 631 573	555 060	464 819	51 797	38 444	21 976	703 558
2011	29 550 818	571 229	479 549	52 565	39 115	22 602	679 086
2012	29 850 997	573 512	482 797	52 562	38 154	21 620	657 172
2013	38 473 579	589 778	498 892	52 575	38 311	21 826	611 971
2014	37 851 697	5 184 346	4 490 688	393 024	300 634	21 247	595 519
2015	37 805 306	5 489 975	4 791 782	399 730	298 464	22 474	617 961
2016	38 532 689	5 791 026	5 076 726	409 192	305 108	23 289	630 454
2017	40 350 856	5 919 022	5 193 466	415 253	310 303	23 700	588 776
2018	44 169 158	5 926 683	5 194 819	420 356	311 508	23 706	618 305
2019	44 369 952	5 974 965	5 249 357	419 525	306 084	23 741	661 813

**Note:** (2) Since 2014, the way of calculating vehicles that has been changed by passing through the toll gate, instead of the toll station.

Table 72. Number of registered vehicles

Cars

End of Year	Total	Bus			Heavy truck		
		Sub-total	Private	Operating	Sub-total	Private	Operating
1952	10 710	1 623	244	1 379	3 699	1 511	2 188
1971	957 295	8 900	1 732	7 168	21 992	8 028	13 964
1981	5 413 409	18 790	4 726	14 064	66 564	34 782	31 782
1991	10 611 036	20 120	5 381	14 739	121 161	66 184	54 977
2001	17 465 037	24 053	2 580	21 473	155 140	81 813	73 327
2010	21 721 447	29 030	1 856	27 174	161 084	93 304	67 780
2011	22 226 684	29 991	1 863	28 128	164 221	95 003	69 218
2012	22 346 398	31 098	1 770	29 328	161 256	91 468	69 788
2013	21 562 645	31 960	1 689	30 271	162 122	92 449	69 673
2014	21 290 279	32 928	1 661	31 267	163 446	93 563	69 883
2015	21 400 863	33 890	1 647	32 243	165 695	94 866	70 829
2016	21 510 650	34 531	1 651	32 880	166 943	95 772	71 171
2017	21 704 365	34 188	1 650	32 538	167 088	96 685	70 403
2018	21 871 240	33 877	1 622	32 255	164 661	95 665	68 996
2019	22 111 807	33 288	1 570	31 718	165 680	96 119	69 561

Source: Ministry of Transportation and Communications

**Table 72. Number of registered vehicles (continued)**

End of Year	Sedan			Light truck			Specially constructed vehicles	Motorcycles
	Sub-total	Private	Operating	Sub-total	Private	Operating		
1952	2 579	2 089	490	325	316	9	482	2 002
1971	55 111	32 824	22 287	25 593	24 686	907	3 656	826 492
1981	506 291	438 052	68 239	211 304	206 748	4 556	11 142	4 591 547
1991	2 541 364	2 440 685	100 679	495 167	489 381	5 786	24 049	7 409 175
2001	4 825 581	4 720 641	104 940	675 533	665 718	9 815	51 528	11 733 202
2010	5 803 413	5 642 969	160 444	832 466	803 493	28 973	50 522	14 844 932
2011	5 960 088	5 787 010	173 078	848 732	817 543	31 189	50 050	15 173 602
2012	6 091 324	5 909 115	182 209	862 230	828 914	33 316	60 862	15 139 628
2013	6 236 879	6 046 599	190 280	875 544	841 477	34 067	61 017	14 195 123
2014	6 405 778	6 205 246	200 532	890 703	855 191	35 512	61 464	13 735 960
2015	6 573 746	6 365 190	208 556	903 739	866 616	37 123	62 074	13 661 719
2016	6 666 006	6 453 083	212 923	911 524	872 709	38 815	63 419	13 668 227
2017	6 763 422	6 542 685	220 737	919 294	879 034	40 260	64 791	13 755 582
2018	6 845 711	6 617 429	228 282	926 128	885 166	40 962	65 343	13 835 520
2019	6 919 256	6 685 641	233 615	934 456	892 277	42 179	66 205	13 992 922

**Table 73. Number of national vessels registration and freight traffic volume**

Year	National vessels registration (1)			Cargo tonnage (1,000 MTs)	Ton-nautical mile (Million ton-nautical miles)
	Vessels (Vessels)	G.R.T (Ton)	D.W.T (Ton)		
1952	7	2 248	1 742	2 840	7 055
1971	23	35 803	50 139	12 571	78 095
1981	71	612 141	883 108	23 135	139 226
1991	245	5 300 548	8 144 768	90 907	532 574
2001	280	4 790 827	7 472 055	101 533	359 295
2010	278	2 789 176	4 400 330	55 390	114 607
2011	290	2 888 558	4 493 037	53 477	126 859
2012	288	3 113 599	4 672 453	47 727	97 230
2013	295	3 373 753	4 977 349	49 521	107 343
2014	304	3 635 946	5 284 951	54 997	116 643
2015	313	3 847 758	5 481 654	55 414	121 382
2016	278	3 463 074	4 958 454	55 472	122 086
2017	283	3 578 719	5 120 324	51 744	111 127
2018	267	4 173 822	6 136 249	65 577	147 520
2019	285	4 723 929	7 110 663	69 297	163 509

**Note:** (1) The gross tonnage of the ships in this table is at least 100 tons.

**Source:** Ministry of Transportation and Communications

**Table 74. Waterborne imports and exports, and the percentage carried by national vessels**

1,000 MTs

Year	Imports and exports							Imports				
	Total	Keelung Harbor	Kaoh-siung Harbor	Hualien Harbor	Taichung Harbor	Taipei Harbor	Others (1)	Sub-total	Keelung Harbor	Kaoh-siung Harbor	Hualien Harbor	Taichung Harbor
1952	1 859	562	1 297	-	-	-	-	1 097	386	710	-	-
1971	20 640	5 900	14 550	189	-	-	-	15 655	4 597	11 048	9	-
1981	59 897	8 991	38 267	1 919	3 884	-	6 837	48 609	6 655	31 488	487	3 735
1991	121 182	23 636	68 234	2 952	18 648	-	7 712	103 328	17 389	60 341	1 720	16 895
2001	184 078	24 504	115 792	5 934	34 132	-	3 716	145 082	18 000	91 950	2 826	29 385
2010	218 083	20 492	118 188	5 412	58 943	10 464	4 584	168 826	14 688	86 606	2 535	52 694
2011	214 687	19 152	116 090	4 627	57 280	13 100	4 438	167 340	13 614	85 571	2 630	50 832
2012	212 720	18 627	113 494	3 583	59 160	13 598	4 258	166 186	13 674	82 740	2 436	52 765
2013	216 510	17 505	109 041	4 511	64 930	16 005	4 517	169 083	12 795	77 829	2 754	58 058
2014	225 737	17 015	115 798	4 240	66 971	17 473	4 240	177 777	12 449	83 825	2 697	59 720
2015	213 244	15 256	103 976	3 948	68 771	17 298	3 995	168 377	11 453	74 180	2 597	61 331
2016	220 974	13 536	110 470	3 702	70 339	19 032	3 896	172 618	10 224	78 173	2 272	61 969
2017	224 663	13 962	111 555	3 306	70 208	21 916	3 716	176 698	10 662	79 439	2 208	62 259
2018	218 354	13 181	114 292	3 100	66 919	17 149	3 713	169 106	9 553	81 977	2 168	58 718
2019	205 414	10 933	107 930	2 797	64 509	15 777	3 468	156 254	7 548	76 162	1 769	55 694
Year	Imports		Exports							Carried by national vessels (%)		
	Taipei Harbor	Others (1)	Sub-total	Keelung Harbor	Kaoh-siung Harbor	Hualien Harbor	Taichung Harbor	Taipei Harbor	Others (1)	Total	Imports	Exports
1952	-	-	762	176	586	-	-	-	-	43.2	19.0	78.0
1971	-	-	4 985	1 303	3 502	180	-	-	-	41.8	46.0	28.6
1981	-	6 242	11 289	2 335	6 778	1 432	149	-	594	20.4	20.4	20.4
1991	-	6 984	17 854	6 248	7 893	1 232	1 753	-	728	29.2	30.2	23.4
2001	-	2 920	38 997	6 504	23 842	3 109	4 747	-	795	24.9	28.1	12.9
2010	9 105	3 199	49 257	5 804	31 582	2 877	6 249	1 360	1 385	10.1	10.8	7.6
2011	11 603	3 089	47 347	5 538	30 519	1 997	6 448	1 497	1 349	11.3	11.9	9.2
2012	11 541	3 029	46 534	4 953	30 754	1 147	6 395	2 057	1 228	12.7	13.6	9.4
2013	14 052	3 595	47 427	4 711	31 213	1 757	6 872	1 953	922	12.7	13.4	10.4
2014	15 517	3 568	47 960	4 566	31 973	1 543	7 251	1 956	672	12.8	13.7	9.8
2015	15 087	3 729	44 868	3 803	29 796	1 351	7 440	2 212	266	14.0	15.1	10.0
2016	16 473	3 508	48 356	3 311	32 297	1 430	8 370	2 560	387	11.1	11.8	8.7
2017	18 817	3 314	47 965	3 300	32 117	1 098	7 948	3 099	402	10.4	10.9	8.6
2018	13 395	3 295	49 248	3 628	32 315	932	8 200	3 755	418	12.9	14.0	9.1
2019	11 988	3 092	49 160	3 385	31 768	1 028	8 815	3 789	376	14.4	15.6	10.4

**Note :** Since 2001, the cargo figures have been calculated from customs declaration. Prior to and including 2000, they were sourced from manifest.

General Trade System is adopted from 2016.

(1) Including Su-ao and Anping Harbor

**Source:** Ministry of Transportation and Communications

Table 75. Traffic of civil aviation by airports

Year	Total									
	No. of aircraft movements (Movements)			No. of passengers (1,000 Person-times)				Tonnage of		
	Total	International line	Domestic line	Total	International line	Domestic line	Transit	cargo (1) (MTs)	International line	Domestic line
1952	5 133	-	-	26	-	-	-	3 122	-	-
1971	74 993	30 012	44 981	3 500	1 143	2 065	292	63 493	48 084	15 409
1981	121 654	37 252	84 402	10 493	4 063	5 639	792	252 735	229 320	23 415
1991	317 481	68 181	249 300	22 832	10 364	11 210	1 257	714 808	670 127	44 681
2001	561 910	147 212	414 698	46 084	19 501	24 614	1 970	1 310 220	1 035 552	37 375
2010	360 409	189 323	171 086	41 091	31 106	9 733	251	2 335 508	1 163 941	36 675
2011	385 140	205 337	179 803	42 856	32 133	10 484	239	2 178 856	1 108 646	35 899
2012	404 695	230 123	174 572	46 860	35 899	10 680	282	2 091 294	1 102 077	36 153
2013	426 635	247 378	179 257	50 336	39 385	10 547	403	2 084 688	1 082 510	35 543
2014	454 911	270 732	184 179	55 357	44 391	10 563	402	2 221 700	1 144 636	35 100
2015	481 028	288 959	192 069	58 156	47 983	9 798	374	2 150 628	1 136 194	33 240
2016	527 025	310 713	216 312	63 253	51 979	10 843	431	2 233 017	1 214 666	31 812
2017	509 181	308 799	200 382	65 979	54 475	11 097	406	2 416 036	1 313 716	30 355
2018	547 193	325 179	222 014	68 904	56 922	11 592	390	2 463 342	1 316 145	30 011
2019	581 484	338 537	242 947	72 157	59 577	12 241	339	2 314 881	1 282 892	30 434
Year	Taiwan Taoyuan International Airport				Kaohsiung International Airport			Taipei Songshan Airport		
	No. of aircraft movements (Movements)	No. of passengers (1,000 Person-times)	Transit	Tonnage of cargo (MTs)	No. of aircraft movements (Movements)	No. of passengers (1,000 Person-times)	Tonnage of cargo (MTs)	No. of aircraft movements (Movements)	No. of passengers (1,000 Person-times)	Tonnage of cargo (MTs)
1952	-	-	-	-	-	-	-	5 133	26	3 122
1971	-	-	-	-	11 036	518	4 695	46 357	2 133	54 033
1981	35 202	4 714	792	215 153	21 667	1 585	19 268	21 638	2 035	7 188
1991	62 080	10 614	1 257	634 390	58 440	4 046	46 284	68 532	4 192	14 034
2001	123 916	18 461	1 968	1 189 874	94 531	8 285	88 744	151 617	10 092	13 924
2010	156 036	26 749	251	2 230 097	41 300	4 053	69 413	48 925	3 713	14 355
2011	163 200	26 414	239	2 064 194	42 596	4 051	59 193	58 185	5 259	34 492
2012	180 761	29 270	282	1 981 807	45 302	4 466	57 320	58 170	5 676	31 311
2013	194 239	32 214	403	1 967 170	46 721	4 646	60 508	60 066	5 847	36 320
2014	208 874	35 804	402	2 088 727	51 681	5 397	68 767	61 881	6 105	43 528
2015	221 191	38 473	369	2 021 865	55 685	6 001	63 031	57 642	5 861	45 218
2016	244 464	42 296	419	2 097 228	57 446	6 417	71 448	59 351	6 143	43 641
2017	246 104	44 879	399	2 269 585	51 768	6 479	81 555	53 854	5 943	45 154
2018	256 069	46 535	383	2 322 820	60 155	6 974	73 545	58 056	6 226	47 133
2019	265 625	48 689	329	2 182 342	64 015	7 507	64 677	62 951	6 350	47 800

Note: (1) Prior to and including 1994, the figures of cargo included freight, passenger baggages and mail; since 1995, the figures of cargo only include mail and freight (exclude passenger baggages).

