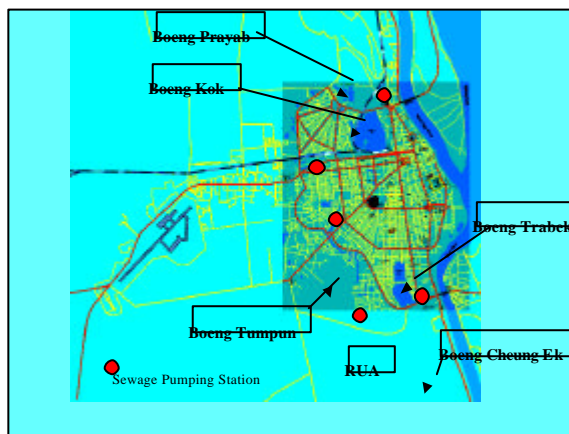
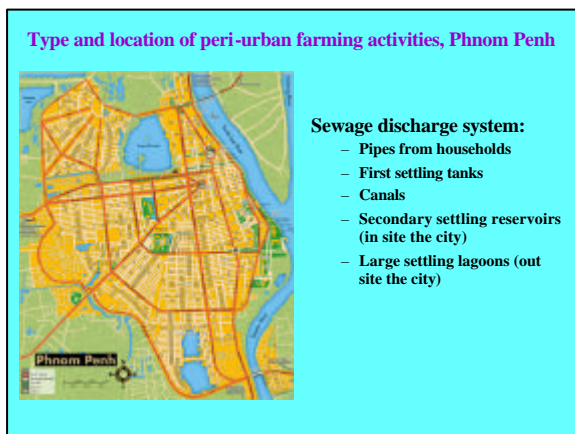


Appendix 5. Peri-urban aquatic food production around Phnom Penh



Secondary settling reservoirs:

- Boeng Kok: the sewage goes to Boeng Prayab
- Boeng Trabek and
- Boeng Tumpun: the sewage is discharged into Boeng Cheung Ek, near RUA.

Large settling lagoons:

- Boeng Cheung Ek
- Boeng Prayab

Quantity of wastewater and storm water discharged in the three lagoons

Catchments area of lagoon	Boeng Trabek	Boeng Tumpun	Boeng Cheung Ek**
Population	315695	290430	653085
Wastewater (m3/day)	29612.19	22363.11	55591.22
BOD (kg/day)	3523.85	2661.21	6615.36
Runoff surface (ha)	1403.44	4900.47	8962.51
Impervious area (%)	46	43	20
Storm water* (m3/day)	193674.72	632160.63	985351.35
Total (m3/day)	223286.91	654523.74	1040942.57

Sources Muong, 2000.

Appendix 5. Peri-urban aquatic food production around Phnom Penh

Farming activities: vegetable plantation and not FISH
 - Land vegetables
 - Aquatic vegetables
 About 12 species, both land and aquatic vegetable varieties:

English name	Scientific name		Farmer involved	Farm surface (sq. m)	Production (kg/day)	Price (US\$/kg)
	Species	Family				
Amaranth	<i>Amaranthus tricolor</i>	Amaranthaceae	7	4240	230	0.17
Mustard green	<i>Brassica oleracea</i>	Cruciferae	8	19397	210	0.21
Chili pepper	<i>Capsicum annuum</i>	Solanaceae	2	4600	23	0.21
Chinese kale	<i>Brassica juncea</i>	Cruciferae	13	21010	498	0.26
Cresson	<i>Oldenlandia fraterna</i>		21	25175	1167	0.38
Angled luffa	<i>Luffa acutangula</i>	Cucurbitaceae	5	1776	83*	0.77
Yard-long bean	<i>Vigna unguiculata</i> spp. <i>Sesquipedalis</i>	Leguminosae	2	3000	257	0.21
Lotus	<i>Nelumbo nucifera</i>	Nymphaeaceae	4	7000	390*	0.38
Peppermint	<i>Mentha arvensis</i>	Labiatae	18	29803	660	0.1
Leaf lettuce	<i>Lactuca sativa</i>	Compositaceae	17	23452	655	0.77
Water convolvulus	<i>Ipomoea aquatica</i>	Convolvulaceae	248	1086116	22504	0.03
Water Mimosa	<i>Neptunia Oleracea</i>		2	3300	70	0.38
			294	1228869	25832	

Sources Muong, 2000.



Past Research and Development Activities:

Project for flood protection and drainage improvement in municipal of Phnom Penh, Japanese Grant and Project



Wastewater reuse in agriculture: Cost-effectiveness analysis of alternative measures, Ministry of Environment, granted by Economy & Environment Program for SE Asia (EEPSEA)

Others... ?

