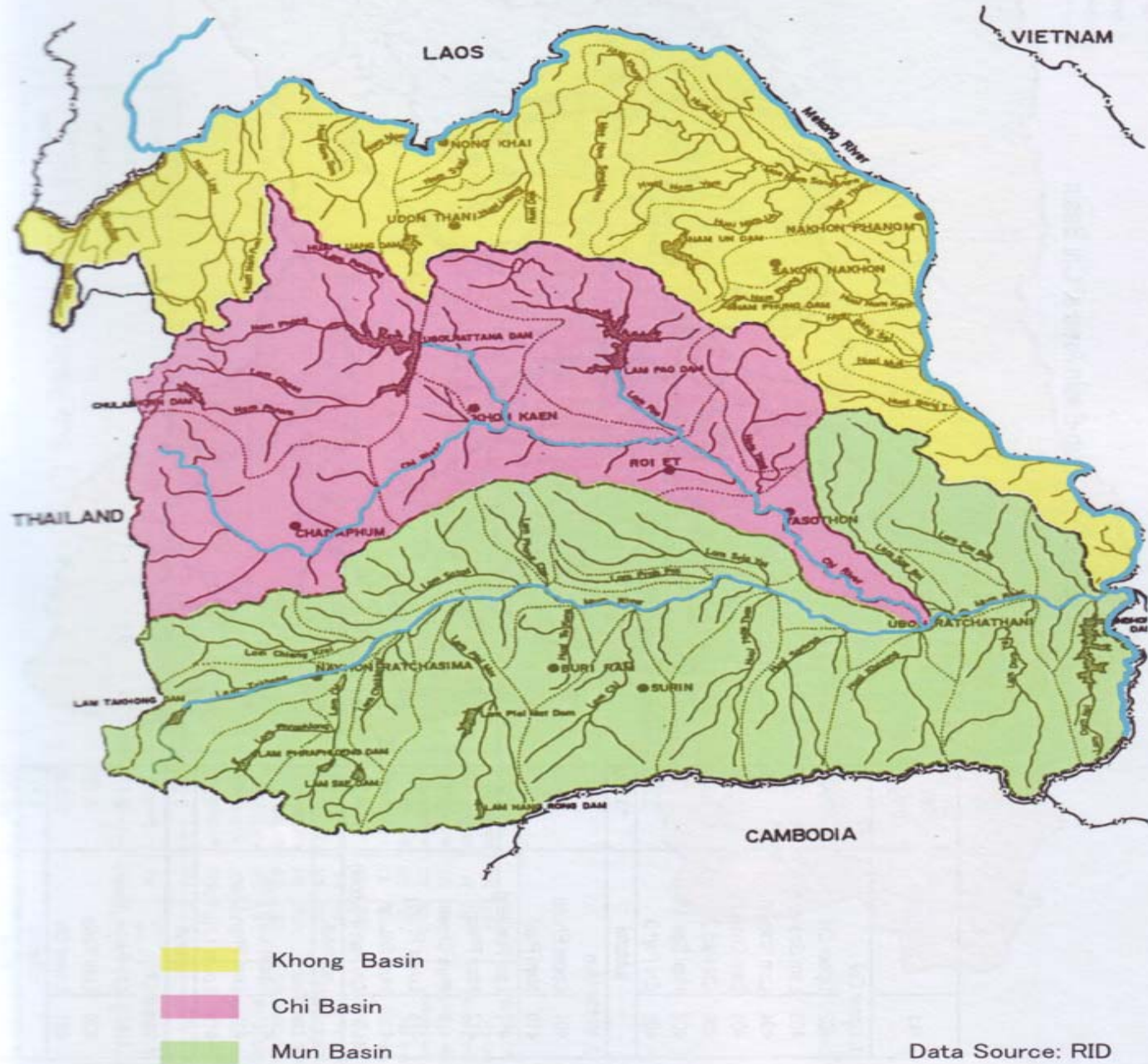


MRC SEA of Hydropower on the Mekong Mainstream

Thailand baseline assessment

Figure 2.1 River Basin in Northeast Thai Region



Presentation overview

1. **Socio-economic**

- Population & GDP
- Poverty incidence income & expenditure

2. **Power**

- Mekong province energy consumption
- Future supply summary

3. **Aquatic systems**

- Fisheries production (Inland & aquaculture)

4. **Hydrology & sediment**

- Discharge
- Sediment load
- Soil loss

5. **Agriculture, land use & irrigation**

- Land use patterns
- Protected areas & policies
- Cropping calendar & water demand
- Irrigation lessons learnt

Social - economic

Mekong Provinces Population

Province	Population			
	2005	2006	2007	2008
Chiang Rai	1,225,058	1,225,713	1,225,013	1,227,317
Phayao	486,889	486,219	486,579	487,386
Amnat Charoen	368,791	368,934	368,915	369,476
Buri Ram	1,531,430	1,536,722	1,536,070	1,541,650
Chaiyaphum	1,116,934	1,119,146	1,119,597	1,122,647
Kalasin	973,556	975,562	977,508	978,583
Khon Kaen	1,747,542	1,750,500	1,752,414	1,756,101
Loei	612,422	613,303	615,538	618,423
Maha Sarakham	936,883	937,686	936,005	936,854
Mukdahan	334,113	335,447	336,107	337,497
Nakhon Ratchasima	2,548,763	2,555,587	2,552,894	2,565,117
Nakorn Phanom	693,594	695,351	697,105	699,364
Nong Bua Lamphu	496,657	496,692	497,603	499,520
Nong Khai	896,099	896,580	902,618	906,877
Roi Et	1,310,672	1,310,047	1,308,589	1,307,212
Sakon Nakhon	1,104,106	1,109,046	1,113,064	1,116,034
Si Sa Ket	1,443,975	1,446,484	1,443,011	1,441,412
Surin	1,374,700	1,375,257	1,372,672	1,375,560
Ubon Ratchathani	1,774,808	1,783,035	1,785,709	1,795,453
Udon Thani	1,523,802	152,562	1,530,688	1,535,029
Yasothon	541,264	540,889	539,542	539,284
National	62,418,054	62,828,706	63,038,247	63,389,730

Source: Department of Public Administration

Social - economic

Past and present trends, and future projection of national economics

Gross domestic product at market price (Mil. Baht)

	2003	2004	2005	2006	2007	%
Agriculture	615,854	668,808	728,093	835,776	913,926	10.8
Agriculture, Hunting and Forestry	506,623	561,857	623,738	730,438	807,898	9.5
Fishing	109,231	106,951	104,355	105,338	106,028	1.2
Non-Agriculture	5,301,515	5,820,668	6,364,800	7,005,521	7,579,385	89.2
Mining and Quarrying	154,606	175,350	222,617	256,837	276,670	3.3
Manufacturing	2,061,572	2,235,573	2,461,294	2,750,367	3,023,454	35.6
Electricity, Gas and Water Supply	191,006	210,903	220,410	238,889	248,119	2.9
Construction	174,699	194,466	214,004	231,899	246,622	2.9
Wholesale and Retail Trade; Repair of Motor Vehicles, Motorcycles and						0.0
Personal and Household Goods	888,016	970,806	1,042,043	1,122,655	1,192,687	14.0
Hotels and Restaurants	299,567	334,222	346,865	386,062	416,592	4.9