Source: Ministry of Transportation and Communications



**Table 75. Traffic of civil aviation by airports (continued)**

Year	Hualien Airport			Taitung Airport			Penghu Airport		
	No. of aircraft movements (Movements)	No. of passengers (1,000 Person-times)	Tonnage of cargo (MTs)	No. of aircraft movements (Movements)	No. of passengers (1,000 Person-times)	Tonnage of cargo (MTs)	No. of aircraft movements (Movements)	No. of passengers (1,000 Person-times)	Tonnage of cargo (MTs)
1952	-	-	-	-	-	-	-	-	-
1971	9 342	407	2 093	604	2	0	5 848	348	2 059
1981	7 808	726	1 674	18 235	246	976	12 033	867	6 954
1991	11 784	703	2 143	30 630	492	1 220	39 758	1 534	10 681
2001	21 473	1 245	1 270	18 720	948	566	39 687	1 875	5 344
2010	5 258	263	594	10 503	408	351	33 740	1 838	7 075
2011	4 938	251	541	10 727	437	376	35 936	2 010	7 073
2012	5 131	266	490	11 753	447	403	34 679	2 107	6 902
2013	5 299	280	474	11 728	429	359	34 641	2 156	7 308
2014	4 799	214	402	13 948	380	305	33 664	2 119	6 989
2015	3 402	119	312	30 109	302	281	34 346	2 078	6 296
2016	5 599	184	288	43 984	300	284	35 682	2 320	6 061
2017	4 522	235	191	43 705	323	236	31 144	2 380	5 663
2018	4 193	193	157	42 857	327	241	38 958	2 529	6 183
2019	4 374	118	160	48 364	332	242	44 728	2 744	5 970
Year	Taichung Airport			Tainan Airport			Others (2)		
	No. of aircraft movements (Movements)	No. of passengers (1,000 Person-times)	Tonnage of cargo (MTs)	No. of aircraft movements (Movements)	No. of passengers (1,000 Person-times)	Tonnage of cargo (MTs)	No. of aircraft movements (Movements)	No. of passengers (1,000 Person-times)	Tonnage of cargo (MTs)
1952	-	-	-	-	-	-	-	-	-
1971	756	38	202	1 050	54	413	-	-	-
1981	1 798	15	209	2 553	236	826	720	71	488
1991	9 546	189	697	12 642	644	1 900	24 069	418	3 459
2001	36 829	1 246	1 683	22 274	1 646	1 198	52 863	2 286	7 617
2010	16 503	1 284	2 294	3 960	213	733	44 184	2 570	10 596
2011	18 437	1 450	2 133	4 178	235	570	46 943	2 749	10 284
2012	19 710	1 592	1 820	4 094	231	575	45 095	2 805	10 666
2013	22 120	1 807	2 004	4 746	249	610	47 075	2 708	9 935
2014	25 293	2 187	2 143	5 294	314	645	49 477	2 837	10 194
2015	26 456	2 343	2 942	5 566	321	632	46 631	2 658	10 051
2016	25 945	2 380	3 807	6 081	367	682	48 473	2 846	9 578
2017	25 528	2 395	3 567	6 364	447	697	46 192	2 898	9 388
2018	30 838	2 639	3 757	6 367	476	758	49 700	3 005	8 748
2019	33 694	2 822	3 729	6 443	469	789	51 290	3 126	9 172

**Note:** (2) From 2004, it includes the data of Hengchun Airport.

**Table 76. Cross-strait postal delivery and number of telephone incoming and outgoing volume**

Pieces, Calls, Minutes

Year	Correspondence			Telephone			
	Total	From Taiwan to Mainland	From Mainland to Taiwan	Incoming		Outgoing	
				Calls	Minutes	Calls	Minutes
1989	10 681 100	4 553 936	6 127 164	767 606	2 938 639	730 351	3 074 102
1991	15 197 609	6 109 466	9 088 143	8 025 958	26 257 083	8 719 209	26 989 763
1996	18 042 925	6 532 580	11 510 345	42 956 178	115 162 620	53 541 006	168 739 603
2001	12 630 660	5 004 283	7 626 377	114 970 716	321 953 043	154 668 202	509 835 107
2006	12 486 723	5 985 106	6 501 617	358 902 498	875 980 140	350 297 538	1505 975 668
2010	8 331 250	3 518 056	4 813 194	204 625 818	552 919 921	403 616 104	1496 326 500
2011	8 575 531	3 597 429	4 978 102	171 584 037	470 973 044	393 344 578	1364 127 550
2012	8 479 704	4 030 086	4 449 618	167 278 555	321 077 486	366 139 852	1186 399 744
2013	8 582 875	4 181 431	4 401 444	150 690 749	353 651 437	275 674 467	873 445 344
2014	8 692 880	4 643 922	4 048 958	161 446 245	310 080 038	286 519 406	794 238 649
2015	7 719 788	4 248 171	3 471 617	125 738 404	247 510 228	212 922 279	616 522 122
2016	6 851 716	3 699 181	3 152 535	71 952 515	181 607 130	169 657 521	427 881 509
2017	6 203 437	3 245 651	2 957 786	63 494 475	153 076 379	77 095 260	256 130 803
2018	5 019 817	2 976 347	2 043 470	48 738 692	120 017 680	51 490 736	173 182 518
2019	4 465 869	2 912 190	1 553 679	37 599 903	98 089 132	35 337 764	116 327 956

**Note:** The Ordinary Correspondence Posted to Mainland is operated from Apr. 18, 1988, and the Ordinary Correspondence Delivered from Mainland is operated from Mar. 19, 1988. Besides, the Registered Correspondence between Taiwan and Mainland are posted and delivered from June 1, 1993.

**Source:** 1. Ministry of Transportation and Communications  
2. National Communications Commission

**Table 77. Telephone business**

End of Year	Subscribers of local telephones (10,000 Households)		Subscribers of mobile telephones (1,000 Subscribers)		No. of public telephones (Sets)	Long-distance telephone circuits
		Subscribers per 100 pop. (Subscribers)		No. of minutes of outgoing calls (Million minutes)		Domestic (Circuits)
1952	2	-	-	-	-	463
1971	31	-	-	-	7 133	4 266
1981	282	-	-	-	59 116	63 012
1991	685	-	197	-	107 061	296 842
2001	1 286	57.4	21 786	17 301	138 623	921 225
2010	1 270	54.8	27 840	39 967	87 518	10 360 710
2011	1 268	54.6	28 862	42 835	82 345	7 310 590
2012	1 241	53.2	29 449	43 477	78 107	6 760 106
2013	1 223	52.3	29 701	37 582	74 616	5 514 334
2014	1 210	51.4	26 535	30 825	69 820	5 480 924
2015	1 189	50.6	29 369	26 795	64 361	4 647 876
2016	1 170	49.7	28 928	22 537	59 352	4 107 852
2017	1 145	48.6	28 656	18 161	53 826	6 202 512
2018	1 121	47.5	29 220	14 686	48 066	8 355 850
2019	1 099	46.6	29 208	12 325	41 311	8 027 116
End of Year	Long-distance telephone circuits			International telephones (1)		
	International (Circuits)			No. of outgoing calls (1,000 Calls)	Mainland China	No. of minutes of outgoing calls (1,000 Minutes)
	Total	Telephone circuits	Data circuits			
1952	-	-	-	-	-	-
1971	-	-	-	-	-	-
1981	-	-	-	4 293	-	27 049
1991	-	-	-	104 844	8 719	297 616
2001	-	-	-	433 642	154 668	1 514 416
2010	3 903 549	65 850	3 837 699	1 096 639	403 616	4 650 852
2011	5 537 101	71 932	5 465 169	1 065 185	393 345	4 666 714
2012	7 237 750	77 916	7 159 834	1 089 690	366 140	4 941 466
2013	9 978 853	83 840	9 895 013	828 532	275 674	3 800 525
2014	13 522 970	82 636	13 440 334	740 936	286 519	2 960 807
2015	18 540 103	87 407	18 452 696	607 540	212 922	2 230 693
2016	23 253 314	79 049	23 174 265	507 428	169 658	1 829 726
2017	33 306 651	74 221	33 232 430	372 689	77 095	1 366 845
2018	66 467 506	72 937	66 394 569	290 099	51 491	1 088 303
2019	123 773 193	66 662	123 706 531	241 961	41 859	696 408

**Note:** (1) Telephone services between the Straits started from June 1989.

**Source:** 1. Ministry of Transportation and Communications

2. National Communications Commission

Table 78. Data communication business

End of Year	No. of rental data circuit (Circuits)			Subscribers of ISDN (Households)	No. of internet accounts (1,000 Households)	Broadband (1,000 Households)	Individual internet use rate (%)
	Total	Domestic	International				
1986	54	-	54	-	-	-	-
1991	30 899	30 742	157	-	-	-	-
1996	61 988	61 600	388	-	165	-	-
2001	147 022	146 557	465	42 470	6 232	1 170	-
2006	166 954	165 816	1 138	63 449	7 037	4 506	64.4
2010	167 749	166 177	1 572	105 826	5 888	5 312	70.9
2011	172 124	170 476	1 648	123 321	6 092	5 516	72.0
2012	161 736	160 070	1 666	118 102	6 988	6 449	73.0
2013	144 673	142 881	1 792	109 373	7 536	7 012	76.3
2014	138 384	136 511	1 873	104 324	7 945	7 437	78.0
2015	146 442	144 112	2 330	14 423	8 112	7 617	78.0
2016	169 004	166 806	2 198	13 753	6 205	5 792	79.7
2017	152 179	150 040	2 139	13 073	6 223	5 823	82.3
2018	153 633	151 336	2 297	9 136	6 149	5 762	86.5
2019	149 700	147 379	2 321	7 141	6 273	5 897	86.2

Source: 1. Ministry of Transportation and Communications  
2. National Communications Commission  
3. National Development Council

**Table 79. Outbound visitors**

Person-times

Year	Total	By destination of trip					
		Asia	America	Europe	Oceania	Africa	Others
1980	484 901	402 244	73 754	4 830	1 300	2 773	-
1981	575 537	480 673	80 901	6 777	1 779	5 407	-
1991	3 366 076	3 039 090	284 062	20 281	7 894	14 749	-
2001	7 152 877	5 970 766	673 906	246 659	131 810	-	129 736
2006	8 671 375	7 525 166	687 038	258 263	124 604	-	76 304
2010	9 415 074	8 642 677	499 518	172 405	95 845	1 110	3 519
2011	9 583 873	8 762 214	473 259	239 062	101 614	238	7 486
2012	10 239 760	9 367 597	537 014	240 760	89 166	1 826	3 397
2013	11 052 908	10 388 937	446 595	119 800	97 120	14	442
2014	11 844 635	11 095 664	495 479	133 677	116 342	13	3 460
2015	13 182 976	12 353 288	548 267	161 529	118 390	30	1 472
2016	14 588 923	13 539 067	623 191	258 087	157 726	5 206	5 646
2017	15 654 579	14 253 762	697 361	496 529	184 317	16 740	5 870
2018	16 644 684	15 152 547	710 039	537 777	224 274	16 649	3 398
2019	17 101 335	15 757 473	676 520	363 583	228 135	27	75 597

**Note:** The figures are outbound departure of first or main destination.

**Source:** Ministry of Transportation and Communications

Table 80. Visitor arrivals and visitor expenditures

Year	Visitor arrivals (Person-times)			No. of visitors arriving by visiting purpose (Person-times)					
	Total	Foreigners	Overseas Chinese	Pleasure	Mainland China	Business	Visit relatives	Study	Conference
1981	1 409 465	1 116 008	293 457	1 095 754	-	129 756	43 841	7 122	-
1991	1 854 506	1 629 448	225 058	826 441	-	436 490	154 309	24 579	15 964
1996	2 358 221	2 088 539	269 682	904 489	-	704 450	241 704	27 320	25 931
2001	2 831 035	2 291 871	539 164	1 021 572	17 643	848 732	332 834	26 971	39 390
2006	3 519 827	2 855 629	664 198	1 510 207	102 782	949 836	377 455	38 649	52 634
2010	5 567 277	3 235 477	2 331 800	3 246 005	1 228 086	937 777	496 627	62 681	88 097
2011	6 087 484	3 588 727	2 498 757	3 633 856	1 290 933	984 845	500 131	62 829	81 780
2012	7 311 470	3 831 635	3 479 835	4 677 330	2 019 757	893 767	444 213	62 719	62 988
2013	8 016 280	4 095 599	3 920 681	5 479 099	2 263 635	927 262	469 877	75 938	61 608
2014	9 910 204	4 687 048	5 223 156	7 192 095	3 393 346	769 665	393 656	56 562	63 135
2015	10 439 785	4 883 047	5 556 738	7 505 457	3 437 425	758 889	408 034	59 204	60 777
2016	10 690 279	5 703 020	4 987 259	7 560 753	2 845 547	732 968	428 625	67 954	64 704
2017	10 739 601	6 452 938	4 286 663	7 648 509	2 093 548	744 402	455 429	73 135	66 519
2018	11 066 707	6 845 815	4 220 892	7 594 251	2 045 644	738 027	483 052	76 925	73 529
2019	11 864 105	7 518 268	4 345 837	8 444 024	2 052 401	746 115	478 220	80 630	76 308

  

Year	No. of visitors arriving by visiting purpose (Person-times)			Visitor expenditures (Million US\$)	Per visitor			Occupancy rate (%)	
	Exhibitions	Medical treatment	Others		Average length of stay (Nights)	Spending per day (US\$)	Spending (US\$)	International tourist hotel	Standard tourist hotel
1981	-	-	132 992	1 080	6.62	116	766.5	-	-
1991	-	-	396 723	2 018	7.31	149	1 088.4	56.4	45.1
1996	-	-	454 327	3 636	7.40	208	1 542.1	63.4	55.7
2001	-	-	561 536	4 335	7.37	208	1 531.3	62.0	58.9
2006	-	-	591 046	5 136	6.92	211	1 459.2	70.4	62.5
2010	-	-	736 090	8 719	7.06	222	1 566.2	68.9	65.2
2011	-	-	824 043	11 065	7.05	258	1 817.6	69.5	62.2
2012	15 789	58 444	1 096 220	11 769	6.87	234	1 609.7	70.9	66.2
2013	16 316	100 083	886 097	12 322	6.86	224	1 537.1	71.0	62.8
2014	13 316	60 951	1 360 824	14 615	6.65	222	1 474.7	73.5	66.6
2015	13 749	67 298	1 566 377	14 388	6.63	208	1 378.2	71.0	63.6
2016	14 876	38 260	1 782 139	13 374	6.49	193	1 251.1	67.7	62.1
2017	16 274	30 764	1 704 569	12 315	6.39	179	1 146.7	66.5	59.3
2018	17 355	34 701	2 048 867	13 705	6.46	192	1 238.4	64.9	58.1
2019	18 320	55 937	1 964 551	14 411	6.20	196	1 214.6	68.5	60.9

