

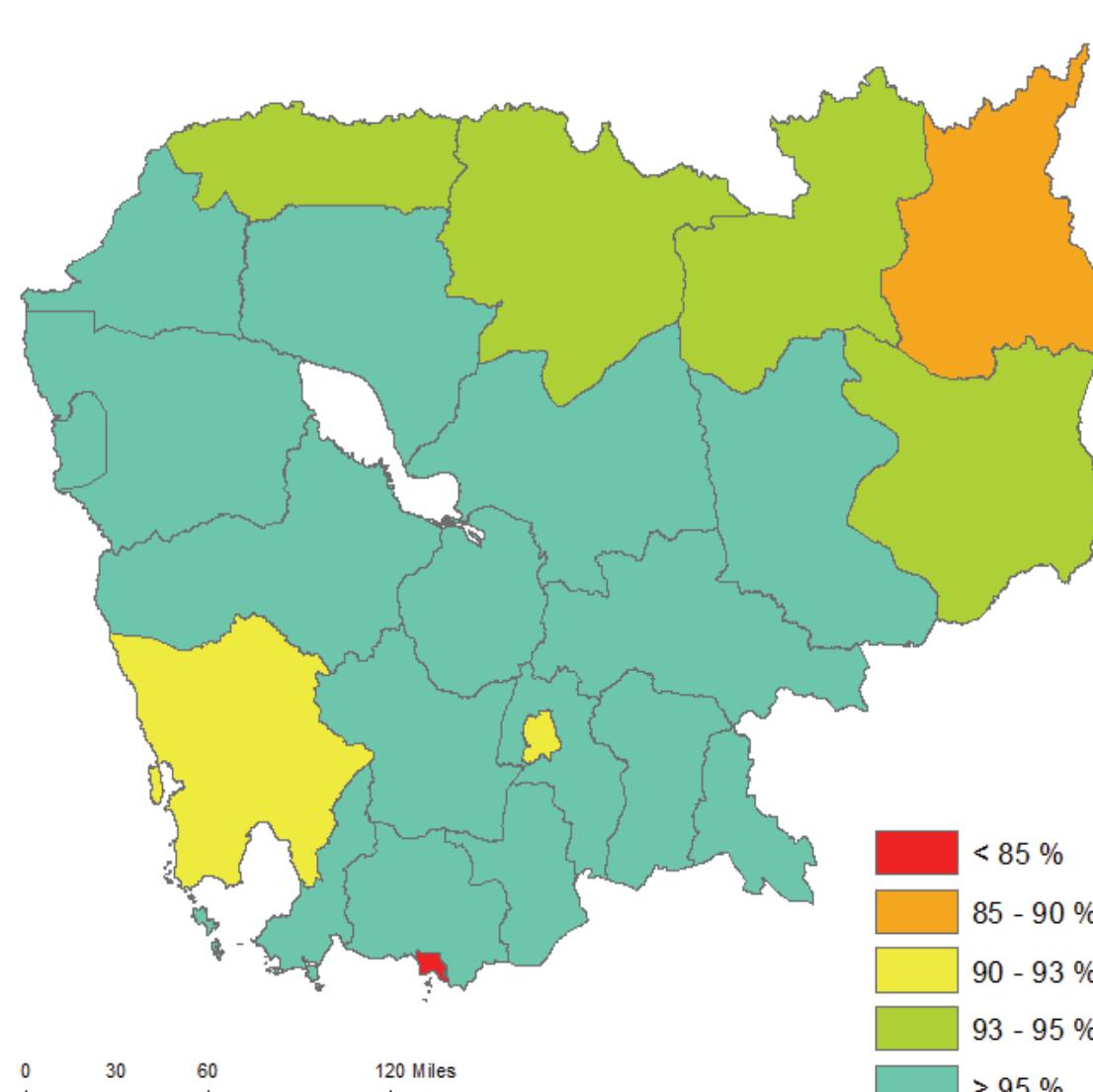


Will Cambodia Meet the Millennium Development Goal #2 by 2015?