Source: National Economic and Social Development Board

Social - economic

Past and present trends, and future projection of national economics

Gross domestic product at market price (Mil. Baht) - Continued

	2003	2004	2005	2006	2007	%
Transport, Storage and Communications	457,169	492,530	519,623	569,875	622,080	7.3
Financial Intermediation	202,257	233,719	264,896	286,220	311,488	3.7
Real Estate, Renting and Business Activities	177,848	188,243	198,521	208,757	215,397	2.5
Public Administration and Defense; Compulsory Social Security	262,272	295,885	326,051	349,853	373,210	4.4
Education	221,191	248,876	280,978	316,690	360,152	4.2
Health and Social Work	106,836	116,695	135,224	150,010	163,849	1.9
Other Community, Social and Personal Services Activities	96,654	115,178	123,743	128,669	119,853	1.4
Private Households with Employed Persons	7,822	8,222	8,531	8,738	9,212	0.1
Gross Domestic Product (GDP)	5,917,369	6,489,476	7,092,893	7,841,297	8,493,311	
GDP Per capita (Baht)	92,485	100,564	108,956	119,579	128,606	
Population (1,000 persons)	63,982	64,531	65,099	65,574	66,041	

Source: National Economic and Social Development Board

Social - economic

Sectoral Gross Domestic Product by Annual Price (Million Baht)

Sectors	Sectoral Gross Domestic Product by Annual Price (Million Baht)							
	National	North	Northeast	Central	East	South	Bangkok	BKK Surrounded Provinces
Agriculture Products	807,898	176,326	180,335	38,044	70,232	249,781	3,524	20,434
Fisheries	106,029	2,914	3,643	848	13,845	65,360	310	14,541
Mineral Resources	276,670	31,332	11,833	8,729	193,960	20,442	-	1,503
Industries	3,023,455	135,574	145,822	392,715	766,696	115,427	477,895	914,887
Electricities and Water Supplies	248,118	14,029	14,512	18,326	75,773	19,788	40,972	35,991
Construction	246,621	32,884	37,516	8,828	24,429	24,631	75,036	33,611
Trading (Wholesale and Retails)	1,192,687	110,966	181,856	44,344	102,081	93,308	535,796	71,737
Hotel and Restuarants	416,592	19,139	17,744	4,726	34,151	44,926	258,643	25,556
Transportation and Communication	622,079	30,233	36,627	19,466	62,415	42,013	277,845	135,591
Financial Services	311,489	27,381	36,134	8,461	16,242	22,480	164,238	26,906
Real Estates	215,397	25,049	29,908	14,529	15,335	23,532	78,065	20,110
Government Budgeting	373,211	51,035	62,304	20,889	28,708	40,819	135,478	14,107
Others (Education, Health Services, etc.)	643,857	101,602	144,699	31,308	40,360	83,734	164,000	44,316

Source: Alfa Research, 2009 referred to NESDB 2007

Social - economic

Past and present trends, and future projection of national economics

Future projection: Trends of economic growth (%)

	2008-2012	2013-2017	2018-2022	2023-2027	Average
Low growth projection	4.96	4.75	4.35	3.87	4.48
Moderate growth projection	5.42	5.65	5.55	5.21	5.46
High growth projection	5.88	6.6	6.82	6.58	6.47

Social - economic

Past and present trends, and future projection of national economics

Future projection: Structure of productivity sectors (% of total GDP)

	2012	2017	2022	2027
Low growth projection				
Agriculture	8.24	7.60	7.00	6.47
Industry	42.16	42.44	42.79	43.42
Service and others	49.6	49.96	50.22	50.12
Moderate growth projection				
Agriculture	8.24	7.60	7.00	6.48
Industry	42.15	42.46	42.88	43.64
Service and others	49.62	49.94	50.12	49.88
High growth projection				
Agriculture	8.23	7.60	7.01	6.51
Industry	42.13	42.47	42.96	43.84
Service and others	49.64	49.94	50.03	49.66

Source: National Economic and Social Development Board

Social - economic

Past and present trends, and future projection of national economics

Drivers for future growth:

- Trends of total factor productivity and investment growth
- Population and labor force growth
- Government consumption
- Price of export goods in global market
- No major shift in industrial production

Social - economic

Poverty incidence

	2002	2004	2006	2007
Poverty gap ratio	2.75	2.01	1.81	1.45
Severity of poverty	0.81	0.56	0.53	0.41
Poverty line (Baht/capita/month)	1,190	1,242	1,386	1,443
Ratio of poor population (%)	14.93	11.16	9.55	8.48
Number of poor population (mil.)	9.1	7.0	6.1	5.4
Total population (mil.)	61.2	62.9	63.4	63.9

Note:

- Poverty gap ratio is the gap between expenditure of people under poverty line and the poverty line (%)
- Severity of poverty is the measurement of the extreme poor group
- Poverty line is calculated from the expenditure which an individual needs to acquire basic food and other goods

Social - economic

Thailand Poverty Headcount Ratio

Region	Poverty Ratio		
	2000	2004	2006
National	21.0	11.2	9.6
Northeast	35.3	18.6	16.8
North	23.1	15.7	12.0
South	16.6	6.0	5.5
Central	9.0	4.5	3.3
BKK	1.7	0.8	0.5
Urban	8.6	4.6	3.6
Rural	26.5	14.2	12.0

Source: THAILAND ECONOMIC MONITOR, APRIL 2008, World Bank and NESDB

Social - economic

Household income and expenditure

Year	Average Household Size	Average Monthly Income of Household (Baht)	Percent of Change per Year	Average Monthly Expenditure of Household (Baht)	Percent of Change per Year
1999	3.7	12,729	1.90	10,238	-1.45
2000	3.6	12,150	-4.55	9,848	-3.81
2001	3.6	12,185	0.29	10,025	1.80

Social - economic

Average Household Income 2006

Type of Income	Average Household Income* 2006 (baht/month)					
	National	North	Northeast	Central	South	Bangkok**
Salary and Fare	7,108	3,920	3,573	7,777	6,128	18,219
Net Profits from Business Operation	3,628	2,688	2,270	3,718	3,719	7,362
Net Profits from Agriculture	2,193	2,173	1,511	3,340	4,677	132
Income from social supports***	1,671	1,620	1,922	1,336	1,184	2,038
Income from Properties	348	186	107	265	274	1,188
None Monetary Income****	2,591	2,220	2,241	2,593	2,479	3,848
Irregular Monetary Income	251	338	191	251	206	300
Total Income	17,787	13,146	11,815	19,279	18,668	33,088

Remarks:

- * = the average of income from 12 months in 2006
- ** = included Nonthaburi, Pathumthani and Samuthprakarn Province
- *** = pension, compensation, lay-off compensate, etc.
- **** = Assume income from the property as leasing or rental cost

Social - economic

Average Household Expense in 2006

Sources of Expense	Average Household Expense* 2006 (baht/month)					
	National	North	Northeast	Central	South	Bangkok**
Food and Beverage	4,221	3,253	3,386	4,567	4,560	6,333
Alcohol Drinks	251	204	179	321	269	356
Cigarette, Chewing and Inhelts	129	79	90	151	192	191
Residentail and Home Decoration***	408	345	285	424	542	601
Cloths and Shoes	3,106	2,293	2,127	3,297	3,140	5,835
Medicinal and Health Care	305	282	193	300	329	550
Personal Expense	405	288	280	438	371	189
Transportation and Communication	3,084	204	2,096	3,282	3,381	6,366
Entertainment, Reading and Religion Relevance	322	279	173	399	307	593
Education	283	220	137	246	245	733
Special Events	188	204	238	212	157	63
Non-consumption expense****	1,610	1,274	1,131	1,736	1,678	2,783
Total Income	14,311	11,185	10,316	15,373	15,260	24,194
Percentage of income	80.5	85.1	87.3	79.7	81.7	73.1

Remarks:

- * = Expense not include payment for saving e.g. housing and jewelries
- ** = included Nonthaburi, Pathumthani and Samuthprakarn Province
- *** = include the payment as a house owner
- **** = include tax, gift, donation, insurances, interests for loans, others