Source: Ministry of Transportation and Communications

**Table 81. Number of foreign visitor arrivals by residence**

Persons

Year	Grand Total									
		Asia	Hong Kong, Macao	Japan	Korea	Malaysia	Singapore	Indonesia	Philippines	Thailand
2005	2 798 210	2 107 089	77 275	1 122 192	178 964	107 084	165 666	88 086	87 205	92 584
2006	2 855 629	2 164 552	77 549	1 159 533	192 521	114 761	183 511	90 593	75 240	94 644
2007	2 988 815	2 262 176	79 548	1 164 446	222 347	140 720	204 015	95 327	80 117	89 137
2008	2 962 536	2 213 938	78 628	1 084 888	247 815	155 073	204 967	110 017	83 056	83 685
2009	2 770 082	2 052 861	84 685	998 973	164 152	166 354	194 129	106 272	73 182	77 344
2010	3 235 477	2 459 348	93 662	1 078 459	213 863	285 038	241 008	123 409	84 464	91 657
2011	3 588 727	2 773 717	97 222	1 292 999	239 740	307 301	299 238	155 881	98 740	101 695
2012	3 831 635	3 001 848	109 735	1 430 946	255 990	340 399	326 876	163 188	102 387	96 698
2013	4 095 599	3 225 595	120 924	1 420 092	348 125	393 699	364 348	170 877	97 175	103 357
2014	4 687 048	3 754 200	119 405	1 633 608	524 975	438 621	375 940	182 335	134 569	104 172
2015	4 883 047	3 919 868	119 893	1 625 900	655 886	430 843	392 687	177 397	136 915	123 872
2016	5 703 020	4 644 519	120 225	1 894 172	881 245	473 683	406 947	188 295	170 022	195 020
2017	6 452 938	5 305 939	121 881	1 897 327	1 050 922	527 293	425 238	189 178	288 033	292 054
2018	6 845 815	5 632 067	115 640	1 967 526	1 015 624	525 316	426 879	210 514	416 429	319 606
2019	7 518 268	6 223 505	116 673	2 166 211	1 238 870	536 856	460 264	229 482	506 820	413 502
Year								Oceania	Africa	Others
	America	Canada	U.S.A.	Europe	France	Germany	U.K.			
2005	453 271	53 838	388 153	171 665	21 785	39 626	35 748	55 185	9 018	1 982
2006	457 167	53 225	392 004	171 816	22 372	38 602	35 794	51 433	8 714	1 947
2007	464 911	56 554	395 036	185 553	23 693	39 372	39 758	61 146	8 414	6 615
2008	456 494	59 605	383 747	199 952	23 956	40 129	48 176	67 930	8 334	15 888
2009	436 859	59 490	365 266	196 120	24 975	39 372	44 619	65 551	7 578	11 113
2010	469 099	64 074	391 440	202 394	26 249	42 280	44 242	71 424	8 076	25 136
2011	489 442	67 049	408 054	211 422	28 909	44 506	43 278	70 018	8 714	35 414
2012	491 814	70 081	406 806	217 359	31 304	44 915	42 658	74 971	8 687	36 956
2013	497 550	72 254	410 295	222 561	32 244	46 416	42 367	77 152	8 608	64 133
2014	560 904	88 234	455 226	264 408	36 249	52 418	58 103	92 576	9 788	5 172
2015	583 707	90 370	475 933	273 543	38 228	54 847	58 675	90 364	10 013	5 552
2016	644 573	105 877	520 122	299 184	42 252	59 662	59 763	97 837	10 507	6 400
2017	696 934	117 345	557 282	329 489	46 721	65 843	64 719	107 909	11 540	1 127
2018	727 161	128 113	575 869	349 492	52 574	65 206	70 900	121 291	11 835	3 969
2019	760 737	136 252	600 726	386 168	57 291	72 593	76 759	134 456	12 371	1 031

Source: Tourism Bureau, MOTC





## **FINANCE AND INSURANCE**

Table 82. Key financial indicators

100 Millions NT\$

End of year	Foreign exchange reserves (100 Million US\$)	Monetary aggregates (M <sub>1B</sub> )		Monetary aggregates (M <sub>2</sub> ) (1)		Liquid liabilities		Reserve money	
		Amount	Annual growth rate (%)	Amount	Annual growth rate (%)	Amount	Annual growth rate (%)	Amount	Annual growth rate (2) (%)
1990	724	19 256	-6.65	62 019	10.96	69 905	12.60	11 564	2.99
1991	824	21 584	12.09	74 030	19.37	82 874	18.55	12 653	9.57
1996	880	34 261	8.31	139 739	9.13	156 464	9.71	16 525	6.67
2001	1 222	50 259	11.88	197 125	4.31	234 565	6.94	14 561	5.58
2006	2 661	82 226	4.47	256 682	5.15	350 416	7.99	18 832	7.32
2010	3 820	114 571	9.00	309 544	5.45	445 203	6.83	25 018	8.57
2011	3 855	118 302	3.26	324 519	4.84	469 541	5.47	27 209	7.49
2012	4 032	124 184	4.97	335 744	3.46	496 032	5.64	29 021	6.66
2013	4 168	134 708	8.47	355 189	5.79	530 162	6.88	31 208	7.53
2014	4 190	143 101	6.23	376 968	6.13	568 299	7.19	32 633	4.57
2015	4 260	152 926	6.87	398 840	5.80	607 126	6.83	34 524	5.79
2016	4 342	161 777	5.79	413 018	3.55	638 980	5.25	36 303	5.15
2017	4 515	167 414	3.48	427 702	3.56	672 411	5.23	37 765	4.03
2018	4 618	177 160	5.82	439 052	2.65	704 974	4.84	40 545	7.36
2019	4 781	190 606	7.59	458 918	4.52	744 291	5.58	42 985	6.02
End of year	Monetary financial institutions				Checking accounts of domestic banks (5)		Interest rates (% per annum)		
	Deposits (3)		Loans & investments (4)		Total debits	Annual rate of turnover	Discount rate	31-90 days CP rates in secondary market	Weighted averages of overnight interest rates
	Amount	Annual growth rate (%)	Amount	Annual growth rate (%)					
1990	64 715	10.30	50 635	14.83	604 050	301.5	7.750	9.57	10.49
1991	75 765	17.07	61 897	22.24	588 939	300.3	6.250	7.58	6.33
1996	142 609	8.61	130 518	7.86	942 225	438.7	5.000	5.79	5.44
2001	201 362	4.29	164 893	-0.80	1 179 413	559.5	2.125	3.69	3.69
2006	258 115	4.88	201 539	4.10	940 383	323.6	2.750	1.54	1.55
2010	310 063	5.29	228 037	6.15	763 483	239.4	1.625	0.38	0.19
2011	323 022	4.18	241 729	6.00	808 714	240.0	1.875	0.70	0.34
2012	333 004	3.09	255 488	5.69	813 810	241.7	1.875	0.79	0.43
2013	350 624	5.29	267 206	4.59	819 204	235.3	1.875	0.69	0.39
2014	371 339	5.91	281 106	5.20	849 557	231.4	1.875	0.62	0.39
2015	393 558	5.98	294 063	4.61	818 518	224.2	1.625	0.58	0.35
2016	407 174	3.46	305 492	3.89	786 187	215.9	1.375	0.39	0.19
2017	420 940	3.38	320 227	4.82	812 686	222.7	1.375	0.44	0.18
2018	431 958	2.62	337 475	5.39	852 619	230.1	1.375	0.49	0.18
2019	450 861	4.38	354 224	4.96	845 828	221.0	1.375	0.55	0.18

**Note:** (1) M<sub>2</sub> has included the net present value of money market mutual funds since Oct. 2004. (2) The annual growth rates are adjusted for most recent changes in required reserve ratios on Jan. 1, 2011 and in the share of required reserves deposited with the Bank's B account in November 2001. (3) The carrying values of the host contracts of structured products issued by banks are excluded from deposits from 2001. (4) Beginning 2004, loans includes the securities acquired under reverse repurchase agreements. Investment represents portfolio investments in entities excluding financial institutions and measured at original costs. (5) Prior to Jan. 2002, the figures exclude the data of medium business banks.

**Source:** Central Bank

**Table 83. Consolidated assets and liabilities of monetary financial institutions**

## I . Assets

Million NT\$

End of year	Assets(net) = lia.& equity (net)	Foreign assets (1)	Loans and discounts (2)				Portfolio investments in entities excluding financial institutions (3)
			Subtotal	Government agencies	Government enterprises	Private sector	Subtotal
1997	18 243 191	3 471 583	12 510 156	1 396 040	395 458	10 718 658	1 841 874
2001	22 940 262	6 003 051	14 036 644	2 134 732	460 515	11 441 397	2 452 640
2006	31 927 680	11 227 432	17 598 943	1 611 281	525 391	15 462 271	2 693 911
2008	34 939 362	13 250 923	18 470 098	1 281 184	760 190	16 428 724	2 861 563
2009	36 710 601	14 828 834	18 599 228	1 510 414	733 832	16 354 982	2 978 043
2010	37 807 420	14 590 580	19 852 506	1 525 105	791 888	17 535 513	3 045 296
2011	39 918 536	15 372 443	20 960 771	1 553 540	824 558	18 582 673	3 259 381
2012	41 496 610	15 521 003	21 650 271	1 612 117	693 934	19 344 220	3 971 878
2013	44 352 874	17 174 208	22 404 430	1 460 375	704 415	20 239 640	4 405 861
2014	47 673 680	19 048 393	23 472 558	1 445 684	632 234	21 394 640	4 735 074
2015	50 317 419	20 331 688	24 276 983	1 376 404	610 739	22 289 840	5 211 569
2016	51 762 925	20 582 106	25 122 090	1 327 585	515 184	23 279 321	5 505 143
2017	53 113 157	20 347 837	26 298 188	1 255 487	499 143	24 543 558	5 835 205
2018	55 384 931	20 762 282	27 659 920	1 236 328	554 439	25 869 153	6 243 620
2019	57 961 323	21 580 153	29 011 025	1 242 052	539 024	27 229 949	6 634 505
End of year	Portfolio investments in entities excluding financial institutions (3)			Portfolio investments in financial institutions (3)(4)(5)	Claims on life insurance companies etc.	Real estate investments	Cash in vaults
	Government agencies	Government enterprises	Private enterprises				
1997	648 132	45 957	1 147 785	169 184	30 411	46 036	173 947
2001	1 011 687	58 838	1 382 115	175 385	59 666	45 623	167 253
2006	1 442 945	123 333	1 127 633	204 614	1 708	1	201 071
2008	1 784 210	239 355	837 998	136 020	4	1	220 753
2009	1 973 133	184 826	820 084	94 357	2	1	210 136
2010	2 067 752	187 003	790 541	110 064	2	1	208 971
2011	2 199 313	219 252	840 816	112 405	270	1	213 265
2012	2 503 889	370 148	1 097 841	119 122	19	-	234 317
2013	2 718 228	401 312	1 286 321	142 032	2	-	226 341
2014	2 955 462	420 733	1 358 879	171 863	2	-	245 790
2015	3 255 789	461 798	1 493 982	244 487	13 501	-	239 191
2016	3 533 556	453 475	1 518 112	295 835	17	-	257 734
2017	3 571 638	502 684	1 760 883	380 869	176	-	250 882
2018	3 855 518	524 858	1 863 244	464 418	1	-	254 690
2019	3 942 277	588 667	2 103 561	402 778	1	-	332 861

**Note:** All transactions between institutions within the same financial subsector as well as their other assets and other liabilities are netted out in the consolidation process and are shown in other items (net).

(1) Beginning Jan. 2013, the assets in and liabilities to its (own) OBU are netted. (2) Beginning Jan. 2004, includes data for securities acquired under reverse reverse repurchase agreements. (3) Beginning Jan. 2006, portfolio investments are measured at fair values instead of original costs. (4) Beginning Jan. 2010, portfolio investments of securities of financial institutions include structured products issued by banks. (5) Beginning Sep. 2014, includes investments in RMB-denominated bonds issued by Taipei branches of Bank of China and China Construction Bank, respectively.

**Source:** Central Bank

**Table 83. Consolidated assets and liabilities of monetary financial institution (continued)**

## II. Liabilities &amp; equity

Millions NT\$

End of year	Foreign liabilities (1)	Currency issued	Deposits & money market mutual funds held by enterprises and individuals					
			Subtotal	Checking accounts	Passbook deposits	Passbook savings deposits	Time deposits (6)(7)	Time savings deposits
1997	489 623	684 311	14 321 928	308 031	892 481	2 004 376	3 162 938	5 148 420
2001	540 096	692 912	18 742 707	274 532	1 118 498	3 107 171	2 959 070	7 140 862
2006	1 913 993	959 792	24 171 821	368 535	1 942 742	5 152 628	3 207 793	7 799 752
2008	2 150 809	1 054 290	26 300 624	316 928	2 071 833	4 931 406	4 456 484	7 968 580
2009	1 731 412	1 122 754	27 974 744	337 260	2 674 529	6 587 179	4 123 174	7 488 005
2010	1 918 491	1 204 824	29 391 589	352 769	2 935 099	7 173 405	4 383 882	7 471 306
2011	2 197 026	1 320 609	30 782 080	407 865	3 013 953	7 301 054	4 792 661	7 929 738
2012	2 325 666	1 437 529	31 945 268	410 493	3 128 026	7 676 649	4 733 653	8 196 426
2013	2 451 154	1 555 992	33 810 339	380 553	3 548 807	8 211 741	4 710 445	8 343 732
2014	2 763 728	1 706 694	35 824 894	392 702	3 715 570	8 740 910	4 795 683	8 549 672
2015	2 273 608	1 804 606	37 935 013	386 245	4 108 659	9 232 268	4 928 531	8 844 915
2016	2 275 508	1 938 122	39 268 169	441 418	4 220 235	9 835 635	4 945 638	8 905 975
2017	2 679 435	2 042 185	40 618 922	432 011	4 301 094	10 217 015	5 211 288	8 805 026
2018	2 915 732	2 197 292	41 626 793	462 805	4 523 754	10 786 825	5 318 929	8 733 795
2019	2 757 637	2 447 251	43 437 577	453 847	4 902 179	11 590 209	5 259 369	9 038 495
End of year	Deposits & money market mutual funds held by enterprises and individuals			Government deposits	Due to life insurance companies etc.	Bank debentures issued (10)	Equity	Others (net) (7)
	Foreign currency deposits (7)(8)	Postal savings deposits	Money market mutual funds (9)					
1997	569 905	2 235 777	-	837 283	309 611	68 890	1 838 474	- 306 929
2001	1 101 348	3 041 226	-	949 375	340 047	202 611	2 489 969	-1 017 455
2006	1 693 697	4 002 250	4 424	901 968	236 295	925 915	3 011 388	- 193 492
2008	2 320 607	4 232 126	2 660	948 229	591 042	878 048	3 386 895	- 370 575
2009	2 341 112	4 421 531	1 954	1 005 609	815 312	797 961	3 406 762	- 143 953
2010	2 575 206	4 498 514	1 408	1 047 773	910 642	800 783	3 051 858	- 518 540
2011	2 678 404	4 656 799	1 606	957 601	842 215	884 870	3 184 415	- 250 280
2012	2 875 311	4 924 124	586	929 219	979 599	1 013 405	3 400 461	- 534 537
2013	3 475 115	5 139 278	668	873 225	972 089	1 020 927	3 644 467	24 681
2014	4 160 474	5 469 587	296	897 943	769 603	1 210 475	3 904 578	595 765
2015	4 696 000	5 738 129	266	1 037 247	515 403	1 253 490	4 300 269	1 197 783
2016	5 002 156	5 916 847	265	1 095 954	630 714	1 206 586	4 581 407	766 465
2017	5 671 371	5 981 117	-	1 115 041	828 479	1 224 554	4 738 892	- 134 351
2018	5 749 776	6 050 909	-	1 233 232	662 616	1 313 147	5 040 569	395 550
2019	6 034 062	6 159 416	-	1 308 611	1 167 995	1 311 927	5 381 186	149 139

**Note:** (6) Including NCDs (7) Beginning Jan. 2001, the carrying values of the host contracts of structured products issued by banks are excluded from deposits and relisted under other items. (8) Including foreign currency NCDs (9) The time series begins from Oct. 2004 when money market mutual funds were first issued, and ends in May 2017 after the liquidation procedure of Yuanta Commercial Bank Money Market Common Trust Fund was completed. (10) It includes the NT dollar & foreign currency-denominated bonds issued in Taiwan by domestic banks and local branches of foreign and mainland Chinese banks.

