

I . The Number of Agricultural, Forestry, Fishery, and Animal Husbandry Enterprises:

1. The number of census enterprises of agriculture, forestry, fishery, and animal husbandry increased

By the end of 2010, the number of census enterprises of agriculture, forestry, fishery, and animal husbandry amounted to 843,745 enterprises, increasing by 19,519 enterprises or 2.4% than last census (the end of 2005) . Among which, the number of agriculture(including farm households and farms)increased by 1.2% due to increase of open transaction of agricultural land and household division by inheritance.

Table 1 Change Status of Number of Census Enterprises of Agriculture, Forestry, Fishery, and animal Husbandry

	Unit: enterprise			
	End of 2010	End of 2005	Comparison in 5 years	
			Increased/ decreased number	Increased/ decreased rate (%)
Census enterprises of agriculture, forestry, fishery, and animal husbandry	843 745	824 226	19 519	2.37
Agriculture	781 518	772 354	9 164	1.19
Farm households	780 388	771 579	8 809	1.14
Farms	1 130	775	355	45.81
Agricultural service	4 657	4 682	-25	-0.53
Forestry	83 312	68 398	14 914	21.80
Fishery	48 634	49 078	-444	-0.90
Sole proprietorship fishery households	47 130	46 653	477	1.02
Non-sole proprietorship fishery households	1 504	2 425	-921	-37.98
The number of part-time enterprises in each industry	74 376	70 286	4 090	5.82
Farm households/national total households (%)	9.83	10.58	-0.75 (percentage points)	
Sole proprietorship fishery households/national total households (%)	0.59	0.64	-0.05 (percentage points)	

Note : 1. If there was any enterprise which operated more than two kinds of industry at the same time, then the enterprise was separately calculated into each industry which it operated, so that the accumulated number of all industries was larger than the number of census enterprises of agriculture, forestry, fishery, and animal husbandry; the following tables are in the same way.

2. National total households refer to the total households which registered in Ministry of the Interior; the number of farm households and the number of sole proprietorship fishery households refer to the number of common living households.

2. The number of enterprises which engaged in agriculture and fishery decreased continuously

By the end of 2010, the number of enterprises which engaged in agriculture amounted to 721,446 enterprises, decreasing by 7,941 enterprises or 1.1% than the end of 2005; the number of enterprises which engaged in fishery was 43,194 enterprises, decreasing by 2,196 enterprises or 4.8%.

Table 2 Change of Number of Agriculture and Fishery Enterprises

Unit: enterprise

	End of 2010			End of 2005			Increased/decreased rate compared in 5 years (%)			
	Total	Engaged in agriculture & fishery	Non-engaged in agriculture & fishery	Total	Engaged in agriculture & fishery	Non-engaged in agriculture & fishery	Total	Engaged in agriculture & fishery	Non-engaged in agriculture & fishery	
Agriculture {	Number	781 518	721 446	60 072	772 354	729 387	42 967	1.19	-1.09	39.81
	Percent(%)	100.00	92.31	7.69	100.00	94.44	5.56			
Farm households		780 388	720 344	60 044	771 579	728 627	42 952	1.14	-1.14	39.79
Farms		1 130	1 102	28	775	760	15	45.81	45.00	86.67
Fishery {	Number	48 634	43 194	5 440	49 078	45 390	3 688	-0.90	-4.84	47.51
	Percent(%)	100.00	88.81	11.19	100.00	92.49	7.51			
Sole proprietorship fishery households		47 130	41 749	5 381	46 653	43 074	3 579	1.02	-3.08	50.35
Non-sole proprietorship fishery households		1 504	1 445	59	2 425	2 316	109	-37.98	-37.61	-45.87

Note : 1. Non-engaged in agriculture and fishery refers to the enterprises which owned agriculture and fishery resources or equipments, but did not engage in any agriculture and fishery productions, nor provide any agriculture and fishery recreation activities; the following tables are in the same way.

2. The definition of the enterprises which engaged in agriculture and fishery at the end of 2005 is the same as the enterprises which operated agriculture and fishery shown in 2005 Census Report; the following tables are in the same way.

3. Part-time agriculture and fishery households were still the majority, but full-time agriculture and fishery households increased

By the end of 2010, among the farm households which engaged in agriculture, full-time households accounted for 24.5%, increasing by 11.1% or 2.7 percentage points in five years, and part-time households accounted for 75.5%; among the sole proprietorship fishery households which engaged in fishery, full-time households accounted for 27.5%, increasing by 11.8% or 3.7 percentage points, and part-time households accounted for 72.5%.

Table 3 Farm Households Which Engaged in Agriculture, by Full-Time and Part-Time

	End of 2010		End of 2005		In 5 years	
	Number (household)	Structure proportion (%)	Number (household)	Structure proportion (%)	Increased/decreased number (household)	Increased/decreased comparison (percentage point)
Total	720 344	100.00	728 627	100.00	-8 283	
Full-time farm households	176 755	24.54	159 070	21.83	17 685	2.71
Aged farm households	89 323	12.40	76 040	10.44	13 283	1.96
Non-aged farm households	87 432	12.14	83 030	11.39	4 402	0.74
Part-time farm households	543 589	75.46	569 557	78.17	-25 968	-2.71
Agriculture as main occupation	46 412	6.44	49 381	6.78	-2 969	-0.34
Aged farm households	5 172	0.72	3 092	0.42	2 080	0.29
Non-aged farm households	41 240	5.73	46 289	6.35	-5 049	-0.63
Non-agriculture as main occupation	497 177	69.02	520 176	71.39	-22 999	-2.37

Note : 1. Aged farm households refer to the population of 15 years old and over in the household were all with the age of 65 years old and over; the following tables are in the same way.

2. Non-aged farm households refer that there is at least one person under 65 years old in the household population of 15 years old and over; the following tables are in the same way.

3. Part-time farm households with agriculture as main occupation refer that the income sources of the household is mainly from the income of agriculture; the following tables are in the same way.

Table 4 Sole Proprietorship Fishery Households Which Engaged in Fishery, by Full-Time and Part-Time

	End of 2010		End of 2005		In 5 years	
	Number (household)	Structure proportion (%)	Number (household)	Structure proportion (%)	Increased/decreased number (household)	Increased/decreased comparison (percentage point)
Total	41 749	100.00	43 074	100.00	-1 325	
Full-time fishery households	11 477	27.49	10 269	23.84	1 208	3.65
Aged fishery households	2 891	6.92	2 404	5.58	487	1.34
Non-aged fishery households	8 586	20.57	7 865	18.26	721	2.31
Part-time fishery households	30 272	72.51	32 805	76.16	-2 533	-3.65
Fishery as main occupation	11 512	27.57	10 663	24.76	849	2.81
Non-fishery as main occupation	18 760	44.94	22 142	51.40	-3 382	-6.46

Note : 1. Aged fishery households refers to the population with 15 years old and over in the household were all 65 years old and over.

2. Non-aged fishery households refers that there is at least one person under 65 years old in the household population with 15 years old and over.

II. Agricultural, Forestry, Fishery, and Animal Husbandry Resource Distribution and Allocation

1. Agricultural cultivated land area decreased continuously; non-self-owned/used area increased

By the end of 2010, agricultural cultivated land area amounted to 579,196 ha., less 18,242 ha. or 3.1% than the end of 2005. Among which, non-self-owned/used area of the enterprises engaging in agriculture was 107,947 ha., increasing by 17,844 ha. or 19.8%.

Table 5 Cultivated Land Area of Enterprises Which Engaged in Agriculture, by Ownership and Type of Organization

	Total		Self owned/used		Non-self owned/used	
	Area (ha.)	Percent (%)	Area (ha.)	Percent (%)	Area (ha.)	Percent (%)
End of 2010	553 333	100.00	445 386	80.49	107 947	19.51
Farm households	525 052	100.00	424 916	80.93	100 136	19.07
Full-time farm households	154 970	100.00	118 010	76.15	36 960	23.85
Part-time farm households	370 082	100.00	306 906	82.93	63 176	17.07
Agriculture as main occupation	71 154	100.00	44 481	62.51	26 673	37.49
Non-agriculture as main occupation	298 928	100.00	262 425	87.79	36 503	12.21
Farms	28 281	100.00	20 470	72.38	7 811	27.62
Public farms	19 480	100.00	19 013	97.60	467	2.40
Private farms	8 801	100.00	1 457	16.55	7 344	83.45
End of 2005	579 995	100.00	489 892	84.46	90 103	15.54
Farm households	536 939	100.00	448 185	83.47	88 754	16.53
Full-time farm households	137 659	100.00	108 692	78.96	28 967	21.04
Part-time farm households	399 280	100.00	339 493	85.03	59 787	14.97
Agriculture as main occupation	72 507	100.00	50 001	68.96	22 506	31.04
Non-agriculture as main occupation	326 773	100.00	289 492	88.59	37 281	11.41
Farms	43 057	100.00	41 707	96.86	1 350	3.14
Public farms	39 285	100.00	38 466	97.92	819	2.08
Private farms	3 772	100.00	3 241	85.92	531	14.08

2. Cultivated land located and managers resided in different counties/cities

By the end of 2010, the area of cultivated land locating in the counties/cities where managers did not reside amounted to 28,478 ha. or accounted for 4.9% of total cultivated land area, among which 7,730 ha. in Pingtung County stood the most, and 2,957 ha. in Chiayi County stood the second.