Source: Alfa Research, 2009 referred to National Statistical Office 2006

Energy

Mekong Provinces Electricity Consumption

Mekong Provinces	Electricity Spent (gWh)				Electricity Spent per Head (kWh)			
	2004	2005	2006	2007	2004	2005	2006	2007
Chiang Rai	570	591	624	668	496.4	482.4	509.1	545.3
Phayao	187	198	211	222	382.9	406.7	434.0	456.2
Amnat Charoen	97	103	110	116	263.9	279.3	298.2	314.4
Buri Ram	472	508	532	571	309.7	330.4	346.2	371.7
Chaiyaphum	417	408	474	506	373.3	365.3	423.5	451.9
Kalasin	388	392	424	448	399.5	402.7	434.8	458.3
Khon Kaen	1,130	1,224	1,310	1,403	648.8	700.4	748.4	800.6
Loei	224	229	246	276	366.9	373.9	401.1	448.4
Maha Sarakham	315	349	379	405	336.9	372.5	404.2	432.7
Mukdahan	104	119	128	138	312.7	356.2	381.6	410.6
Nakhon Ratchasima	2,831	3,063	3,330	3,510	1,114.9	1,202.7	1,303.0	1,374.9
Nakorn Phanom	191	202	219	233	276.4	291.2	314.9	334.2
Nong Bua Lamphu	127	138	148	163	256.8	277.9	296.0	327.6
Nong Khai	286	310	330	363	319.3	345.9	366.8	402.2
Roi Et	429	446	477	506	327.4	340.3	364.1	386.7
Sakon Nakhon	306	334	366	391	277.8	302.5	330.0	361.3
Si Sa Ket	349	368	392	422	242.3	254.9	270.0	292.4
Surin	394	433	471	494	287.3	315.0	342.5	359.9
Ubon Ratchathani	633	699	741	789	359.0	393.9	415.5	441.8
Udon Thani	701	738	780	816	461.6	484.3	510.6	533.1
Yasothon	167	179	188	200	308.5	330.7	347.6	370.7
National	115,044	121,229	127,811	133,178	1,856.3	1,942.2	2,034.3	2,112.7

Source: Department of Alternative Energy Development and Efficiency

Thailand Power Development Plan

Current PDP is PDP 2007 (2009-2015) Revision 2, endorsed by the Cabinet on March 24, 2009.

However, the new PDP 2010 (2010-2031) is under drafting process, expected to be launched for public hearing by the end of Jan 2010. This PDP 2010 will be focused on:

- Power security: diversify the power sources
- Green PDP Plan: synchronize with the National Renewable Energy Plan
- Increase efficiency to reduce GHG emission from new power plants.
- Emphasis on the Co-generation technology

Energy

Foreseen Projects during 2009-2015

Type of Investment	MW
▪ EGAT Power Plant Projects	3,767.7
▪ IPP Power Purchase Projects	4,400.0
▪ SPP Power Purchase Projects	1,985.5
▪ VSPP Power Purchase Projects	264.0
▪ Power Purchased from Neighboring Countries	2,186.6

Source: PDP 2007 Revision 2

Energy

Planned Power Purchased from Neighboring Countries

Name	MW
For 2009-2016	
• Nam Theun 2 (Lao PDR)	920
• Nam Ngum 2 (Lao PDR)	596.6
• Theun Hinboun-Expansion (Lao PDR)	220
• New Project	450
For 2016-2021	2,850

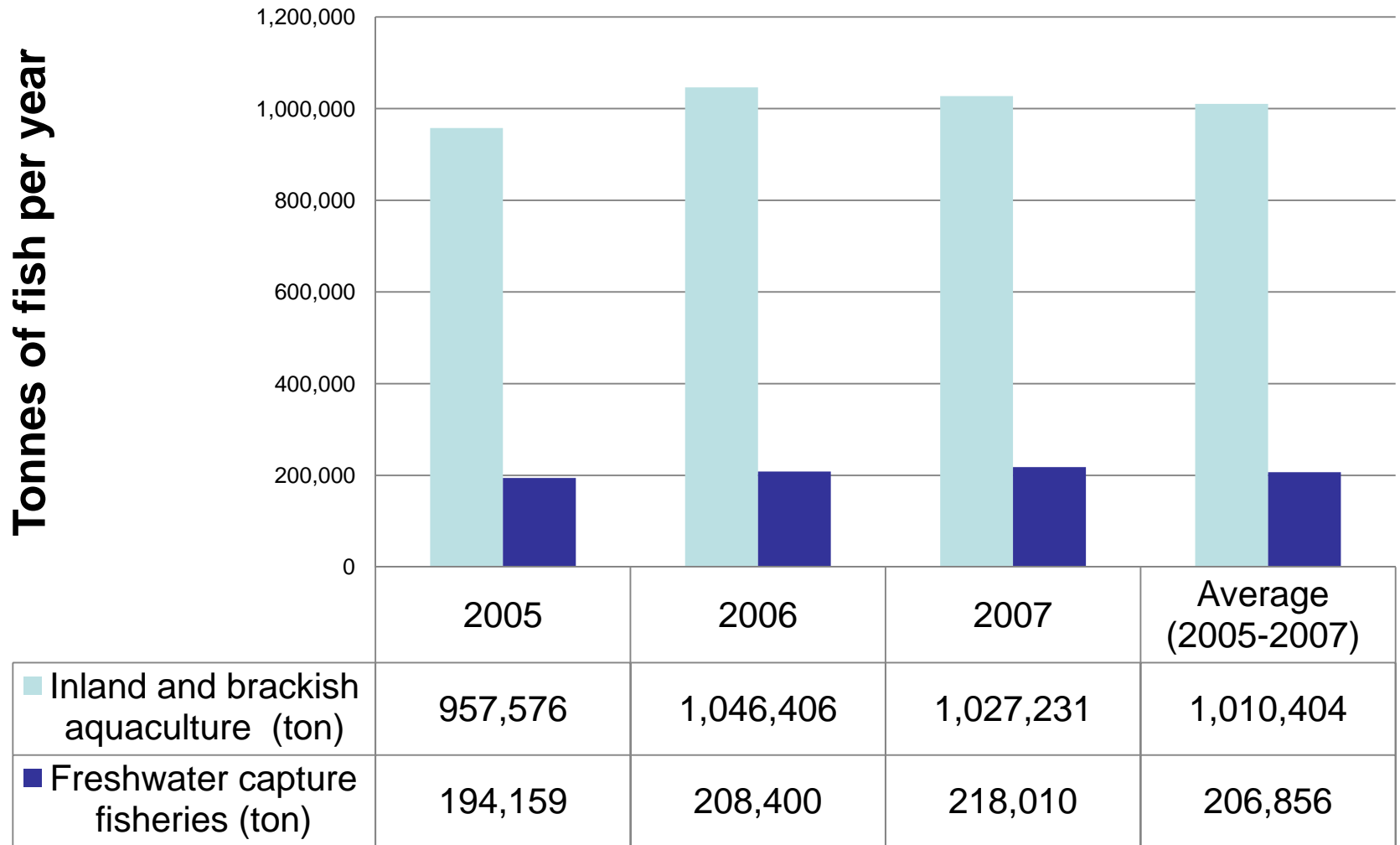
Aquatic system & Fisheries

National Freshwater Fisheries Production

Freshwater Species	2004		2005	
	Volume (ton)	Value (Million Baht)	Volume (ton)	Value (Million Baht)
Snake Head Fish	29,800	1,757.0	24,900	1543.3
Walking Cat Fish	166,100	5,102.7	149,000	4998.9
Common Climbing Perch	10,200	369.3	16,200	602.3
Common Silver Barb	106,800	3,294.7	108,900	3218.9
Nile Tilapia	203,100	6,298.5	244,300	7254.1
Common Carp	13,800	441.9	10,300	352.6
Snake Skin Gourami	37,800	1,511.6	37,000	1468.9
Cat Fish	33,700	858.5	37,200	803.3
Other Fish Species	86,700	2,688.8	71,600	2900.7
Giant Freshwater Prawn	33,000	3,898.7	31,800	4359.1
Shrimps	200	16.5	1,400	57.9
Other non-fish species	6,200	510.9	5,600	455.3
Total	727,400	26,749.1	738,200	28,015.3