**Table 84. Consolidated assets and liabilities of financial institutions**

## I . Assets

Million NT\$

End of year	Assets(net) = lia.& equity (net)	Foreign assets (1)	Loans and discounts (2)				Subtotal
			Subtotal	Government agencies	Government enterprises	Private sector	
1997	19 862 917	3 541 258	13 306 163	1 396 040	400 458	11 509 665	2 385 362
2001	25 629 805	6 352 382	15 067 541	2 134 732	460 515	12 472 294	3 534 548
2006	38 408 672	13 278 845	18 692 761	1 611 281	525 391	16 556 089	5 337 022
2008	42 197 744	15 595 585	19 722 367	1 281 184	760 190	17 680 993	5 766 575
2009	44 940 829	17 713 238	19 788 845	1 510 414	733 832	17 544 599	6 250 565
2010	47 243 764	18 064 698	21 033 957	1 525 105	791 888	18 716 964	6 707 921
2011	50 439 640	19 620 010	22 154 442	1 553 540	824 558	19 776 344	7 189 692
2012	53 397 797	20 649 802	22 894 778	1 612 117	693 934	20 588 727	8 138 888
2013	57 990 506	23 374 432	23 849 205	1 460 375	704 415	21 684 415	8 906 817
2014	63 441 795	26 986 801	25 030 744	1 445 684	632 234	22 952 826	9 123 135
2015	67 631 343	30 357 903	25 820 298	1 376 404	610 739	23 833 155	9 170 413
2016	70 793 492	32 658 882	26 617 842	1 327 585	515 184	24 775 073	9 193 298
2017	73 876 158	33 880 438	27 775 040	1 255 487	499 143	26 020 410	9 809 079
2018	78 178 173	36 300 653	29 128 468	1 236 328	554 439	27 337 701	10 133 603
2019	82 769 181	38 090 410	30 425 322	1 242 052	539 024	28 644 246	11 467 765
End of year	Portfolio investments in entities excluding financial institutions (3)			Portfolio investments in financial institutions (3)(4)(5)	Real estate investments	Cash in vaults	
	Government securities	Government enterprises	Private enterprises				
1997	822 081	67 260	1 496 021	262 414	192 689	175 031	
2001	1 572 587	105 020	1 856 941	238 447	268 112	168 775	
2006	3 048 905	173 679	2 114 438	635 693	262 635	201 716	
2008	3 608 765	309 005	1 848 805	566 842	324 878	221 497	
2009	3 937 490	293 256	2 019 819	584 840	392 676	210 665	
2010	4 238 343	372 374	2 097 204	815 133	412 612	209 443	
2011	4 586 950	434 326	2 168 416	797 279	464 518	213 699	
2012	4 932 009	605 924	2 600 955	927 958	551 654	234 717	
2013	5 162 587	628 585	3 115 645	962 690	670 679	226 683	
2014	5 236 257	639 651	3 247 227	1 156 179	898 776	246 160	
2015	5 321 722	625 986	3 222 705	1 096 541	946 659	239 529	
2016	5 287 777	600 463	3 305 058	1 075 169	990 245	258 056	
2017	5 296 289	631 407	3 881 383	1 142 038	1 018 364	251 199	
2018	5 245 430	638 545	4 249 628	1 331 199	1 029 180	255 070	
2019	5 222 367	696 924	5 548 474	1 273 083	1 179 372	333 229	

**Note:** All transactions between institutions within the same financial subsector as well as their other assets and other liabilities are netted out in the consolidation process and are shown in other items (net). This balance sheet has included the data of money market mutual funds since 2004.

(1) Beginning Jan. 2013, the assets in and liabilities to its (own) OBU are netted. (2) Beginning Jan. 2004, includes data for securities acquired under reverse repurchase agreements. (3) Beginning Jan. 2006, portfolio investments are measured at fair values instead of original costs. (4) Beginning Jan. 2010, portfolio investments of securities of financial institutions include structured products issued by banks. (5) Beginning Sep. 2014, includes investments in RMB-denominated bonds issued by Taipei branches of Bank of China and China Construction Bank, respectively.

**Source:** Central Bank

**Table 84. Consolidated assets and liabilities of financial institutions (continued)**

## II. Liabilities &amp; equity

Million NT\$

End of year	Foreign liabilities (1)	Currency issued	Deposits & money market mutual funds held by enterprises and individuals					
			Checking accounts	Passbook deposits	Passbook savings deposits	Time deposits (6)(7)	Time savings deposits	Foreign currency deposits (7)(8)
1997	489 623	684 311	308 031	892 481	2 004 376	3 181 377	5 148 420	569 905
2001	540 096	692 912	274 532	1 118 498	3 107 171	2 967 276	7 140 862	1 101 348
2006	1 913 993	959 792	368 535	1 942 742	5 152 628	3 207 793	7 799 752	1 693 697
2008	2 150 809	1 054 290	316 928	2 071 833	4 931 406	4 456 484	7 968 580	2 320 607
2009	1 731 412	1 122 754	337 260	2 674 529	6 587 179	4 123 174	7 488 005	2 341 112
2010	1 918 491	1 204 824	352 769	2 935 099	7 173 405	4 383 882	7 471 306	2 575 206
2011	2 197 026	1 320 609	407 865	3 013 953	7 301 054	4 792 661	7 929 738	2 678 404
2012	2 325 666	1 437 529	410 493	3 128 026	7 676 649	4 733 653	8 196 426	2 875 311
2013	2 451 154	1 555 992	380 553	3 548 807	8 211 741	4 710 445	8 343 732	3 475 115
2014	2 763 728	1 706 694	392 702	3 715 570	8 740 910	4 795 683	8 549 672	4 160 474
2015	2 273 608	1 804 606	386 245	4 108 659	9 232 268	4 928 531	8 844 915	4 696 000
2016	2 275 508	1 938 122	441 418	4 220 235	9 835 635	4 945 638	8 905 975	5 002 156
2017	2 679 435	2 042 185	432 011	4 301 094	10 217 015	5 211 288	8 805 026	5 671 371
2018	2 915 732	2 197 292	462 805	4 523 754	10 786 825	5 318 929	8 733 795	5 749 776
2019	2 757 637	2 447 251	453 847	4 902 179	11 590 209	5 259 369	9 038 495	6 034 062
End of year	Deposits & money market mutual funds held by enterprises and individuals		Government deposits	Trust funds (10)	Life insurance reserves	Bank debentures issued (11)	Equity	Othes (net) (7)
	Postal savings deposits	Money market mutual funds (9)						
1997	2 235 777	-	837 623	356 550	1 565 449	68 890	2 109 461	- 589 357
2001	3 041 226	-	949 400	700 131	2 919 504	202 611	2 681 307	-1 807 069
2006	4 002 250	4 424	901 968	2 496 023	6 434 160	925 915	3 515 992	-2 910 992
2008	4 232 126	2 660	948 229	2 885 596	7 842 007	878 048	3 594 489	-3 456 348
2009	4 421 531	1 954	1 005 609	3 075 211	8 973 000	797 961	3 844 889	-3 584 751
2010	4 498 514	1 408	1 047 773	3 105 832	10 224 292	800 783	3 540 755	-3 990 575
2011	4 656 799	1 606	957 601	3 076 140	11 182 235	884 870	3 615 411	-3 576 332
2012	4 924 124	586	929 219	3 210 316	12 547 269	1 013 405	3 991 456	-4 002 331
2013	5 139 278	668	873 225	3 061 921	14 129 560	1 020 927	4 289 082	-3 201 694
2014	5 469 587	296	897 943	3 248 329	15 557 494	1 210 475	4 883 481	-2 651 243
2015	5 738 129	266	1 037 247	3 245 149	17 178 532	1 253 490	5 319 925	-2 416 227
2016	5 916 847	265	1 095 954	3 224 494	18 944 639	1 206 586	5 694 567	-2 854 547
2017	5 981 117	-	1 115 041	3 286 557	20 760 292	1 224 554	6 102 883	-3 953 711
2018	6 050 909	-	1 233 232	3 461 634	22 706 152	1 313 147	6 130 319	-3 406 128
2019	6 159 416	-	1 308 611	3 688 143	24 454 701	1 311 927	7 310 838	-3 947 504

**Note:** (6) Including NCDs (7) Beginning Jan. 2001, the carrying values of the host contracts of structured products issued by banks are excluded from deposits and relisted under other items. (8) Including foreign currency NCDs (9) The time series begins from Oct. 2004 when money market mutual funds were first issued, and ends in May 2017 after the liquidation procedure of Yuanta Commercial Bank Money Market Common Trust Fund was completed. (10) Beginning Jan. 2013, those data in custodial accounts are excluded. (11) It includes the NT dollar & foreign currency-denominated bonds issued in Taiwan by domestic banks and local branches of foreign and mainland Chinese banks.

Table 85. Interest rates and monetary market

%

Year	Discount rate (End of period)	Base lending rates (End of period) (1)	Weighted averages of overnight interest rates	CP rates (2)	Monetary aggregates (End of period) (100 million NT\$)	
					M <sub>1B</sub>	M <sub>2</sub> (3)
2005	2.25	3.85	1.31	1.27	78 711	244 101
2006	2.75	4.12	1.55	1.54	82 226	256 682
2007	3.38	4.31	2.00	1.90	82 200	258 831
2008	2.00	4.21	2.01	1.92	81 537	277 555
2009	1.25	2.56	0.11	0.24	105 116	293 556
2010	1.63	2.68	0.19	0.38	114 571	309 544
2011	1.88	2.88	0.34	0.70	118 302	324 519
2012	1.88	2.88	0.43	0.79	124 184	335 744
2013	1.88	2.88	0.39	0.69	134 708	355 189
2014	1.88	2.88	0.39	0.62	143 101	376 968
2015	1.63	2.83	0.35	0.58	152 926	398 840
2016	1.38	2.63	0.19	0.39	161 777	413 018
2017	1.38	2.63	0.18	0.44	167 414	427 702
2018	1.38	2.63	0.18	0.49	177 160	439 052
2019	1.38	2.63	0.18	0.55	190 606	458 918

**Note:** (1) Prior to Jan. 2003, the figures represent prime lending rates.

(2) It is 31-90 days CP rates in secondary market.

(3) M<sub>2</sub> has included the net present value of money market mutual funds since Oct. 2004.

**Source:** Central Bank

**Table 86. Securities trading on TWSE market**

## I . Trading value and volume

Million NT\$

Year	Trading days (Days)	Weighted averages of stock index (Monthly average)	Total trading value	Stock		Beneficiary Security		Warrant		TDR		Total trading value of bonds
				Total trading volume (Million shares)	Total trading value	Total trading volume (Million shares)	Total trading value	Total trading volume (Million shares)	Total trading value	Total trading volume (Million shares)	Total trading value	
1981	292	548.84	209 621	13 198	209 217	-	-	-	-	-	-	404
1991	286	4 928.83	10 328 388	175 941	9 682 738	-	-	-	-	-	-	6 367
1996	288	6 003.72	13 142 485	350 739	12 907 561	-	-	-	-	-	-	10 033
2001	244	4 907.43	18 421 319	606 420	18 354 936	-	-	7 784	28 440	1 005	8 707	24 037
2006	248	6 842.04	24 205 339	732 510	23 900 362	2 346	24 982	149 122	175 070	5 358	29 054	98
2010	251	7 949.63	28 890 337	817 567	28 218 676	478	5 012	204 090	204 945	17 609	261 906	-
2011	247	8 155.79	26 996 174	650 941	26 197 408	768	10 641	296 822	284 679	11 082	142 184	-
2012	250	7 481.34	20 789 632	530 706	20 238 166	1 026	15 358	246 201	231 314	4 600	35 184	-
2013	246	8 092.77	19 603 328	543 162	18 940 933	679	11 620	349 623	340 013	3 850	27 746	-
2014	248	8 992.01	23 043 284	566 992	21 898 537	602	9 905	658 104	678 846	3 357	22 574	-
2015	244	8 959.35	22 505 096	511 248	20 191 486	718	12 011	620 183	644 962	4 274	22 217	-
2016	244	8 763.26	18 915 619	438 312	16 771 139	496	7 113	436 467	425 542	1 024	4 427	-
2017	246	10 208.12	25 798 882	593 663	23 972 239	306	4 262	561 952	584 465	1 292	6 182	-
2018	247	10 620.17	32 162 376	588 973	29 608 866	315	4 224	723 926	712 550	683	2 684	-
2019	242	10 790.17	29 056 647	520 272	26 464 628	729	10 025	391 169	497 094	866	2 396	-

Source: Financial Supervisory Commission



**Table 86. Securities trading on TWSE market (continued)**

## I . Trading value and volume (continued)

Million NT\$

Year	ETF		ETN		Closed-end Fund		Investor analysis by trading value on TWSE market (1) (%)			
	Total trading volume (Million shares)	Total trading value	Total trading volume (Million shares)	Total trading value	Total trading volume (Million shares)	Total trading value	Domestic juridical persons	Foreign juridical persons	Domestic individuals	Foreign individuals
1981	-	-	-	-	-	-	-	-	-	-
1991	-	-	-	-	41 847	639 283	3.03	0.05	96.91	0.01
1996	-	-	-	-	24 088	224 890	8.62	2.12	89.25	0.01
2001	-	-	-	-	764	5 200	9.69	5.89	84.41	0.01
2006	1 533	75 212	-	-	63	561	11.04	16.15	70.56	2.25
2010	5 527	199 576	-	-	29	222	13.57	18.44	67.95	0.04
2011	9 269	360 762	-	-	65	500	15.45	21.78	62.74	0.03
2012	9 297	269 236	-	-	53	374	15.35	22.56	62.03	0.06
2013	10 427	282 346	-	-	81	670	16.17	24.64	59.16	0.03
2014	16 745	433 264	-	-	17	158	17.42	23.76	58.79	0.03
2015	66 236	1 634 420	-	-	-	-	18.35	28.36	53.27	0.02
2016	87 851	1 707 397	-	-	-	-	17.57	30.43	51.98	0.02
2017	61 829	1 231 734	-	-	-	-	14.69	25.89	59.38	0.04
2018	96 618	1 834 052	-	-	-	-	13.95	26.26	59.75	0.04
2019	125 047	2 080 519	285	1 985	-	-	14.16	27.62	58.18	0.04

## II. Securities margin trading on TWSE market

Million NT\$

Year	Total trading value (2) (A)	Margin purchasing (B)	Margin liquidation (c)	Short selling (D)	Short covering (E)	Margin purchasing (F)=(B)+(c)	Short selling (G)=(D)+(E)	Securities margin trading (H)=(B)+(C)+(D)+(E)
1981	209 217	36 774	32 180	1 892	1 769	68 954	3 661	72 615
1991	9 682 738	2 291 783	2 199 898	253 293	246 494	4 491 681	499 787	4 991 468
1996	13 134 673	5 673 983	5 329 480	430 629	390 899	11 003 463	821 528	11 824 991
2001	18 398 344	6 536 956	5 857 411	1 085 153	609 345	12 394 367	1 694 498	14 088 865
2006	24 195 028	5 734 807	5 605 136	510 621	448 820	11 339 942	959 441	12 299 384
2010	28 877 100	5 646 511	5 503 217	536 750	497 461	11 149 729	1 034 211	12 183 939
2011	26 989 135	4 431 382	4 408 553	659 424	606 673	8 839 935	1 266 096	10 106 031
2012	20 788 027	3 216 681	3 290 446	540 607	547 867	6 507 127	1 088 474	7 595 601
2013	19 602 858	2 873 796	2 897 768	393 655	392 372	5 771 564	786 027	6 557 591
2014	23 043 284	3 157 356	3 201 057	421 543	421 841	6 358 413	843 383	7 201 796
2015	22 505 096	2 581 282	2 639 023	391 291	382 134	5 220 306	773 425	5 993 731
2016	18 915 619	1 833 737	1 844 606	310 909	305 212	3 678 343	616 121	4 294 464
2017	25 798 796	2 611 933	2 563 188	349 153	327 154	5 175 121	676 307	5 851 428
2018	32 162 376	2 548 195	2 518 037	508 885	476 680	5 066 232	985 566	6 051 798
2019	29 056 319	2 213 012	2 157 449	364 622	340 236	4 370 461	704 858	5 075 319

**Note:** (1) The amounts in the table consist of both buying and selling, but they do not include auction and bidding.

(2) Total trading value include trade executed by computer only.