Table 6 Agricultural Cultivated Land Located and Managers Resided in Different Counties/Cities, by County/City Where Cultivated Land Located

End of 2010									
	Total cultivated land area (ha.)	Managers of other county/city		Engaged in agriculture			Non-engaged in agriculture		
		Owned area in this county/city (ha.)	% of total area in this county/city (%)	Cultivated land area (ha.)	Managers of other county/city		Cultivated land area (ha.)	Managers of other county/city	
					Owned area in this county/city (ha.)	% of total area in this county/city (%)		Owned area in this county/city (ha.)	% of total area in this county/city (%)
Total	579 196	28 478	4.92	553 333	24 640	4.25	25 863	3 838	0.66
Taiwan Area	576 569	28 429	4.93	551 502	24 635	4.27	25 067	3 794	0.66
Northern Region	79 769	4 825	6.05	72 118	3 475	4.36	7 651	1 350	1.69
New Taipei City	12 988	1 329	10.23	11 215	798	6.14	1 773	531	4.09
Taipei City	1 929	39	2.02	1 773	36	1.87	156	3	0.16
Keelung City	434	46	10.60	405	31	7.14	29	15	3.46
Hsinchu City	1 714	108	6.30	1 534	88	5.13	180	20	1.17
Yilan County	18 041	438	2.43	17 101	333	1.85	940	105	0.58
Toayun County	26 721	1 032	3.86	24 592	804	3.01	2 129	228	0.85
Hsinchu County	17 942	1 833	10.22	15 498	1 385	7.72	2 444	448	2.50
Central Region	219 597	7 390	3.37	213 188	6 284	2.86	6 409	1 106	0.50
Taichung City	41 444	862	2.08	40 277	776	1.87	1 167	86	0.21
Miaoli County	22 259	1 474	6.62	20 481	951	4.27	1 778	523	2.35
Changhwa County	51 780	975	1.88	51 044	855	1.65	736	120	0.23
Nantou County	39 057	2 378	6.09	37 124	2 135	5.47	1 933	243	0.62
Yunlin County	65 057	1 701	2.61	64 262	1 567	2.41	795	134	0.21
Southern Region	228 081	14 241	6.24	220 643	13 337	5.85	7 438	904	0.40
Tainan City	72 061	2 445	3.39	70 214	2 198	3.05	1 847	247	0.34
Kaohsiung City	36 225	796	2.20	34 056	685	1.89	2 169	111	0.31
Chiayi City	1 622	98	6.04	1 589	96	5.92	33	2	0.12
Chiayi County	63 551	2 957	4.65	62 803	2 747	4.32	748	210	0.33
Pingtung County	53 116	7 730	14.55	51 185	7 547	14.21	1 931	183	0.34
Penghu County	1 506	215	14.28	796	64	4.25	710	151	10.03
Eastern Region	49 122	1 973	4.02	45 553	1 539	3.13	3 569	434	0.88
Taitung County	23 776	1 027	4.32	21 936	793	3.34	1 840	234	0.98
Hualien County	25 346	946	3.73	23 617	746	2.94	1 729	200	0.79
Kinma Area	2 627	49	1.87	1 831	5	0.19	796	44	1.67
Kinmen County	2 622	49	1.87	1 826	5	0.19	796	44	1.68
Lienkiang County	5	—	—	5	—	—	0	—	—

3. The average scale of cultivated land per enterprise decreased continuously; for the farmers whose cultivated land were not all self-owned, the scale of their cultivated land increased

By the end of 2010, for the enterprises which engaged in agriculture and had cultivated land, the average cultivated land area per enterprise was 0.77 ha., decreasing

by 0.03 ha. in 5 years, among which 570,517 enterprises, or accounting for 79.7%, had cultivated land under 1 ha.. In addition, for the farmers whose cultivated land were not all self-owned, the average cultivated land area per enterprise was 1.13 ha., increasing by 0.13 ha..

Table 7 Cultivated Land Area of Enterprises Engaging in Agriculture, by Type of Organization

	End of 2010			End of 2005			Increased/ decreased number by comparison of average cultivated land area per enterprise (ha.)
	Enterprises with cultivated land (Enterprise)	Total cultivated land area (ha.)	Average cultivated land area per enterprise (ha.)	Enterprises with cultivated land (Enterprises)	Total cultivated land area (ha.)	Average cultivated land area per enterprise (ha.)	
Total	715 500	553 333	0.77	725 091	579 995	0.80	-0.03
Farm households	714 893	525 052	0.73	724 602	536 939	0.74	-0.01
Farms	607	28 281	46.59	489	43 057	88.05	-41.46
Public farms	203	19 480	95.96	198	39 285	198.41	-102.45
Private farms	404	8 801	21.79	291	3 772	12.96	8.82

Note : Because hectare was the smallest unit of the area adopted in this table, there was slightly difference of totals after rounding.

Table 8 Number of Enterprises Engaging in Agriculture, by Scale of Cultivated Land

	End of 2010		End of 2005		Comparison in 5 years		The average cultivated land area per enterprise at the end of 2010 (ha.)
	Number (enterprise)	Structure proportion (%)	Number (enterprise)	Structure proportion (%)	Increased/ decreased number (enterprise)	Increased/ decreased rate (%)	
Total	721 446		729 387		-7 941	-1.09	0.77
With cultivated land	715 500	100.00	725 091	100.00	-9 591	-1.32	0.77
Under 0.3 ha.	202 644	28.32	216 980	29.93	-14 336	-6.61	0.20
0.3 ha.~ under 1.0 ha.	367 873	51.42	347 712	47.95	20 161	5.80	0.54
1.0 ha.~ under 3.0 ha.	127 162	17.77	141 189	19.47	-14 027	-9.93	1.52
3.0 ha. & over	17 821	2.49	19 210	2.65	-13 89	-7.23	6.72
Without cultivated land	5 946		4 296		1 650	38.41	

Table 9 Number of Enterprises Engaging in Agriculture, by Ownership of Cultivated Land

	End of 2010			End of 2005		
	Number (enterprise)	Cultivated land area (ha.)	The average cultivated land area per enterprise (ha.)	Number (enterprise)	Cultivated land area (ha.)	The average cultivated land area per enterprise (ha.)
Total	721 446			729 387		
With cultivated land	715 500	553 333	0.77	725 091	579 995	0.80
Cultivated land all self-owned	619 944	445 386	0.72	634 620	489 892	0.77
Cultivated land not all self-owned	54 621	107 947	1.13	52 643	90 103	1.00
Without cultivated land	5 946			4 296		

4. Fishing fishery equipments increased; aquaculture area of aquatic living things decreased

By the end of 2010, the number of powered fishing crafts for fishing fishery amounted to 9,549 vessels, among which 8,934 vessels were in operation, increasing by 613 vessels or 7.4% in 5 years, and the average tonnage per powered fishing craft was 56.7 tons, decreasing by 13.3 tons. Pond, shallow sea and other culture areas for aquatic living things culture were 44,082 ha., among which 41,093 ha. were in use or accounting for 93.2%, decreasing by 2,114 ha. or 4.9%.

Table 10 Overview of Powered Fishing Crafts Used in Fishing Fishery

	End of 2010	End of 2005	Comparison in 5 years	
			Increased/ decreased number	Increased/ decreased rate (%)
			Unit: vessel	
Total	9 549	8 765	784	8.94
No. of powered fishing crafts of enterprises engaging in fishery	8 994	8 407	587	6.98
With operation	8 934	8 321	613	7.37
Average tonnage per vessel (ton)	56.69	70.00	-13.31	-19.01
Without operation throughout the year	60	86	-26	-30.23
No. of powered fishing crafts of enterprises not engaging in fishery	555	358	197	55.03

Table 11 Overview of Aquaculture Area of Aquatic Living Things

		End of 2010	End of 2005	Comparison in 5 years	
				Increased/ decreased number	Increased/ decreased rate (%)
				Unit: ha.	
Pond, shallow sea and other culture areas	(ha.)	44 082	44 932	-850	-1.89
Enterprises engaging in fishery	(ha.)	41 375	43 347	-1 972	-4.55
With usage of pond, shallow sea and others	(ha.)	41 093	43 207	-2 114	-4.89
Without usage of pond, shallow sea and others throughout the year	(ha.)	282	140	142	101.43
Enterprises not engaging in fishery	(ha.)	2 707	1 585	1 122	70.79
Cage culture	(m³)	393 421	850 967	-457 546	-53.77

5. Use of seawater culture area increased; use of underground water decreased gradually

By the end of 2010, among the culture areas for aquatic living things (excluding cage), the area mainly used for seawater culture were 24,354 ha., or accounting for 58.9%, increasing by 8.4 percentage points in 5 years; the area mainly used for underground water culture were 10,677 ha. or accounting for 25.8%, decreasing by 10.6 percentage points.