Source: Office of Agriculture Economics, 2007, Thailand Agricultural Statistic

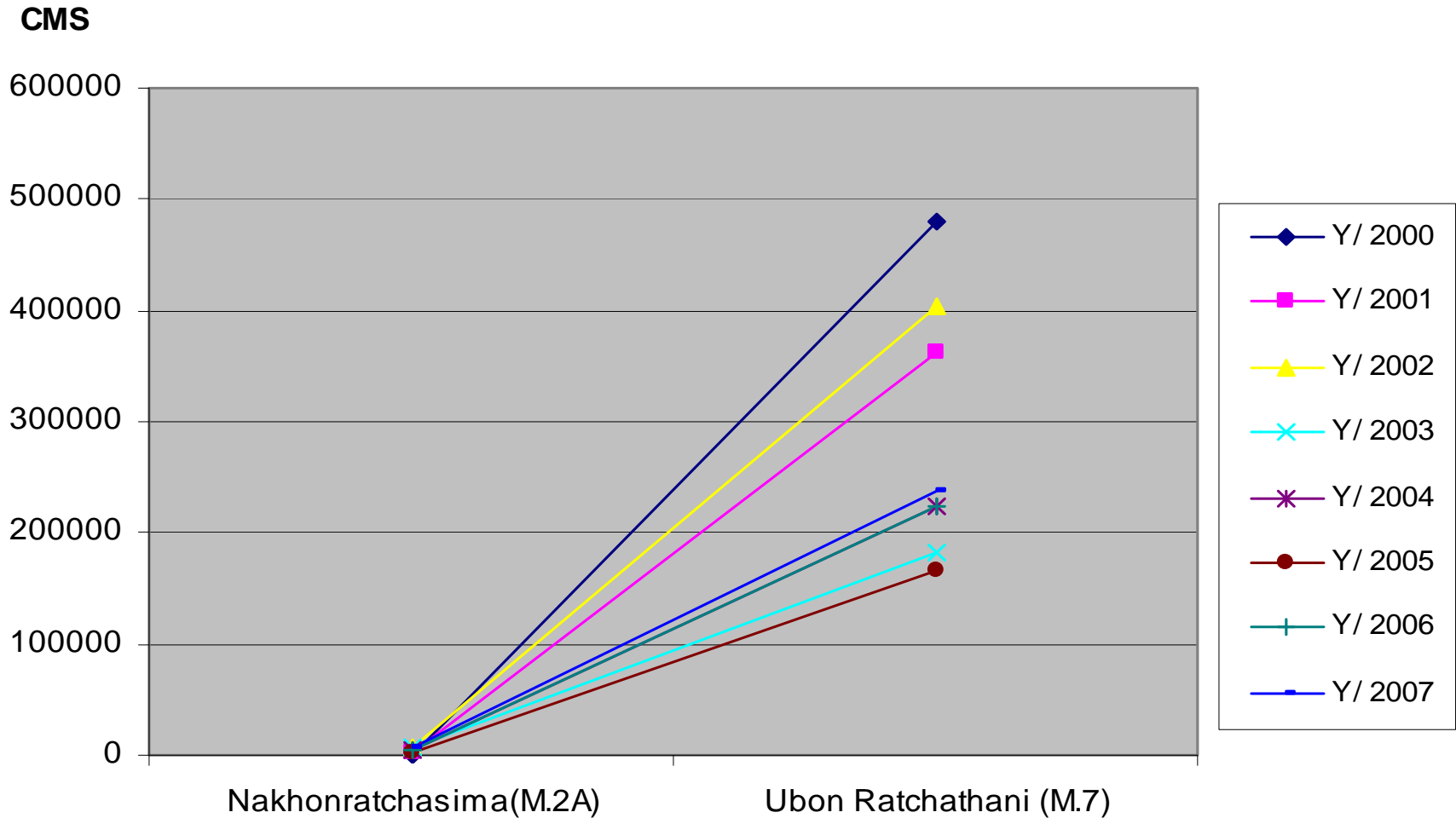
Aquatic system & Fisheries



Source: (FAO; Figs (<http://www.fao.org/fishery/statistics/global-aquaculture-production/query/en>))