Table 87. Foreign exchange rates

NT\$ per foreign currency

End of year	U.S. dollar (1)		Hong Kong dollar		Pound sterling		Rand		Singapore dollar		Australian dollar	
	Buying	Selling	Buying	Selling	Buying	Selling	Buying	Selling	Buying	Selling	Buying	Selling
1981	37.79	37.89	6.63	6.67	72.18	72.54	39.37	39.57	18.44	18.53	42.57	42.79
1991	25.70	25.80	3.28	3.34	47.84	48.46	9.29	9.47	15.70	15.93	19.43	19.69
1996	27.44	27.54	3.52	3.58	46.34	46.74	5.82	6.00	19.56	19.76	21.82	22.02
2001	34.94	35.04	4.46	4.52	50.57	50.97	2.79	2.99	18.81	19.01	17.80	18.00
2006	32.55	32.65	4.16	4.22	63.84	64.24	-	-	21.16	21.36	25.70	25.90
2010	30.32	30.42	3.88	3.94	46.86	47.26	4.53	4.63	23.57	23.77	30.83	31.03
2011	30.22	30.32	3.87	3.93	46.52	46.92	3.67	3.77	23.21	23.41	30.63	30.83
2012	28.98	29.08	3.72	3.78	46.60	47.00	3.37	3.47	23.64	23.84	30.06	30.26
2013	29.72	29.82	3.81	3.87	49.01	49.41	2.80	2.90	23.45	23.65	26.46	26.66
2014	31.58	31.68	4.05	4.11	49.02	49.42	2.68	2.78	23.82	24.02	25.79	25.99
2015	32.78	32.88	4.21	4.27	48.50	48.90	2.06	2.16	23.15	23.35	23.89	24.09
2016	32.20	32.30	4.13	4.19	39.38	39.78	2.32	2.42	22.19	22.39	23.19	23.39
2017	29.75	29.85	3.82	3.88	40.44	40.84	2.14	2.24	22.18	22.38	22.62	22.82
2018	30.65	30.75	3.89	3.95	38.64	39.04	2.08	2.18	22.36	22.56	21.55	21.75
2019	29.95	30.05	3.82	3.88	39.20	39.60	2.08	2.18	22.19	22.39	20.93	21.13

  

End of year	Swiss franc		Thai baht		Canadian dollar		Euro		Renminbi (2)		Yen	
	Buying	Selling	Buying	Selling	Buying	Selling	Buying	Selling	Buying	Selling	Buying	Selling
1981	20.99	21.10	-	-	31.89	32.05	-	-	-	-	0.1696	0.1746
1991	18.89	19.14	-	-	22.15	22.34	-	-	-	-	0.2037	0.2082
1996	20.30	20.50	-	-	19.99	20.19	-	-	-	-	0.2352	0.2392
2001	20.81	21.01	0.7847	0.8047	21.91	22.11	30.78	31.18	-	-	0.2646	0.2688
2006	26.59	26.79	0.8935	0.9335	27.98	28.18	42.73	43.13	-	-	0.2720	0.2760
2010	32.31	32.51	0.9965	1.0415	30.30	30.50	40.37	40.77	-	-	0.3713	0.3753
2011	32.06	32.32	0.9442	0.9842	29.56	29.76	38.97	39.37	-	-	0.3885	0.3925
2012	31.70	31.96	0.9323	0.9723	29.09	29.29	38.28	38.68	-	-	0.3343	0.3383
2013	33.32	33.58	0.8915	0.9315	27.87	28.07	40.83	41.23	4.89	4.94	0.2815	0.2855
2014	31.83	32.09	0.9454	0.9854	27.14	27.34	38.24	38.64	5.08	5.12	0.2623	0.2663
2015	33.07	33.33	0.8939	0.9339	23.55	23.75	35.68	36.08	4.97	5.02	0.2707	0.2747
2016	31.41	31.67	0.8838	0.9238	23.81	24.01	33.69	34.09	4.59	4.64	0.2735	0.2775
2017	30.39	30.65	0.9037	0.9437	23.24	23.44	35.60	36.00	4.52	4.57	0.2645	0.2685
2018	31.05	31.31	0.9321	0.9721	22.46	22.66	34.98	35.38	4.45	4.50	0.2760	0.2800
2019	30.84	31.10	0.9900	1.0300	22.90	23.10	33.42	33.82	4.28	4.33	0.2741	0.2783

**Note:** The rates in the table are spot exchange rates.

(1) Spot exchange rates of the N.T. dollar against the U.S. dollar are bank-customer rates, and beginning Dec. 1991, figures are quoted by First Commercial Bank. (2) In view of the development where authorized foreign exchange banks has commenced renminbi business since Feb. 2013. So, data in the table would, beginning Oct. 2013, include the spot exchange rates of renminbi.

**Source:** Central Bank

Table 88. Balance of payments

Million US\$

Year	Current account (1)					Capital account (1)			Balance on current and capital account (C)=(A)+(B)
	(A)	Balance on goods	Balance on services	Balance on primary income	Balance on secondary income	(B)	credit	debit	
2005	14 948	24 510	- 14 320	9 001	- 4 243	- 46	1	47	14 902
2006	23 157	31 431	- 13 939	9 581	- 3 916	- 63	4	67	23 094
2007	32 044	38 464	- 12 787	10 132	- 3 765	- 25	3	28	32 019
2008	24 794	29 126	- 11 530	9 978	- 2 780	- 270	3	273	24 524
2009	40 662	39 372	- 9 100	12 524	- 2 134	- 50	2	52	40 612
2010	36 726	36 886	- 11 048	13 576	- 2 688	- 49	5	54	36 677
2011	37 914	39 648	- 11 252	13 179	- 3 661	- 36	3	39	37 878
2012	42 925	49 290	- 18 374	14 593	- 2 584	- 24	4	28	42 901
2013	49 937	54 578	- 15 197	13 520	- 2 964	67	103	36	50 004
2014	60 607	60 249	- 11 344	14 458	- 2 756	- 8	29	37	60 599
2015	72 769	73 139	- 10 780	13 779	- 3 369	- 5	15	20	72 764
2016	71 259	70 960	- 10 487	13 956	- 3 170	- 9	17	26	71 250
2017	83 093	81 258	- 8 723	14 695	- 4 137	- 12	14	26	83 081
2018	70 843	67 034	- 6 622	13 752	- 3 321	63	86	23	70 906
2019	65 141	57 666	- 5 066	15 405	- 2 864	- 3	63	66	65 138
Year	Financial account (1)					Total (E)=(A)+(B)-(D)	Net errors and omissions (F)	Reserves and related items (G)	
	(D)	Direct investment	Portfolio investment	Financial derivatives	Other investment				
2005	649	4 403	2 857	965	- 7 576	14 253	5 803	20 056	
2006	19 601	- 25	18 965	965	- 304	3 493	2 593	6 086	
2007	38 932	3 338	40 062	289	- 4 757	- 6 913	2 893	- 4 020	
2008	1 641	4 855	12 250	- 1 589	- 13 875	22 883	3 391	26 274	
2009	- 13 488	3 072	10 327	- 852	- 26 035	54 100	26	54 126	
2010	339	9 082	20 664	- 577	- 28 830	36 338	3 835	40 173	
2011	32 027	14 723	35 691	- 1 038	- 17 349	5 851	388	6 239	
2012	31 465	9 930	42 496	- 391	- 20 570	11 436	4 048	15 484	
2013	41 053	10 687	29 129	- 838	2 075	8 951	2 367	11 318	
2014	50 531	9 883	44 041	- 546	- 2 847	10 068	2 947	13 015	
2015	65 012	12 318	55 112	2 195	- 4 613	7 752	7 259	15 011	
2016	58 530	8 254	77 120	1 700	- 28 544	12 720	- 2 057	10 663	
2017	71 328	8 151	77 839	- 503	- 14 159	11 753	714	12 467	
2018	54 220	10 944	84 028	1 638	- 42 390	16 686	- 4 187	12 499	
2019	52 006	3 557	46 401	2 501	- 453	13 132	3 526	16 658	

Note: (1) It excludes components that have been classified in the categories of reserves and related items.

Source: Central Bank

**Table 89. Number of financial institutions**

Numbers

End of year	Total	Domestic banks (1)	Foreign banks (2)	Credit co- operative associations	Credit departments of farmers' associations	Credit departments of fishermen's associations	Bills finance companies
2008	5 475	3 426	168	298	1 077	67	43
2009	5 461	3 445	160	284	1 086	67	42
2010	5 474	3 504	117	287	1 086	67	39
2011	5 508	3 538	117	280	1 092	68	38
2012	5 534	3 604	76	279	1 094	68	38
2013	5 551	3 632	64	281	1 100	69	38
2014	5 564	3 659	63	269	1 101	69	38
2015	5 577	3 654	64	276	1 104	70	38
2016	5 593	3 651	62	283	1 105	71	38
2017	5 594	3 646	61	290	1 104	72	38
2018	5 582	3 627	61	299	1 100	71	38
2019	5 577	3 630	61	307	1 097	71	38

**Note:** Data in the table do not include Central Bank, Central Deposit Insurance Corporation and credit card companies.

(1) Including the Department of Savings & Remittances, Chunghwa Post Co.

(2) Including local branches of Mainland Chinese Banks

**Source:** Central Bank

**Table 89. Number of financial institutions (continued)**

End of year	Numbers							
	Securities finance companies	Domestic life insurance companies (3)	Domestic property and casualty insurance companies	Domestic reinsurance companies	Foreign life insurance companies	Foreign property and casualty insurance companies	Foreign reinsurance companies	Financial holding companies
2008	8	162	192	-	7	8	4	15
2009	8	151	185	-	8	6	4	15
2010	6	152	185	-	7	6	3	15
2011	6	153	185	1	6	6	2	16
2012	6	153	185	1	6	6	2	16
2013	6	146	185	1	5	6	2	16
2014	6	146	185	1	4	5	2	16
2015	6	151	186	1	4	5	2	16
2016	6	157	189	2	5	6	2	16
2017	6	156	190	2	5	6	2	16
2018	6	155	194	2	4	7	2	16
2019	3	153	186	2	4	7	2	16

**Note:** (3) Including Life Insurance Department of Chunghwa Post Co.



# **REVENUES AND EXPENDITURES OF GOVERNMENT**

Table 90. Net government revenues of all levels

Million NT\$

Fiscal Year	Total	Revenues from taxes	Revenues from monopolies	Revenues from fines & indemnities	Revenues from fees
1976	156 124	106 983	14 784	2 258	5 368
1981	411 712	281 087	33 963	6 239	11 998
1991	1 049 931	748 508	60 113	13 815	23 846
2001	1 896 841	1 200 278	57 563	41 996	76 932
2006	2 177 018	1 556 652	-	42 488	91 135
2010	2 115 554	1 565 847	-	43 021	96 458
2011	2 306 173	1 703 989	-	41 675	96 251
2012	2 321 205	1 733 350	-	66 652	96 018
2013	2 457 632	1 768 817	-	43 931	215 028
2014	2 508 815	1 917 609	-	43 293	99 805
2015	2 662 328	2 076 623	-	48 856	128 161
2016	2 690 918	2 165 967	-	45 763	96 613
2017	2 753 329	2 187 690	-	53 741	126 490
2018	2 848 611	2 299 208	-	56 737	100 225
2019	2 931 855	2 374 929	-	47 211	100 650

  

Fiscal Year	Revenues from surplus of public enterprises	Interest earnings, sales waste material	Sales properties, assessing value of properties & recalled capital	Revenues from donations & gifts	Others
1976	16 570	886	4 061	241	4 973
1981	41 107	1 693	20 831	1 213	13 582
1991	94 835	5 949	52 395	620	49 851
2001	346 581	20 319	87 762	3 748	61 662
2006	325 939	14 414	82 994	6 947	56 449
2010	286 479	16 085	53 532	12 204	41 928
2011	293 954	14 220	67 268	9 333	79 484
2012	298 007	16 388	62 102	11 982	36 707
2013	275 040	20 821	87 241	11 945	34 809
2014	271 916	33 372	92 611	11 602	38 607
2015	262 085	28 279	69 922	10 113	38 290
2016	254 953	19 197	48 382	9 592	50 450
2017	271 421	20 292	35 081	9 194	49 419
2018	273 127	22 952	38 970	8 679	48 713
2019	288 644	21 285	43 843	8 895	46 397

**Note:** 1. Before 2003, the figures are final audit accounts; 2003 to 2016, the figures are final accounts.

2. Net Revenues exclude the bond issuance and borrowing and appropriation from previous year's surplus.

**Source:** 1. Ministry of Finance  
2. National Audit Office



**Table 91. Net government expenditures of all levels**

Million NT\$

Fiscal Year	Total	Expenditures for general administration	Expenditures for national defense	Expenditures for education, science & culture	Expenditures for economic development
1976	146 594	17 859	37 013	23 783	47 603
1981	425 731	42 219	104 623	75 409	145 365
1991	1 275 613	153 278	227 099	288 077	322 087
2001	2 271 755	328 736	247 597	430 078	398 792
2006	2 214 226	345 237	234 699	484 827	341 944
2010	2 566 804	368 420	286 929	554 254	517 039
2011	2 612 947	376 015	288 889	588 555	473 801
2012	2 677 984	388 759	303 903	595 622	403 945
2013	2 665 241	381 641	292 646	599 058	393 669
2014	2 645 712	380 634	291 418	618 139	399 261
2015	2 645 189	382 543	304 636	634 781	352 780
2016	2 745 305	385 293	314 847	664 723	394 635
2017	2 778 361	382 968	304 632	691 268	389 523
2018	2 845 491	401 547	308 571	675 759	452 830
2019	2 911 645	414 938	321 506	702 539	465 519

  

Fiscal Year	Expenditures for social welfare	Expenditures for community development & environmental protection	Expenditures for retirement and condolence	Expenditures for obligations (1)	Others
1976		16 940		763	2 632
1981	16 549	9 109	25 637	1 756	5 064
1991	117 772	33 089	88 320	33 398	12 492
2001	396 981	109 597	175 722	171 565	12 687
2006	370 303	88 849	196 963	138 331	13 072
2010	415 356	89 388	201 002	119 615	14 801
2011	446 922	88 872	213 039	121 120	15 735
2012	540 440	85 380	218 355	124 937	16 643
2013	536 912	104 932	209 680	128 453	18 250
2014	517 143	84 293	213 708	125 171	15 945
2015	532 096	82 498	218 504	120 640	16 712
2016	548 538	91 967	208 057	121 036	16 209
2017	563 844	124 648	198 495	107 339	15 642
2018	588 093	106 763	189 229	106 239	16 461
2019	591 121	104 652	191 559	104 462	15 348

**Note:** 1. Before 2003, the figures are final audit accounts; 2003 to 2016, the figures are final accounts.

2. Net Expenditures exclude the debt repayment.

(1) Principal repayment are excluded.

