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	2,087,519,161.84	2,207,708,539.06	2,341,260,744.36	-10.84%	1,366,781,296.91	1,366,781,296.91
ח , –	255,461,059.63	300,353,372.78	323,976,667.80	-21.15%	219,530,952.91	223,603,074.93
ח , –	218,856,162.04	294,480,497.08	269,351,662.75	-18.75%	207,715,818.65	211,794,974.60
‖ '	183,966,860.18	166,926,090.83	165,006,869.89	11.49%	130,072,804.00	132,085,237.50
/ ממ	0.26	0.48	0.34	-23.53%	0.35	0.35
/	0.26	0.48	0.34	-23.53%	0.35	0.35
% '	18.36%	30.46%	31.59%	-13.23%	22.79%	23.16%
	2012	2011		ˇ (%)	2010	
		מח	ח	ח	מח	ח
	2,094,865,990.67	1,602,789,529.14	1,800,053,515.49	16.38%	1,478,181,458.58	1,492,025,708.11
ח ' ח	1,620,752,833.87	1,116,947,108.26	1,168,513,015.38	38.7%	874,054,575.21	882,998,464.47

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ﻑ ﻫ ‡	255,461,059.63	323,976,667.80	1,620,752,833.87	1,168,513,015.38
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	2012	2011	
	2,071,206,745.89	2,336,482,914.77	-11.35%
	16,312,415.95	4,777,829.59	241.42%
	2,087,519,161.84	2,341,260,744.36	-10.84%

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		2012	2011	%
:		32,331.25	35,493.01	

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		2012		2011		
			%		%	(%)
		578,726,432.33	45.74%	595,574,754.60	41.94%	-2.83%
		36,495,367.80	2.88%	31,076,157.68	2.19%	17.44%
		46,921,239.04	3.71%	43,598,564.50	3.07%	7.62%
		48,681,863.37	3.85%	44,992,442.84	3.17%	8.2%

		2012		2011		
			%		%	(%)
		510,924,263.51	40.38%	497,668,979.83	35.05%	2.66%
		35,745,958.38	2.83%	30,104,468.47	2.12%	18.74%
		44,220,951.05	3.5%	40,266,208.48	2.84%	9.82%
		43,635,204.74	3.45%	40,218,427.68	2.83%	8.5%

5		7,577,460.00	0.75%
ᴊ	——	74,483,515.75	7.41%

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╟	392,290,000.00	137,615,400.00	185.06%
╟	63,880,168.83	156,166,750.67	-59.09%
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	2012		2011		֏ %	ע ╠
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	449,614,692.85	21.46%	287,213,510.30	15.96%	5.5%	ֿ 8,665 Ռ ֿ 8 ל
	152,612,995.81	7.29%	78,841,949.25	4.38%	2.91%	, ע 3-6 , . ל ֏ ל 8 5,620 46.10% ﻫ
	200,954,292.34	9.59%	210,702,607.28	11.71%	-2.12%	֏ ע
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	0.00	0%	0.00	0%	0%	
ش	327,630,788.03	15.64%	241,452,985.79	13.41%	2.23%	╪ Ռ 3,174.46 يخ Ռ ל 8 ش 4,269.22
ﺟ	124,672,466.34	5.95%	68,024,402.20	3.78%	2.17%	ֆ Ռ ╕

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	6,355	2,960.85	3,959.11	62.3%	
	7,129.8	2,347.37	3,239.62	45.43%	
	2,730.1	655.29	1,058.99	38.79%	
	3,523	1,782.13	2,490.13	70.68%	
	3,046	926.53	1,281.57	97%	
	22,783.9	8,672.17	12,029.42	--	--

2011	19,964.5	22,950.5	2,986
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	69,835,163.30	9,154,260.66	-2,487,356.36

