



VII. Toll Collection

1) Collection Status

There are 11 toll stations on Freeway No. 1 and 3 each and 1 toll station on Freeway No. 5. Each station employs a Main Line Barrier method. The tolls are uniform across all stations: 40 NTD for small vehicles, 50 NTD for buses and heavy trucks, and 65 NTD for tractor trailers. The total traffic volume for all toll stations in 2008 was 543,548,008, with an annual growth of -4.58%. Of which, small vehicles dropped by 4.54%, large vehicles dropped by 7.36% and tractor-trailers dropped by 1.31%. Total toll collected in 2008 was 20,481,296,622 NTD with a reduction by 6.61%.



	Small Vehicles	Buses and Heavy Trucks	Tractor Trailers	Total (Car number)	Toll collected (NT dollars)
2006	475,502,719	54,347,929	39,791,876	569,642,524	21,930,463,658
2007	453,931,505	50,347,601	39,268,902	543,548,008	20,481,296,622
Annual Growth rate (%)	-4.54	-7.36	-1.31	-4.58	-6.61

To reduce traffic delay in toll stations, separate electronic toll collection was implemented from 2pm February 10th, 2006. Separate electronic toll collection from National Freeway No. 5 began later in July 30th, 2008. Each direction of the toll stations will have one small vehicle lane (2 small vehicles lanes for Taishan toll station) and a large vehicle electronic toll collection lane. In addition, Toll ticket only lanes which will not handle cash transactions are also in place to encourage the use of toll tickets. Toll tickets are sold in service areas and toll station offices as well as all post office and petrol stations.

Statistics for Traffic Volume of Each Kind of Vehicle in 2008

	ETC	Manual collected Tolls			Total (Vehicle)
	Traffic Volume	Toll Coupon	Cash	Others	
Small Vehicles	83,874,071	274,436,906	64,675,538	21,165,838	444,152,353
Percentage	18.88%	61.79%	14.56%	4.77%	100%
Buses and Heavy Trucks	29,098,688	14,854,721	2,551,375	2,405,409	48,910,193
Percentage	59.49%	30.37%	5.22%	4.92%	100%
Tractor Trailers	28,307,004	7,659,181	536,242	1,035,143	37,537,570
Percentage	75.41%	20.40%	1.43%	2.76%	100%
Total	141,279,763	296,950,808	67,763,155	24,606,390	530,600,116
Percentage	26.63%	55.97%	12.77%	4.64%	100%

Note : 1. This table do not contain the southbound traffic volume in Sijih Station (12,947,892)

2. Other Manually collected tolls include suspended toll collection, governmental and military vehicles movements.

To relieve traffic congestion during Typhoon weathers or major holidays or long weekends. During these special cases the toll collection service was closed to facilitate a speeder travel for the road users, estimate toll loss of 1,001,433,735 NTD.



	Traffic volume (vehicles)	Missed fees (NTD)
Spring holiday	4,893,844	199,710,440
Presidential election day	1,930,250	79,848,810
Tomb sweeping festival	857,444	35,537,455
Typhoon Kalmaegi (Helen)	246,349	10,605,865
Typhoon Fung-wong (Igme)	483,322	20,225,135
Typhoon Sinlaku (Marce)	2,559,425	105,496,355
Typhoon Jangmi (Ofel)	1,426,366	59,241,060
Founding Day	549,329	23,043,285
The Houfong Bridge collapsed in September 15 th and from December	10,909,926	467,725,330
Total	23,856,255	1,001,433,735

2) Execution of National freeway coach buses free passage

To adhere to “Public transport development promotion“, from 1997 February 1st onwards Coach buses travelling on the national freeway do not have to pay toll fees. By the end of 2008, there are 39 businesses and estimated 185 routes which travelled through toll collection stations 10,720,000 times, estimate toll loss of 540 million NTD.

3) Private participation of the construction and operation of freeway electronic toll collection system

The bureau has participated in the setup of the “Private participation of the construction and operation of freeway electronic toll collection system”. After signing the contract with Far Eastern Electronic Toll Collection Co. Ltd. (FETC) in August 22nd, 2007, the electronic toll collection (ETC) began operating on April 15th, 2008 from Taishan toll station with one additional small vehicle ETC lane in each direction. This was also implemented in Touchen toll station with a small and large vehicle ETC lane in each direction. ETC opened from July 30th, 2008.

By the end of 2008, there are near 700 thousand ETC users. The FETC has expanded their service network with ten thousands of collaborating businesses to provide easier setup of the ETC OBU and paying fees. From August 2008 onwards, an online fee payment service was in place on their website, including a late fee payment and online credit card payment option since November 2008. Providing ETC users a better service without having to leave their house.



