

Appendix A Wholesale Prices of vegetables (CNY kg⁻¹, Nanjing City, China, 2013-2014)

	Pak choi	Brocc oli	Cabba ge	Turn ip	Lettu ce	Chinese watermelon	Cucu mber	Green bean	Tom ato	Hot pepper	Potat o	Eggp lant	Celer y
2013.1	4.62	6.4	3.83	3.34	7.62	2.68	7.89	10.05	6.43	6.82	4.55	7.89	7.28
2013.2	4.42	6.02	3.66	3.31	7.28	3	8.92	11.15	6.71	7.12	4.66	7.97	7.08
2013.3	3.89	4.75	3.72	2.87	5.42	3.17	8.5	11.67	5.77	6.92	4.55	8.08	4.52
2013.4	5.07	4.92	3.38	2.54	5.17	3.17	6.58	9.88	5.95	10.62	4.62	8.54	4.02
2013.5	4.05	5.2	3.35	2.65	4.78	3.14	4.25	9.11	5.75	7.02	5.03	7.85	4.29
2013.6	3.87	5.15	2.68	2.55	4.55	3.23	3.65	6.92	3.83	5	4.71	6.25	5.22
2013.7	4.35	6.15	3.07	2.88	4.65	3.03	3.78	6.67	3.68	4.72	4.27	4.9	4.62
2013.8	5.18	7.08	3.6	3.22	5.72	2.53	4.1	7.45	4.38	5.68	4.25	4.1	5.97
2013.9	5.91	3.47	3.93	3.1	4.67	4.75	4.97	8.33	5.15	9.58	4.5	4.77	3.87
3013.10	4.36	7.22	3.72	3.68	7.92	2.53	5.72	9	6.48	9.83	4.58	5.13	6.5
2013.11	4.58	7.08	3.88	3.28	6.38	2.63	5.83	8.67	8.33	6.7	4.5	5.68	7.13
2013.12	4.1	6.17	3.63	2.68	4.93	2.7	5.85	8.72	7.1	6.52	4.83	5.92	5.75
2014.1	3.44	6.26	3.46	2.16	5.44	2.6	5.9	11.34	7.46	7.78	5.16	7.1	5.64
2014.2	4.34	7.18	3.96	2.96	6.16	3.36	8.16	18.18	8.66	10.42	5.44	8.58	6.88
2014.3	3.94	6.6	3.94	2.48	5.34	4.28	7.42	14.42	8.66	8.68	5.56	8.34	5.84
2014.4	4.08	6.22	3.44	2.56	5.22	4.7	6.06	11.54	6.84	6.56	5.36	7.38	5.16
2014.5	4.72	6.02	2.86	2.72	5.2	4.34	4.96	8	6.74	5.94	5.34	7.14	4.7
2014.6	4.04	5.52	2.8	2.46	4.9	3.16	3.66	5.76	5.66	4.5	4.84	5.3	5.26
2014.7	4.34	6.46	2.9	2.46	5.1	2.78	3.4	6.42	5.14	4	4.14	4.42	4.96
2014.8	4.26	6.6	3.08	2.74	6.42	2.24	3.74	6.26	5.1	5.16	4.38	3.8	4.9
2014.9	4.82	7.18	2.86	2.76	8.22	2.28	4.36	8.76	5.02	5.76	4.34	4.76	5.16
2014.10	5.02	6.88	3.12	2.86	7.46	2.18	4.52	8.8	5.36	5.96	4.18	5.06	6
2014.11	3.52	5.98	2.72	2.32	5.44	2.26	5.08	7.34	5.56	5.42	4.6	5.58	5.3
2014.12	3.46	5.44	2.6	2.26	6	2.76	6.38	10.08	6	5.52	4.76	6.4	5.04
Average Price of 2013	4.53	5.8	3.54	3.01	5.76	3.05	5.84	8.97	5.8	7.21	4.59	6.42	5.52
Average Price of 2014	4.17	6.36	3.15	2.56	5.91	3.08	5.3	9.74	6.35	6.31	4.84	6.16	5.4