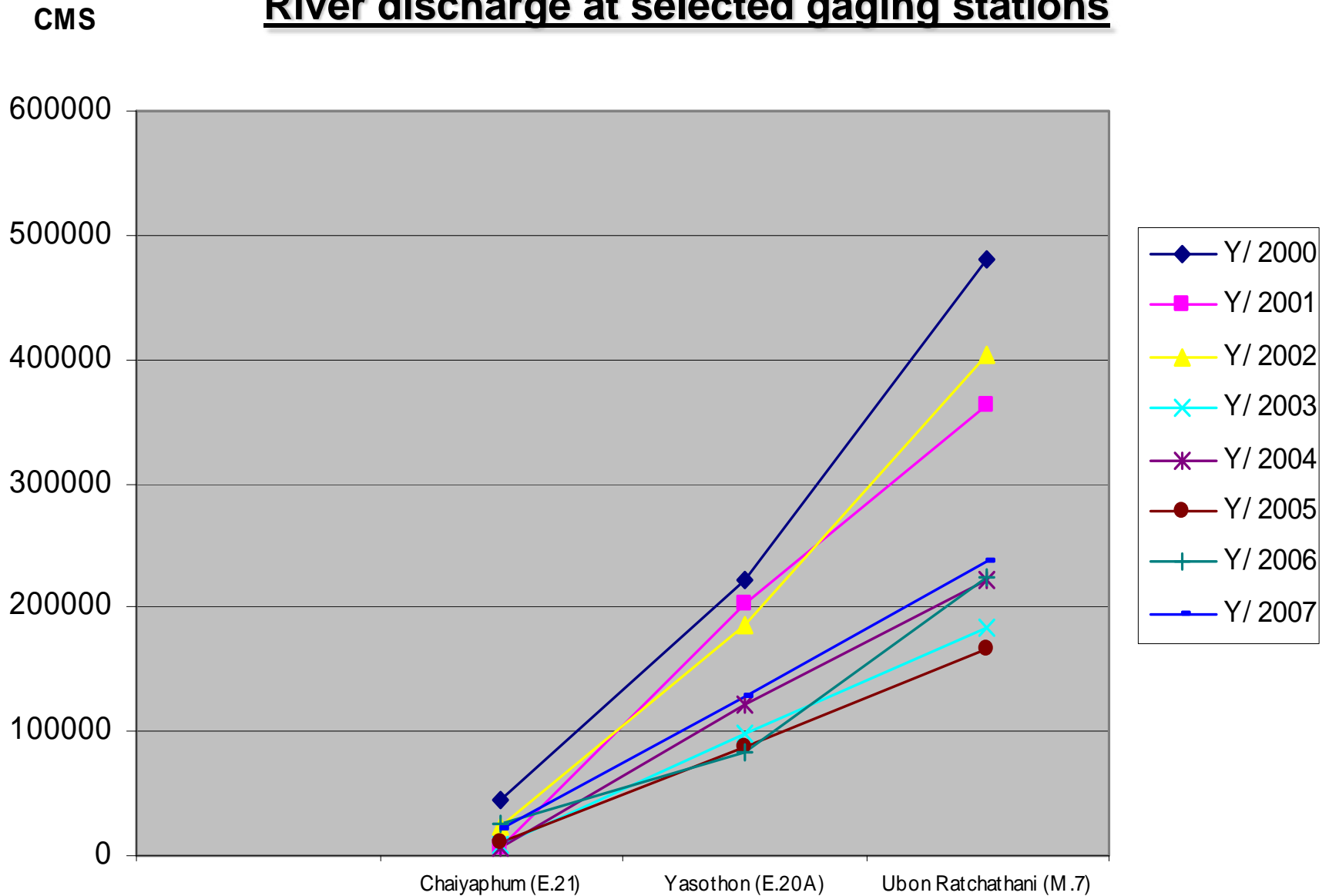
Hydrology & Sediment

River discharge at selected gaging stations



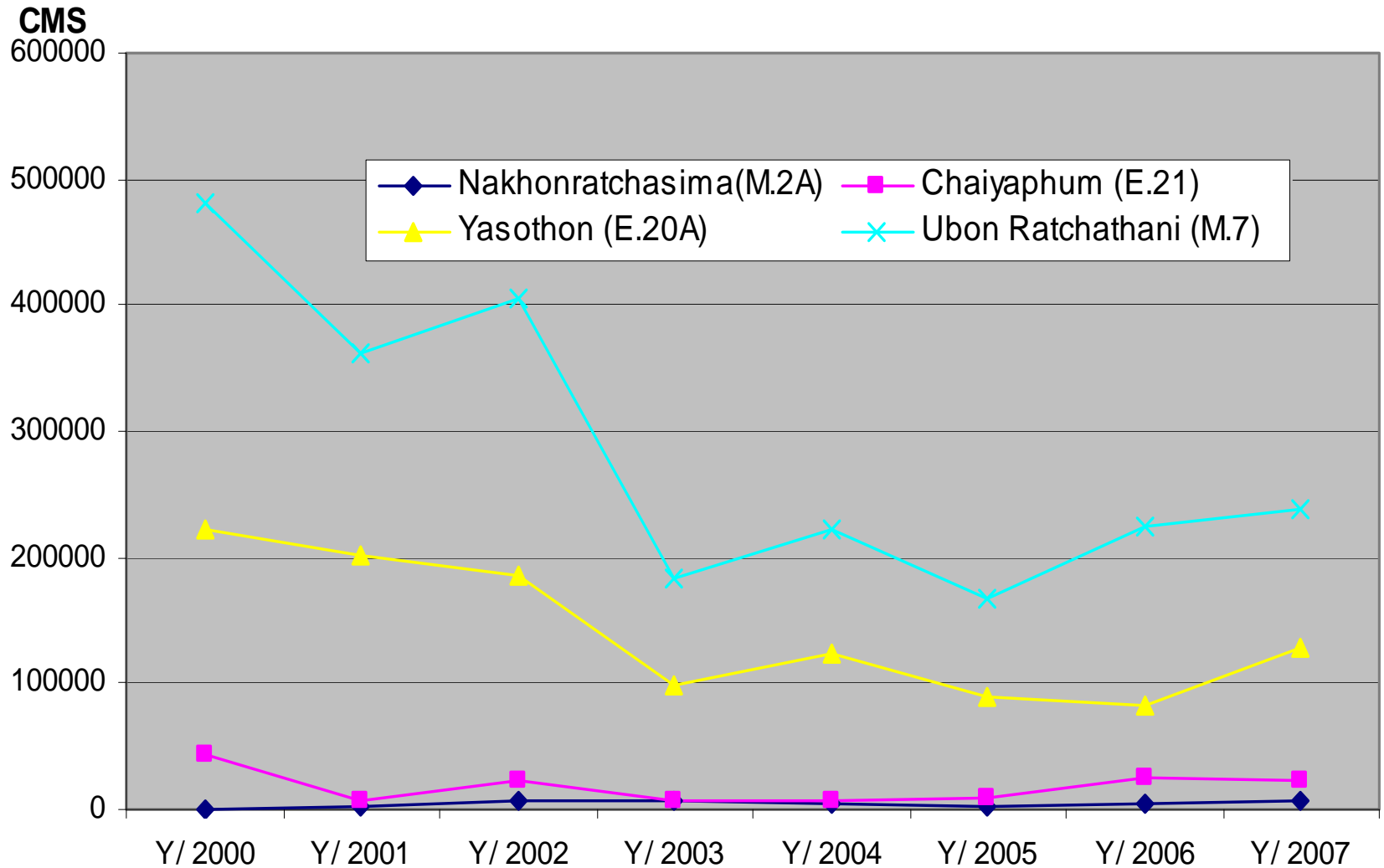
Hydrology & Sediment

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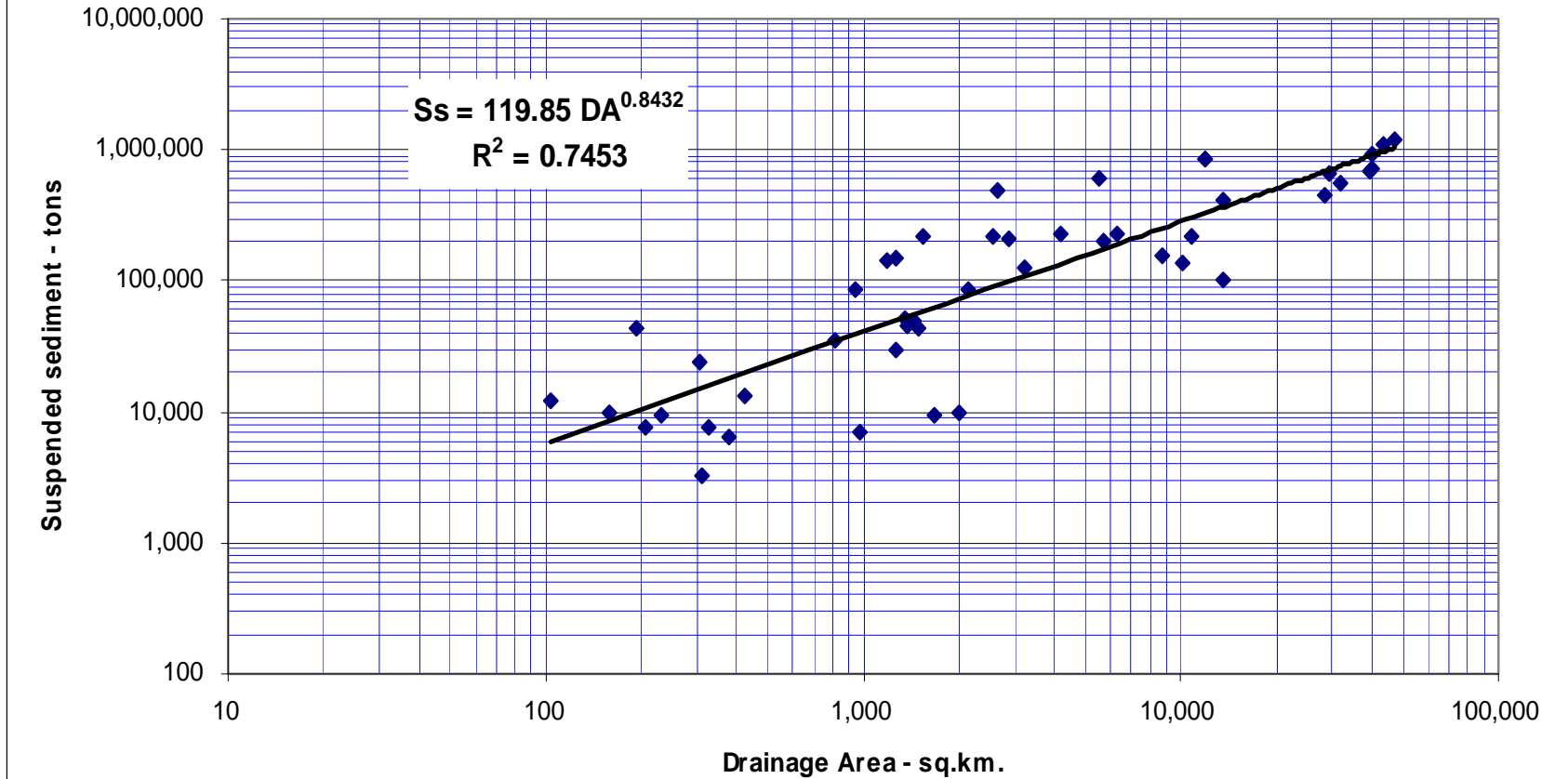
Hydrology & Sediment