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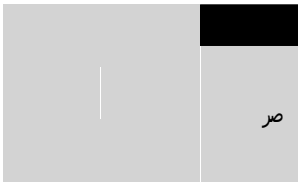
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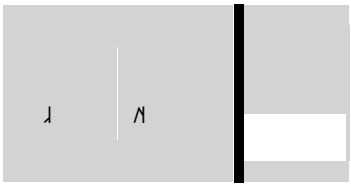
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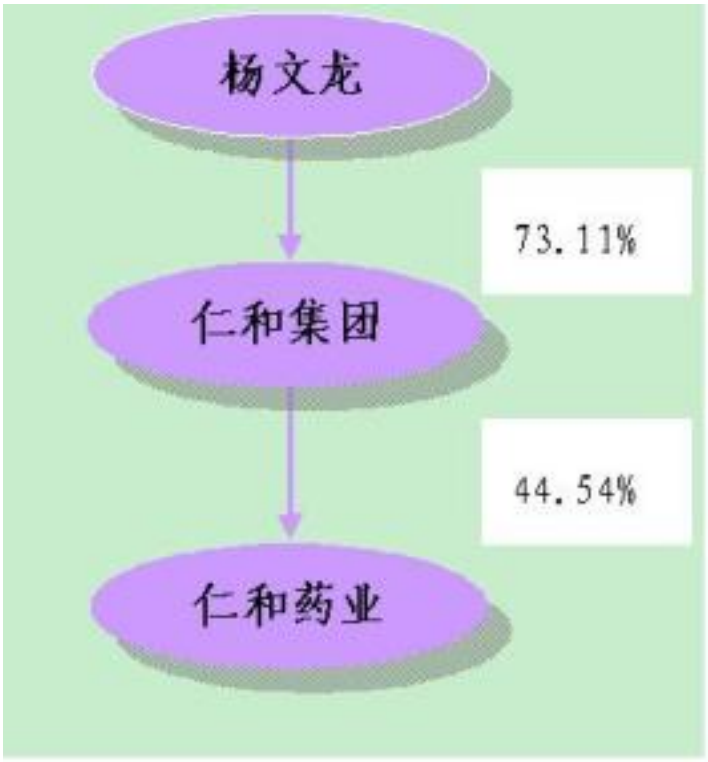
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4.1 Introduction

4.1.1 This chapter describes the methodology used to estimate the emissions of greenhouse gases from the Agriculture sector in Ireland for the period 1990 to 2012. The sector includes emissions from enteric fermentation, manure management, agricultural soils and field burning of agricultural residues. Emissions from energy use in agriculture are included in the Energy sector.

4.1.2 Agriculture is a significant source of greenhouse gas emissions in Ireland, accounting for 32.4% of total emissions in 2012. The main greenhouse gases emitted are methane (CH4) and nitrous oxide (N2O). Carbon dioxide (CO2) emissions from agriculture are small and are reported in the Energy sector.

4.1.3 The methodology follows the IPCC 2006 Guidelines for National Greenhouse Gas Inventories, Volume 4: Agriculture, Forestry and Other Land Use. Tier 2 methods are used for the key categories of enteric fermentation and manure management, and Tier 1 methods are used for agricultural soils and field burning.

4.1.4 The activity data for livestock numbers are obtained from the Central Statistics Office (CSO) annual June Agricultural Census. Data on fertiliser use are obtained from the Department of Agriculture, Food and the Marine.

4.2 Enteric Fermentation

4.2.1 Methane is produced in the digestive systems of ruminant animals as a by-product of the fermentation of feed. The amount of methane produced depends on the type of animal, the quantity and quality of feed, and the level of production.

4.2.2 Emissions from enteric fermentation were estimated using a Tier 2 methodology. Country-specific emission factors were developed for dairy cattle, non-dairy cattle, sheep, pigs and horses. The emission factors reflect the typical feeding practices and production systems in Ireland.

4.2.3 Enteric fermentation emissions in 2012 were 14,892 kt CO2 eq, representing 65.1% of agricultural emissions and 21.1% of total national emissions.

4.3 Manure Management

4.3.1 Methane and nitrous oxide are produced during the storage and treatment of animal manures. The amount of emissions depends on the manure management system, the temperature and the duration of storage.

4.3.2 Emissions from manure management were estimated using a Tier 2 methodology. Country-specific emission factors were developed for the main manure management systems in Ireland, including pasture, range and paddock, solid storage and slurry systems.

4.3.3 Manure management emissions in 2012 were 1,847 kt CO2 eq, representing 8.1% of agricultural emissions and 2.6% of total national emissions.

4.4 Agricultural Soils

4.4.1 Nitrous oxide is produced in agricultural soils through the microbial processes of nitrification and denitrification. Emissions are influenced by the application of nitrogen fertilisers, the deposition of animal manures on pasture, the cultivation of organic soils and the decomposition of crop residues.

4.4.2 Emissions from agricultural soils were estimated using a Tier 1 methodology. Direct emissions from fertiliser application, animal manure deposition and crop residues were calculated using the default emission factors and parameters in the IPCC 2006 Guidelines.