Appendix B All Farmers' Rotation Schedules of Experiment III

Schedules Farmers	Random Schedule				Optimal Schedule without Self-adaptive Adjustment				Optimal Schedule with Self-adaptive Adjustment				
1	Pakchoi	Green bean	Celery	Pakchoi	Eggplant	Pakchoi	Chinese watermelon	Lettuce	Eggplant	Pakchoi	Chinese watermelon	Lettuce	
2	Potato	Pakchoi	Eggplant	Pakchoi	Hot pepper	Broccoli	Green bean		Hot pepper	Broccoli	Green bean		
3	Cabbage	Chinese watermelon	Lettuce	Pakchoi	Eggplant	Pakchoi	Eggplant	Pakchoi	Eggplant	Pakchoi	Eggplant	Pakchoi	
4	Pakchoi	Potato	Lettuce	Turnip	Chinese watermelon	Broccoli	Tomato		Chinese watermelon	Broccoli	Tomato		
5	Cucumber	Green bean	Pakchoi	Chinese watermelon	Eggplant	Chinese watermelon	Pakchoi	Lettuce	Eggplant	Chinese watermelon	Pakchoi	Lettuce	
6	Eggplant	Pakchoi	Eggplant	Pakchoi	Eggplant	Pakchoi	Eggplant	Pakchoi	Eggplant	Pakchoi	Eggplant	Pakchoi	
7	Tomato	Celery	Chinese watermelon		Eggplant	Pakchoi	Hot pepper	Pakchoi	Eggplant	Pakchoi	Potato	Pakchoi	
8	Celery	Turnip	Green bean		Cucumber	Lettuce	Celery	Pakchoi	Cucumber	Lettuce	Celery	Pakchoi	
9	Green bean	Hot pepper	Chinese watermelon	Pakchoi	Eggplant	Lettuce	Chinese watermelon	Pakchoi	Eggplant	Lettuce	Chinese watermelon	Pakchoi	
10	Hot pepper	Turnip	Lettuce	Pakchoi	Hot pepper	Turnip	Lettuce	Pakchoi	Hot pepper	Broccoli	Lettuce	Pakchoi	
11	Turnip	Lettuce	Potato	Pakchoi	Eggplant	Lettuce	Chinese watermelon	Pakchoi	Eggplant	Lettuce	Chinese watermelon	Pakchoi	
12	Cabbage	Potato	Chinese watermelon		Lettuce	Pakchoi	Lettuce	Pakchoi	Lettuce	Pakchoi	Celery	Pakchoi	Lettuce
13	Pakchoi	Eggplant	Chinese watermelon	Lettuce	Pakchoi	Eggplant	Chinese watermelon	Lettuce	Pakchoi	Eggplant	Chinese watermelon	Lettuce	
14	Tomato	Lettuce	Pakchoi	Lettuce	Eggplant	Lettuce	Celery		Eggplant	Lettuce	Celery		
15	Lettuce	Cucumber	Hot pepper	Pakchoi	Lettuce	Chinese watermelon	Pakchoi	Tomato	Lettuce	Chinese watermelon	Pakchoi	Tomato	
16	Chinese watermelon	Cabbage	Lettuce	Pakchoi	Hot pepper	Turnip	Lettuce	Pakchoi	Hot pepper	Broccoli	Lettuce	Pakchoi	
17	Potato	Celery	Broccoli		Eggplant	Pakchoi	Tomato	Pakchoi	Eggplant	Pakchoi	Tomato	Pakchoi	
18	Lettuce	Tomato	Celery		Chinese watermelon	Pakchoi	Lettuce	Celery	Chinese watermelon	Pakchoi	Lettuce	Celery	Pakchoi
19	Tomato	Cabbage			Eggplant	Green bean	Lettuce		Eggplant	Green bean	Lettuce		
20	Turnip	Chinese	Broccoli		Eggplant	Lettuce	Pakchoi	Lettuce	Eggplant	Lettuce	Pakchoi	Lettuce	