River discharge at selected gaging stations



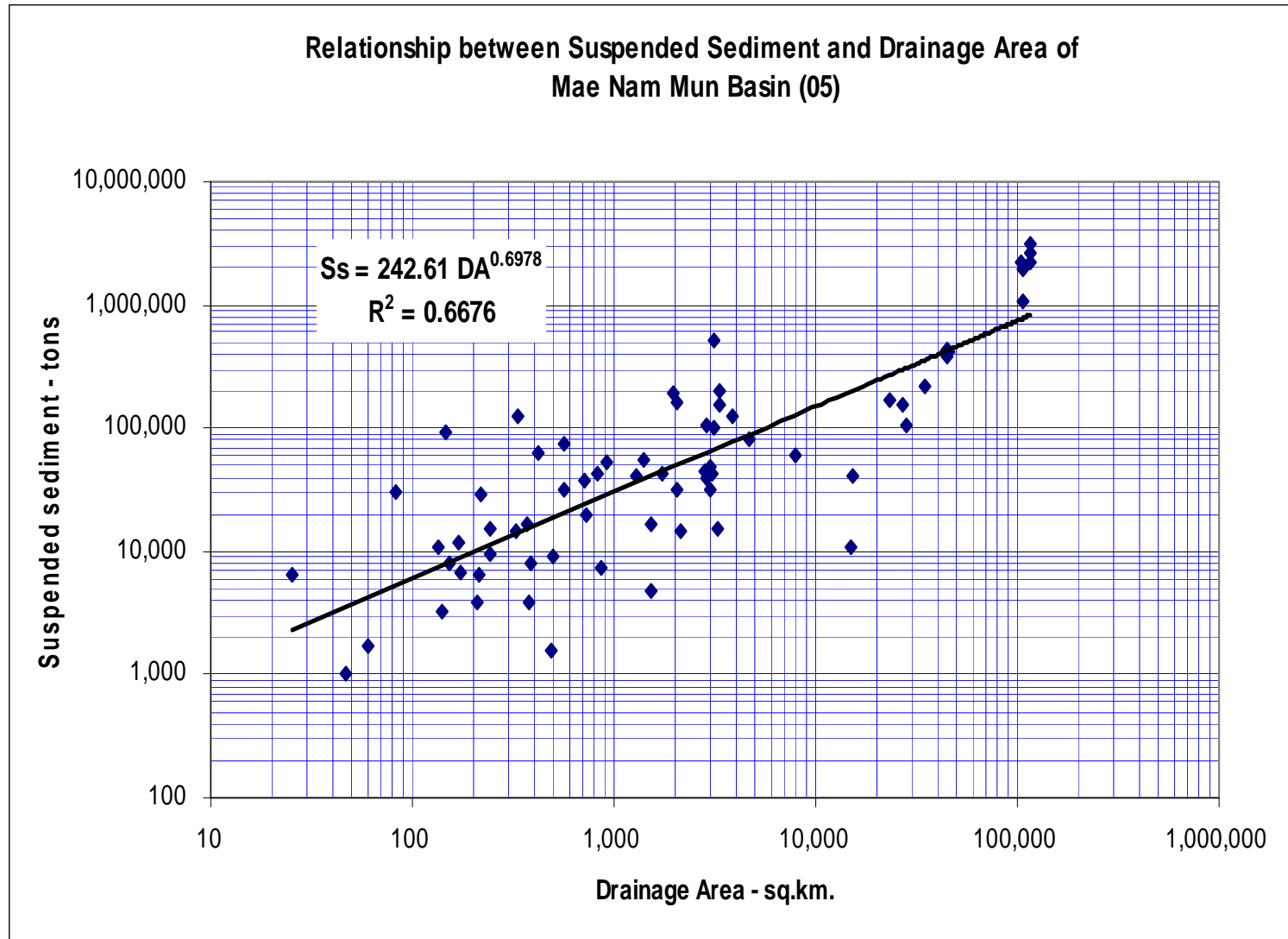
Hydrology & Sediment

Relationship between Suspended Sediment and Drainage Area of Mae Nam Chi Basin (04)



Source : Royal Irrigation Department

Hydrology & Sediment



Source : Royal Irrigation Department

Hydrology & Sediment

Sediment load at various measuring stations in Northeast Thailand

Station	Catchment area (Sq. Km.)	River Basin	Average annual Sediment load (ton)	sediment load / catchment area [ton/km ²]
E32A Chaiyaphum	2,906	Upper Chi	206,526 [1]	71.07
E 1 Mahasarakam	29,438	Middle Chi	647,698[2]	22.00
M. 89 Nakornrachasima	713	Upper Mun	24,224 [3]	33.97
M.5 Srisaket	45,295	Middle Mun	441,536[4]	9.75
M.7 Ubonrajchatani	107,345	Lower Mun	19,811[5]	0.18

[1] Record length 1979 – 1995

[2] Record length 1998 – 2004

[3] Record length 1998 – 2004

[4] Record length 1998 – 2004

[5] Record length 1964 – 1995

Source : Royal Irrigation Department

Hydrology & Sediment

Soil Loss in Northeast of Thailand

Class	Characteristic	Area in rai	%
	Flood plain, sloping area hilly area with slope less than 35%		
1	Mild soil loss	80,733,482	76.50
2	Medium soil loss	14,162,658	13.42
3	High soil loss	2,184,553	2.07
4	Very high soil loss	116,087	0.11
5	Extremely high soil loss	327,155	0.31
	Total	97,523,935	92.41
	Mountain area and valley with slope more than 35%		
1H	Mild soil loss	6,933,581	6.57
2H	Medium soil loss	232,175	0.22
3H	High soil loss	759,845	0.72
4H	Very high soil loss	84,427	0.08
5H	Extremely high soil loss	-	-
	Total	8,010,028	7.59
	Total	105,533,963	100

Source : Land Development Department

Mild soil loss	0-2	ton/rai/year
Medium soil loss	2-5	ton/rai/year
High soil loss	5-15	ton/rai/year
Very high soil loss	15-20	ton/rai/year
Extremely high soil loss	> 20	ton/rai/year

Agriculture & Irrigation

Land use pattern of Northeast Thailand

(Year 2007)

Type of Land use	Area (rai)	%
Community area and infrastructure	5,102,450	4.83
Urban area	548,425	0.52
Rural area	3,649,560	3.46
Others	904,465	0.85
Agriculture Land	69,866,312	66.20
Paddy	46,422,999	43.99
Field crop	17,522,473	16.60
Tree crop	3,196,501	3.03
Fruit tree	1,766,734	1.67
Vegetable garden	105,534	0.10
Rotation crop	482,931	0.78
Pasture	254,297	0.24
Aquaculture	91,657	0.09
Mix farming	21,179	0.02
Forest	22,529,402	21.35
Water Body	3,277,636	3.11
Others	4,768,163	4.51

