

Technical Assistance to the Kingdom of Cambodia
for the Study of the Influence of Built Structures
on the Fisheries of the Tonle Sap
(financed by the Government of Finland)

Database Component

**BUILT STRUCTURES DATABASE
TONLE SAP BUILT STRUCTURES STATISTICS**

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INTRODUCTION

This document contains summary statistics of the Tonle Sap Basin built structures database. Data sets used to identify structures are detailed in the database documentation. In short this census is based on the best available GIS information covering the whole basin, with a specific focus on floodplains and the three project study areas: Stung Chinit, Prek Toal and Pursat. For these study areas, more detailed information has been sought, maps of higher resolution have been used and details of these maps have been digitized (e.g. fishing gear in Prek Toal) to be better quantified.

More than fourteen thousand built structures have been identified during the studying the Tonle Sap Basin. However counting all existing structures in the Tonle Sap Basin (i.e. over 44 percent of the whole country) is a titanic undertaking; during this project only 3 study areas could be covered in detail. Roads cannot be easily counted (their length, width or design might be more important than their number). Counting structures also relies on automatic mapping (e.g. to identify rice fields), with subsequent uncertainties. Categorizing them into simple, distinct groups is often tricky (e.g. difference between weirs, dykes and embankments). Fishing fences can be identified as long as they are not under vegetation cover nor underwater (which is often the case with extensive nylon barriers). Canals are many but include a large majority of canals from the Khmer Rouge period that are not actually operational. Major pollution sources (mines, factories, etc.) can be counted, but not diffuse pollution sources due to agriculture or human settlements. Last, the influence of many structures depends on how they are designed and operated. For instance a sluice gate in an irrigation scheme counts as one structure, but its role depends whether it is open or closed, and when; similarly a floodplain road that counts as one structure will have a different influence depending upon the number and size of its culverts.

1. STATISTICS BY SUB-CATCHMENT



Figure 1: Tonle Sap subcatchments

Tonle Sap subcatchment statistics

Subcatchment	Area (km ²)	Flooded (km ²) medium flood	Flooded (%) in medium flood
Siem Bok	8851.22	2171.99	24.54
St. Baribo	7153.78	1032.37	14.43
St. Battambang	3708.31	431.79	11.64
St. Chikreng	2713.90	700.19	25.80
St. Chinit	8236.86	1983.23	24.08
St. Dauntri	3695.97	1174.30	31.77
St. Mongkol Borey	14966.42	1834.95	12.26
St. Pursat	5964.77	687.25	11.52
St. Sangker	2344.47	1548.73	66.06
St. Sen	16359.58	1773.03	10.84
St. Siem Reap	3618.98	1017.23	28.11
St. Sreng	9986.27	1430.55	14.33
St. Staung	4357.39	1186.82	27.24
Tonle Sap	2743.80	2743.80	100.00
Sum	94701.70	19716.23	20.82

Lake dry season and medium flood (year 2001) statistics

Dry season lake from MRC shoreline data (50m resolution):

Lake shoreline length	1059	km
Main islands shoreline length	1309	km
Together	2368	km
Lake area (islands subtracted)	2767	km ²

Medium flood lake shoreline length from MRC 2001 flood level data (50m resolution):

Total shoreline length	7007.8	km
Area under flood	19718.7	km ²

Dry season and medium flood shoreline lengths by catchment area

Catchment	Dry season (km)	Flooded (km)
Siem Bok	0	736.24
St. Baribo	368.1	554.33
St. Battambang	0	267.85
St. Chikreng	298.5	162.42
St. Chinit	181.2	379.19
St. Dauntri	133.9	725.48
St. Mongkol Borey	0	1626.26
St. Pursat	109.7	351.88
St. Sangker	176.5	89.5
St. Sen	106.4	531.38
St. Siem Reap	69.4	449.58
St. Sreng	41.7	814.25
St. Staung	482.8	319.42
Tonle Sap	400.8	0
Sum	2368.1	7007.78