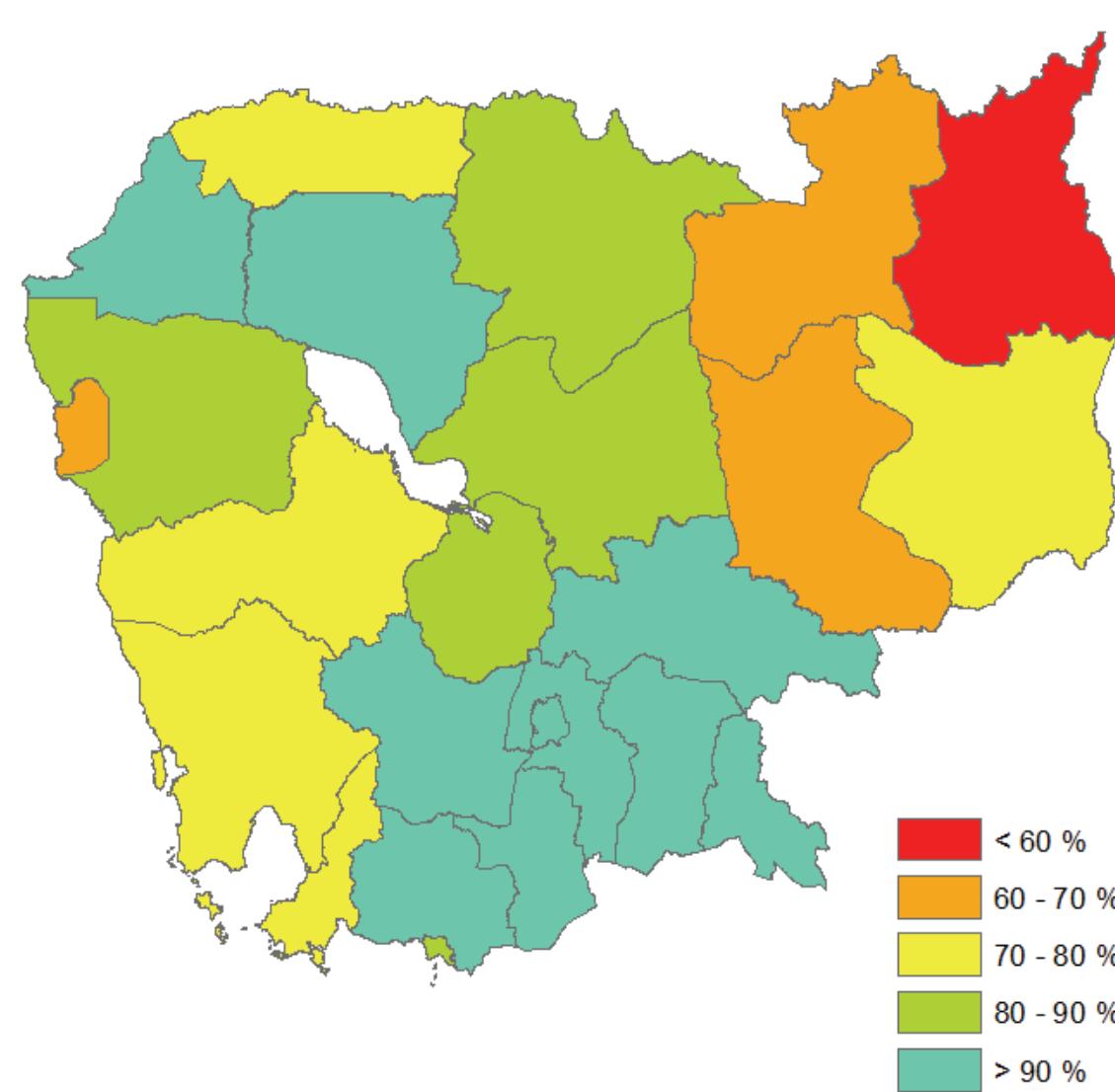


Cambodia's Target:
Ensure all children complete primary schooling by 2015 and if possible expand to nine-year basic training