4.4.3 Agricultural soils emissions in 2012 were 5,987 kt CO2 eq, representing 26.2% of agricultural emissions and 8.5% of total national emissions.

4.5 Field Burning of Agricultural Residues

4.5.1 Field burning of agricultural residues is not a significant source of emissions in Ireland. Burning is prohibited under the Air Pollution Act 1987 (Smoky Coal) Regulations, 1990, and is rarely practised.

4.5.2 Emissions from field burning were estimated using a Tier 1 methodology. Activity data on the quantity of residues burned are obtained from the Department of Agriculture, Food and the Marine.

4.5.3 Field burning emissions in 2012 were 0.4 kt CO2 eq, representing less than 0.1% of agricultural emissions and less than 0.1% of total national emissions.

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ᑭ	95,707,742.69	9,921,329.39
	1,977,488.10	8,320,870.24
	2,676,260.36	988,777.53
ᕼ	0.00	0.00
ᕼ ᕕ	970,751,807.76	594,261,783.11
	2,094,865,990.67	1,800,053,515.49
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	220,400.00	227,200.00
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╣	18,821,228.15	0.00
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	1,528.00	4,528.00
	17,169,307.80	11,156,451.17
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	3,431,024.09	141,407.32
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‖	20,601,859.89	11,302,386.49
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	68,916,306.42	87,782,266.95
	276,139,747.75	361,127,592.38
	13,632,908.12	24,530,937.49
	255,461,059.63	323,976,667.80
	20,678,688.12	37,150,924.58
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	0.26	0.34
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	276,139,747.75	361,127,592.38
	255,461,059.63	323,976,667.80
	20,678,688.12	37,150,924.58

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	12,178,625.81	14,098,827.32
	0.00	0.00
	682,003.04	789,534.32
	0.00	0.00
	31,818,895.41	20,900,659.06
	144,912.42	-7,853.51
	2,000.00	-95,021.00
	-1,998,171.65	-1,536,418.89
	390,314,941.31	269,364,478.90
	0.00	0.00
	367,847,584.60	260,339,568.46

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ﻫ	220,305,894.10	174,937,617.78
ﻫ	249,741,309.43	270,350,498.77
╟	176,945,351.25	375,280,414.88
╟	1,806,091,819.88	1,971,371,177.58
╟ '	183,966,860.18	165,006,869.89
╟		
ى أ	2,110,948,261.07	48,703,561.30
ﻫ أ	888,066.16	84,868.00
Ո ش ' ى	29,292,117.45	118,451.60
[redacted]	25,652,842.52	0.00

	1,547,435,960.54	40,697,427.22
	232,419,318.04	100,110,487.53
	28,948,800.00	0.00
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	0.00	0.00
	1,808,804,078.58	140,807,914.75
	150,788,421.00	184,432.00
	1,545,493,536.97	40,853,497.47
	264,909,375.89	51,891,225.00
	0.00	0.00
	1,961,191,333.86	92,929,154.47
	-152,387,255.28	47,878,760.28
	362,930,000.00	0.00
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	362,930,000.00	0.00
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	35,041,791.05	23,361,194.04
	721,300.00	3,263,745.22
	35,763,091.05	26,624,939.26
	327,166,908.95	-26,624,939.26
	0.00	0.00
	125,532,933.28	-33,971.65
	143,910.08	177,881.73
	125,676,843.36	143,910.08

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Ո							323,976,667.80		37,150,924.58	361,127,592.38
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	630,248,041.00	184,872,431.83					4,953,808.43	870,725,239.65
	630,248,041.00	184,872,431.83					4,953,808.43	870,725,239.65
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ني	630,248,041.00	184,872,431.83			50,650,958.39		4,953,808.43	870,725,239.65