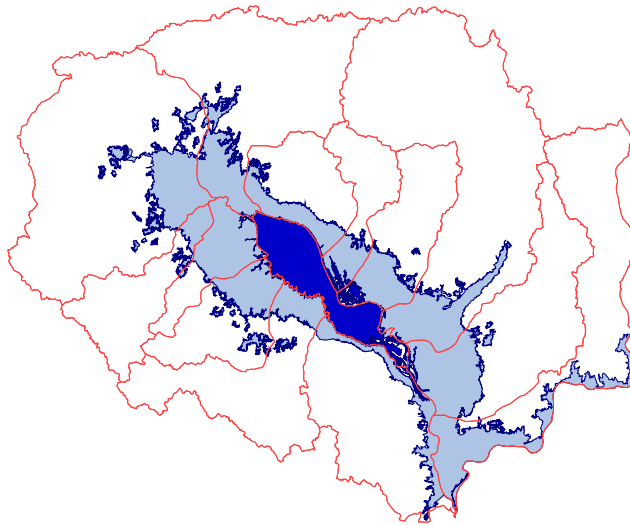


Figure 2: Data used in shoreline length and area computation, dry season lake area in blue, medium flood area in light blue, and catchment boundaries in red.

Dry season lake shoreline length during low water level, computed from subcatchment boundary data:

Catchment	Length (km)
Siem Bok	0
St. Baribo	80.5
St. Battambang	0
St. Chikreng	22.2
St. Chinit	15.5
St. Dauntri	30.0
St. Mongkol Borey	0
St. Pursat	83.7
St. Sangker	33.6
St. Sen	46.6
St. Siem Reap	56.6
St. Sreng	11.9
St. Staung	40.5
Tonle Sap	0
Sum	421.1

2. STATISTICS BY PROVINCE

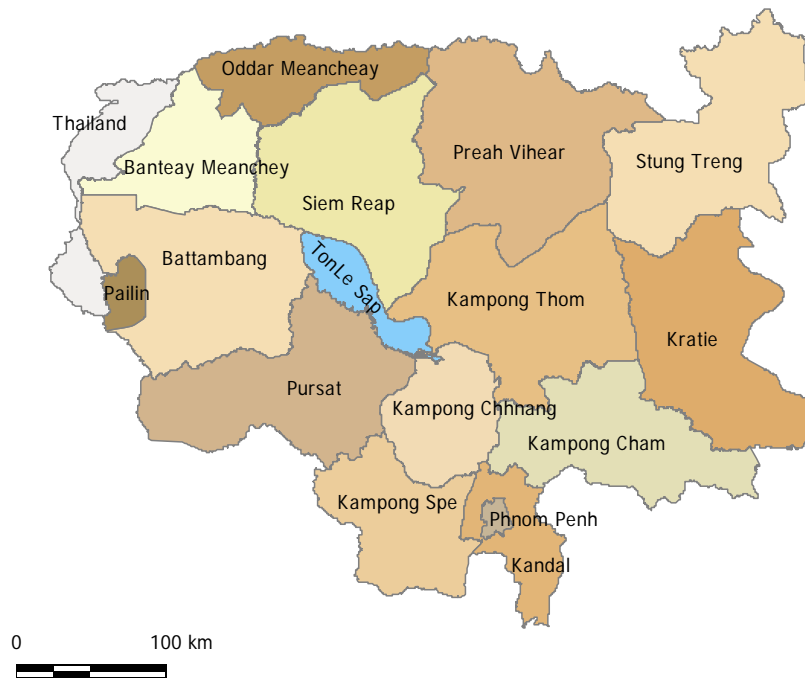


Figure 3: Cambodian provinces intersecting Tonle Sap catchment area

Area data for provinces in the Tonle Sap catchment, including flooded area of provinces within the Tonle Sap catchment boundary (see Figure 4).