	watermelon														
21	Cabbage	Tomato	Pakchoi		Eggplant	Turnip	Chinese watermelon			Eggplant	Broccoli	Chinese watermelon			
22	Pakchoi	Chinese watermelon	Green bean	Celery	Eggplant	Turnip	Lettuce			Eggplant	Broccoli	Lettuce			
23	Lettuce	Cucumber	Cabbage		Eggplant	Lettuce	Pakchoi	Chinese watermelon			Eggplant	Lettuce	Pakchoi	Chinese watermelon	
24	Cucumber	Hot pepper	Cucumber		Chinese watermelon	Pakchoi	Chinese watermelon	Pakchoi	Chinese watermelon	Pakchoi	Chinese watermelon	Pakchoi	Chinese watermelon	Pakchoi	Chinese watermelon
25	Green bean	Cucumber	Broccoli		Pakchoi	Eggplant	Chinese watermelon	Pakchoi			Pakchoi	Eggplant	Chinese watermelon	Pakchoi	
26	Broccoli	Celery	Cucumber		Lettuce	Pakchoi	Celery	Pakchoi	Chinese watermelon		Lettuce	Pakchoi	Celery	Pakchoi	Chinese watermelon
27	Eggplant	Chinese watermelon	Turnip		Cucumber	Broccoli	Lettuce	Pakchoi			Cucumber	Broccoli	Lettuce	Pakchoi	
28	Broccoli	Tomato	Lettuce		Eggplant	Lettuce	Green bean			Eggplant	Lettuce	Green bean			
29	Turnip	Potato	Turnip		Hot pepper	Chinese watermelon	Pakchoi	Chinese watermelon	Pakchoi		Hot pepper	Chinese watermelon	Pakchoi	Chinese watermelon	Pakchoi
30	Celery	Broccoli	Green bean		Eggplant	Cucumber	Lettuce			Eggplant	Cucumber	Lettuce			
31	Cabbage	Tomato	Pakchoi		Cucumber	Pakchoi	Tomato	Pakchoi			Cucumber	Pakchoi	Tomato	Pakchoi	
32	Turnip	Lettuce	Eggplant		Pakchoi	Chinese watermelon	Broccoli	Celery			Pakchoi	Chinese watermelon	Broccoli	Celery	
33	Hot pepper	Green bean	Lettuce	Pakchoi	Hot pepper	Green bean	Lettuce	Pakchoi			Hot pepper	Green bean	Lettuce	Pakchoi	
34	Lettuce	Broccoli	Hot pepper	Pakchoi	Pakchoi	Eggplant	Cucumber	Pakchoi			Pakchoi	Eggplant	Chinese watermelon	Pakchoi	
35	Celery	Cucumber	Lettuce	Pakchoi	Chinese watermelon	Pakchoi	Celery	Cucumber			Chinese watermelon	Pakchoi	Celery	Cucumber	
36	Cabbage	Green bean	Lettuce		Hot pepper	Broccoli	Green bean			Hot pepper	Broccoli	Green bean			
37	Cabbage	Lettuce	Potato		Hot pepper	Broccoli	Green bean			Hot pepper	Broccoli	Green bean			
38	Chinese watermelon	Tomato	Cucumber		Eggplant	Pakchoi	Chinese watermelon	Pakchoi			Eggplant	Pakchoi	Chinese watermelon	Pakchoi	
39	Hot pepper	Pakchoi	Chinese watermelon	Celery	Hot pepper	Broccoli	Lettuce	Pakchoi			Hot pepper	Broccoli	Lettuce	Pakchoi	
40	Hot pepper	Chinese watermelon	Pakchoi	Lettuce	Hot pepper	Chinese watermelon	Pakchoi	Lettuce	Pakchoi		Hot pepper	Chinese watermelon	Pakchoi	Lettuce	Pakchoi
41	Green bean	Pakchoi	Green bean	Pakchoi	Cucumber	Pakchoi	Chinese watermelon	Pakchoi	Lettuce		Cucumber	Pakchoi	Tomato	Pakchoi	
42	Tomato	Celery	Pakchoi		Cucumber	Broccoli	Green bean			Cucumber	Broccoli	Green bean			

43	Hot pepper	Lettuce	Eggplant		Hot pepper	Lettuce	Eggplant		Hot pepper	Lettuce	Green bean	Pakchoi
44	Broccoli	Tomato	Pakchoi		Hot pepper	Turnip	Cucumber		Hot pepper	Broccoli	Lettuce	Pakchoi
45	Green bean	Hot pepper	Cucumber		Green bean	Broccoli	Lettuce	Pakchoi	Green bean	Broccoli	Lettuce	Pakchoi
46	Cabbage	Green bean	Lettuce		Cucumber	Celery	Pakchoi	Chinese watermelon	Cucumber	Celery	Pakchoi	Lettuce
47	Chinese watermelon	Turnip	Potato	Pakchoi	Cucumber	Celery	Pakchoi	Lettuce	Cucumber	Celery	Pakchoi	Chinese watermelon
48	Celery	Cucumber	Broccoli		Eggplant	Pakchoi	Eggplant	Pakchoi	Eggplant	Pakchoi	Eggplant	Pakchoi
49	Chinese watermelon	Pakchoi	Cucumber	Turnip	Eggplant	Lettuce	Turnip		Eggplant	Lettuce	Broccoli	
50	Potato	Celery	Cucumber		Eggplant	Green bean	Chinese watermelon		Eggplant	Green bean	Chinese watermelon	