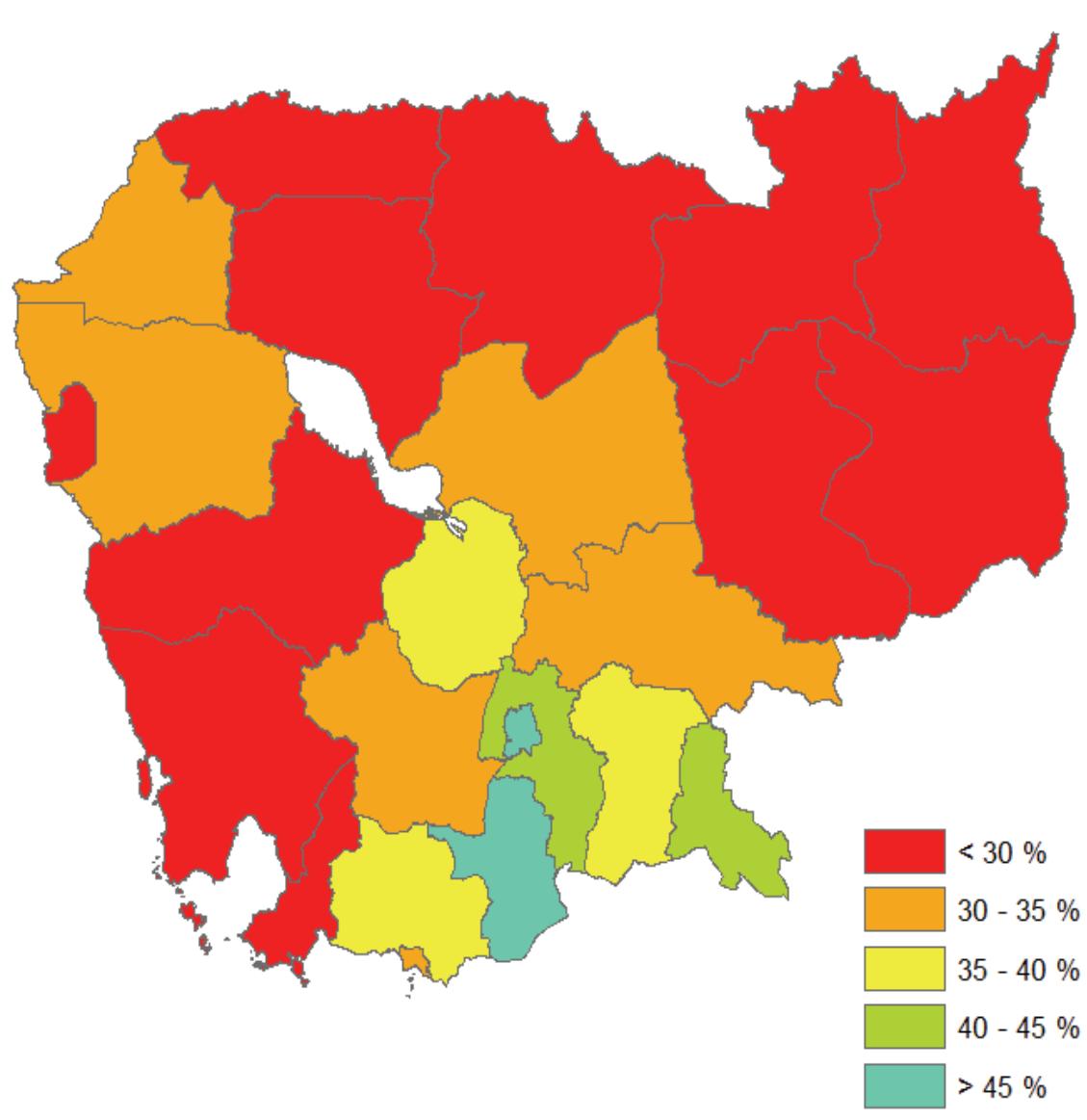
Net Enrollment Rate— Primary



Completion Rate—Primary



Net Enrollment Rate— Lower Secondary



Project Overview

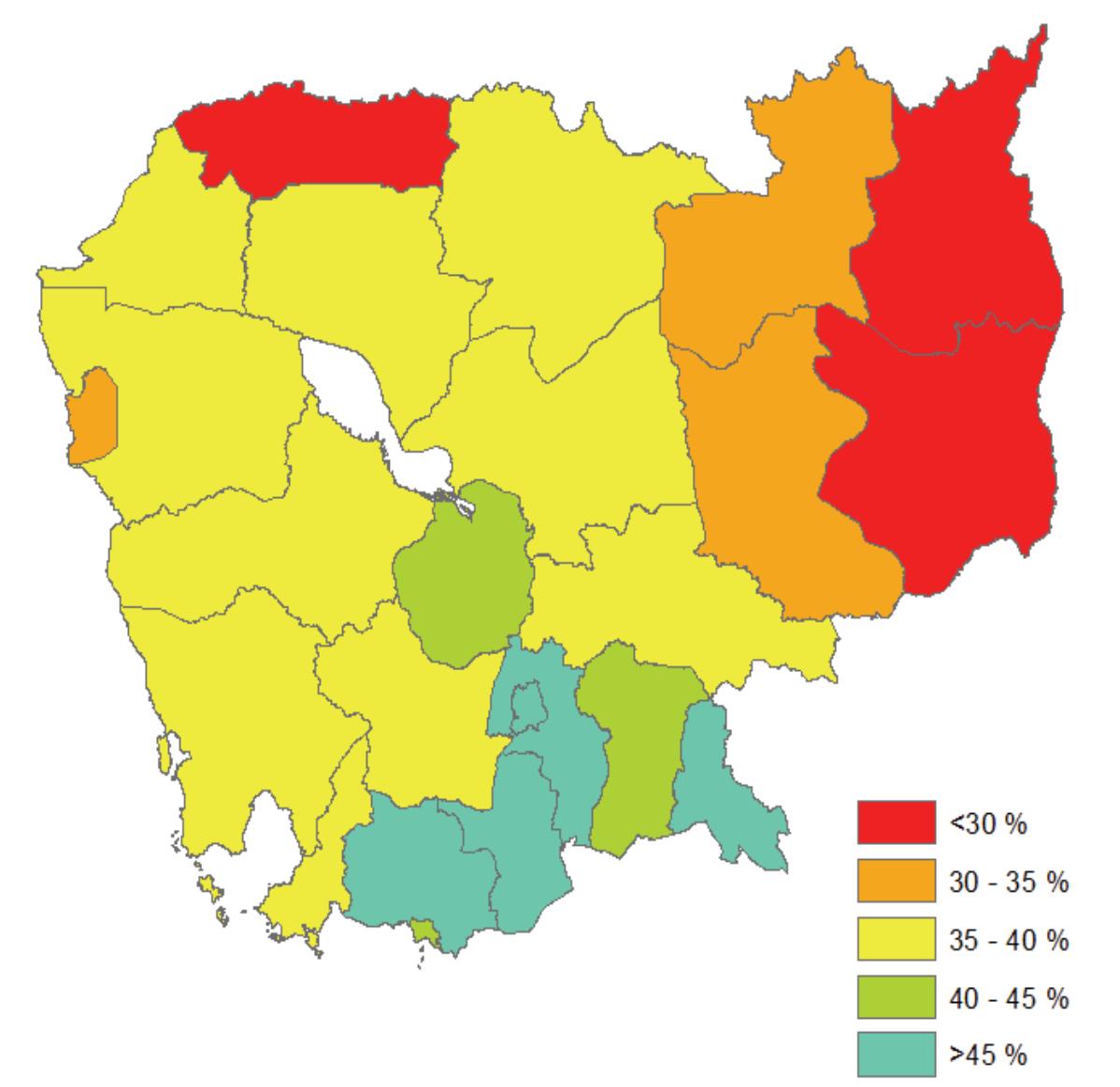
The 2010 Cambodia Millennium Development Goals (MDG) Report states that Cambodia is on track to meeting the second MDG goal of achieving universal primary education. Cambodia's target is to ensure all children complete primary schooling by 2015 and if possible expand to nine-year basic schooling, which is an education up to lower primary school. Since we are drawing close to 2015, the series of maps created in this project identifies which province is most in need for educational investment to assist Cambodia to better achieve its target. Moreover, a map showing which provinces has most schools supported by government or foreign aid helps to identify whether or not these aids are being allocated to the regions with greater needs. This project ultimately aims to inform the policy makers to prioritize the provinces for education intervention.