Province	Area (km ²)	Flooded (km ²) in medium flood and within Tonle Sap catchment
Stung Treng	12016.42	0
Oddar Meanchey	5211.71	30.90
Preah Vihear	14030.75	0
Banteay Meanchey	6148.69	1347.75
Siem Reap	11963.74	2825.36
Thailand	4102.97	0
Battambang	11857.86	3331.61
Kampong Thom	12446.57	3625.73
Kratie	11972.83	268.88
Tonle Sap	2524.603	2524.603
Pailin	1090.97	0
Pursat	11576.90	1612.47
Kampong Chhnang	5327.54	1964.28
Kampong Cham	9482.88	1642.04
Kampong Spe	6964.62	0.2
Kandal	3563.69	506.35
Phnom Penh	373.72	56.06

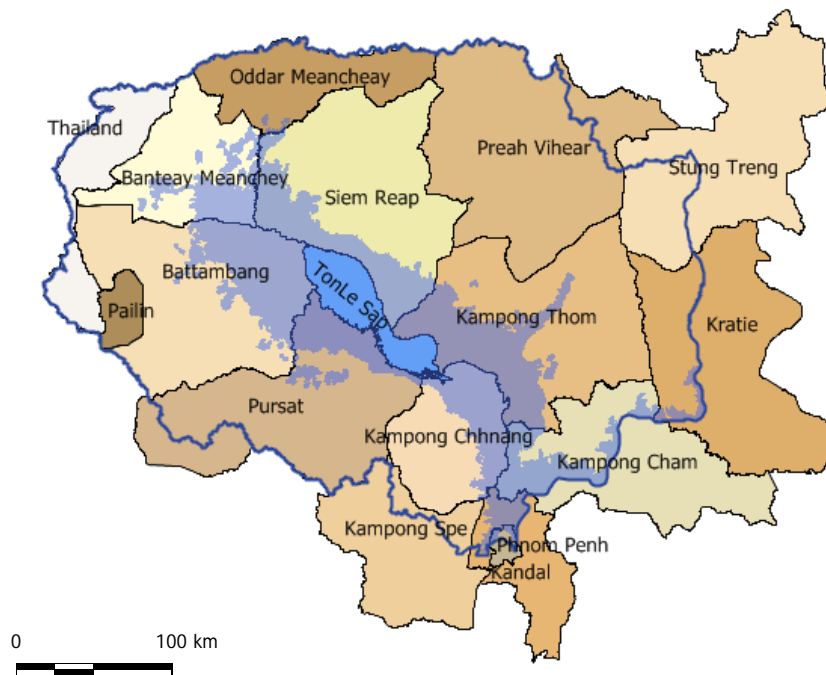


Figure 4: Medium flood area with provinces and Tonle Sap catchment boundary (wide blue line).

3. NUMBER OF STRUCTURES BY CLASS

Class ID	Class name	Count
110	Reservoir	55
211	Irrigation canal	3992
220	Bridge	1311
230	Culvert	323
310	Dam	38
320	Embankment	908
321	Road embankment primary	45
322	Road embankment other	2149
323	Railroad embankment	20
324	Reservoir dike	3
340	Weir	2
371	Hydrological station	44
372	Meteorological station	85
411	Dai fishery	11
413	Fence system	163
414	Fence trap	258
415	Fence pen	51
440	Fishing lot	41
450	Fish sanctuary	7
610	Rice field	1597
620	Field crops	473
630	Plantation	77
640	Other agriculture	2961
650	Irrigated area	159
710	Docks/Harbour	4
730	Ferry	4
814	Mine	62
Sum		14843

4. STRUCTURE STATISTICS BY SUBCATCHMENT

Length of primary roads (km)

Catchment	Count	Length (km)
Siem Bok	8	138.47
St. Baribo	16	188.79
St. Battambang	1	18.89
St. Chikreng	1	19.88
St. Chinit	2	68.72
St. Dauntri	2	51.26
St. Mongkol Borey	5	155.61
St. Pursat	1	29.31
St. Sangker	1	20.63
St. Sen	1	50.32
St. Siem Reap	1	77.83
St. Sreng	2	35.6
St. Staung	2	44.49
Sum	43	899.81