Table 12 Aquaculture Area of Aquatic Living Thing for Enterprises Engaging in Fishery (Excluding Cage), by Main Water Sources and Type of Aquaculture

Unit: %

	Total		Underground water	Sea water	River, Reservoir water	Other water sources	Not in use	
	Area (ha.)	Percent						
End of 2005 {	Area (ha.)	43 347	15 781	21 879	5 171	376	140	
	Percent	100.00	36.41	50.47	11.93	0.87	0.32	
End of 2010 {	Area (ha.)	41 375	10 677	24 354	5 714	348	282	
	Percent	100.00	25.81	58.86	13.81	0.84	0.68	
Pond culture		36 956	100.00	28.87	54.76	15.44	0.93	—
Shallow sea culture		4 096	100.00	—	100.00	—	—	—
Other cultures		41	100.00	19.51	48.78	21.95	9.76	—
Suspend culture		282	100.00	—	—	—	—	100.00

6. Forestry land area increased

By the end of 2010, forestry land area (including forest land area and affiliated forest land area) amounted to 1,852,555 ha., due to the influence of promoting the forestation reward policy, increasing by 8,978 ha. or 0.5% in comparison of the end of 2005.

Table 13 Forestry Land Area, by Region

	End of 2010		End of 2005		Comparison in 5 years	
	Area (ha.)	Structure proportion (%)	Area (ha.)	Structure proportion (%)	Increased/decreased number	Increased/decreased rate (%)
Total	1 852 555	100.00	1 843 577	100.00	8 978	0.49
Taiwan Area	1 846 493	99.67	1 837 524	99.67	8 969	0.49
Northern Region	461 673	24.92	466 816	25.32	-5 143	-1.10
Central Region	417 741	22.55	408 515	22.16	9 226	2.26
Southern Region	396 410	21.40	393 484	21.34	2 926	0.74
Eastern Region	570 669	30.80	568 709	30.85	1 960	0.34
Kinma Area	6 062	0.33	6 053	0.33	9	0.15

7. Protection forest and natural forest land areas increased; production land area decreased

By the end of 2010, the forest land area were mainly used for protection forest and natural forest land, and amounted to 1,351,827 ha., increasing by 98,743 ha. or 7.9% in 5 years; production land area was 335,505 ha., decreasing by 99,877 ha. or 22.9%.

Table 14 Forest Land Area, by Purpose and Region

Unit: %

	Total		Protection forest	Natural forest	Forest recreation	Production	Non-forested land	Others	
	Area (ha.)	Percent							
End of 2005 {	Area (ha.)	1 743 734	668 367	584 717	45 924	435 382	4 942	4 402	
	Percent	100.00	38.33	33.53	2.63	24.98	0.28	0.25	
End of 2010 {	Area (ha.)	1 755 012	713 505	638 322	61 366	335 505	3 174	3 140	
	Percent	100.00	40.65	36.37	3.50	19.12	0.18	0.18	
Taiwan Area		1 748 964	100.00	40.74	36.21	3.51	19.18	0.18	0.18
Northern Region		446 996	100.00	55.38	19.85	6.46	18.20	0.06	0.05
Central Region		388 659	100.00	32.51	36.48	3.94	26.34	0.64	0.09
Southern Region		371 127	100.00	49.68	27.61	2.20	20.03	0.08	0.40
Eastern Region		542 182	100.00	28.45	55.39	1.65	14.29	0.02	0.20
Kinma Area		6 048	100.00	16.55	83.04	0.41	—	—	—

Note : For consistent comparison benchmark of the areas of two censuses by purpose, the area of reforestation on cropland in the end of 2005 was incorporated into the item of purpose for production.

III. The Population of Farm and Fishery Households

1. The number of population in farm and fishery households decreased

By the end of 2010, the number of population in farm households and fishery households of sole proprietorship were 2,975,523 persons and 175,456 persons respectively, accounting for 12.9% and 0.8% of national total population, decreasing by 2.1 and 0.1 percentage points respectively in 5 years.

Table 15 Population of Farm and Fishery Households

	End of 2010				End of 2005				Increased/decreased rate of pop. per household in 5 years (%)
	Household	Population	% of national total pop.	Average size per household	Household	Population	% of national total pop.	Average size per household	
Farm households & sole proprietorship fishery households	812 280	3 091 871	13.35	3.81	802 762	3 544 802	15.57	4.42	-12.78
Farm households	780 388	2 975 523	12.85	3.81	771 579	3 417 572	15.01	4.43	-12.93
Engaged in agriculture	720 344	2 776 301	11.99	3.85	728 627	3 259 545	14.31	4.47	-14.83
Non-engaged in agriculture	60 044	199 222	0.86	3.32	42 952	158 027	0.69	3.68	26.07
Sole proprietorship fishery households	47 130	175 456	0.76	3.72	46 653	193 993	0.85	4.16	-9.56
Engaged in fishery	41 749	157 215	0.68	3.77	43 074	179 853	0.79	4.18	-12.59
Non-engaged in fishery	5 381	18 241	0.08	3.39	3 579	14 140	0.06	3.95	29.00

Note : If a household engaged in agriculture and fishery at the same time, then the household was separately calculated into the two industries, so that their accumulated number was larger than the number of farm households and sole proprietorship fishery households.

2. The population structure of farm and fishery households was mainly 1 to 3 persons

By the end of 2010, the number of population in farm households and sole proprietorship fishery household was both 1 to 3 persons as the most, accounting for 49.0% and 50.0% respectively, and increased by 9.4 and 7.9 percentage points in 5 years. Among which the number of farm households with the population of 1 person increased by 29,938 households or 44.3%.

Table 16 Number of Farm and Fishery households, by Family Member

	End of 2010		End of 2005		Comparison in 5 years	
	Number (household)	Structure proportion (%)	Number (household)	Structure proportion (%)	Increased/ decreased number (household)	Increased/ decreased rate (%)
Farm households	780 388	100.00	771 579	100.00	8 809	1.14
1~3 persons	382 222	48.98	305 137	39.55	77 085	25.26
1 person	97 592	12.51	67 654	8.77	29 938	44.25
2 persons	169 852	21.76	137 891	17.87	31 961	23.18
3 persons	114 778	14.71	99 592	12.91	15 186	15.25
4~6 persons	317 224	40.65	332 577	43.10	- 15 353	-4.62
7 persons & over	80 942	10.37	133 865	17.35	- 52 923	-39.53
Sole proprietorship fishery households	47 130	100.00	46 653	100.00	477	1.02
1~3 persons	23 543	49.96	19 630	42.08	3 913	19.93
1 person	5 150	10.93	3 525	7.56	1 625	46.10
2 persons	11 051	23.45	9 466	20.29	1 585	16.74
3 persons	7 342	15.58	6 639	14.23	703	10.59
4~6 persons	19 499	41.37	21 088	45.20	- 1 589	-7.54
7 persons & over	4 088	8.67	5 935	12.72	- 1 847	-31.12

3. The population engaging in own farm and fishery work in farm and fishery households decreased, among which the number of population who worked over 90 days decreased by 10% and over

In 2010, among the population of 15 years old and over in the households which engaged in agriculture and fishery, the number of population who engaged in own farm work for 1 day and over was 1,392,626 persons, decreasing by 166,991 persons or 10.7% in 5 years, among which the number of population who engaged in own farm work for 90 days and over was 367,095 persons, decreasing by 73,206 persons or 16.6%; the number of population who engaged in own fishery work was 76,153 persons, decreasing by 3,268 persons or 4.1%, among which the number of population who engaged in own fishery work for 90 days and over was 36,944 persons, decreasing by 4,856 persons or 11.6%.