Methodology

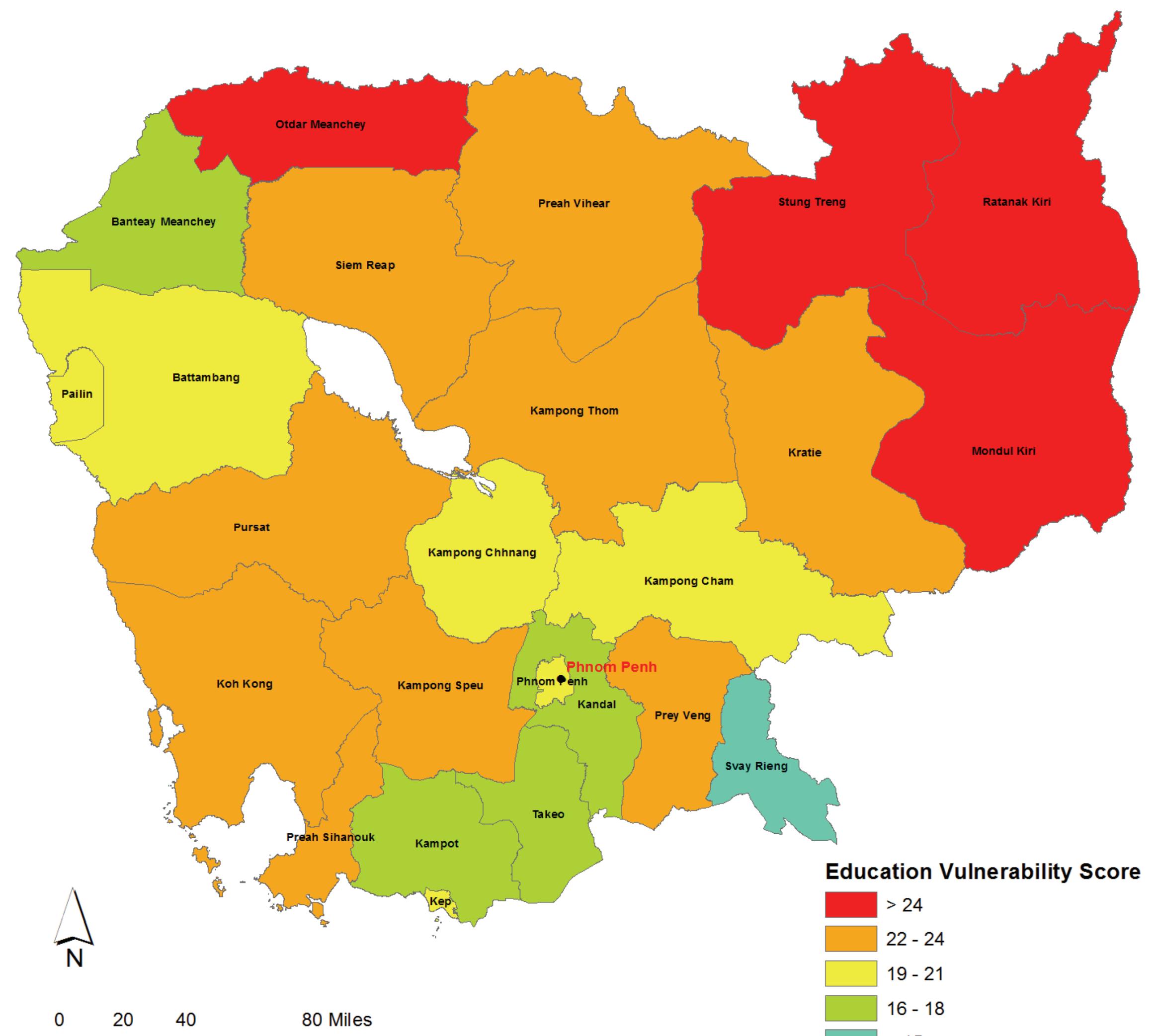
The main data preparation for this project was transferring the information in a table in a pdf format to excel, and then joining the information to provincial level shape file. After the data needed to create eight individual maps based on different education indicators were joined to the shape file, eight new fields were created on the attribute table. These new fields were used to create rankings within each of the eight selected variables.

In the new field, I used SELECT BY ATTRIBUTE to select out each class in turn. Then, I used field calculator to fill with the rank of 1 to 5. I repeated the same step for all of the eight variables.