Length of other roads (km)

Catchment	Count	Length (km)
Siem Bok	106	657.27
St. Baribo	225	844.73
St. Battambang	152	443.27
St. Chikreng	8	41.97
St. Chinit	129	600.12
St. Dauntri	85	208.99
St. Mongkol Borey	509	1604.24
St. Pursat	191	588.8
St. Sangker	6	49.73
St. Sen	212	1013.28
St. Siem Reap	228	678.61
St. Sreng	243	1091.97
St. Staung	54	215.56
Sum	2148	8038.54

Length of railroad embankments (km)

Catchment	Count	Length (km)
Siem Bok	0	0
St. Baribo	9	143.07
St. Battambang	1	21.53
St. Chikreng	0	0
St. Chinit	0	0
St. Dauntri	2	51.97
St. Mongkol Borey	3	111.34
St. Pursat	1	31.72
St. Sangker	1	20.15
St. Sen	0	0
St. Siem Reap	0	0
St. Sreng	0	0
St. Staung	0	0
Sum	17	379.78

Length of embankments (km)

Catchment	Count	Length (km)
Siem Bok	232	363.88
St. Baribo	108	197.61
St. Battambang	15	24.72
St. Chikreng	17	57.36
St. Chinit	67	117.92
St. Dauntri	62	168.09
St. Mongkol Borey	124	347.11
St. Pursat	4	8.62
St. Sangker	12	34.86
St. Sen	33	64.82
St. Siem Reap	167	418.73
St. Sreng	44	144.82
St. Staung	23	89.56
Sum	908	2038.11

Length of irrigation channels (km)

Channels selected for a catchment if the channel mid-point is within the catchment.

Catchment	Count	Length (km)
Siem Bok	264	259.49
St. Baribo	133	285.81
St. Battambang	94	108.77
St. Chikreng	30	65.56
St. Chinit	493	626.94
St. Dauntri	282	479.58
St. Mongkol Borey	1622	2039.92
St. Pursat	249	405.84
St. Sangker	86	154.17
St. Sen	161	215.69
St. Siem Reap	63	155.73
St. Sreng	373	429.15
St. Staung	142	187.98
Sum	3992	5414.63

Length of reservoir dikes (km)

Catchment	Count	Length (km)
Siem Bok	0	0
St. Baribo	0	0
St. Battambang	0	0
St. Chikreng	0	0
St. Chinit	3	25.89
St. Dauntri	0	0
St. Mongkol Borey	0	0
St. Pursat	0	0
St. Sangker	0	0
St. Sen	0	0
St. Siem Reap	0	0
St. Sreng	0	0
St. Staung	0	0
Sum	3	25.89

Length of fish fences (km)

Data was available from Preak Toal area only, see figure 5.

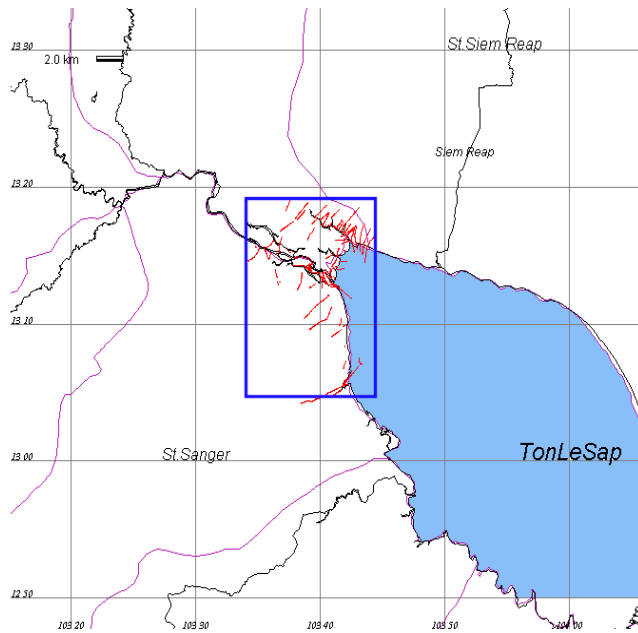


Figure 5: Area from where fishing fences, pens and traps data have been digitized.