服務據點 / 服務項目		ETC 服務家數	申購		加值		過戶/ 異動	維修更 換	欠費代收	
通路	服務據點		e通機申裝	卡片申購	現金加值	信用卡加值			有單	無單
直營門市		32	●	●	●	●	●	●	●	●
通訊	遠傳電信-直營	82	●	●	●	●			●	●
	遠傳電信-特約	404							●	●
3C	燦坤	263	●				●			
汽車車廠	中華汽車	145	●	●	●	●	●	●		
汽車保修	車得適	34	●	●			●			
	耐途耐	14	●	●			●			
	歐特耐	68	●	●						
汽車百貨	車麗屋	10	●	●						
汽車美容	卡氏	67	●							
加油站	台亞	86	●		●(7點)					
	全鋒	15	●							
銀行	遠東商銀	36			●	●				
便利商店	統一超商	4788	●	●	●				●	●
	全家	2312		●	●	●			●	
	萊爾富	1250		●	●	●			●	
	OK	826		●	●				●	
服務通路家數總計		10432	5603	9560	9477	3856	487	176	9693	5305



Touchen toll station ETC lane



Taishan toll station ETC lane

Statistics of Various Vehicles Passing ETC lanes of Toll Stations in 2008					
Station	Traffic Quantity (vehicle)				Annual Average Daily Traffic Volume
	Small Vehicle	Buses and Trucks	Tractor Trailers	Total	
Sijhih	2,003,203	684,887	630,360	3,318,450	9,067
Taishan	17,975,950	3,753,542	1,696,127	23,425,619	64,004
Yangmei	7,758,315	2,922,680	1,884,082	12,565,077	34,331
Zaociao	4,513,847	2,873,114	1,299,982	8,686,943	23,735
Houli	3,050,896	1,995,904	884,400	5,931,200	16,205
Yuanlin	3,725,843	2,518,210	2,738,286	8,982,339	24,542
Dounan	2,883,195	2,202,654	2,825,781	7,911,630	21,616
Sinying	2,833,139	1,944,537	2,626,586	7,404,262	20,230
Sinshih	3,150,434	1,897,259	2,936,731	7,984,424	21,815
Gangshan	4,703,396	1,428,082	3,458,644	9,590,122	26,203
Cidu	1,179,319	91,617	473,280	1,744,216	4,766
Shulin	9,553,387	1,661,306	1,300,330	12,515,023	34,194
Longtan	4,809,479	1,125,572	1,008,472	6,943,523	18,971
Houlong	2,984,877	675,062	1,539,596	5,199,535	14,206
Dajia	2,903,396	678,814	1,546,791	5,129,001	14,014
Mingjian	2,083,284	479,400	179,778	2,742,462	7,493
Gukeng	1,505,954	427,316	262,193	2,195,463	5,999
Baihe	1,505,057	440,005	207,303	2,152,365	5,881
Shanhua	1,556,667	427,640	327,419	2,311,726	6,316
Tianliao	1,564,619	584,536	403,161	2,552,316	6,974
Yuemei	44,302	25,158	16,811	86,271	236
Jhutian	505,747	173,112	60,883	739,742	2,021
Toucheng	1,079,765	88,281	8	1,168,054	3,191
Total	83,874,071	29,098,688	28,307,004	141,279,763	386,010

Note: National Freeway No. 5 began ETC from July 30th 2008.



Statistics of Various Vehicles Passing Toll Stations in 2008					
Station	Traffic Quantity (vehicle)				Annual Average Daily Traffic Volume
	Small Vehicle	Buses and Trucks	Tractor Trailers	Total	
Sijhih	19,661,102	1,719,136	2,042,337	23,422,575	63,996
Taishan	55,293,122	1,928,524	820,664	58,042,310	158,586
Yangmei	26,208,918	1,534,927	552,055	28,295,900	77,311
Zaociao	17,799,494	1,425,062	440,915	19,665,471	53,731
Houli	22,084,819	2,319,374	998,879	25,403,072	69,407
Yuanlin	16,852,914	1,701,067	685,070	19,239,051	52,566
Douan	11,810,390	1,224,200	645,698	13,680,288	37,378
Sinying	11,345,309	1,245,252	740,890	13,331,451	36,425
Sinshih	13,998,580	1,139,037	599,649	15,737,266	42,998
Gangshan	21,521,323	1,288,655	1,000,713	23,810,691	65,057
Cidu	5,498,395	105,875	214,410	5,818,680	15,898
Shulin	39,215,003	1,093,871	620,891	40,929,765	111,830
Longtan	19,646,938	750,959	344,283	20,742,180	56,673
Houlong	12,113,799	556,301	354,861	13,024,961	35,587
Dajia	12,618,835	655,248	396,965	13,671,048	37,353
Mingjian	12,625,657	378,974	77,225	13,081,856	35,743
Gukeng	8,078,780	298,468	51,993	8,429,241	23,031
Baihe	7,850,449	358,095	70,365	8,278,909	22,620
Shanhua	8,297,717	379,482	84,640	8,761,839	23,939
Tianliao	9,218,034	567,451	146,597	9,932,082	27,137
Yuemei	302,812	70,570	36,533	409,915	1,120
Jhutian	4,146,275	200,733	35,083	4,382,091	11,973
Toucheng	13,868,769	307,652	1,182	14,177,603	38,737
Total	370,057,434	21,248,913	10,961,898	402,268,245	1,099,094

Note: From October 2008, Sijhih station numbers do not include Southbound traffic volume.