Completion Rate—Lower Secondary



Areas With Most Education Need



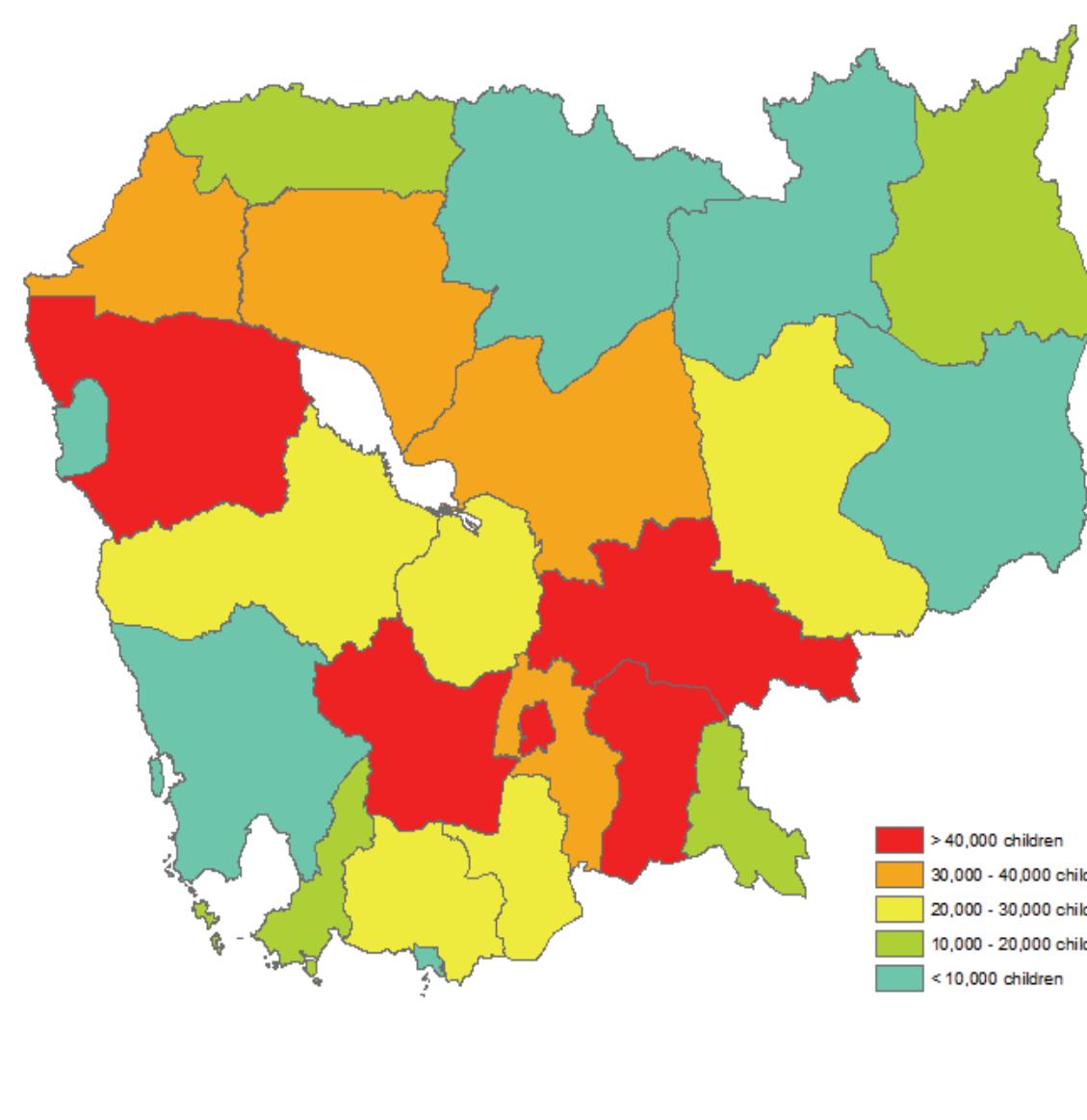
Prior to selecting out each class, I had to determine what the class ranges are going to be for each for the rankings for the eight variables, which is summarized in the table below.

Rank	NER Primary (%)	Primary Completion (%)	NER Lower Secondary (%)	Lower Secondary Completion (%)	Out of School Children	Student: Teacher Ratio	Trained Teachers (%)	Teachers with only Primary Education (%)
1	>95	>90	>45	>45	<10,000	>25	>1	0
2	93-95	80-90	40-45	40-45	10,000-20,000	25-30	0.75-1.00	1-5
3	90-93	70-80	35-40	35-40	20,000-30,000	30-35	0.50-0.75	5-10
4	85-90	60-70	30-35	30-35	30,000-40,000	35-40	0.25-0.50	10-15
5	<85	<60	<30	<30	>40,000	>40	<0.25	>15