**Source:** 1. Ministry of Finance  
2. National Audit Office

Table 92. Total net tax revenues

Million NT\$

Fiscal Year	Total	Customs duties	Income tax	Estate and gift tax	Commodity tax	Securities transaction tax	Futures transaction tax	Tobacco and alcohol tax	Business tax	Financial enterprises business tax
2005	1 567 396	82 374	625 807	30 451	168 411	68 204	6 342	50 443	263 243	25 712
2006	1 600 804	79 567	646 218	28 694	159 201	89 954	4 072	51 042	263 575	26 644
2007	1 733 895	81 859	730 160	28 481	149 037	128 895	5 758	50 415	274 268	28 131
2008	1 760 438	80 426	834 988	28 978	126 660	90 630	6 692	49 506	273 667	29 706
2009	1 530 282	68 827	640 967	22 327	127 879	105 956	3 750	45 349	245 356	21 853
2010	1 622 244	89 484	590 387	40 330	150 777	104 574	4 556	44 516	289 816	21 602
2011	1 764 611	96 323	710 191	23 659	164 877	93 990	5 860	44 660	307 691	23 806
2012	1 796 697	94 918	760 810	28 280	160 897	71 940	4 298	44 939	306 537	24 720
2013	1 834 124	97 009	743 290	23 728	162 504	71 383	2 669	44 769	327 971	24 932
2014	1 976 107	107 142	813 484	25 444	172 897	88 711	2 862	43 810	360 698	25 609
2015	2 134 857	110 978	936 731	32 736	183 131	82 033	3 783	44 160	360 899	25 137
2016	2 224 075	114 971	1 006 360	47 515	181 907	70 855	3 706	45 627	378 354	23 746
2017	2 251 246	114 957	986 412	51 085	178 467	89 967	4 190	50 235	384 978	23 124
2018	2 386 945	120 057	1 077 079	31 825	180 111	101 171	6 100	69 603	415 409	24 474
2019	2 470 519	123 042	1 148 814	34 926	176 878	91 205	4 695	68 649	420 908	26 159

Source: Ministry of Finance

**Table 92. Total net tax revenues (continued)**

Million NT\$

Fiscal Year	Specifically selected goods and services tax	Land tax	House tax	Vehicle license tax	Deed tax	Stamp tax	Amusement tax	Special and provisional tax levies (1)	Education surtax	Health and welfare surcharge on tobacco
2005	-	135 370	50 877	51 863	13 178	8 458	1 979	-	10	10 387
2006	-	131 208	52 494	52 548	14 014	8 714	1 986	-	8	17 508
2007	-	133 691	53 883	53 271	13 637	8 837	1 809	-	5	19 888
2008	-	116 082	55 343	53 255	12 696	9 650	1 745	-	5	20 115
2009	-	112 367	56 347	53 050	13 066	8 464	1 666	-	0	24 911
2010	-	136 357	58 203	54 052	13 815	8 945	1 646	-	- 9	34 795
2011	2 206	141 982	59 467	55 380	12 640	9 397	1 676	-	1	34 609
2012	4 275	143 849	61 796	56 534	11 693	10 009	1 566	-	2	34 352
2013	5 318	174 081	63 013	57 759	13 560	10 377	1 634	-	1	35 057
2014	5 401	173 175	64 673	59 326	12 535	10 644	1 624	793	0	32 889
2015	4 192	184 598	69 422	61 679	13 827	11 285	1 633	667	7	33 097
2016	2 826	177 274	72 963	63 016	11 376	10 644	1 525	795	- 1	34 363
2017	2 317	188 638	76 724	64 077	12 789	11 100	1 596	1 535	0	32 178
2018	2 474	182 437	78 588	64 830	13 366	12 147	1 778	1 785	- 0	28 186
2019	2 735	193 034	80 972	65 598	14 773	12 857	1 878	1 834	- 0	27 721

**Note:** (1) Including the special tax levies and the provisional tax levies which are imposed on the disposal of construction surplus, mining and quarrying



# **ADMINISTRATION**

**Table 93. Legislator election summary**

Persons, Years

Term	Population	Eligible voters	Election Date	Candidates		Electees		Electee's average age	Electee's education degree above college	Turnouts	Turnout ratio (%)
					Female		Female				
The 1st term	-	-	1948.01	-	-	760	-	-	-	-	-
The 2nd term	20 685 341	13 421 170	1992.12.19	403	-	161	-	46	144	9 666 021	72.02
The 3rd term	21 258 039	14 153 424	1995.12.02	397	50	164	23	47	147	9 574 388	67.65
The 4th Term	21 833 772	14 961 930	1998.12.05	498	86	225	43	48	192	10 188 302	68.09
The 5th term	22 350 363	15 822 583	2001.12.01	584	110	225	50	49	206	10 468 990	66.16
The 6th term	22 640 250	16 559 254	2004.12.11	492	96	225	47	49	430	9 796 299	59.16
The 7th term	22 925 311	17 179 656	2008.01.12	423	121	113	34	52	102	10 050 619	58.50
The 8th term	23 224 912	17 980 578	2012.01.14	410	131	113	38	52	105	13 390 326	74.47
The 9th term	23 483 793	18 692 217	2016.01.16	556	187	113	43	50	104	12 400 029	66.34
The 10th term	23 598 776	19 221 861	2020.01.11	647	245	113	47	52	108	14 402 075	74.93

Source: Central Election Commission

**Table 94. Number of all civil servants**

I . By educational attainment

Persons

End of Year & Sex	Grand total	Graduate school			University	College	High (vocational) school	Junior high school & under
		Total	Ph.D. degree	M.A. degree				
1971	302 019	3 040	-	-	57 503	43 558	113 917	84 001
1981	442 991	8 560	1 859	6 701	102 900	120 382	149 183	61 966
1991	574 658	22 275	6 274	16 001	167 377	176 828	170 502	37 676
2001	395 523	22 214	2 398	19 816	100 410	140 841	118 154	13 904
2006	335 274	33 953	2 414	31 539	105 999	116 381	74 340	4 601
2010	340 106	51 391	3 150	48 241	125 430	104 138	56 321	2 826
2011	343 323	56 580	3 371	53 209	131 514	100 455	52 014	2 760
2012	343 861	61 202	3 593	57 609	136 508	95 682	48 060	2 409
2013	346 059	65 790	3 812	61 978	141 322	92 686	44 226	2 035
2014	347 816	70 259	4 035	66 224	145 484	89 788	40 467	1 818
2015	347 552	74 370	4 192	70 178	148 766	86 476	36 364	1 576
2016	347 572	78 119	4 294	73 825	152 456	83 117	32 572	1 308
2017	349 676	81 703	4 472	77 231	156 324	80 562	29 987	1 100
2018	356 878	86 543	4 985	81 558	162 110	78 906	28 299	1 020
2019	361 421	89 452	5 179	84 273	167 444	77 071	26 530	924
By sex								
Male	209 186	52 377	3 871	48 506	80 550	54 604	20 850	805
Female	152 235	37 075	1 308	35 767	86 894	22 467	5 680	119

Source: Ministry Of Civil Service

**Table 94. Number of all civil servants (continued)**

## II. By age

Persons

End of Year	Grand Total	Average age (Years)	18-24	25-29	30-34	35-39
1971	302 019	40.32	23 278	40 919	42 881	37 058
1981	442 991	39.87	32 663	76 609	80 357	53 602
1991	574 658	39.55	41 665	79 142	97 325	104 417
2001	395 523	42.09	4 200	34 461	63 341	69 026
2006	335 274	42.88	4 454	16 010	42 356	64 009
2010	340 106	43.42	5 121	24 982	34 209	51 521
2011	343 323	43.49	5 291	25 978	36 391	48 805
2012	343 861	43.39	6 074	26 166	40 488	45 551
2013	364 059	43.38	6 609	26 550	43 493	43 605
2014	347 816	43.37	7 876	26 052	45 337	43 103
2015	347 552	43.31	8 935	25 688	46 390	43 977
2016	347 572	43.22	10 152	25 988	45 546	45 939
2017	349 676	43.17	11 342	26 964	44 130	49 811
2018	356 878	43.18	12 444	28 711	43 625	52 424
2019	361 421	43.13	12 931	31 897	42 097	54 156
End of Year	40-44	45-49	50-54	55-59	60-64	65 Years and over
1971	46 105	51 579	32 466	17 580	8 477	1 676
1981	47 499	39 400	51 130	42 128	17 883	1 720
1991	87 625	55 622	44 658	32 783	28 151	3 270
2001	73 001	69 963	46 489	20 554	13 104	1 384
2006	64 077	62 346	46 285	25 203	9 124	1 410
2010	66 415	63 946	49 545	30 369	13 472	526
2011	65 672	64 117	49 636	30 728	15 875	830
2012	65 143	63 894	48 928	30 449	16 282	886
2013	62 607	64 624	48 931	31 676	16 964	1 000
2014	58 759	66 345	49 160	32 484	17 693	1 007
2015	54 660	67 228	49 045	32 445	18 073	1 111
2016	52 211	66 457	50 035	32 084	17 901	1 259
2017	48 976	65 204	51 465	32 323	18 228	1 233
2018	47 143	62 909	54 848	34 202	19 374	1 198
2019	46 758	59 072	57 891	35 363	20 009	1 247



# APPENDIX



## EXPLANATORY NOTES

### LAND AND CLIMATE

This chapter is concerned with the land and climate in Taiwan Area. The information on land is obtained from data compiled by the Department of Land Administration, the Ministry of the Interior and the Council of Agriculture, Executive Yuan. Please refer to the *Statistical Yearbook of Interior* and the *Agricultural Statistics Yearbook* for details. The information on climate is obtained from data collected by the weather observatories of the Central Weather Bureau located all over Taiwan Area and published in the *Statistical Abstract of Transportation and Communications* by the Department of Statistics Ministry of Transportation and Communications are the same as those reported by the Central Weather Bureau .

The size of territory of the Republic of China (Taiwan) is approximately 36,000 square kilometers. It comprises the main island of Taiwan (Taiwan Proper), the archipelagoes of Penghu, Kinmen and Matsu, as well as a number of other islands.

Taiwan proper is part of the arc that lies closest to the continent and marks the edge of the Asiatic continental shelf. Measuring nearly 400 kilometers from north to south and around 145 kilometers from east to west at its widest. The Central Mountain Range slopes gently to a broad and fertile plain in the west. In the east, the mountains descend precipitously to the Pacific. The island's uplands are so extensive that only about one-fifth of Taiwan is arable. Shorelines are fairly straight and there are few good natural harbors. Rivers are short and useful for power generation, but not for navigation. Taiwan proper can be divided into five major physiographical regions: mountain ranges, volcanic mountains, foothills, tablelands, and coastal plains and basins.

The cultivated land refers to land under temporary and permanent crops, and can be classified into paddy field, and upland field of registered land, non-registered land, river alluvial land, tidal land, slope land, and virgin field. Before 1995, data of forest land area is obtained from an aerial survey from 1973 to 1977 while data of 1995 was from survey from 1984 to 1993.

The Central Weather Bureau distinctively takes the responsibility for meteorological, seismological, and related marine and astronomical operations of the nation. Taiwan's climate is subtropical but pleasant. Recently, the average temperature is between 11°C (51.8°F) and 26°C (78.8°F). Summer runs from May to October, and a mild winter from December to February. Local and seasonal variations are numerous. The north is often rainy in the winter and the south in the summer. Snow is rare and falls only on the higher mountains.

## POPULATION AND HOUSING

This chapter is concerned with population and housing. On the front of population, it contains information on population growth as well as the current status of population. Other population statistics come from the Demographic Fact Book, the *Monthly Bulletin of Interior Statistics*, and the *Statistical Yearbook of Interior*, published by the Ministry of the Interior.

The population statistics mainly come from the household registration. According to the provisions of laws and regulations, the registered population refers to all of the R.O.C. nationals maintaining household registration in Taiwan-Fukien Area. The demographic data can be divided into two kinds, i.e., year-end static population data and year-round dynamic population data. The static data are defined as those collected during a particular reference period of time; those collected by continuous registration are called dynamic data. Thus, the former includes such population data as household, age-sex composition, education, marital status, and population density; the latter comprises data of birth, death, marriage, divorce and migration. All of the static population data are conducted from the outcome of household registration. The standard day of the statistics is on December 31. All of the dynamic data are calculated in accordance with the records of the application forms of those vital events. The standard period of the statistics is from January 1 to December 31 in the year.

Fertility Rates -- Two kinds of fertility rates are presented in this section, i.e., general fertility rate and total fertility rate. The general fertility rate refers to the number of live births per thousand of mid-year childbearing age women (aged 15 to 49). The total fertility rate refers to the birth rate derived from the total number of births likely to come out from the current generation of childbearing age women during their childbearing period without death.

## MANPOWER

This chapter is concerned with labor force, employment, and unemployment. The data are mainly obtained from the results produced by the manpower resource survey and the employees' earnings survey regularly conducted by the Directorate-General of Budget, Accounting and Statistics, Executive Yuan, which are incorporated in the *Yearbook of Manpower Survey Statistics*, the *Monthly Bulletin of Manpower Statistics*, the *Yearbook of Earnings and Productivity Statistics*, and the *Monthly Bulletin of Earnings and Productivity Statistics*.

The manpower resource survey, conducted once a month, and the week containing the fifteenth day of a month is set as the reference week. The survey covers all the population of age 15 or over who are engaged in economic activities in Taiwan Area (Kinmen County and Lienchiang County excluded), but excludes those in active military services and in prison. Everyone is classified into only one of the following three slots; employment, unemployment, or not in labor force. Where a person in employment has more than one job, the job occupying the longest working time in the reference week is counted as his job. The survey adopts the two-stage stratified sampling method with the basic administration unit of Tsun or Li as the first stage sampling unit and the household as the second stage sampling unit.