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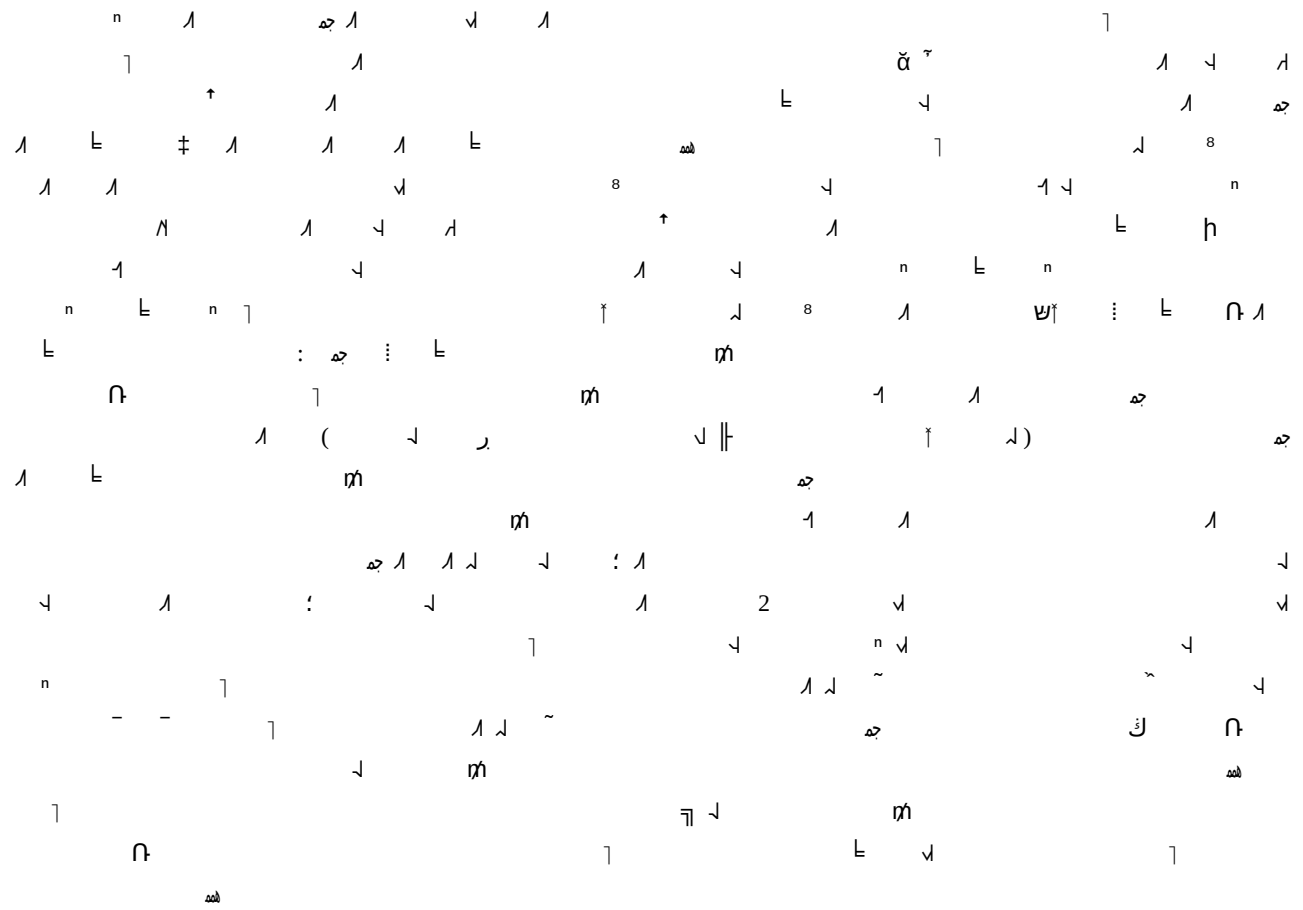
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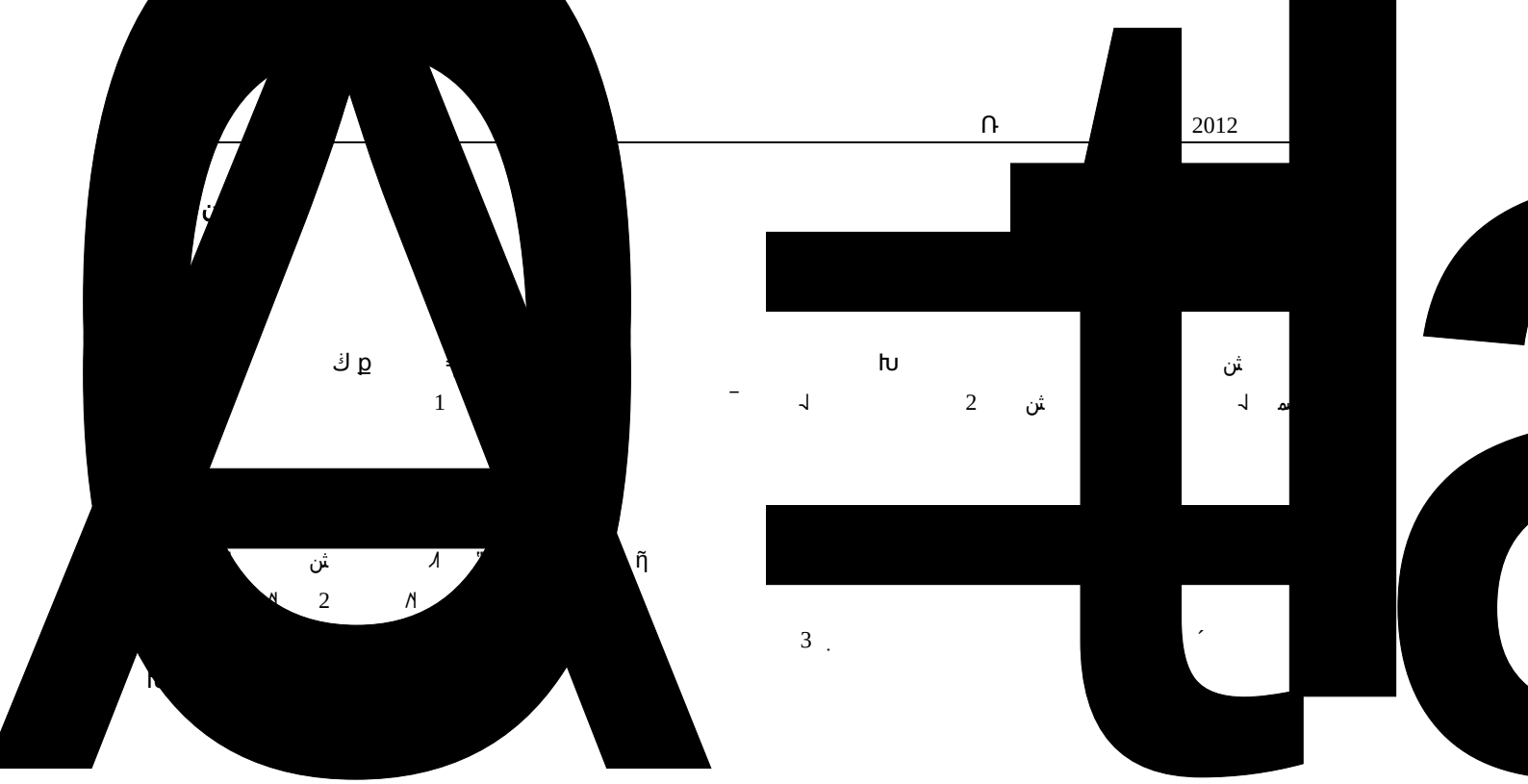
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8,964,048.60	36,381,990.57	( )
22,380,268.38	183,367,145.63	( )