1 hector = 625 rai

Source : Land Development Department

Agriculture & Irrigation

Major Land Use in Mekong Province in 2006

Mekong Provinces	Forested Area (%)	Agricultural Area (%)
	2003	2003
Chiang Rai	43.7	27.5
Phayao	50.3	26.2
Amnat Charoen	18.2	67.9
Buri Ram	9.2	61.0
Chaiyaphum	29.3	42.7
Kalasin	12.0	60.2
Khon Kaen	11.3	61.0
Loei	37.5	32.1
Maha Sarakham	4.2	82.1
Mukdahan	33.6	33.9
Nakorn Phanom	24.0	43.0
Nakhon Ratchasima	15.4	60.3
Nong Khai	9.1	57.5
Nong Bua Lamphu	14.7	61.6
Roi Et	6.4	61.6
Sakon Nakhon	21.3	46.6
Si Sa Ket	11.7	62.3
Surin	10.4	69.9
Udon Thani	12.6	50.3
Ubon Ratchathani	17.2	48.4
Yasothon	11.0	61.7
National	32.7	40.6

Source: Office of Agriculture Economics, 2007, Thailand Agricultural Statistic

Agriculture & Irrigation

Forest Policies Changes

National Goal	Protected Area	Economic Forest
National Forest Policy (Cabinet Resolution 3 December 1985)	15	25
7th National Economic and Social Development Plan (1992-1996)	25	15
10th National Economic and Social Development Plan (2007-2011)	18	15
<p>Prime Minister's Statement at UNFCCC COP 15th, December 2009.</p> <p>“Thailand has an ambitious target to increase the national forest cover from 30 % in 2006 up to 40% by 2020. At present, we have 228 protected areas and planned to establish more in the future. The constant effort on forest conservation and protection as well as reforestation programmes through action and implementation plan by promoting people participation is one of the key successes in our efforts to reach our target. “</p>		

Agriculture & Irrigation

Change of Protected Areas from 2004-2008

Protected Areas Type	2004		2005		2006		2007		2008	
	No.	Area (Sq.Km)	No.	Area (Sq.Km)	No.	Area (Sq.Km)	No.	Area (Sq.Km)	No.	Area (Sq.Km)
National Park	103	52,773.73	103	52,773.73	103	52,773.73	108	54,125.53	110	55,135.32
Forest Park	69	832.80	84	958.40	112	1,298.88	113	1,238.78	112	1,236.71
Wildlife Sanctuary	55	35,748.99	55	35,748.99	55	35,748.99	57	36,205.37	57	36,578.72
Non-Hunting Area	56	4,346.46	56	4,346.46	56	4,346.46	51	3,776.24	60	5,233.04
Botanical Garden	16	60.14	16	63.32	16	46.28	16	46.28	16	41.37
Arboretum	55	36.61	55	40.52	55	41.89	55	41.89	55	42.84

Source: National Parks, Wildlife and Plant Conservation Department, 2008, Statistical Data

Agriculture & Irrigation

Distribution of Protected Areas 2008

Protected Area Type	North		Northeast		Central		East		South	
	No.	Area (Sq.km)	No.	Area (Sq.km)	No.	Area (Sq.km)	No.	Area (Sq.km)	No.	Area (Sq.km)
National Park	38	23,456.05	21	10,026.71	12	8,680.76	7	2,495.49	32	10,476.31
Forest Park	62	638.36	28	455.08	11	35.64	3	67.16	8	40.47
Wildlife Sanctuary	24	17,329.48	11	5,104.74	5	5,815.05	4	2,233.90	13	6,095.54
Non-Hunting Area	13	881.09	10	612.59	15	844.61	3	40.43	19	2,854.31
Botanical Garden	2	0.60	3	5.39	2	11.51	2	9.51	6	14.30
Arboretum	23	19.52	14	14.78	9	3.84	5	3.46	4	1.24

Source: National Parks, Wildlife and Plant Conservation Department, 2008, Statistical Data

Agriculture & Irrigation

National Forest Reserves

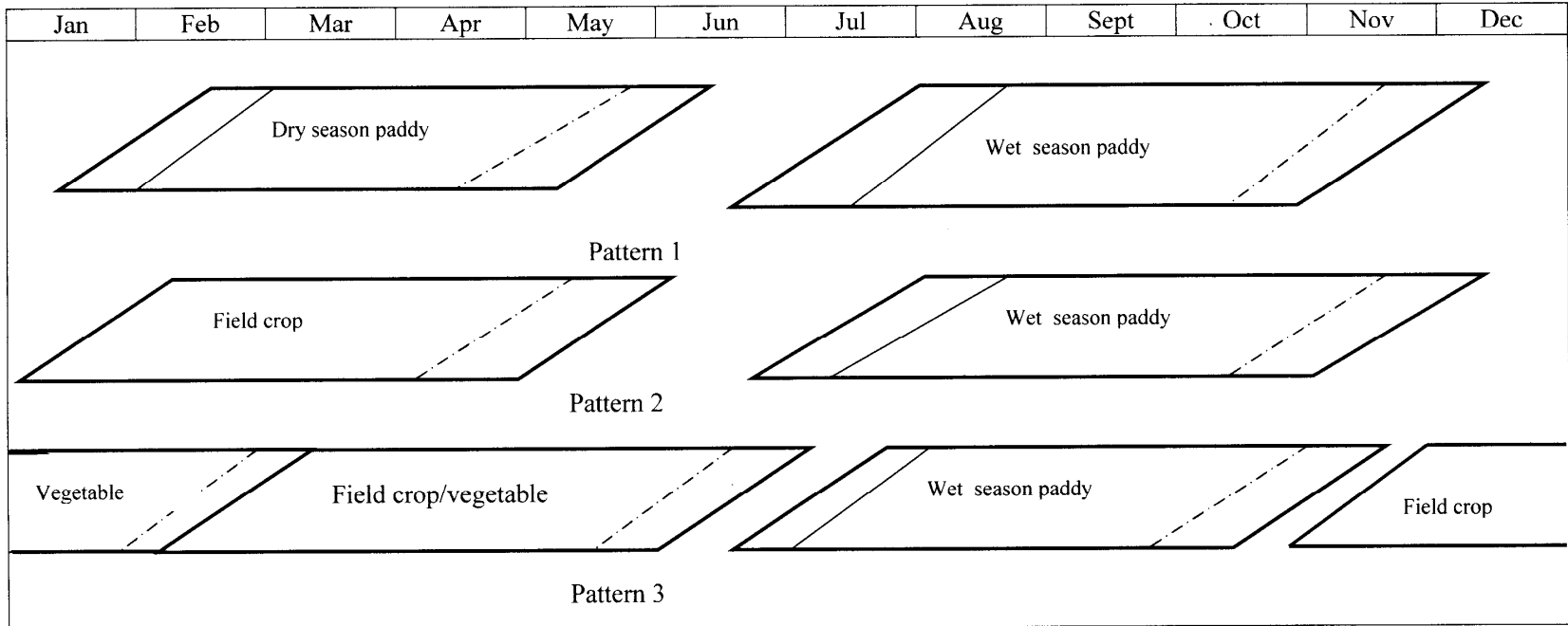
National Forest Reserves	2004		2005		2006		2007		2008	
	No.	Area (Sq.Km)	No.	Area (Sq.Km)	No.	Area (Sq.Km)	No.	Area (Sq.Km)	No.	Area (Sq.Km)
North	257	111,964.78	257	111,964.78	257	111,964.78	257	111,875.04	257	111,875.04
North-east	353	53,333.40	353	53,333.40	353	53,333.40	353	53,333.40	353	53,333.40
Central & East	143	34,889.06	143	34,889.06	143	34,889.06	143	34,889.06	143	34,889.06
South	468	28,183.15	468	28,183.15	468	28,183.15	468	28,183.15	468	28,183.15
Total	1,221	230,370.39	1,221	230,370.39	1,221	230,370.39	1,221	230,280.65	1,221	230,280.65

Remarks:

Total area compiled from the maps and their corresponding area published in the government gazette which occasionally overlapped each other and some areas have already been revoked from the reserved category for other used.