**Table 17 Population Engaging in Own Farm Work in Farm Households,
by Work Days and Age**

Unit: %

	Total		1 ~ 29 days	30 ~ 59 days	60~ 89 days	90~ 149 days	150~ 179 days	180~ 249 days	Over 250 days	Average work days throughout the year per person (day)	
	Number (person)	Percent									
End of 2010 {	Number (person)	1 392 626	559 171	279 205	187 155	125 196	88 301	69 304	84 294	76	
	Percent	100.00	40.15	20.05	13.44	8.99	6.34	4.98	6.05		
15~24 years old		41 622	100.00	74.97	14.01	4.83	1.96	1.57	1.10	1.56	33
25~44 years old		303 808	100.00	52.50	19.57	9.98	5.52	3.89	3.58	4.96	60
45~64 years old		613 962	100.00	33.76	21.35	14.85	9.95	7.07	5.79	7.25	84
65~69 years old		136 062	100.00	29.27	19.53	15.94	12.20	9.01	6.53	7.51	92
70 years old & over		297 172	100.00	40.85	18.94	14.13	10.07	6.79	4.56	4.67	73
End of 2005 {	Number (person)	1 559 617	563 315	345 678	210 323	133 937	115 945	86 005	104 414	81	
	Percent	100.00	36.12	22.16	13.49	8.59	7.43	5.52	6.69		
15~24 years old		53 626	100.00	75.23	14.10	4.67	1.69	1.57	1.44	1.30	33
25~44 years old		415 108	100.00	51.34	20.31	10.46	5.15	4.31	3.75	4.68	60
45~64 years old		641 630	100.00	28.15	22.88	15.28	9.73	8.68	6.71	8.57	93
65~69 years old		169 012	100.00	21.89	23.08	15.64	12.21	11.01	7.54	8.63	101
70 years old & over		280 241	100.00	32.92	24.26	14.23	10.21	8.17	4.96	5.25	79

**Table 18 Population Engaging in Own Fishery Work in Fishery Households,
by Work Days and Age**

Unit: %

	Total		1 ~ 29 days	30 ~ 59 days	60~ 89 days	90~ 149 days	150~ 179 days	180~ 249 days	Over 250 days	Average work days throughout the year per person (day)	
	Number (person)	Percent									
End of 2010 {	Number (person)	76 153	17 229	12 071	9 909	10 159	9 619	8 841	8 325	116	
	Percent	100.00	22.63	15.85	13.01	13.34	12.63	11.61	10.93		
15~24 years old		2 393	100.00	61.43	16.67	5.98	4.51	4.35	4.09	2.97	52
25~44 years old		19 485	100.00	31.33	17.29	11.60	9.85	9.83	10.33	9.77	102
45~64 years old		36 388	100.00	16.14	15.28	13.83	14.79	14.18	13.26	12.52	128
65~69 years old		6 744	100.00	16.50	15.23	14.24	15.84	14.90	12.41	10.88	124
70 years old & over		11 143	100.00	23.93	15.42	13.58	15.10	12.88	9.59	9.50	110
End of 2005 {	Number (person)	79 421	17 894	11 453	8 274	15 772	9 605	7 031	9 392	117	
	Percent	100.00	22.53	14.42	10.42	19.86	12.09	8.85	11.83		
15~24 years old		2 519	100.00	62.96	13.85	5.28	6.59	4.37	2.9	4.05	53
25~44 years old		22 324	100.00	31.96	15.99	10.27	14.29	9.53	7.94	10.02	100
45~64 years old		36 872	100.00	15.64	13.84	11.18	21.73	13.71	10.14	13.76	130
65~69 years old		8 501	100.00	15.31	12.94	9.96	25.37	14.03	9.53	12.86	129
70 years old & over		9 205	100.00	22.87	14.47	9.54	24.40	12.16	6.90	9.66	111

4. The work status throughout the year of the population in farm and fishery households mainly engaged in the jobs other than farm and fishery work

By the end of 2010, among the population of 15 years old and over in the households which engaged in agriculture and fishery, the number of persons with a job both accounted for 68.9%, among which the number of persons engaging in non-farm and non-fishery work accounted for 44.3% and 36.7% respectively as the most.

Table 19 Population of Farm Households, 15 Years Old and Over, by Regular Work and Age

	End of 2010								Unit: %
	Total		With a job		House keeping	Attending school or preparing to take entrance exam	Sickness or living a retired life	Others	
	Number (person)	Percent	Engaged in farm work	Engaged in non-farm work					
Total	2 403 865	100.00	24.63	44.30	12.51	8.62	9.27	0.67	
15~24 years old	296 387	100.00	1.27	28.48	1.01	67.13	0.24	1.87	
25~44 years old	757 426	100.00	8.85	80.72	7.76	1.09	0.56	1.02	
45~64 years old	778 082	100.00	34.74	44.00	19.49	0.00	1.41	0.36	
65~69 years old	159 699	100.00	52.47	9.69	21.06	—	16.78	—	
70 years old & over	412 271	100.00	40.57	2.73	13.01	—	43.69	—	

Table 20 Population of Sole Proprietorship Fishery Households, 15 Years Old and Over, by Regular Work and Age

	End of 2010								Unit: %
	Total		With a job		House keeping	Attending school or preparing to take entrance exam	Sickness or living a retired life	Others	
	Number (person)	Percent	Engaged in fishery work	Engaged in non-fishery work					
Total	135 694	100.00	32.13	36.74	15.29	8.79	6.35	0.70	
15~24 years old	17 416	100.00	2.79	27.72	1.37	65.71	0.22	2.19	
25~44 years old	44 940	100.00	19.30	66.60	11.63	1.06	0.43	0.98	
45~64 years old	47 516	100.00	48.07	27.24	23.28	0.00	1.14	0.27	
65~69 years old	8 633	100.00	52.72	11.93	21.82	—	13.53	—	
70 years old & over	17 189	100.00	41.03	6.55	13.61	—	38.81	—	

IV. Agricultural Labor Force

1. The number of agricultural, forestry, fishery, and animal husbandry employees amounted to 1,711 thousand persons, among which the number of workers without regular wages accounted for 86.0%

In 2010, the number of agricultural, forestry, fishery, and animal husbandry employees amounted to 1,711,175 persons (including regular employees and casual

employees by the end of 2010, and people who engaged in own farm and fishery work for 1 day and over throughout the year) ; the average number of employees per enterprise was 2.2 persons, among which the number of workers without regular wages accounted for 86.0%.

Table 21 Number of Agricultural, Forestry, Fishery, and Animal Husbandry Employees

		End of 2010				
		Total	Regular employees	Casual employees	Workers without regular wages	Average number of employees per household
Agricultural, forestry, fishery, and animal husbandry	Number (person)	1 711 175	59 894	179 437	1 471 844	2.17
	Percent (%)	100.00	3.50	10.49	86.01	
Agriculture	Number (person)	1 564 278	22 292	147 774	1 394 212	2.17
	Percent (%)	100.00	1.42	9.45	89.13	
Farm households	Number (person)	1 548 417	11 419	144 372	1 392 626	2.15
	Percent (%)	100.00	0.74	9.32	89.94	
Farms	Number (person)	15 861	10 873	3 402	1 586	14.39
	Percent (%)	100.00	68.55	21.45	10.00	
Agriculture service	Number (person)	14 829	1 783	4 699	8 347	3.18
	Percent (%)	100.00	12.02	31.69	56.29	
Forestry	Number (person)	65 326	3 873	11 863	49 590	0.78
	Percent (%)	100.00	5.93	18.16	75.91	
Fishery	Number (person)	124 240	31 946	15 101	77 193	2.88
	Percent (%)	100.00	25.71	12.16	62.13	
Sole proprietorship fishery households	Number (person)	102 459	12 867	13 439	76 153	2.45
	Percent (%)	100.00	12.56	13.12	74.32	
Non-sole proprietorship fishery households	Number (person)	21 781	19 079	1 662	1 040	15.07
	Percent (%)	100.00	87.59	7.63	4.78	

Note : 1. The number of employees of agriculture and fishery included regular employees, casual employees, and workers without regular wages in farm household and sole proprietorship fishery household; the following tables are in the same way.

2. If a worker without regular wages in farm households and sole proprietorship fishery households engaged in 2 kinds of works of different industries at the same time, then the worker was separately calculated into each industry, so that the accumulated number of items in each industry was larger than total workers without regular wages in agricultural, forestry, fishery, and animal husbandry; the following tables are in the same way.

2. The managers who engaged in agriculture, forestry, fishery, and animal husbandry were increasingly aged; the willingness of succession of members in farm and fishery households declined.

By the end of 2010, the average age of managers who engaged in agriculture, forestry, fishery, and animal husbandry was 61.7 years old, increasing by 0.8 years old in comparison of the end of 2005, among which the numbers of managers of 65 years old and over in farm households and sole proprietorship fishery households accounted for 44.0% and 30.7% respectively; the ratio of households with work successors accounted for 27.2% and 20.9% respectively, decreasing by 8.0 and 1.2 percentage points respectively in 5 years.