Catchment	Count	Length (km)
Siem Bok	0	0
St. Baribo	0	0
St. Battambang	0	0
St. Chikreng	0	0
St. Chinit	0	0
St. Dauntri	0	0
St. Mongkol Borey	0	0
St. Pursat	0	0
St. Sangker	54	55.66
St. Sen	0	0
St. Siem Reap	1	4.1
St. Sreng	74	56.45
St. Staung	34	8.16
Sum	163	124.37

Number of traps (km)

Catchment	Count
Siem Bok	0
St. Baribo	0
St. Battambang	0
St. Chikreng	0
St. Chinit	0
St. Dauntri	0
St. Mongkol Borey	0
St. Pursat	0
St. Sangker	83
St. Sen	0
St. Siem Reap	0
St. Sreng	105
St. Staung	70
Sum	258

Number of pens (km)

Catchment	Count
Siem Bok	0
St. Baribo	0
St. Battambang	0
St. Chikreng	0
St. Chinit	0
St. Dauntri	0
St. Mongkol Borey	0
St. Pursat	0
St. Sangker	17
St. Sen	0
St. Siem Reap	0
St. Sreng	24
St. Staung	10
Sum	51

Area of reservoirs (km2)

Catchment	Count	Area (km2)
Siem Bok	2	1.74
St. Baribo	0	0
St. Battambang	0	0
St. Chikreng	2	3.64
St. Chinit	1	0.85
St. Dauntri	0	0
St. Mongkol Borey	6	27.36
St. Pursat	0	0
St. Sangker	0	0
St. Sen	4	6.83
St. Siem Reap	3	14.27
St. Sreng	5	12.03
St. Staung	32	35.56
Sum	55	102.28

Area of paddy fields (km2)

Catchment	Count	Area (km2)
Siem Bok	206	1196.25
St. Baribo	167	2656.31
St. Battambang	29	539.88
St. Chikreng	51	402.85
St. Chinit	109	1607.71
St. Dauntri	48	1349.02
St. Mongkol Borey	139	4476.1
St. Pursat	45	674.7
St. Sangker	12	427.61
St. Sen	370	1624.11
St. Siem Reap	40	1347.38
St. Sreng	289	1988.98
St. Staung	89	790.19
Sum	1594	19081.11

Area of field crops (km2)

Catchment	Count	Area (km2)
Siem Bok	37	209.43
St. Baribo	46	53.51
St. Battambang	28	70.33
St. Chikreng	3	2.57
St. Chinit	99	387.8
St. Dauntri	1	10.11
St. Mongkol Borey	160	742.31
St. Pursat	2	17.42
St. Sangker	0	0
St. Sen	40	65.51
St. Siem Reap	17	23.31
St. Sreng	27	31.15
St. Staung	13	10.52
Sum	473	1623.98

Area of plantations (km2)

Catchment	Count	Area (km2)
Siem Bok	8	111.92
St. Baribo	0	0
St. Battambang	9	2.52
St. Chikreng	0	0
St. Chinit	37	218.37
St. Dauntri	0	0
St. Mongkol Borey	22	85.54
St. Pursat	0	0
St. Sangker	0	0
St. Sen	1	0.17
St. Siem Reap	0	0
St. Sreng	0	0
St. Staung	1	0.5
Sum	78	418.90

Area of other agriculture (km2)

Catchment	Count	Area (km2)
Siem Bok	450	826.83
St. Baribo	422	362.74
St. Battambang	100	172.51
St. Chikreng	61	123.65
St. Chinit	316	338.2
St. Dauntri	90	96.1
St. Mongkol Borey	325	354.58
St. Pursat	62	83.54
St. Sangker	26	14.2
St. Sen	354	278.09
St. Siem Reap	201	865.59
St. Sreng	391	693.68
St. Staung	159	132.35
Sum	2957	4342.06