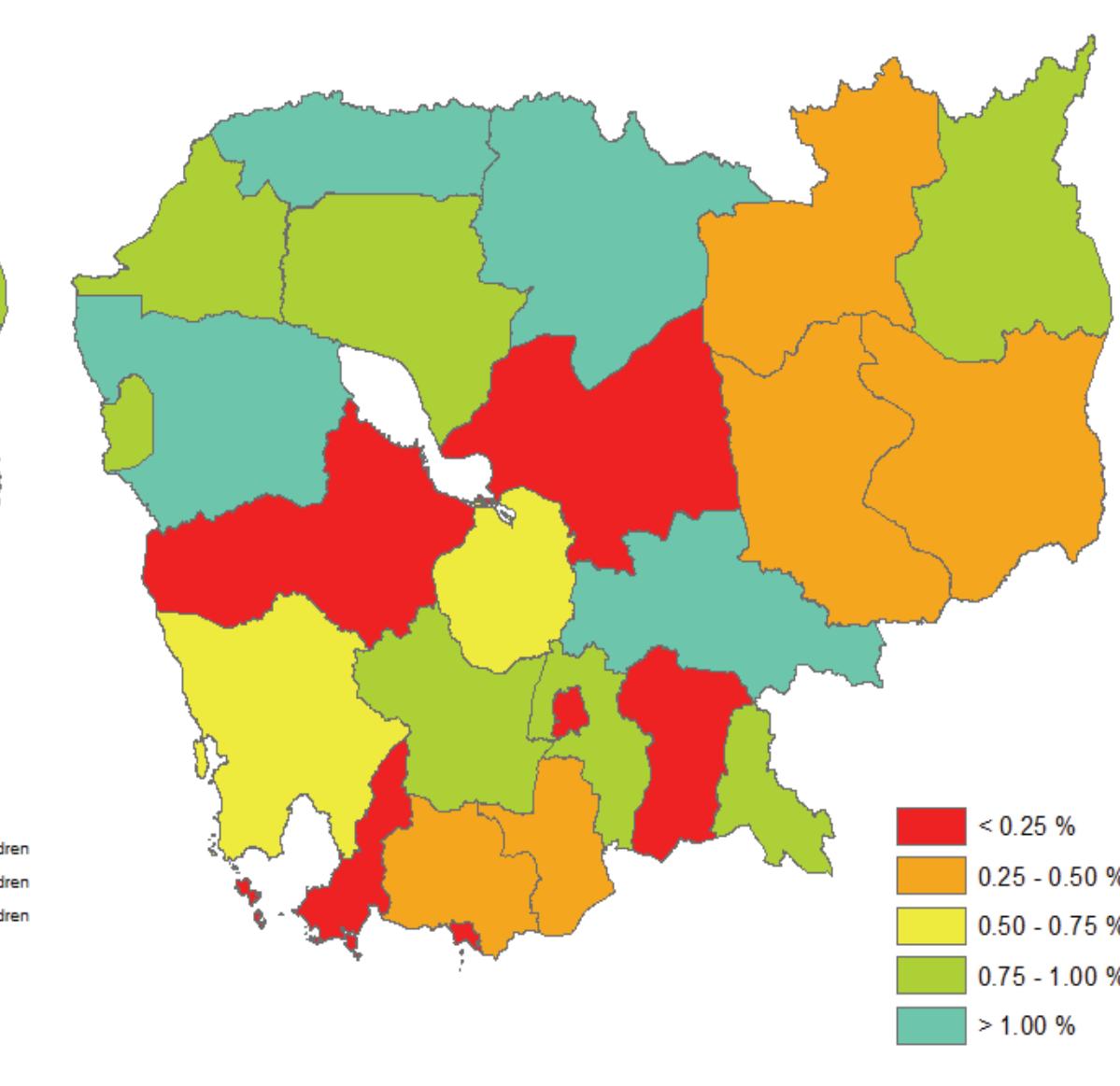
After ranking 1 to 5 for all eight variables, another new field was created.

This time I used field calculator to add the ranked value across the eight variables to come up with an education vulnerability score, which compiles the score from the eight variables. For individual variable ranking, 5 represents lower education outcomes/ lesser quality education whereas 1 represents better education outcomes/ better quality education. Therefore, for the compiled education vulnerability map, the possible score ranges ranged from 8 to 40. Lower number represents better education.

Out of School Children



Teachers with Pedagogical Training



After creating the map of education vulnerability score, eight individual maps were created to represent eight educational indicators selected. For each map, the class ranges were reclassified and symbolized according to the table. Also, another map showing how many schools are supported by government/foreign assistance was created using the similar process.