Table 22 Mangers Engaging in Agriculture, forestry, Fishery, and Animal Husbandry, by Sex and Age

Unit: %

	Total		Sex		Age					Average age (years old)
	Number (person)	Percent	Male	Female	15 ~ 24 years old	25 ~ 44 years old	45 ~ 64 years old	65 ~ 69 years old	70 years old & over	
End of 2005	784 829	100.00	83.30	16.70	0.08	10.10	47.22	15.05	27.55	60.85
End of 2010	789 398	100.00	81.10	18.90	0.11	8.43	48.67	12.49	30.30	61.67
Agriculture	721 446	100.00	81.05	18.95	0.09	7.83	48.15	12.76	31.17	62.03
Farm households	720 344	100.00	81.03	18.97	0.09	7.82	48.11	12.77	31.21	62.04
Farms	1 102	100.00	90.38	9.62	0.36	17.33	68.42	6.81	7.08	53.93
Agriculture service	4 657	100.00	97.77	2.23	0.09	14.41	61.50	12.90	11.10	56.61
Forestry	83 312	100.00	79.51	20.49	0.28	11.35	49.75	10.90	27.72	60.19
Fishery	43 194	100.00	88.52	11.48	0.13	13.72	56.00	11.12	19.03	57.76
Sole proprietorship fishery households	41 749	100.00	88.48	11.52	0.13	13.63	55.55	11.26	19.43	57.88
Non-sole proprietorship fishery households	1 445	100.00	89.69	10.31	0.07	16.40	68.93	6.99	7.61	54.14

Table 23 Farm Households Engaging in Agriculture, by Number of Farm Successors

	Grand Total	With farm successors				Without farm successors	
		Total	1 person	2 persons	3 persons & over		
End of 2005 {	Number (household)	728 627	256 362	219 921	29 729	6 712	472 265
	Percent (%)	100.00	35.18	30.18	4.08	0.92	64.82
End of 2010 {	Number (household)	720 344	195 790	182 685	11 362	1 743	524 554
	Percent (%)	100.00	27.18	25.36	1.58	0.24	72.82

Note : Farm successors refers to the children or brothers and sisters of farm director among the population with 15 years old and over in that household, who are willing to continue own farm work in the future; however, if the relationship between he/she and the director is husband and wife, then the person will not be listed as the successor.

Table 24 Sole Proprietorship Fishery Households Engaging in Fishery, by Number of Fishery Successors

	Grand Total	With fishery successors				Without fishery successors	
		Total	1 person	2 persons	3 persons & over		
End of 2005 {	Number (household)	43 074	9 542	8 838	617	87	33 532
	Percent (%)	100.00	22.15	20.52	1.43	0.20	77.85
End of 2010 {	Number (household)	41 749	8 742	8 116	547	79	33 007
	Percent (%)	100.00	20.94	19.44	1.31	0.19	79.06

Note : Fishery successors refers to the children or brothers and sisters of fishery director among the population with 15 years old and over in that household, who are willing to continue own fishery work in the future; however, if the relationship between he/she and the director is husband and wife, then the person will not be listed as the successor.

3. The number of fisherman from Mainland China (including Hong Kong and Macao) decreased

By the end of 2010, among the source of employees who engaged in fishery, the number of native employees accounted for 46.3%, decreasing by 7.4 percentage points in 5 years; the employees from Mainland China (including Hong Kong and Macao) accounted for 15.3%, decreasing by 14.3 percentage points, and the employees from other regions (including Indonesia and Philippines, etc.) accounted for 38.4%, increasing by 21.7 percentage points.

Table 25 Number of Employees Engaging in Fishery, by Sex, Sources and Property of Employment

Unit: %

	Total		Sex		Sources			
	Number (person)	Percent	Male	Female	Republic of China	Mainland China (including HK, Macao)	Other areas	
End of 2005 {	Number (person)	55 778	46 209	9 569	29 937	16 517	9 324	
	Percent	100.00	82.84	17.16	53.67	29.61	16.72	
End of 2010 {	Number (person)	47 047	41 011	6 036	21 792	7 186	18 069	
	Percent	100.00	87.17	12.83	46.32	15.27	38.41	
On craft		31 326	100.00	99.33	0.67	19.82	22.79	57.39
Regular employees		28 162	100.00	99.50	0.50	17.29	23.48	59.23
Casual employees		3 164	100.00	97.79	2.21	42.35	16.66	40.99
On land		15 721	100.00	62.94	37.06	99.12	0.30	0.58
Regular employees		3 784	100.00	66.94	33.06	97.67	0.56	1.77
Casual employees		11 937	100.00	61.67	38.33	99.57	0.23	0.20

V. Product Profile of Primary Agricultural and Fishery Products

1. The top five crops planting enterprises were for rice, green manure, betel nut, bamboo shoot and banana, among which the number of enterprises planting green manure and banana increased more in 5 years

In 2010, the number of crop planting enterprises in agriculture was 714,266 enterprises, and the top five crops were rice, green manure, betel nut, bamboo shoot and banana. Among which there were 214,960 green manure planting enterprises, increasing by 30,105 enterprises or 16.3% as the most in 5 years, and 29,234 banana planting enterprises, increasing by 9,054 enterprises or 44.9% as the second.

**Table 26 Number of Agriculture Crops Planting Enterprises,
by Top 10 Species of Crop Planting**

	2010						Planted enterprises in 2005 (enterprise)	Order	Comparison in 5 years		
	Planted enterprises (enterprise)	% of total enterprises (%)	Order	The distribution of county/city (Top 3)					% of enterprises of the same crop (%)	Increased/decreased number of planted enterprises (enterprise)	Increased/decreased rate of planted enterprises (%)
				Tainan City	Changhwa County	Yunlin County					
Crops planting enterprises	714 266	100.00*				33.62	720 013		-0.80		
Rice	242 448	33.94	1	Changhwa County	Yunlin County	Taichung City	49.92	261 941	1	-19 493	-7.44
Green manure	214 960	30.10	2	Tainan City	Chiayi County	Yunlin County	45.14	184 855	2	30 105	16.29
Betel nut	43 307	6.06	3	Pingtung County	Nantou County	Chiayi County	83.44	53 113	4	-9 806	-18.46
Bamboo shoot	39 170	5.48	4	New Taipei City	Tainan City	Chiayi County	45.76	39 102	5	68	0.17
Banana	29 234	4.09	5	Nantou County	Kaohsiung City	Pingtung County	48.23	20 180	20	9 054	44.87
Peanut	29 047	4.07	6	Yunlin County	Changhwa County	Penghu County	77.82	30 480	11	-1 433	-4.70
Cabbage	28 947	4.05	7	New Taipei City	Taoyuan County	Hsinchu County	37.11	57 179	3	-28 232	-49.37
Mango	27 807	3.89	8	Tainan City	Kaohsiung City	Pingtung County	83.22	29 763	13	-1 956	-6.57
Citrus	27 654	3.87	9	Chiayi County	Yunlin County	Hsinchu County	35.94	32 403	9	-4 749	-14.66
Longan	25 352	3.55	10	Tainan City	Kaohsiung City	Changhwa County	56.50	29 889	12	-4 537	-15.18

Note : 1. * If 2 kinds of crops and over were planted, each planting enterprise will be numbered.

2. The number of crops planting enterprises refers to the total number of crops planting enterprises, which was not equal to the total number of the 10 kinds of crops planting enterprises.

3. The distribution of county and city was according to the place where the manager located.

2. The number and the area of rice planting enterprises which both 1st and 2nd periods were fallow decreased.

In 2010, the number of rice planting enterprises was 242,448 enterprises, less 19,493 enterprises or 7.4% than in 2005; there were 94,389 enterprises which both 1st and 2nd periods were fallow and did not engage in production of agriculture, decreasing by 6,655 enterprises or 6.6%, and their fallow areas were 53,509 ha., decreasing by 4,676 ha. or 8.0%.

Table 27 Status for Agriculture Rice Planting

Unit: Household

		2010	2005	Comparison in 5 years	
				Increased/ decreased number	Increased/ decreased rate (%)
Rice planting enterprises		336 837	362 985	-26 148	-7.20
Rice planting	{ Number	242 448	261 941	-19 493	-7.44
	{ Area (ha.)	152 224	156 657	-4 433	-2.83
Rice fallow throughout the year	{ Number	94 389	101 044	-6 655	-6.59
	{ Fallow area (ha.)	53 509	58 185	-4 676	-8.04

Note : Rice planting enterprises refers to the enterprises which actually planted rice in the year, whether or not it mainly planted rice; rice fallow refers to both 1st and 2nd periods were fallow, and no other crops were planted except green manure, nor livestock and poultry were raised.

3. The number of livestock raising enterprises for meat hog was the most; both the raising enterprises and scale decreased

In 2010, the number of livestock raising enterprises in agriculture amounted to 12,432 enterprises; the most number of raising enterprises were for meat hog, breeding hog, meat goat and beef cattle in order. Among which the number of meat hog raising enterprises was 7,633 enterprises, decreasing by 1,210 enterprises or 13.7% in 5 years, and each raising scale of enterprises decreased; for the raising quantity, there were average of 621 heads per enterprise in the end of year, decreasing by 20.5%.