Area of irrigation (km2)

Catchment	Count	Area (km2)
Siem Bok	12	186.42
St. Baribo	27	146.01
St. Battambang	0	0
St. Chikreng	2	259.54
St. Chinit	5	48.86
St. Dauntri	17	562.49
St. Mongkol Borey	5	965.03
St. Pursat	14	139.24
St. Sangker	1	356.29
St. Sen	19	141.78
St. Siem Reap	14	297.2
St. Sreng	13	109.84
St. Staung	30	313.37
Sum	159	3526.08

Number of dams

Catchment	Count
Siem Bok	1
St. Baribo	0
St. Battambang	0
St. Chikreng	0
St. Chinit	0
St. Dauntri	0
St. Mongkol Borey	23
St. Pursat	0
St. Sangker	0
St. Sen	11
St. Siem Reap	0
St. Sreng	2
St. Staung	1
Sum	38

Number of bridges

Catchment	All bridges	Bridges on primary roads
Siem Bok	132	39
St. Baribo	147	68
St. Battambang	60	10
St. Chikreng	13	4
St. Chinit	41	23
St. Dauntri	65	24
St. Mongkol Borey	202	67
St. Pursat	164	23
St. Sangker	21	18
St. Sen	204	16
St. Siem Reap	79	30
St. Sreng	162	22
St. Staung	21	10
Sum	1311	354

Number of culverts

Includes only bridges on primary roads (no data on culvers elsewhere)

Catchment	Count
Siem Bok	5
St. Baribo	43
St. Battambang	5
St. Chikreng	2
St. Chinit	9
St. Dauntri	13
St. Mongkol Borey	46
St. Pursat	8
St. Sangker	5
St. Sen	12
St. Siem Reap	78
St. Sreng	56
St. Staung	41
Sum	323

5. STRUCTURE STATISTICS BY PROVINCE

In that section, statistics about built structures are detailed by province. Two special cases are to be mentioned:

- the tables below include a “Tonle Sap” category, that corresponds to the permanent water body that includes structures but does not pertain to any province in particular;
- the tables also include a “Thailand” category; as a matter of fact a small fraction of the Tonle Sap basin lies in Thailand, and this area includes built structures that have also been recorded in the database.

Length of primary roads (km)

Province	Count	Length
Stung Treng	0	0
Oddar Meanchey	0	0
Preah Vihear	0	0
Banteay Meanchey	4	121.36
Siem Reap	4	131.66
Thailand	1	0.94
Battambang	4	111.65
Kampong Thom	3	141.78
Kratie	0	0
Tonle Sap	0	0
Pailin	0	0
Pursat	3	88.04
Kampong Chhnang	1	93.34
Kampong Cham	6	109.76
Kampong Spe	3	1.07
Kandal	16	100.47
Sum	45	900.08

Length of other roads (km)

Province	Count	Length
Stung Treng	4	42.28
Oddar Meanchey	188	799.99
Preah Vihear	118	602.74
Banteay Meanchey	228	848.73
Siem Reap	288	1029.28
Thailand	91	161.03
Battambang	292	1032.8
Kampong Thom	208	960.53
Kratie	49	401.46
Tonle Sap	2	1.08
Pailin	90	148.35
Pursat	308	907.66
Kampong Chhnang	97	449.99
Kampong Cham	93	367.79
Kampong Spe	24	107.55
Kandal	65	171.07
Sum	2145	8032.33

Length of railroad embankments (km)

Province	Count	Length
Stung Treng	0	0
Oddar Meanchey	0	0
Preah Vihear	0	0
Banteay Meanchey	1	70.78
Siem Reap	0	0
Thailand	1	0.73
Battambang	4	113.74
Kampong Thom	0	0
Kratie	0	0
Tonle Sap	0	0
Pailin	0	0
Pursat	3	80.14
Kampong Chhnang	2	75.17
Kampong Cham	0	0
Kampong Spe	1	14.83
Kandal	8	24.39
Sum	20	379.78

Length of irrigation channels (km)