In the employees' earnings survey, unless otherwise specified, the number of employees on payroll at the end of a month is collected while earning, working hours and turnover of employees at the end of each month during a year. The employees' earnings, working hours, accession and separation are monthly data multiply the number of employees of the month. Then calculate the 12-month weighted average. The object of this survey are public and private firms and their employees in Taiwan Area (Kinmen County and Lienchiang County excluded), excluding the factories owned by the Ministry of National Defense, consumers cooperatives, workshops of schools, relief institutions and prisons. In the survey period, if a surveyed worker has two jobs, these two jobs will both be counted, a way different from that for the manpower resource survey. The survey adopts both of the complete investigation approach and the cut-off stratified random sampling approach which uses the Dalenius-Hodges approximate optimum method for stratum division and the Neyman optimum Allocation for allocation of samples in each stratum. The survey is conducted in accordance with the 9th revision of Standard Industrial Classification of the Republic of China.

Labor force -- It is defined as those civilians who, during the reference week, are 15 years of age or over and who are available to work, including both the employed and the unemployed. The employed population comprise all the persons who, during the reference week, work for pay or work for 15 hours or more as unpaid family workers. The unemployed population comprise all the persons who, during the reference week, are 15 years of age or over and under the following conditions: (1) jobless, (2) available to work, (3) seeking a job or waiting for results after job seeking. Besides, the

unemployed population also includes the persons who are waiting to recall or start a new job but not working and paid yet.

Not in Labor Force -- The category comprises those civilians who during the reference week are 15 years or over and not in labor force, including the persons who intend to work but not seeking for , attending schools, being engaged in housekeeping, aged, disabled, or with some other reasons so that unemployed and not seeking for a job.--

Earnings of Employees -- The earnings of an employee are composed of the following three categories: (1) Regular earnings: It refers to regular rewards paid to employees every month. Included in the regular earnings are basic pay, regular allowance and awards such as housing allowance, transportation allowance, free meals, free water and electricity, regularly (production, good job-rating, good sales, etc.) performance awards, full attendance award, etc. Pay in kind should be converted into value at the current prices. The regular earnings should include payable income tax, insurance premium and labor union fees. (2) Over time pay: it refers to the rewards paid for employees working overtime. (3) Other irregular earnings: Included are performance awards, full attendance award, year-end bonus, bonus for Dragon Festival and/or other festivals, official trip per diems, and job transfer allowance.

## **EDUCATION, SCIENCE AND TECHNOLOGY, CULTURE AND MASS COMMUNICATION**

This chapter is concerned with information on education, science & technology, culture, and mass communication in our country. On the front of education, it contains data on the education situation and educational expenditure. All of the educational statistics are obtained from the *Education Statistics* and the *Education Statistical Indicators*, both compiled by the Ministry of Education based on statistical reports regularly submitted by all of the public and private schools, except for information on educational attainments which come from the official statistics of the Ministry of the Interior. On the front of science and technology, this chapter contains data on national research and development (R&D) expenditures, and number of patents granted. Information on R&D expenditures is obtained from the *Indicators of Science and Technology*, compiled from results of the Survey of National Science and Technology Activity annually conducted by the Ministry of Science and Technology. On the front of culture, this chapter contains data on the status of libraries and the status of historic relics. Information on culture is obtained from official statistics compiled by the Ministry of Education and the Ministry of Culture, respectively. On the front of mass communication, this chapter introduces the status of mass communication enterprises and the saturation rates for newspapers and magazines. The information on mass communication enterprises come from official statistics produced by the Ministry of Finance while that on newspapers and magazines, from the *Report on the Survey of Family Income and Expenditure* published by the Directorate-General of Budget, Accounting and Statistics, Executive Yuan.

The National Science and Technology Survey takes place once a year. Objects of the survey are all of the organizations engaging in research in the fields of natural sciences, engineering, medical sciences, agricultural sciences, humanities and social sciences, including departments and institutes of all public and private colleges and universities, independent research institutes, and public and private industries. For investigation, private industries are drawn by the stratified sampling method, and the data are used as a base to estimate the population of each related parameter by ratio estimation. For all other kinds, every object is investigated in the survey, and the data obtained from this part are directly compiled and tabulated in the statistical tables without going through any estimation process. The survey adopts the calendar year as the survey period.

School Year -- A school year begins August 1 of a year to July 31 of the next year. Each school year is divided into two semesters, with the first semester being from August 1 of a year to January 31 of the next year and the second semester, from February 1 to July 31 of the next year.

To facilitate comparison with international statistics, the indicators have presented R&D expenditures and personnel since 2001, which are classified according to the definitions in the newest edition of the OECD's R&D manual "Frascati Manual". In the OECD criterion, only persons with university degree or above are counted as "researchers". Those with lower formal qualifications are counted as "technicians."



## **HEALTH**

This chapter is concerned with information on public health in our country. It contains data on medical care facilities, health personnel, causes of death and nutrient consumption. Data on medical care facilities, health personnel and death rates of the leading causes, infant and maternity are obtained from the website of the Ministry of Health and Welfare. Data on nutrient supply are obtained from the *Food Supply & Utilization Yearbook* published by the Council of Agriculture, Executive Yuan.

The scope of data on medical care facilities covered public and private medical care institutions.

The classification standards of major causes of death are based on the tenth revision of the *International Statistical Classification of Diseases and Related Health Problems* (ICD) by the World Health Organization.

The nutrient supply is derived from the nutrients contained in the foods taken each day by each person.

## ENVIRONMENT

This chapter includes information on air pollution. Data on environment come from the official statistics contained in the *Yearbook of Environmental Protection Statistics* published by the Environmental Protection Administration, Executive Yuan.

Pollutants Standard Index (PSI) -- The procedure to calculate the PSI is as follows: First, each of the air pollutants( including suspended particulate with a diameter of 10 microns or less fine particles, sulfur dioxide(SO<sub>2</sub>), nitrogen dioxide(NO<sub>2</sub>), carbon monoxide(CO), and ozone(O<sub>3</sub>)) is monitored in the air by the monitoring stations increased to 60 stations from 2012 and scattered in Taiwan Island and Outer Islands, and the monitoring data is converted to the PSI sub-index value. Second, the largest one picked from the 5 PSI sub-index values calculated by the stations for a day is to serve as the PSI for the station on the specific day.

**PSI value cross reference table**

PSI value	PM <sub>10</sub> 24-hr. Average	SO <sub>2</sub> 24-hr. Average	CO 24-hr. Maximum 8-hour average	O <sub>3</sub> 24-hr. Maximum value of the hour	NO <sub>2</sub> 24-hr. Maximum value of the hour
	µg/m <sup>3</sup>	ppb	ppm	ppb	ppb
50	50	30	4.5	60	-
100	150	140	9	120	-
200	350	300	15	200	600
300	420	600	30	400	1200
400	500	800	40	500	1600
500	600	1000	50	600	2000

The comprehensive index of measurement for air quality was PSI before 2017, and it was changed into AQI beginning 2017.

Air quality index based on monitoring data will be on the same day in the air ozone(O<sub>3</sub>), suspended fine particles(PM<sub>2.5</sub>), suspended particles(PM<sub>10</sub>), carbon monoxide(CO), sulfur dioxide(SO<sub>2</sub>) and II Nitric oxide(NO<sub>2</sub>) such as the concentration of value, its impact on human health, were converted into different pollutants The vice-value targets, indicators, deputy to the day of the maximum value of the stations on the day of the air quality index (AQI).

## The concentration of pollutants and air quality index value deputy table

Air Quality Index(AQI)							
AQI	O <sub>3</sub> (ppm) 8hr	O <sub>3</sub> (ppm) 1-hr <sup>(1)</sup>	PM <sub>2.5</sub> (μg/m <sup>3</sup> ) 24-hr	PM <sub>10</sub> (μg/m <sup>3</sup> ) 24-hr	CO (ppm) 8-hr	SO <sub>2</sub> (ppb) 1-hr	NO <sub>2</sub> (ppb) 1-hr
Good 0~50	0.000 - 0.054	-	0.0 - 15.4	0 - 54	0 - 4.4	0 - 35	0 - 53
Moderate 51~100	0.055 - 0.070	-	15.5 - 35.4	55 - 125	4.5 - 9.4	36 - 75	54 - 100
Unhealthy for Sensitive Groups 101~150	0.071 - 0.085	0.125 - 0.164	35.5 - 54.4	126 - 254	9.5 - 12.4	76 - 185	101 - 360
Unhealthy 151~200	0.086 - 0.105	0.165 - 0.204	54.5 - 150.4	255 - 354	12.5 - 15.4	186 - 304 <sup>(3)</sup>	361 - 649
Very Unhealthy 201~300	0.106 - 0.200	0.205 - 0.404	150.5 - 250.4	355 - 424	15.5 - 30.4	305 - 604 <sup>(3)</sup>	650 - 1249
Hazardous 301~400	<sup>(2)</sup>	0.405 - 0.504	250.5 - 350.4	425 - 504	30.5 - 40.4	605 - 804 <sup>(3)</sup>	1250 - 1649
Hazardous 401~500	<sup>(2)</sup>	0.505 - 0.604	350.5 - 500.4	505 - 604	40.5 - 50.4	805 - 1004 <sup>(3)</sup>	1650 - 2049

(1) Areas are generally required to report the AQI based on 8-hour ozone values. However, there are a small number of areas where an AQI based on 1-hour ozone values would be more precautionary. In these cases, in addition to calculating the 8-hour ozone index value, the 1-hour ozone value may be calculated, and the maximum of the two values reported.

(2) 8-hour O<sub>3</sub> values do not define higher AQI values ( $\geq 301$ ). AQI values of 301 or higher are calculated with 1-hour O<sub>3</sub> concentrations.

(3) 1-hour SO<sub>2</sub> values do not define higher AQI values ( $\geq 200$ ). AQI values of 200 or greater are calculated with 24-hour SO<sub>2</sub> concentrations.

## JUSTICE AND PUBLIC SAFETY

This chapter is concerned with information on status and treatment of crimes, and fire accidents. Data on status of crimes is obtained from the official statistics contained in the *Statistics Annual Report of Police Affairs*, an annual report published by the National Police Agency, Ministry of the Interior. Data on fire accidents come from the National Fire Agency, Ministry of the Interior. Data on treatment of crimes mainly come from the official statistics compiled by the Ministry of Justice and the Judicial Yuan, contained in the *Statistical Yearbook*, an annual report published by the Statistical Department, Ministry of Justice.

Data on the status of crimes include criminal cases, cleared cases, and the number of offenders. A criminal case refers to a case in which one is found offending against the criminal codes, indicted and punished according to the Criminal Suit Law. Statistics on criminal cases are reported by the police agencies regarding complaints or accusations filed by ordinary persons or crimes found by policemen while on duty, with the figure for a specific period. The number of cleared cases refers to the criminal cases which, after investigation, are cleared by police in a specific period. Statistics on offenders refer to the number of criminal suspects who are implicated and after being revised, the monthly statistics are compiled into an annual report at the end of a year.

Violent Crime -- It principally refers to murder and nonnegligent manslaughter, serious intimidation, robbery and forceful taking, kidnapping, serious injury and forcible rape (gang rape).

Theft -- It refers to stealing of automobiles, motorcycles and other properties.

Offender Rate -- It refers to the number of offenders per 100 000 of mid-year population. Offenders are divided to 4 categories according to their age:

1. An adult offender -- refers to the offender who is of age 24 or more.
2. An adolescent offender -- refers to the offender who is of age 18 - 23.
3. A juvenile offender -- refers to the offender who is of age 12 - 17.
4. A child offender -- refers to the offender who is of age less than 12.

## SOCIAL WELFARE

This chapter is concerned with statistics on social insurance, social assistance and relief, low income households, social welfare services, and social welfare expenditure. For social insurance, the data of Government Employees' and School Staffs' Insurance, and Retired Government Employees' Insurance are obtained from the *Statistical Data for Government Employee and School Staff Insurance*, published by Bank of Taiwan. Data on Labor Insurance and Farmers' Health Insurance come from the *Statistical Yearbooks*, published by the Bureau of Labor Insurance. Statistics on National Health Insurance are obtained from the *National Health Insurance Annual Statistical Report*, published by the National Health Insurance Administration Ministry of Health and Welfare. Statistics on social welfare expenditure are obtained from the *Yearbook of Financial Statistics*, published by the Department of Statistics, Ministry of Finance. All other information comes from the *Monthly Social Welfare Statistics*, and the *Statistical Yearbook of Social Welfare*, published by the Department of Statistics, Ministry of Health and Welfare.

Social welfare statistics are compiled by the Ministry of Health and Welfare from monthly and quarterly reports regularly submitted by Municipal Governments. As it is hard to secure data concerning private social relief institutions, readers shall pay attention to revisions to data of the previous year.

Social Insurance -- It shall cover National Health Insurance, Government Employees' and School Staffs' Insurance, Retired Government Employees' Insurance, Labor Insurance, Farmers' Health Insurance and Employment Insurance.

Low Income Household -- The low-income households shall qualify under the following conditions: they are approved by their local municipality competent authority via application; their average divided monthly income among each person in the household falls below the lowest living index; and their total household assets do not exceed the specific amount announced by the central and municipality competent authorities in the year of application. The aforementioned lowest living index is based on the standard announced by the central department of budget, accounting and statistics, and is defined by the central and municipality competent authorities as 60% of the median rate of the expenditure per person in the past year in the household's local area.

Net Expenditure for Social Welfare -- The expenditure is compiled on a basis of fiscal year and it is net of the double counting arising from inter-governmental transfers. The social welfare expenditure covered social insurance (including expenditures for pension and survivors' benefits), social relief, benefit service, nationwide employment service, medical care and community development, and environmental protection before FY1989. Since FY1990, it excluded expenditure on community development, environmental protection and expenditures for pension and survivors' benefits. Data from FY1981 to 1989 are recalculated by the definition of the social welfare expenditure made in 1990.

## **NATIONAL ECONOMICS AND BUSINESS ACTIVITIES**

This chapter is concerned with information on national income, family income and expenditure and industrial inter-relations, all coming from the Directorate-General of Budget, Accounting and Statistics, Executive Yuan(DGBAS). Data on family income and expenditure, which are derived from the family income and expenditure survey, are contained in the Report on the Survey of Family Income and Expenditure. Besides, this chapter is concerned with statistical information on business activities, and the information is from Investment Commission, MOEA.

In 1953, our country began compiling annual national income statistics in Taiwan area, based on the system of national accounts by the United Nations. Preliminary Compilation of quarterly national product and income statistics started in 1970. Beginning in 1978, a macro-econometric model has been used to forecast economic conditions for the current quarter. In 1986, the prediction was extended to cover a quarter beyond the current one, an additional quarter in 1987, and four quarters to come in 1988. Data have been revised in accordance with system of national accounts 2008, and incorporated with nearly available sources such as Industrial and Commercial Census,etc. Estimates by kinds of activities have been revised, according to the ninth edition of “Standard Industrial Classification of the Republic of China”, and traced back to 2007. Data have been revised and released every 5 years, for years ending in “3” and “8”.