Table 28 Status for Main Livestock Raising of Agriculture

	2010			2005			Comparison in 5 years	
	Number (enterprise)	% of total enterprises (%)	Average livestock per enterprise at the end of year (head)	Number (enterprise)	% of total enterprises (%)	Average livestock per enterprise at the end of year (head)	Increased/ decreased number (enterprise)	Increased/ decreased rate (%)
Livestock raising enterprises	12 432	100.00*		15 841	100.00*		-3 409	-21.52
Meat hog	7 633	61.40	621	8 843	55.82	781	-1 210	-13.68
Breeding hog	3 956	31.82	159	3 981	25.13	219	-25	-0.63
Meat goat	1 474	11.86	68	1 837	11.60	104	-363	-19.76
Beef cattle	1 339	10.77	18	1 825	11.52	40	-486	-26.63
Deer	537	4.32	32	543	3.43	111	-6	-1.10
Dairy cattle	535	4.30	149	579	3.66	194	-44	-7.60
Milk goat	323	2.60	157	392	2.47	224	-69	-17.60
Boar	222	1.79	38	1 112	7.02	29	-890	-80.04
Non-dairy cattle	200	1.61	78	336	2.12	112	-136	-40.48
Rabbit	52	0.42	334	157	0.99	101	-105	-66.88
Sheep	6	0.05	87

Note : 1. If an enterprise raised 2 kinds of livestock and over, then the enterprise was separately calculated into the number of livestock it raised. So the accumulated number of each livestock was greater than the number of livestock raising enterprises.

2. * The number of livestock raising enterprises refers to the total number of livestock raising enterprises, which was not equal to the accumulated number of the 11 kinds of livestock raising enterprises.

3. The identified standards of husbandry object in this census: its raising quantities of livestock and poultry by the end of the year must meet the 1, 3, and 100 heads of big-sized, medium-sized and small-sized animals respectively, or its homemade farm products value was more than NT\$ 20,000. Comparing to the standard for objects in agricultural conditions survey that over one head of big- and medium-sized livestock and poultry, or total raising small-sized livestock and poultry more than 100 heads, in addition to the different definition of small and medium-sized animals, the livestock and poultry raising enterprises in this census also contain the enterprise which planted crops mainly, and concurrently raised livestock and poultry for self eating and using.

4. The number of poultry raising enterprises for broilers was the most, and their raising scale gradually increased

In 2010, the number of poultry raising enterprises in agriculture amounted to 22,560 enterprises, and the most number of raising enterprises were for broilers, mule & muscovy ducks, and layers in order, among which there were 18,960 broiler raising enterprises, decreasing by 31,439 enterprises or 62.4% in 5 years; the number of the raising enterprises whose raising scale was 10,000 heads and over increased, and the scale of the rest raising enterprises decreased; for the raising quantity, there were average of 4,150 heads per enterprise in the end of year, increasing by 2.2 times.

Table 29 Status for Main Poultry Raising of Agriculture

	2010			2005			Comparison in 5 years	
	Number (enterprise)	% of total enterprises (%)	Average poultry per enterprise at the end of year (head)	Number (enterprise)	% of total enterprises (%)	Average poultry per enterprise at the end of year (head)	Increased/ decreased number (enterprise)	Increased/ decreased rate (%)
Poultry raising enterprises	22 560	100.00*		55 165	100.00*		-32 605	-59.10
Broiler	18 960	84.04	4 150	50 399	91.36	1 283	-31 439	-62.38
Mule & muscovy duck	4 285	18.99	1 867	10 854	19.68	749	-6 569	-60.52
Layer	1 469	6.51	20 962	1 587	2.88	18 748	-118	-7.44
Goose	1 424	6.31	1 428	2 743	4.97	969	-1 319	-48.09
Tsaiya	384	1.70	3 320	515	0.93	5 366	-131	-25.24
Turkey	264	1.17	895	481	0.87	721	-217	-45.11
Quail	31	0.14	35 885	59	0.11	21 247	-28	-47.46
Ostrich	24	0.11	66	93	0.17	58	-69	-74.19

Note : 1.If an enterprise raised 2 kinds of poultry and over, then the enterprise was separately calculated into the number of poultry it raised. So the accumulated number of each poultry was greater than the number of poultry raising enterprises.

2. * The number of poultry raising enterprises refers to the total number of poultry raising enterprises, which was not equal to the accumulated number of the 8 kinds of poultry raising enterprises.

Table 30 Overview of Broiler Raising Scale of Agriculture

	End of 2010		End of 2005		Comparison in 5 years	
	Number (enterprise)	Structure proportion (%)	Number (enterprise)	Structure proportion (%)	Increased/ decreased number (enterprise)	Increased/ decreased rate (%)
Total	18 960	100.00	50 399	100.00	-31 439	-62.38
Less than 50 heads	14 408	75.99	44 287	87.87	-29 879	-67.46
50~99 heads	1 058	5.58	2 374	4.71	-1 316	-55.43
100~999 heads	1 108	5.85	1 139	2.26	- 31	-2.72
1,000~9,999 heads	614	3.24	885	1.76	- 271	-30.62
10,000~49,999 heads	1 394	7.35	1 371	2.72	23	1.68
50,000 heads and over	378	1.99	343	0.68	35	10.20

5. The top five aquaculture enterprises were for milkfish, tilapia, hard clam, oysters, and whiteleg shrimp; the number of aquaculture enterprises for sea perch and grouper increased more in 5 years

In 2010, the number of aquaculture enterprises amounted to 26,995 enterprises, and the main fish species were milkfish, tilapia, hard clam, oysters, and whiteleg shrimp. There were 1,210 aquaculture enterprises for sea perch, increasing by 433 enterprises or 55.7% as the most in 5 years, and there were 1,855 aquaculture enterprises for grouper, increasing by 411 enterprises or 28.5% as the second.

Table 31 Status for Fishery Aquaculture, by Main Fish Species

	2010		2005		Comparison in 5 years	
	Number (enterprise)	Structure proportion (%)	Number (enterprise)	Structure proportion (%)	Increased/ decreased number (enterprise)	Increased/ decreased rate (%)
Aquaculture enterprises	26 995	100.00*	28 434	100.00*	-1 439	-5.06
Milkfish	6 260	23.19	5 926	20.84	334	5.64
Tilapia	5 481	20.30	6 016	21.16	-535	-8.89
Hard clam	3 221	11.93	3 268	11.49	-47	-1.44
Oysters	2 647	9.81	3 116	10.96	-469	-15.05
Whiteleg shrimp	1 902	7.05	2 629	9.25	-727	-27.65
Grouper	1 855	6.87	1 444	5.08	411	28.46
Giant freshwater prawn	1 763	6.53	1 879	6.61	-116	-6.17
Sea perch	1 210	4.48	777	2.73	433	55.73
Eel	817	3.03	1 233	4.34	-416	-33.74

Note : 1.If an enterprise cultivated 2 kinds of fish species and over, then the enterprise was separately calculated into the number of fish species it cultivated.

2. * The number of aquaculture enterprises refers to the total number of aquaculture, which was not equal to the accumulated number of the 9 kinds of fish species enterprises.

3. Tilapia includes oreochromis niloticus, red tilapia, Taiwan bream, and other edible cichlidae fish.

VI. Operation Development of Agriculture and Fishery

1. The number of enterprises with outsourcing operation during production stage of agriculture was up to 60%.

With the impact of reduced labor force and mechanization of agriculture, in 2010, the number of enterprises which engaged in agriculture and consigned to agricultural service enterprises during production stage amounted to 438,447 enterprises or 60.8%; main outsourcing items were plowing, harvesting, and seedlings-planting.

Table 32 Status for Enterprises of Agriculture Which Consigned to Agricultural Service Enterprises During Production Stage

	2010		2010		2010	
	Enterprises engaging in agriculture (enterprise)	Proportion of enterprises with outsourcing operation (%)	Enterprises of crop planting (enterprise)	Proportion of enterprises with outsourcing operation (%)	Enterprises of livestock and poultry raising (enterprise)	Proportion of enterprises with outsourcing operation (%)
Total	721 446	60.77	714 266	61.08	34 104	9.31
Farm households	720 344	60.82	713 705	61.10	33 438	9.08
Farms	1 102	27.86	561	31.55	666	21.02
Public farms	237	31.65	199	36.18	71	5.63
Private farms	865	26.82	362	29.01	595	22.86

Table 33 The Proportion of Outsourcing Operation of Agriculture Enterprises During Crop Production Stage

	2010								Unit: %
	Seedlings	Plowing	Seedling- planting	Apply pesticides	Apply fertilizers	Harvesting	Drying	Others	
Agriculture	31.48	55.31	34.79	14.30	10.14	37.36	6.58	0.24	
Farm households	31.50	55.34	34.81	14.30	10.14	37.38	6.59	0.24	
Farms	13.37	17.11	13.73	16.22	11.05	18.18	3.03	2.14	
Public farms	11.56	15.08	20.10	27.14	18.09	25.63	2.01	5.53	
Private farms	14.36	18.23	10.22	10.22	7.18	14.09	3.59	0.28	

Note : If there were 2 kinds of outsourcing operations and over, then each was separately calculated into the items of outsourcing operations.

2. The area in which facilitated farming was used increased, and use of shelving, netting shelter was up to 90%

In 2010, the number of agriculture enterprises which used facilitated farming amounted to 48,485 enterprises, increasing by 16,920 enterprises or 53.6% in comparison with the end of 2005; facilitated farming area amounted to 25,090 ha., increasing by 5,662 ha. or 29.1% in 5 years; the use area of shelving was 12,412 ha. or accounted for 49.5% as the most, and the use area of netting shelter was 10,045 ha. or accounted for 40.0% as the second.