Province	Count	Length
Stung Treng	1	0.55
Oddar Meanchey	13	13.71
Preah Vihear	41	24.91
Banteay Meanchey	964	1255.68
Siem Reap	431	566.49
Thailand	0	0
Battambang	1047	1455.06
Kampong Thom	507	750.74
Kratie	20	14.23
Tonle Sap	0	0
Pailin	0	0
Pursat	403	670.24
Kampong Chhnang	77	147.94
Kampong Cham	452	459.97
Kampong Spe	6	12.27
Kandal	30	42.84
Sum	3992	5414.63

Length of embankments (km)

Province	Count	Length
Stung Treng	0	0
Oddar Meanchey	3	7.3
Preah Vihear	7	25.21
Banteay Meanchey	90	245.04
Siem Reap	224	587.44
Thailand	1	4.2
Battambang	106	300.25
Kampong Thom	56	137.4
Kratie	4	8.08
Tonle Sap	0	0
Pailin	0	0
Pursat	31	80.93
Kampong Chhnang	122	255.12
Kampong Cham	173	265.12
Kampong Spe	11	14.43
Kandal	80	107.58
Sum	908	2038.11

Length of reservoir dikes (km)

Province	Count	Length
Stung Treng	0	0
Oddar Meanchey	0	0
Preah Vihear	0	0
Banteay Meanchey	0	0
Siem Reap	0	0
Thailand	0	0
Battambang	0	0
Kampong Thom	3	25.89
Kratie	0	0
Tonle Sap	0	0
Pailin	0	0
Pursat	0	0
Kampong Chhnang	0	0
Kampong Cham	0	0
Kampong Spe	0	0
Kandal	0	0
Sum	3	25.89

Length of fish fences (km)

Province	Count	Length
Stung Treng	0	0
Oddar Meanchey	0	0
Preah Vihear	0	0
Banteay Meanchey	0	0
Siem Reap	41	45.49
Thailand	0	0
Battambang	115	76.67
Kampong Thom	0	0
Kratie	0	0
Tonle Sap	7	2.2
Pailin	0	0
Pursat	0	0
Kampong Chhnang	0	0
Kampong Cham	0	0
Kampong Spe	0	0
Kandal	0	0
Sum	163	124.37

Number of traps (km)

Province	Count
Stung Treng	0
Oddar Meanchey	0
Preah Vihear	0
Banteay Meanchey	0
Siem Reap	60
Thailand	0
Battambang	171
Kampong Thom	0
Kratie	0
Tonle Sap	27
Pailin	0
Pursat	0
Kampong Chhnang	0
Kampong Cham	0
Kampong Spe	0
Kandal	0
Sum	258

Number of pens (km)

Province	Count
Stung Treng	0
Oddar Meanchey	0
Preah Vihear	0
Banteay Meanchey	0
Siem Reap	12
Thailand	0
Battambang	34
Kampong Thom	0
Kratie	0
Tonle Sap	5
Pailin	0
Pursat	0
Kampong Chhnang	0
Kampong Cham	0
Kampong Spe	0
Kandal	0
Sum	51

Area of reservoirs (km2)

Province	Count	Area
Stung Treng	0	0
Oddar Meanchey	1	8.94
Preah Vihear	1	0.64
Banteay Meanchey	6	16.11
Siem Reap	8	28.27
Thailand	0	0
Battambang	1	12.89
Kampong Thom	36	42.6
Kratie	0	0
Tonle Sap	0	0
Pailin	0	0
Pursat	0	0
Kampong Chhnang	0	0
Kampong Cham	2	1.74
Kampong Spe	0	0
Kandal	0	0
Sum	55	111.2

Area of paddy fields (km2)

Province	Count	Area
Stung Treng	41	28.69
Oddar Meanchey	136	624.76
Preah Vihear	334	369.19
Banteay Meanchey	146	3350.5
Siem Reap	191	2927.83
Thailand	15	38.77
Battambang	102	2983.65
Kampong Thom	174	2841.25
Kratie	57	189.7
Tonle Sap	0	0
Pailin	9	6.85
Pursat	80	1650.73
Kampong Chhnang	124	1592.3
Kampong Cham	113	1498.17
Kampong Spe	21	573.14
Kandal	52	405.51
Sum	1595	19081.02