4,270,954.91	24,785,573.06	( )
32,470,134.66	125,847,424.53	( )
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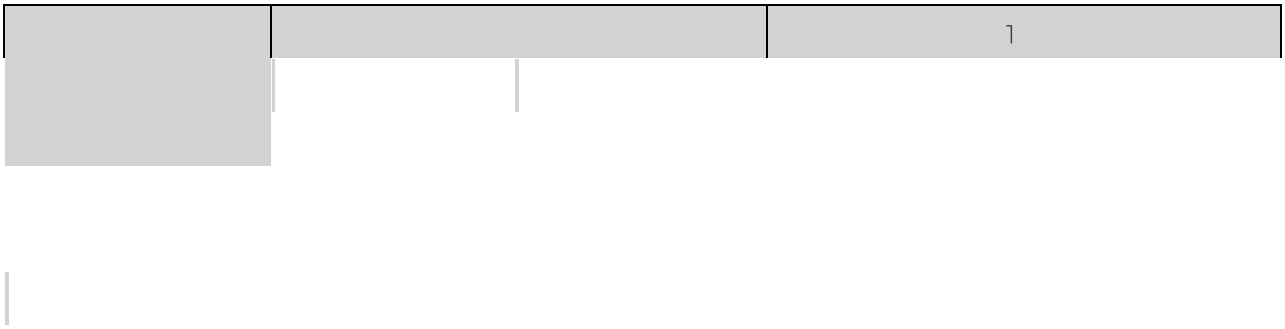
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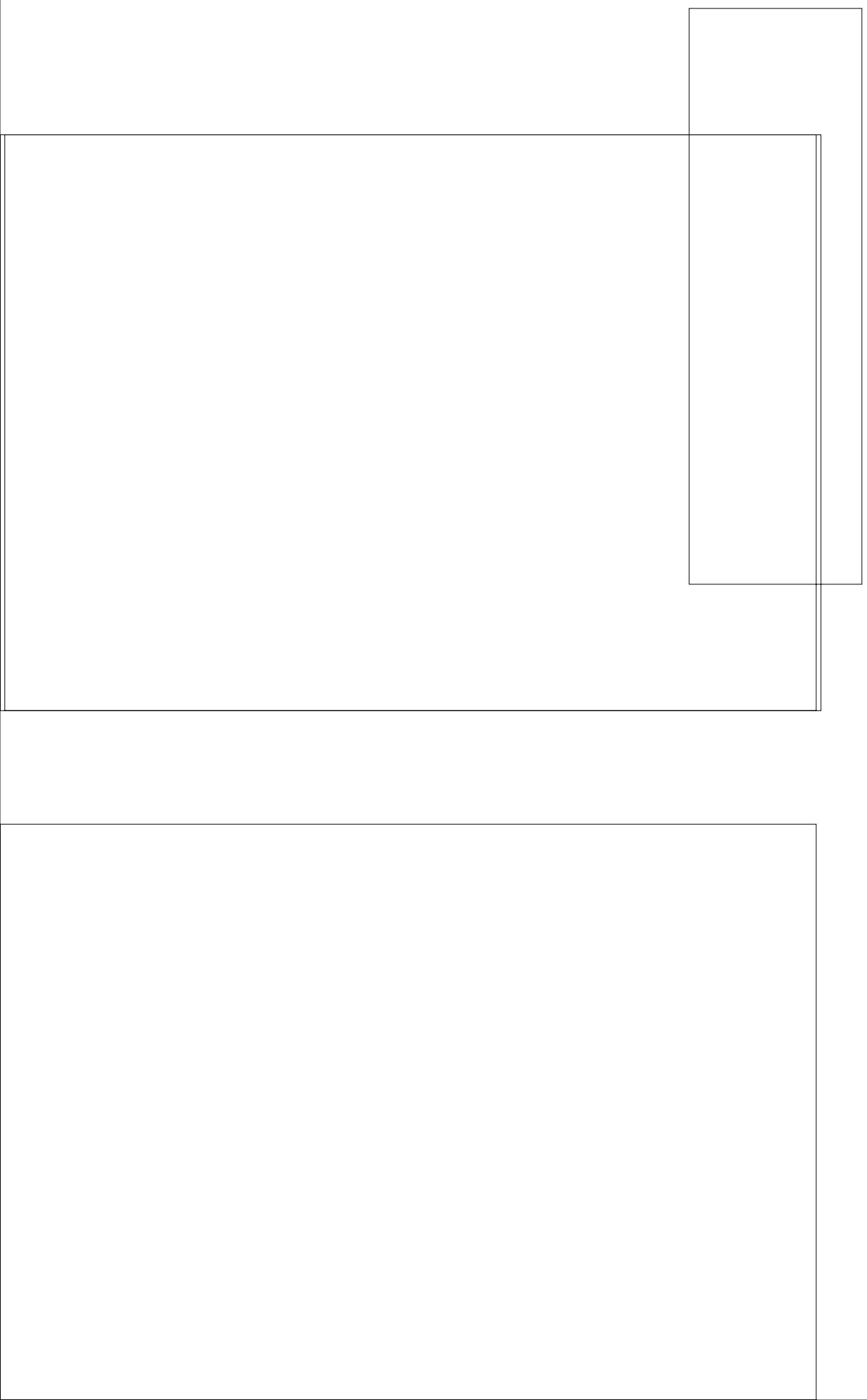
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Ո Ո	328,017,548.39	186,364,999.56	30,389,094.90	483,993,453.05
1 سم بم	253,998,574.08	125,360,075.43	1,440,294.90	377,918,354.61
2 ك	38,181,085.33	11,720,551.95	28,948,800.00	20,952,837.28
3 ϱ	1,500,000.00	48,987,749.91		50,487,749.91
4 ¯	32,118,125.68			32,118,125.68