Table 34 Number of Agriculture Enterprises Using Facilitated Farming

	Number (enterprise)	% of enterprises using facilitated farming (%)	Area (ha.)	Structure proportion (%)
2010	48 485	100.00*	25 090	100.00
Tunnel shed	3 453	7.12	1 521	6.06
Shelving	27 533	56.79	12 412	49.47
Netting shelter	14 662	30.24	10 045	40.03
Greenhouse	2 091	4.31	857	3.42
Mushroom shed	1 181	2.44	33	0.13
Others	526	1.08	222	0.89

Note : 1. Use of facilitated farming refers to using facilitated farming to plant crops on cultivated land or non-cultivated land.

2. If an enterprise used more than 2 kinds of facilitated farming, then the enterprise was separately calculated into each facilitated farming, so that their accumulated number was larger than the number of enterprises using facilitated farming.

3. In 2010, the area of each facilitated farming excluded potted crops, edible mushroom etc. which were measured by kg, pot, and pack as unit.

3. The area in which chemical fertilizers and pesticides were not applied increased, among which the fruits and vegetables areas were the most

In 2010, the cultivated land area of agriculture where chemical fertilizers and pesticides were not applied amounted to 45,438 ha., increasing by 1,521 ha. or 3.5% in 5 years. Among which there were 17,709 ha. for fruits and 14,481 ha. for vegetables, accounting for 12.2% and 17.7% of the planting areas of that kind of crop respectively, and both increased by 0.9 percentage points in 5 years.

Table 35 Status for Cultivated Land of Agriculture Enterprises Applying Chemical Fertilizers or Pesticides, by Located Region

	End of 2010					Unit: %	
	Total		Only apply chemical fertilizers	Only apply pesticides	Both apply		Without applying both
	Area (ha.)	Percent					
Total	456 856		24 284	7 417	379 718	45 438	
Area (ha.)		100.00	5.31	1.62	83.12	9.95	
Percent							
Taiwan Area	455 231	100.00	5.31	1.63	83.11	9.95	
Northern Region	48 512	100.00	9.93	2.20	74.46	13.41	
Central Region	190 508	100.00	3.30	0.98	88.69	7.03	
Southern Region	181 578	100.00	5.72	2.14	81.65	10.49	
Eastern Region	34 633	100.00	7.79	1.69	72.14	18.38	
Kinma Area	1 625	100.00	6.19	0.44	84.93	8.44	

Note : Total area shown in this table refers to the cultivated land area used for farming of 5,305,039 hectares deducted by the area of 708,183 hectares for all planting green manure due to fallow.

Table 36 Status for Cultivated Land of Agriculture Enterprises Without Applying Chemical Fertilizers or Pesticides

	End of 2010		End of 2005		Comparison in 5 years	
	End of 2010	% of agriculture enterprises with cultivated land (%)	End of 2005	% of agriculture enterprises with cultivated land (%)	Increased/decreased number	Increased/decreased rate (%)
Number (enterprise)	79 641	11.13	67 610	9.32	12 031	17.79
Area (ha.)	45 438	8.21	43 917	7.57	1 521	3.46

Note : 1. The enterprises and areas shown in this table include the operators who were not organic certified (there were 1,778 organic certified enterprises and 4,034 hectares of certified areas shown in 2010 Agricultural Statistics Report).

2. In the end of 2005 and 2010, the total cultivated land areas of agriculture were 5,709,996 hectares and 5,503,333 hectares respectively.

Table 37 Status for Cultivated Land of Agriculture Enterprises Without Applying Chemical Fertilizers or Pesticides, by crops

	End of 2010						End of 2005			
	Cultivated land area	Without applying chemical fertilizer and pesticides				Cultivated land area	Without applying chemical fertilizer and pesticides			
		Area	Percent	The distribution of county/city (Top 3)			% of planting area of the category (%)	Area	Percent	
(ha.)	(ha.)	(%)			(%)	(ha.)	(ha.)	(%)		
Rice	152 224	1 537	1.01	Hualien County	Taitung County	Pingtung County	48.22	156 657	1 453	0.93
Sundry	42 835	1 733	4.04	Taitung County	Pingtung County	Tainan City	44.64	25 863	2 024	7.83
Special crops	18 593	3 589	19.30	Nantou County	Taoyuan County	Pingtung County	32.75	22 714	2 942	12.95
Vegetables	81 975	14 481	17.67	Chiayi County	New Taipei City	Miaoli County	48.50	71 851	12 048	16.77
Fruits	145 012	17 709	12.21	Nantou County	Kaohsiung City	Chiayi County	47.94	167 808	19 064	11.36
Mushroom	35	17	48.57	Nantou County	Tainan City	Pingtung County	64.47	505	383	75.84
Sugarcane	13 535	84	0.62	Tainan City	Yunlin County	Chiayi County	71.94	15 156	84	0.55
Flowers	2 896	327	11.29	Pingtung County	Taoyuan County	New Taipei City	56.14	4 514	310	6.87
Other crops	12 041	7 074	58.75	Taoyuan County	Pingtung County	Tainan City	61.35	16 260	5 609	34.50

Note : 「 Special crops 」 of this table excluded green manure.

4. For the enterprises having gross income of agriculture, the average gross income of agriculture per enterprise increased; among farm households, non-aged full-time farm households and part-time households with agriculture as main occupation had higher incomes

In 2010, for the enterprises having gross income of agriculture, the average gross income of agriculture per enterprise throughout the year (excluding salary, subsidy, and income from operating business other than agriculture) was NT\$361 thousand, increasing by NT\$71 thousand or 24.5% in comparison with 2005. Among which, apart from enterprise-operating farms having higher gross income of agriculture, the average gross income of agriculture per enterprise for non-aged full-time farm households and part-time households with agriculture as main occupation was NT\$895 thousand throughout the year, which were 2.5 times of the whole enterprises having gross income of agriculture.

5. Animal husbandry and far sea fishery were the industries with higher incomes

In 2010, among each main industry having gross income of agriculture, livestock, and poultry raising, non-production with food processing and recreation, and mushroom planting had higher gross income of agriculture, and their average gross income of agriculture per enterprise throughout the year were NT\$5,316 thousand, NT\$4,471 thousand, NT\$4,126 thousand, and NT\$3,225 thousand respectively; for the enterprises having gross income of fishery, far sea fishery, offshore fishery and inland brackish water aquaculture had higher gross income of fishery, and their average gross income of fishery per enterprise throughout the year were NT\$21,776 thousand, NT\$1,494 thousand, and NT\$1,322 thousand respectively.

Table 38 Operating Status for Farm Households Engaging in Agriculture

End of 2010

	Total	Number	With gross income of agriculture				Number of households without gross income of agriculture
			Average cultivated land area per household	Average number of employees per household	Average gross income of agriculture throughout the year per household	Average age of managers	
	(household)	(household)	(ha.)	(person)	(NT\$1,000)	(years old)	(household)
Total	720 344	550 798	0.79	2.35	321	61.77	169 546
Full-time farm households (1)	176 755	135 772	0.97	2.15	505	65.50	40 983
Aged full-time farm households (2)	89 323	60 626	0.79	1.67	202	74.52	28 697
Non-aged full-time farm households (3)	87 432	75 146	1.11	2.53	749	58.22	12 286
Part-time farm households (4)	543 589	415 026	0.74	2.42	261	60.54	128 563
Agriculture as main occupation (5)	46 412	46 412	1.53	3.43	1131	60.59	
Non-griculture as main occupation (6)	497 177	368 614	0.64	2.30	151	60.54	128 563
Non-aged full-time & part-time farm households with agriculture as main occupation (3)+(5)	133 844	121 558	1.27	2.87	895	59.12	12 286

Table 39 Gross Income of Agriculture for Enterprises Engaging in Agriculture, by Type of Organization And Main Industry

	2010				2005			
	Total	With gross income of agriculture		No. of enterprises without gross income of agriculture	Total	With gross income of agriculture		No. of enterprises without gross income of agriculture
		Number	Ave. gross income of agriculture throughout the year per enterprise			Number	Ave. gross income of agriculture throughout the year per enterprise	
(enterprise)	(enterprise)	(NT\$1,000)	(enterprise)	(enterprise)	(enterprise)	(NT\$1,000)	(enterprise)	
Total	721 446	551 815	361	169 631	729 387	545 641	290	183 746
By type of organization								
farm households	720 344	550 798	321	169 546	728 627	544 935	270	183 692
farms	1 102	1 017	21 867	85	760	706	15 854	54
By main industry								
Crops planting	706 516	537 172	238	169 344	713 386	530 761	205	182 625
Rice planting	304 986	209 742	132	95 244	334 477	230 737	128	103 740
Sundry planting	31 858	28 200	150	3 658	34 986	27 758	135	7 228
Special crops planting	36 156	19 042	497	17 114	32 925	20 703	368	12 222
Vegetables planting	128 118	97 741	258	30 377	113 854	79 875	234	33 979
Fruits planting	188 562	168 795	275	19 767	180 656	157 096	252	23 560
Mushroom planting	1 123	1 118	3 225	5	977	973	1 624	4
Sugarcane planting	1 698	1 649	892	49	2 788	2 706	399	82
Flowers planting	6 029	5 589	1 343	440	6 601	6 161	817	440
Other crops planting	7 986	5 296	403	2 690	6 122	4 752	386	1 370
Livestock & Poultry Raising	14 709	14 428	4 883	281	15 887	14 766	3 334	1 121
Livestock raising	8 478	8 235	5 316	243	8 623	8 433	3 516	190
Poultry raising	5 957	5 920	4 471	37	7 031	6 104	3 148	927
Other raising	274	273	751	1	233	229	1 590	4
Non-production with food processing & recreation	221	215	4 126	6	114	114	1 409	0

Note : 1. Gross income of agriculture (including agricultural products revenues, food processing revenues and recreation revenues) did not deduct cost expenditure; the following tables are in the same way.