Agriculture & Irrigation

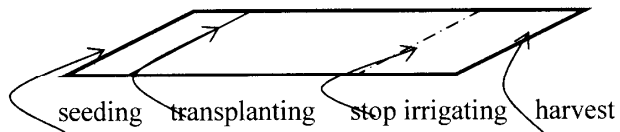
Cropping calendar of irrigated areas in Northeast of Thailand



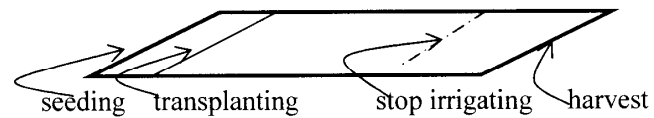
Source : Royal Irrigation Department

Symbol

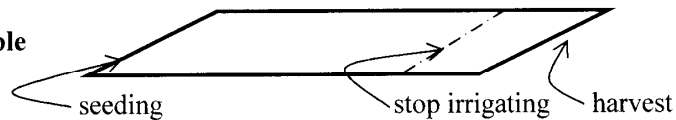
1. Wet season paddy



2. Dry season paddy



3. Field crop/ vegetable



Agriculture & Irrigation

Current water demand for different sectors and water storage capacity

(million cubic meter)³

Basin	Water demand				Storage capacity	Surface Run-off
	Domestic	Agriculture	Industrial	Total		
Kong	194.31	2,439.00	37.00	2,670.30	1,996.50	28,302.20
Chi	216.17	4,134.00	93.85	4,444.02	4,998.00	11,948.34
Mun	311.82	4,075.00	180.50	4,567.32	4,837.47	18,972.48
Total	722.30	10,648.00	311.34	11,681.64	11,831.97	59,223.02

Source : Department of Water Resources

Agriculture & Irrigation

Estimated water demand for different sectors and water storage capacity in 2014

(million cubic meter)³

Basin	Water demand				Storage capacity	Surface Run-off
	Domestic	Agriculture	Industrial	Total		
Kong	209.46	2,830.37	38.85	3,078.67	1,996.50	28,302.20
Chi	286.64	5,634.62	98.54	6,019.80	4,998.00	11,948.34
Mun	336.51	4,108.17	219.00	4,663.68	4,837.47	18,972.46
Total	832.61	12,573.16	356.38	13,762.15	11,831.97	59,223.02

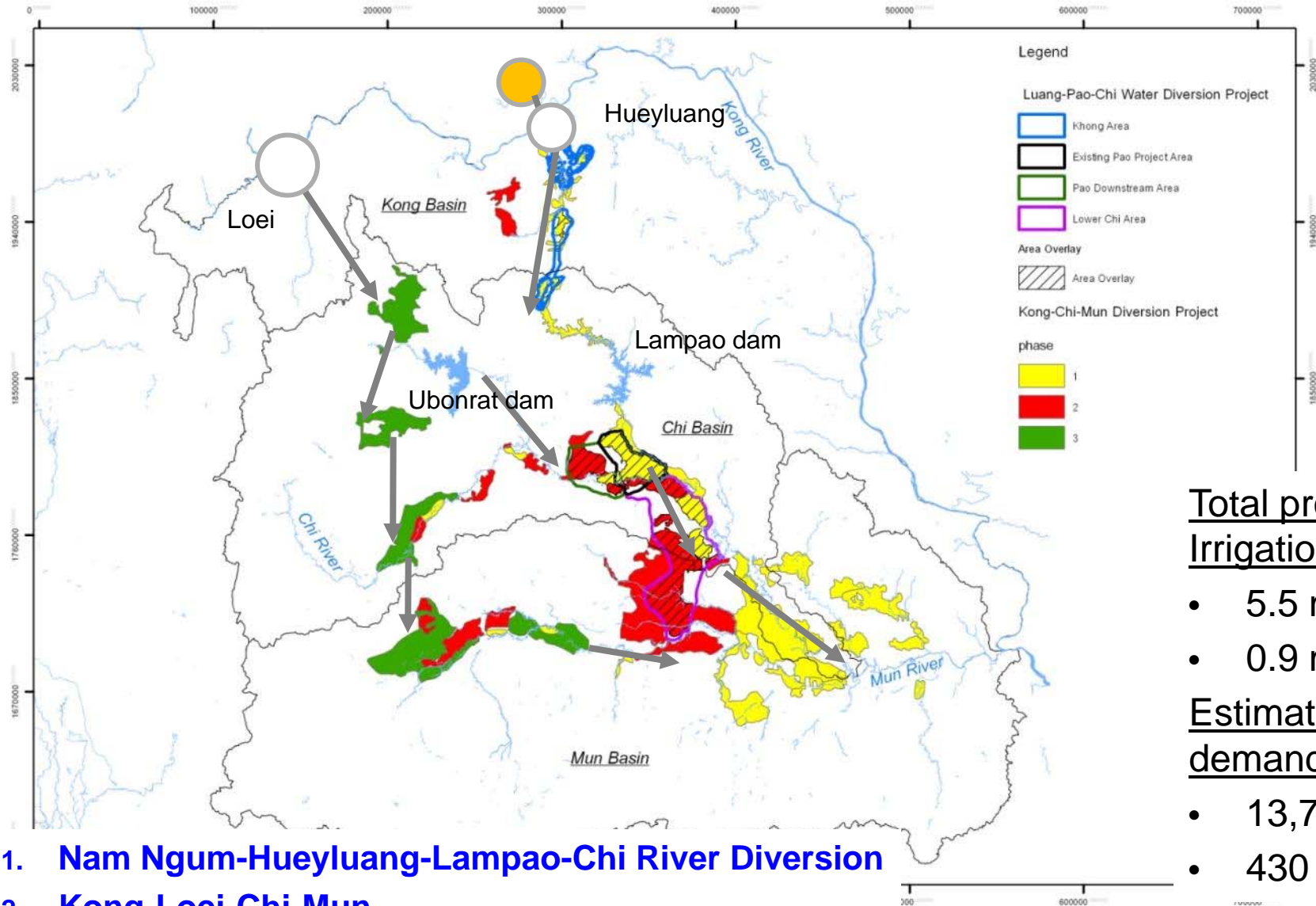
Source : Department of Water Resources

IWRM/ Water resources management

- **No IWRM/ water resources management plan**
- **IWRM principle incorporated into water resources management system**
- **Achieve through putting elements of the three components of IWRM into practice**

Agriculture & Irrigation

Mekong mainstream mega-irrigation projects



Total proposed Irrigation area

- 5.5 million rai
- 0.9 million ha

Estimated water demand

- 13,750 MCM
- 430 m³/s

Thank you

The image features the text "Thank you" in a bold, sans-serif font. Each letter is filled with a different color from a rainbow spectrum: 'T' is magenta, 'h' is red, 'a' is orange, 'n' is yellow, 'k' is green, 'y' is blue, and 'u' is purple. The text is rendered with a slight 3D effect, as evidenced by a soft, grey shadow cast beneath it to the left and slightly forward.