This country started preparation of statistics on personal income distribution in 1964, a sampling survey on household income and expenditure in the Taiwan area conducted by the DGBAS. This survey adopts a stratified two-stage sampling method with counties and cities as subpopulations. The Ts'un and Li, a basic administrative unit, is designated as the primary sampling unit (PSU), and the household in the PSU is the secondary sampling unit (SSU).

## **EXTERNAL TRADE**

External trade, covering imports and exports in value, trade composition, and trade indices are compiled from the import and export declaration documents on a monthly basis, with the results incorporated in the Monthly Statistics of Exports and Imports published by the Department of Statistics, Ministry of Finance.

Imports and exports statistics cover only cargoes exported to and imported from foreign countries; fish sales and bunker oil receipts at local ports have also been included in exports since 1970. Values of exports are priced on a free-on-board (F.O.B.) basis, and values of imports are priced on a cost-insurance-freight (C.I.F.) basis. Exported goods are classified according to the country of destination which was declared by the exporter. If there are more than one destination, the final destination shall be applied.

## **AGRICULTURE, FORESTRY AND FISHING**

This chapter is concerned with information on agriculture, forestry, fisheries, and livestock husbandry. All data on agriculture, forestry and fishing are obtained from the Agricultural Statistics Yearbook, the Fisheries Statistical Yearbook, and the Food Supply and Utilization Yearbook all published by Council of Agriculture, Executive Yuan.

The scope of agricultural production reporting system cover all agricultural products produced in Taiwan Area except sheep, horses and deer. Production does not include intermediate inputs, consumption or waste. The productions of principal products are all reported. For by-products only productions of forestry are reported. From the reported data, the Council of Agriculture picks out a number of representative products for calculation of the agricultural production index which adopts the Laspeyres fixed base weighted formula, with the weights being the prices of farm products prevailing in the base year. In shifting the base year, the Fisher Ideal formula is used to splice the new and old indices. To avoid double counting the agricultural output, seeds are deducted from the output of a crop in calculation of the output index for the crop. In calculation of the general agricultural production index, crop products used as animal feed are further deducted in order to avoid double counting of the animal feed in the crop sector. Animal feed is included in the livestock and fisheries production.

Fisheries -- This line of business can be divided into six categories, i.e., deep sea fisheries, offshore fisheries, coastal fisheries, marine aquaculture, inland water fisheries and inland water aquaculture. The deep sea fisheries refer to fishing on waters beyond the economic zones of our country by means of powered vessels. The offshore fisheries refer to fishing on the waters within the economic zones of our country, i.e., 12 nautical miles to 200 nautical miles from the coast by means of powered vessels. The coastal fisheries refer to fishing on the territorial waters, i.e., 12 nautical miles from the coast by fishing raft or other means. The marine aquaculture refers to raising aquatic animals or plants in the waters along the coast. The inland water fisheries refer to fishing or harvesting of aquatic animals or plants in inland waters. The inland water aquaculture refers to raising aquatic animals or plants in inland waters.



## INDUSTRY

This chapter is concerned with statistical data on industries and energy. Data on industrial production and industrial production indices are obtained from statistical results of the monthly industrial production, shipment and inventory survey issued in the Yearbook of Industrial Production Statistics published by the Department of Statistics, Ministry of Economic Affairs. Statistics on energy demand and supply mainly come from the official statistics printed in the yearbook of Taiwan Energy Statistics published by the Bureau of Energy, Ministry of Economic Affairs.

The industrial production, shipment and inventory survey is conducted once a month, and its scope covers the five industrial sectors in Taiwan-Fukien area, i.e. mining and quarrying, manufacturing, electricity & gas supply, water supply and building construction industries. Objects of the survey are enterprises selected from the Factory Registration Update Survey. Different sampling sizes are applied to different industries. Mining and quarrying, electricity & gas, water supply, building construction and public enterprises sectors are all subject to survey. Other sectors are partly selected as samples for survey by way of “cut-off sampling”. Different objects are subject to different survey methods. The data source of mining and quarrying major division is from the Bureau of Mines, Ministry of Economic Affairs. Public and private enterprises as well as business operators of electricity & gas supply and water supply are required to fill out the survey questionnaires by themselves. The industrial production index is calculated by Laspeyres’s formula and from the production weighted by unit net value of selected products.

On the front of energy statistics, the data has been compiled according to the new format Energy Balances.

## **TRANSPORTATION, STORAGE, COMMUNICATIONS AND TOURISM**

This chapter is concerned with statistical data on sea transportation, inland transportation, air transportation, postal services, communications, and tourism. All of the information except for tourism and communications is obtained from official registration data which are incorporated in the Statistical Abstract of Transportation and Communications published by the Ministry of Transportation and Communications. On the front of tourism, the information is contained in the relative report on tourism statistics published by the Tourism Bureau. Visitor arrivals by length of stay and visitor expenditure in Taiwan are from the Survey Report on Visitors Expenditure and Trends in Taiwan published by the Tourism Bureau, M.O.T.C. Besides, data of communications except for the rate of individual internet usage obtained from National Development Council come from National Communications Commission.

The survey of visitors expenditure and trends in Taiwan is conducted once a year. The objects of this survey are the foreign and overseas Chinese inbound visitors(excluding the foreign and overseas Chinese transit visitors).

Passenger-kilometers (or Ton-Kilometer) -- The passenger-kilometers, a unit used to measure the passenger transportation volume, refers to carrying a passenger for a distance of one kilometer. The number of passengers refer to the number of persons buying tickets, excluding the passengers exempt from transportation service charges. The distance of transportation is the one stated on the ticket. Therefore, the passenger transportation volume can be derived from the number of passengers multiplied by the distance of transportation. The ton-kilometer, a unit used to measure the volume of freight transportation, refers to carrying a ton of freight for a distance of one kilometer. The freight excludes mail, personal luggage, and fuel. The volume of freight is based on the amount and the distance stated on the invoice, and the volume of freight transportation can be derived from the weight of freight multiplied by the distance of transportation.

Number of Motor Vehicles -- The motor vehicles refer to those registered with and licensed by the vehicle administration agencies, excluding military vehicles, tricars, and motor vehicles without license plate or with temporary license plate. In March 1987, the motor vehicles further excluded those license plates having expired. Commercial vehicles include buses, trucks, pick-up truck. Specially constructed vehicles, which are installed with special equipment to serve special purposes, include towing vehicles, ambulances, fire engines, armored police vehicles, and police patrol cars.

## FINANCE AND INSURANCE

This chapter is concerned with statistical data on financial statistics, balance of payments and insurance. All of the information except for insurance is obtained from the Financial Statistics Monthly, published by the Central Bank.

The domestic financial institutions refer to financial service institutions organized and registered in accordance with the Banking Act or other decrees. The financial statistics at present classify financial institutions as monetary financial institutions, trust and investment companies, and life insurance companies. The monetary financial institutions are grouped according to whether they are able to create money, and they include the Central Bank, domestic banks (including medium business banks), local branches of foreign and Mainland Chinese banks, credit cooperative associations, Credit Departments of Farmers' and Fishermen's Associations, Chunghwa Post Co., and money market mutual funds. Although property and casualty insurance companies, bills finance companies and securities finance companies also provide financial services, they differ greatly from financial institutions in terms of the financial liabilities they hold. For this reason, they are classified as privated enterprises, instead of financial institutions, in the compilation of financial statistics.

Stock price index, which is compiled by the Taiwan Stock Exchange, is a weighted annual index using 1966 as the base year. The index is based on the closing prices of selected issues, using amount issued as the weight and calculated by the Passche Formula. The annual average is derived from the number of total trading days in a year.

Currency held by the public-- This refers to currency held by all sectors/departments except monetary financial institutions (currency held by the public = currency issued by the Central Bank — cash in vaults of monetary financial institutions).

Quasi-money-- This refers to the time deposits (including general time deposits and negotiable certificates of deposit (NCDs)), time savings deposits, and foreign currency deposits of enterprises and individuals in other monetary financial institutions. In addition, postal deposits are also included. From Jan. 1994 on, the data also include repurchase agreements and non-resident NT deposits. From Oct. 2004 on, the data also include money market mutual funds. The carrying values of the host contracts of structured products issued by banks are excluded.

Reserve money-- The reserve money comprises all reserves held by other monetary financial institutions and currency held by the public, both of which are monetary liabilities of the Central Bank. It is also referred to as “high-powered money” or “base money”. Changes in reserve money affect directly the amount of loanable funds of other monetary financial institutions. Through the money-creating process, money supply and liquidity expand or contract by a multiple which is usually measured by the ratio of monetary aggregate to reserve money.

Monetary aggregate (M1B)-- It is composed of currency held by the public and deposit money.

## **REVENUES AND EXPENDITURES OF GOVERNMENT**

This chapter is concerned with statistical data on the revenues and expenditures of general governments. The governments' net revenues and expenditures are based on an accrual basis. All of the data are obtained from the Yearbook of Financial Statistics published by the Department of Statistics, Ministry of Finance.

Net Revenues and Expenditures of General Governments -- Net revenues exclude the government bonds, borrowing and surplus of previous fiscal years. Net expenditures exclude the principal repayment.

The tax statistics of our country include direct taxes and indirect taxes. The direct taxes include income tax, land tax (agricultural land tax, land value tax, and land value increment tax), house tax, estate and gift tax, securities transaction tax, futures transaction tax, education surtax, and deed tax. All other taxes are classified as indirect taxes.

## ADMINISTRATION

This chapter is concerned with information on civil service personnel and central & local public office elections. Information on civil service personnel is obtained from the statistical yearbook compiled by the Ministry of Civil Service. Data on public office elections are compiled by the Central Election Commission.

Civil Service Personnel -- They include all politically appointed officials and administrative officers filling in civil service positions given with specific titles and grades at executive agencies, public enterprises, public schools, and other organizations formed on accordance with laws.

Central Public Office Elections -- After our country put the Constitution into force, the first central public office elections took place in 1947. Legislators had a term of three years before 2008, which is four afterwards. Meanwhile national assemblymen and members of Control Yuan had a term of six years. However, due to the loss of the mainland to the Chinese communists, the central public offices could not be put for re-election. To meet the national requirement and to make up the vacancies left for one reason or another, several additional and supplementary elections have been conducted. When the Mobilization Period ended in 1991, the second term of national assemblymen was elected in accordance with the provisions of the Constitution as amended.

Local Public Office Elections -- Local elected public offices include Taiwan provincial governor, Taiwan provincial assemblymen, mayors and councilors at New Taipei, Taipei, Taoyuan, Taichung, Tainan, and Kaohsiung Cities, county (or city) councilors, county magistrates, and city mayors in Taiwan Province. However, the term of Taiwan Provincial governor and Taiwan provincial assemblymen ended in December 1998.



## The other important indicators (URL)

Indicators	Related ministries	URL	Notes
Population by 5-year age groups/Population (Admin 1 or Admin 2 only)	Ministry of the Interior	<a href="https://www.moi.gov.tw/files/site_stuff/321/1/month/m1-06.ods">https://www.moi.gov.tw/files/site_stuff/321/1/month/m1-06.ods</a>	<a href="https://www.moi.gov.tw/files/site_stuff/321/1/month/m1-06.xls">https://www.moi.gov.tw/files/site_stuff/321/1/month/m1-06.xls</a>
Competency exam results	Ministry of Education	<a href="http://english.moe.gov.tw/lp.asp?ctNode=11432&amp;CtUnit=1348&amp;BaseDSD=16&amp;mp=1">http://english.moe.gov.tw/lp.asp?ctNode=11432&amp;CtUnit=1348&amp;BaseDSD=16&amp;mp=1</a>	Report name and location-International Comparison of Education Statistical Indicators 2017 Edition , Table 5-1 、 5-2 、 5-3 、 5-4 、 5-5 、 5-7
Immunization rate	Centers for Disease Control	<a href="https://www.cdc.gov.tw/english/list.aspx?treeid=E79C7A9E1E9B1CDF&amp;nowtreeid=9ACA97F87D31282D">https://www.cdc.gov.tw/english/list.aspx?treeid=E79C7A9E1E9B1CDF&amp;nowtreeid=9ACA97F87D31282D</a>	Immunization Coverage Annual Data - 2016
Diseases prevalence/incidence (see notes)	Ministry of Health and Welfare	<a href="https://www.mohw.gov.tw/np-135-2.html">https://www.mohw.gov.tw/np-135-2.html</a>	Report name and location- Taiwan Supplement (Malaria incidenceh 、 TB incidenceg)
Stunting, wasting, or obesity rate	Ministry of Health and Welfare	<a href="https://www.mohw.gov.tw/np-135-2.html">https://www.mohw.gov.tw/np-135-2.html</a>	Report name and location- Taiwan Supplement (Prevalence of stunting in children under 5 、 Prevalence of wasting in children under 5 、 Prevalence of overweight in children under 5)
Maternal mortality ratio	Ministry of Health and Welfare	<a href="https://www.mohw.gov.tw/np-128-2.html">https://www.mohw.gov.tw/np-128-2.html</a>	Report name and location-2016 Statistics of Causes of Death Table 11 No. of Deaths and Crude Death Rates for Neonatal, Infant and Maternal
Infant mortality rate	Ministry of Health and Welfare	<a href="https://www.mohw.gov.tw/np-128-2.html">https://www.mohw.gov.tw/np-128-2.html</a>	Report name and location-2016 Statistics of Causes of Death Table 11 No. of Deaths and Crude Death Rates for Neonatal, Infant and Maternal
Under-5 mortality rate	Ministry of Health and Welfare	<a href="https://www.mohw.gov.tw/np-128-2.html">https://www.mohw.gov.tw/np-128-2.html</a>	Report name and location-2016 Statistics of Causes of Death Table 34 No. of Deaths and Crude Death Rates for Leading Causes of Death by Age Group and Gender Table 35 No. of Deaths and Crude Death Rates for Leading Causes of Death by Age-Specific Group and Gender
Data on violence against women	Ministry of Health and Welfare	<a href="https://www.mohw.gov.tw/lp-3570-2.html">https://www.mohw.gov.tw/lp-3570-2.html</a>	Report name and location-The Statistics and Trends in Health and Welfare 2015 (Ch5.Social Welfare/ 3.Protection Services/ (1) Family Violence Prevention "Overview of Victims and Offenders of Domestic Violence Reported Over the Years")
Data on child marriages	Ministry of the Interior	<a href="https://www.moi.gov.tw/files/site_stuff/321/2/year/y02-03.xls">https://www.moi.gov.tw/files/site_stuff/321/2/year/y02-03.xls</a>	
Prison population/count	Ministry of Justice	<a href="https://www.moj.gov.tw/lp-429-095.html">https://www.moj.gov.tw/lp-429-095.html</a>	Number of Prisoners by Type of Offense; Number of Prisoners by Type of Penalty