2. The enterprises which engaged in agriculture without incomes refer to those who received fallow subsidy by government policies (accounting for 55.6%), or without agricultural products sale revenues due to natural disasters or diseases (accounting for 1.3%), or others such as self eating and using or new planting (accounting for 43.1%); the following tables are in the same way.

3. Main industry refers to the enterprises which had the most product values of agricultural products throughout the year or invested the most cost; the following tables are in the same way..

4. Rice planting enterprises include the enterprises which actually planted rice and coordinated with fallow by government policies; the following tables are in the same way.

5. Non-production with food processing & recreation: Refers to the enterprises which did not engage in agricultural production, but provided food processing services by own processing equipments of agricultural products or provided the public with recreational activities by agricultural production equipments and places; the following tables are in the same way.

6. The statistics scope of revenues of the census excluded production without sale, which was different from the production value inferred by agriculture production scale in agricultural statistics report.

Table 40 Gross Income of Fishery for Enterprises Engaging in Fishery, by Type of Organization and Main Industry

	2010				2005			
	Total	With gross income of fishery		No. of enterprises without gross income of fishery	Total	With gross income of agriculture		No. of enterprises without gross income of fishery
		Number	Ave. gross income of fishery throughout the year per enterprise (NT\$1,000)			Number	Ave. gross income of fishery throughout the year per enterprise (NT\$1,000)	
(enterprise)	(enterprise)	(NT\$1,000)	(enterprise)	(enterprise)	(enterprise)	(NT\$1,000)	(enterprise)	
Total	43 194	40 955	1 645	2 239	45 390	43 142	1 181	2 248
By type of organization								
Sole proprietorship fishery households	41 749	39 540	1 089	2 209	43 074	40 865	677	2 209
Non-sole proprietorship fishery households	1 445	1 415	17 179	30	2 316	2 277	10 219	39
By main industry								
Fishing fishery	16 213	15 267	2 354	946	16 948	16 134	1 896	814
Far sea	1 176	1 171	21 776	5	1 030	1 022	19 684	8
Offshore	5 518	5 330	1 494	188	6 320	6 124	1 380	196
Coastal	9 209	8 460	286	749	9 315	8 709	228	606
Inland	310	306	164	4	283	279	130	4
Aquaculture	26 846	25 553	1 225	1 293	28 242	26 808	752	1 434
Marine	2 739	2 650	752	89	3 146	3 062	495	84
Inland brackish water	11 170	10 757	1 322	413	10 883	10 522	762	361
Fresh water	12 937	12 146	1 243	791	14 213	13 224	803	989
Non-production with food processing & recreation	135	135	993	—	200	200	963	—

Note : 1. Gross income of fishery (including fishery products revenues, food processing revenues and recreation revenues) did not deduct cost expenditure; the following tables are in the same way.

2. The enterprises which engaged in fishery without incomes refer to those who did not have agricultural products sale revenues due to natural disasters or diseases (accounting for 13.5%), or others such as receiving fishing moratorium subsidy, self eating and using or new breeding (accounting for 86.5%); the following tables are in the same way.

3. Main industry refers to the enterprises which had the most product values of agricultural products throughout the year or invested the most cost; the following tables are in the same way..

4. Non-production with food processing & recreation: Refers to the enterprises which did not engage in fishery production, but provided food processing services by own processing equipments of fishery products or provided the public with recreational activities by fishery production equipments and places; the following tables are in the same way.

6. The enterprises of agriculture and fishery adopting diversified operation had higher incomes

In 2010, the number of enterprises of agriculture and fishery adopting diversified operation (operating processing or recreation) and having gross income of agriculture and fishery amounted to 7,902 enterprises and 434 enterprises respectively; their average gross income of agriculture and fishery per enterprise throughout the year were NT\$1,807 thousand and NT\$2,417 thousand respectively, which were 5.3 times and 1.5 times the gross income of NT\$340 thousand and NT\$1,637 thousand for traditional operation.

Table 41 Gross Income of Agriculture for Enterprises Engaging in Agriculture, by Type of Organization And Main Industry

	Traditional operation				Diversified operation			
	Total	With gross income of agriculture		No. of enterprises without gross income of agriculture	Total	With gross income of agriculture		No. of enterprises without gross income of agriculture
		Number	Ave. gross income of agriculture throughout the year per enterprise			Number	Ave. gross income of agriculture throughout the year per enterprise	
(enterprise)	(enterprise)	(NT\$1,000)	(enterprise)	(enterprise)	(enterprise)	(NT\$1,000)	(enterprise)	
2005	722 307	538 561	278	183 746	7 080	7 080	1 182	—
2010	713 490	543 913	340	169 577	7 956	7 902	1 807	54
By type of organization								
farm households	712 622	543 129	311	169 493	7 722	7 669	1 015	53
farms	868	784	20 091	84	234	233	27 844	1
Public farms	173	122	26 833	51	64	64	36 854	—
Private farms	695	662	18 848	33	169	169	24 431	1
By main industry								
Crops planting	699 065	529 769	222	169 296	7 451	7 403	1 363	48
Rice planting	304 739	209 497	131	95 242	247	245	680	2
Sundry planting	31 802	28 144	147	3 658	56	56	1 415	—
Special crops planting	32 885	15 774	345	17 111	3 271	3 268	1 230	3
Vegetables planting	127 153	96 776	250	30 377	965	965	1 100	—
Fruits planting	186 349	166 584	271	19 765	2 213	2 211	616	2
Mushroom planting	768	763	3 148	5	355	355	3 391	—
Sugarcane planting	1 660	1 611	192	49	38	38	30 530	—
Flowers planting	5 817	5 417	1 245	400	212	172	4 443	40
Other crops planting	7 892	5 203	359	2 689	94	93	2 879	1
Livestock & Poultry Raising	14 425	14 144	4 748	281	284	284	11 623	—
Livestock raising	8 325	8 082	5 050	243	153	153	19 406	—
Poultry raising	5 873	5 836	4 489	37	84	84	3 186	—
Other raising	227	226	623	1	47	47	1 365	—
Non-production with food processing & recreation	—	—	—	—	221	215	4 126	6

Table 42 Gross Income of Fishery for Enterprises Engaging in Fishery, by Type of Organization and Main Industry

	Traditional operation				Diversified operation			
	Total	With gross income of fishery		No. of enterprises without gross income of fishery	Total	With gross income of agriculture		No. of enterprises without gross income of fishery
		Number	Ave. gross income of fishery throughout the year per enterprise			Number	Ave. gross income of fishery throughout the year per enterprise	
	(enterprise)	(enterprise)	(NT\$1,000)	(enterprise)	(enterprise)	(enterprise)	(NT\$1,000)	(enterprise)
2005	44 799	42 551	1 173	2 248	591	591	1 710	—
2010	42 760	40 521	1 637	2 239	434	434	2 417	—
By type of organization								
Sole proprietorship fishery households	41 350	39 141	1 084	2 209	399	399	1 640	—
Non-sole proprietorship fishery households	1 410	1 380	17 329	30	35	35	11 277	—
By main industry								
Fishing fishery	16 061	15 115	2 361	946	152	152	1 628	—
Far sea	1 173	1 168	21 786	5	3	3	17 873	—
Offshore	5 452	5 264	1 487	188	66	66	2 083	—
Coastal	9 133	8 384	283	749	76	76	643	—
Inland	303	299	142	4	7	7	1 085	—
Aquaculture	26 699	25 406	1 206	1 293	147	147	4 540	—
Marine	2 730	2 641	738	89	9	9	4 878	—
Inland brackish water	11 128	10 715	1 288	413	42	42	9 960	—
Fresh water	12 841	12 050	1 236	791	96	96	2 138	—
Non-production with food processing & recreation	—	—	—	—	135	135	993	—