Result

The final result of this project is the ranking of provinces that needs more investment in education. Moreover, the comparison of this ranking with the map and the ranking of provinces receiving the most government/foreign support enables policymakers to assess whether the support is going to where there is most need. These results are summarized in tables below:

<Provinces With Most Education Need>

Rank	Province	score
1	Rattanakiri	31
2	Otdar Meanchey	27
3	Modul Kiri	26
6	Stung Treng	25
7	Kampong Thom	24
8	Kratie	24
9	Prey Veng	24
10	Siem Reap	22
11	Kampong Speu	21
12	Battambang	21
13	Kampong Cham	21
14	Kep	20
15	Takeo	19
16	Kampong Chhnang	19
17	Svay Rieng	18
18	Preah Sihanouk	18
19	Koh Kong	18
20	Phnom Penh	18
21	Kampot	17
22	Battambang	16
23	Kampong Speu	16
24	Kampong Chhnang	16
25	Siem Reap	15
26	Kampong Thom	15
27	Kratie	15
28	Prey Veng	15
29	Takeo	15
30	Kampong Chhnang	15
31	Svay Rieng	15
32	Preah Sihanouk	15
33	Koh Kong	15
34	Phnom Penh	15
35	Kampot	15
36	Battambang	15
37	Kampong Speu	15
38	Kampong Chhnang	15
39	Svay Rieng	15
40	Preah Sihanouk	15
41	Koh Kong	15
42	Phnom Penh	15
43	Kampot	15
44	Battambang	15
45	Kampong Speu	15
46	Kampong Chhnang	15
47	Svay Rieng	15
48	Preah Sihanouk	15
49	Koh Kong	15
50	Phnom Penh	15
51	Kampot	15
52	Battambang	15
53	Kampong Speu	15
54	Kampong Chhnang	15
55	Svay Rieng	15
56	Preah Sihanouk	15
57	Koh Kong	15
58	Phnom Penh	15
59	Kampot	15
60	Battambang	15
61	Kampong Speu	15
62	Kampong Chhnang	15
63	Svay Rieng	15
64	Preah Sihanouk	15
65	Koh Kong	15
66	Phnom Penh	15
67	Kampot	15
68	Battambang	15
69	Kampong Speu	15
70	Kampong Chhnang	15
71	Svay Rieng	15
72	Preah Sihanouk	15
73	Koh Kong	15
74	Phnom Penh	15
75	Kampot	15
76	Battambang	15
77	Kampong Speu	15
78	Kampong Chhnang	15
79	Svay Rieng	15
80	Preah Sihanouk	15
81	Koh Kong	15
82	Phnom Penh	15
83	Kampot	15
84	Battambang	15
85	Kampong Speu	15
86	Kampong Chhnang	15
87	Svay Rieng	15
88	Preah Sihanouk	15
89	Koh Kong	15
90	Phnom Penh	15
91	Kampot	15
92	Battambang	15
93	Kampong Speu	15
94	Kampong Chhnang	15
95	Svay Rieng	15
96	Preah Sihanouk	15
97	Koh Kong	15
98	Phnom Penh	15
99	Kampot	15
100	Battambang	15
101	Kampong Speu	15
102	Kampong Chhnang	15
103	Svay Rieng	15
104	Preah Sihanouk	15
105	Koh Kong	15
106	Phnom Penh	15
107	Kampot	15
108	Battambang	15
109	Kampong Speu	15
110	Kampong Chhnang	15
111	Svay Rieng	15
112	Preah Sihanouk	15
113	Koh Kong	15
114	Phnom Penh	15
115	Kampot	15
116	Battambang	15
117	Kampong Speu	15
118	Kampong Chhnang	15
119	Svay Rieng	15
120	Preah Sihanouk	15
121	Koh Kong	15
122	Phnom Penh	15
123	Kampot	15
124	Battambang	15
125	Kampong Speu	15
126	Kampong Chhnang	15
127	Svay Rieng	15
128	Preah Sihanouk	15
129	Koh Kong	15
130	Phnom Penh	15
131	Kampot	15
132	Battambang	15
133	Kampong Speu	15
134	Kampong Chhnang	15
135	Svay Rieng	15
136	Preah Sihanouk	15
137	Koh Kong	15
138	Phnom Penh	15
139	Kampot	15
140</		