	7,111,703.64		5,571,878.31		1,539,825.33	
8	1,209,166.60		849,167.65		359,998.95	
		186,393.16	108,729.34		77,663.82	
	8,320,870.24	186,393.16	6,529,775.30		1,977,488.10	--

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ñ	336,039.16	71,530.56
	2,326,221.20	889,246.97
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	2,676,260.36	988,777.53

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	2,676,260.36		988,777.53	

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1	77,538,717.67	146,105,984.17
1-2	596,971.59	7,450,723.78
2-3	247,573.97	760,117.79
3	3,072,425.04	2,405,790.09
Ո	81,455,688.27	156,722,615.83

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–	0.00	8,612,133.00	8,612,133.00	
	944,405.10	16,449,616.52	17,393,682.82	338.80
	21,624.69	2,333,367.39	2,354,992.08	
	857,708.29	11,928,700.81	12,786,409.10	
	23,066.14	686,182.45	708,909.79	338.80
	41,753.58	1,404,590.75	1,446,344.33	
	252.40	96,775.12	97,027.52	
	8,857.00	649,451.00	658,308.00	
–		19,405.00	19,405.00	
	3,019,251.93	607,481.00	771,994.80	2,854,738.13
	6,263,334.91	221,985,361.52	220,469,650.70	7,779,045.73

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	7,615,548.64	4,909,875.96
	46,697.73	
	370,473.25	200,327.18

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1	22,677,686.37	25,208,710.90
1 2	17,187,777.88	8,826,736.54
2 3	6,880,576.19	509,191.97
3	5,661,906.32	8,955,183.98
	52,407,946.76	43,499,823.39

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	227,200.00		6,800.00	220,400.00	--

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	971,670.84	
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-98,580.79	1,368,386.87	

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88,602.73	3,677.76	17,573,116.79	
5,428.46	3,677.76	6,013.94	
83,174.27		17,567,102.85	
4,763,986.39	29,976,208.52	4,763,986.39	
10,513,460.78	11,182,574.75	10,513,460.78	
416,094.60	184,118.89	416,094.60	
258,191.83	323,687.79	258,191.83	
422,000.00	100,000.00	422,000.00	
3,083,228.52	674,793.89	3,083,228.52	
17,596,267.76	63,022.67	111,753.70	
	42,508,084.27	37,141,832.61	

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		592,801.88	

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2. ۴ لج	180,839.49		
3	28,329.16		
4.: ۸ ۹	56,894.01		
╠	9,920,658.90	11,182,574.75	
1. … ۸	4,070,000.00		
3.بى		2,545,483.00	
4. ╨	480,000.00	260,000.00	
5. ╨	5,090,000.00	8,037,200.00	
6.ھ	21,658.90	335,355.63	
7. ك ر ╨	160,000.00		
8.			

6 27 5 2010 10% 480,000.00

7 [2011]150 5,090,000.00

8 [2009]61 [2011]13 11,520.00 10,138.90

9 [2012]207 100,000.00 [2012]279 60,000

10 2011 10 13 2011 2011 99,000.00

64

66

2010 [2010] 2008 [2008] 43

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	0.26	0.26	0.34	0.34
	0.23	0.23	0.28	0.28

2

	1	255,461,059.63	323,976,667.80
	2	36,604,897.59	54,625,005.05
	3=1-2	218,856,162.04	269,351,662.75
	4	630,248,041.00	420,165,361.00
	5	315,124,020.00	525,206,700.00
	6	45,300,000.00	--
	6		
	6		
	7	6	12
	7		
	7		
	8	--	--
	9	--	--
	10	--	--
	11	12	12
	12=4+5+6×7 ÷11-8×9÷11-10	968,022,061.00	945,372,061.00
	13		
	14=1÷13		
	15=3÷12	0.23	0.28

	17	25%	25%
	18	--	--
	19	--	--
	20=[1+(16-18)×(100%-17)]÷(13+19)		
	21=[3+(16-18)×(100%-17)]÷(12+19)	0.23	0.28

1

=P0÷S

S= S0 S1 Si×Mi÷M0– Sj×Mj÷M0-Sk

P0 S S0 S1 Si Sj Sk M0 Mi Mj

2

=P1/(S0 S1 Si×Mi÷M0–Sj×Mj÷M0–Sk+)

P1

67

	0.00	0.00

68

ˆ	16,822,931.09
ˆ ¯	

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		]
	449,614,692.85	243,804,534.30
	33,393.17	713.17