Area of field crops (km2)

Province	Count	Area
Stung Treng	0	0
Oddar Meanchey	3	4.5
Preah Vihear	14	18
Banteay Meanchey	79	159.93
Siem Reap	35	43.16
Thailand	46	10.29
Battambang	45	509.97
Kampong Thom	90	163.66
Kratie	3	1.04
Tonle Sap	0	0
Pailin	27	144.09
Pursat	3	27.53
Kampong Chhnang	37	34.91
Kampong Cham	76	481.89
Kampong Spe	8	6.74
Kandal	4	18.27
Sum	470	1623.97

Area of plantation (km2)

Province	Count	Area
Stung Treng	0	0
Oddar Meanchey	0	0
Preah Vihear	0	0
Banteay Meanchey	2	24.71
Siem Reap	0	0
Thailand	19	60.71
Battambang	7	1.47
Kampong Thom	6	9.51
Kratie	0	0
Tonle Sap	0	0
Pailin	2	1.05
Pursat	0	0
Kampong Chhnang	1	0.2
Kampong Cham	39	321.26
Kampong Spe	0	0
Kandal	0	0
Sum	76	418.9

Area of other agriculture (km2)

Province	Count	Area
Stung Treng	86	21.23
Oddar Meanchey	97	271.75
Preah Vihear	156	50.8
Banteay Meanchey	237	191.69
Siem Reap	522	1459.43
Thailand	23	7.83
Battambang	295	382.52
Kampong Thom	491	454.24
Kratie	56	78.44
Tonle Sap	16	1.07
Pailin	3	3.83
Pursat	149	162.09
Kampong Chhnang	297	501.55
Kampong Cham	247	509.7
Kampong Spe	85	23.2
Kandal	202	222.7
Sum	2962	4342.06

Area of irrigation (km2)

Province	Count	Area
Stung Treng	0	0
Oddar Meanchey	6	31.53
Preah Vihear	0	0
Banteay Meanchey	2	235.56
Siem Reap	22	614.5
Thailand	0	0
Battambang	10	1507.42
Kampong Thom	50	461.83
Kratie	0	0
Tonle Sap	0	0
Pailin	0	0
Pursat	34	334.23
Kampong Chhnang	10	63.58
Kampong Cham	12	192.95
Kampong Spe	7	24.43
Kandal	6	60.05
Sum	159	3526.08

Number of bridges

Province	All bridges	Bridges on primary roads
Stung Treng	17	0
Oddar Meanchey	106	0
Preah Vihear	138	0
Banteay Meanchey	118	42
Siem Reap	158	51
Thailand	0	0
Battambang	187	77
Kampong Thom	99	40
Kratie	36	0
Tonle Sap	0	0
Pailin	14	0
Pursat	242	52
Kampong Chhnang	87	39
Kampong Cham	53	16
Kampong Spe	6	0
Kandal	50	37
Sum	1311	317

Number of culverts

Province	Count
Stung Treng	0
Oddar Meanchey	0
Preah Vihear	0
Banteay Meanchey	34
Siem Reap	126
Thailand	0
Battambang	42
Kampong Thom	58
Kratie	0
Tonle Sap	0
Pailin	0
Pursat	17
Kampong Chhnang	20
Kampong Cham	9
Kampong Spe	4
Kandal	13
Sum	323

Number of dams

Province	Count
Stung Treng	0
Oddar Meanchey	2
Preah Vihear	10
Banteay Meanchey	23
Siem Reap	0
Thailand	0
Battambang	0
Kampong Thom	2
Kratie	1
Tonle Sap	0
Pailin	0
Pursat	0
Kampong Chhnang	0
Kampong Cham	0
Kampong Spe	0
Kandal	0
Sum	38