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1 Ո Ո

							Ո (%)	Ո ã (%)	8	
	Ո Ո Ո Ո		Ո	՛ 158 Ո		Ո Ո Ո Ո	18,818.00	44.54%	44.54%	72776518-6

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ρ [8]		6							
[8]						295800000	54.91%	54.91%	15826154-2
ת [8]				ك	20000000	85%			

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2011 , –

7 Ո

1.	0.00				0.00
2.	0.00				
3. Ո					

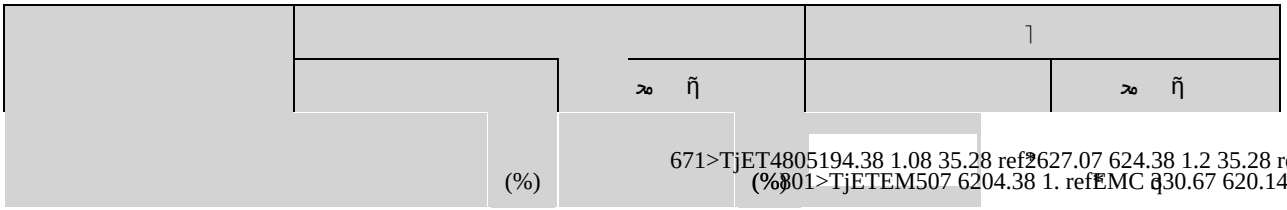
√ □

		(%)			(%)

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2

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671>TjET4805194.38 1.08 35.28 ref2627.07 624.38 1.2 35.28 ref355.39 584805
(%)
(%)801>TjETEM507 6204.38 1. refEMC 330.67 620.14 25.92 35.565 7

՛ Յ	Ո		՛ (%)
Ո Ո	Ո	195,491,882.25	99.67%
Ո	--	195,491,882.25	99.67%

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8 Ո		216,750,000.00		216,750,000.00	216,750,000.00	100%	100%		

	0.00		0.00	Ո

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Ո	Ո	Ո ա ա

Ո	120,794,994.77	117,884,926.62	¯¦
Ո ⁸	87,576,400.76	47,684,908.35	¯¦
⁸	3,863,899.13	2,753,404.49	¯¦
	90,295,736.43	82,142,644.07	¯¦
Ո ⁸	36,423,930.72	18,384,788.74	¯¦
⁸	50,093,037.28		¯¦
	389,047,999.09	268,850,672.27	--

3

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ˇ ˇ ˇ	ˇ	ˇ	

1 Ո 2012 5 15 2012 12 18 ā ¦ Ո 2011 ¦ ¯ 95%¦ ¯ 120,794,994.77

2 Ո ⁸ 2012 5 15 2012 12 18 ā ¦ Ո 2011 ¦ ¯ 100%¦ ¯ 87,576,400.76

3 ⁸ 2012 5 15 2012 12 18 ā ¦ ⁸ 2011 ¦ ¯ 95%¦ ¯ 3,863,899.13

4 2012 5 15 2012 12 18 ā ¦ 2011 ¦ ¯ 100%¦ ¯ 90,295,736.43

5 Ո ⁸ 2012 5 15 2012 12 18 ā ¦ Ո 2011 ¦ ¯ 95%¦ ¯ 36,423,930.72

6 ⁸ 2012 5 15 2012 12 18 ā ¦ ⁸ 2011 ¦ ¯ 95%¦ ¯ 50,093,037.28

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¯	385,329,063.18	260,343,754.58
ˇ ñ	2,000.00	-95,021.00
	1,273,355.47	22,169.91
	2,661,318.30	4,367,649.72
Ո	-17,483,928.58	
	1,998,171.65	1,536,418.89

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				՜ .

	990,672,061.00	630,248,041.00	57.19%	10 5 ㄱ ㅐ
	293,346,256.17	106,825,706.26	174.60%	ㅐ Ո ㄴ ª ㅅ ㄴ
	106,059,246.76	67,526,340.44	57.06%	
ㅣ ㅡ	230,675,269.94	363,912,927.68	-36.61%	2012 ㅣ ㅡ ㄱ ㅡ ㄴ
ㅡ				
	143,501,577.48	103,502,704.24	38.65%	ㄴ ㅐ ㄱ h 900 , ㄴㄱ h 600 Ո ㄴ ª ╗

				136	
	28,000,000.00	20,000,000.00	40.00%	2012 6	
	22,568,104.79	128,269,000.00	-82.41%	8	-

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