

## Appendix

### Appendix A Macroeconomic and Policy Assumptions

	Real GDP	Total Pop <sup>1</sup>	CPI	Wage of Labours <sup>2</sup>	CNY/USD <sup>3</sup>	World Oil Price <sup>4</sup>
2015	7.2	137.47	1.9	502.2	6.23	104
2016	7.3	138.15	2.0	537.3	6.38	102
2017	7.2	138.84	2.0	575.0	6.53	100
2018	7.1	139.53	2.3	615.2	6.67	98
2019	7.0	140.24	2.5	658.3	6.81	97
2020	6.9	140.94	2.6	704.4	6.95	101
2021	6.8	141.57	2.7	753.7	7.08	105
2022	6.7	142.21	2.8	806.4	7.21	109
2023	6.6	142.85	2.9	862.9	7.34	114
2024	6.5	143.49	3.1	923.3	7.38	120

Notes:

1. The unit of total population is million.
2. Assuming that the base year of 1978 is equal to 1.
3. The data of exchange rate come from OECD-FAO Agricultural outlook.
4. World Oil Price come from IEA and IMF, and it is measured with USD/barrel.

**Appendix B Own price and cross price elasticities by different commodities of rural consumers**

	Wheat	Rice	Maize	Soybean	Soybean Oil	Rapeseed Oil	Groundnut Oil	Sugar	Vegetable	Fruit	Pork	Beef	Mutton	Poultry	Eggs	Dairy	Aquatic Product
Wheat	-0.04	-1.0E-03	-1.0E-03	-5.1E-06	-1.3E-05	-9.0E-06	-4.1E-06	-2.3E-06	-4.4E-05	-5.9E-05	-9.6E-05	-3.7E-05	-2.3E-05	-1.5E-05	-1.4E-05	-1.0E-05	-2.2E-05
Rice	-1.0E-03	-0.04	-1.0E-03	-5.1E-06	-1.3E-05	-9.0E-06	-4.1E-06	-2.3E-06	-4.4E-05	-5.9E-05	-9.6E-05	-3.7E-05	-2.3E-05	-1.5E-05	-1.4E-05	-1.0E-05	-2.2E-05
Maize	-1.0E-03	-1.0E-03	-0.02	-2.0E-06	-5.1E-06	-3.6E-06	-1.7E-06	-9.1E-07	-1.8E-05	-2.4E-05	-3.8E-05	-1.5E-05	-9.3E-06	-6.2E-06	-5.5E-06	-4.2E-06	-8.8E-06
Soybean	-3.6E-05	-8.0E-05	-3.3E-06	-0.09	-2.5E-05	-1.8E-05	-8.3E-06	-4.6E-06	-8.9E-05	-1.2E-04	-1.9E-04	-7.3E-05	-4.7E-05	-3.1E-05	-2.8E-05	-2.1E-05	-4.4E-05
Soybean Oil	-3.6E-05	-8.0E-05	-3.3E-06	0.00	-0.09	-1.8E-05	-8.3E-06	-4.6E-06	-8.9E-05	-1.2E-04	-1.9E-04	-7.3E-05	-4.7E-05	-3.1E-05	-2.8E-05	-2.1E-05	-4.4E-05
Rapeseed Oil	-3.6E-05	-8.0E-05	-3.3E-06	-1.0E-05	-2.5E-05	-0.09	-8.3E-06	-4.6E-06	-8.9E-05	-1.2E-04	-1.9E-04	-7.3E-05	-4.7E-05	-3.1E-05	-2.8E-05	-2.1E-05	-4.4E-05
Groundnut Oil	-5.4E-05	-1.2E-04	-5.0E-06	-1.5E-05	-3.8E-05	-2.7E-05	-0.14	-6.8E-06	-1.3E-04	-1.8E-04	-2.9E-04	-1.1E-04	-7.0E-05	-4.6E-05	-4.2E-05	-3.1E-05	-6.6E-05
Sugar	-3.6E-05	-8.0E-05	-3.3E-06	-1.0E-05	-2.5E-05	-1.8E-05	-8.3E-06	-0.09	-8.9E-05	-1.2E-04	-1.9E-04	-7.3E-05	-4.7E-05	-3.1E-05	-2.8E-05	-2.1E-05	-4.4E-05
Vegetable	-1.8E-05	-4.0E-05	-1.7E-06	-5.1E-06	-1.3E-05	-9.0E-06	-4.1E-06	-2.3E-06	-0.05	-5.9E-05	-9.6E-05	-3.7E-05	-2.3E-05	-1.5E-05	-1.4E-05	-1.0E-05	-2.2E-05
Fruit	-5.4E-05	-1.2E-04	-5.0E-06	-1.5E-05	-3.8E-05	-2.7E-05	-1.2E-05	-6.8E-06	-1.3E-04	-0.14	-2.9E-04	-1.1E-04	-7.0E-05	-4.6E-05	-4.2E-05	-3.1E-05	-6.6E-05
Pork	-1.1E-04	-2.4E-04	-1.0E-05	-3.0E-05	-7.6E-05	-5.4E-05	-2.5E-05	-1.4E-05	-2.7E-04	-3.6E-04	-0.27	-2.2E-04	-1.4E-04	-1.0E-04	-1.0E-04	-1.0E-04	-1.3E-04
Beef	-8.9E-05	-2.0E-04	-8.3E-06	-2.5E-05	-6.3E-05	-4.5E-05	-2.1E-05	-1.1E-05	-2.2E-04	-3.0E-04	-4.8E-04	-0.23	-1.2E-04	-1.0E-04	-1.0E-04	-1.0E-04	-1.1E-04
Mutton	-1.1E-04	-2.4E-04	-1.0E-05	-3.0E-05	-7.6E-05	-5.4E-05	-2.5E-05	-1.4E-05	-2.7E-04	-3.6E-04	-5.8E-04	-2.2E-04	-0.27	-1.0E-04	-1.0E-04	-1.0E-04	-1.3E-04
Poultry	-1.4E-04	-3.2E-04	-1.3E-05	-4.1E-05	-1.0E-04	-7.2E-05	-3.3E-05	-1.8E-05	-3.5E-04	-4.7E-04	-7.7E-04	-2.9E-04	-1.9E-04	-0.36	-1.1E-04	-1.0E-04	-1.8E-04
Eggs	-5.4E-05	-1.2E-04	-5.0E-06	-1.5E-05	-3.8E-05	-2.7E-05	-1.2E-05	-6.8E-06	-1.3E-04	-1.8E-04	-2.9E-04	-1.1E-04	-1.0E-04	-1.0E-04	-0.14	-1.0E-04	-6.6E-05
Dairy	-1.6E-04	-3.6E-04	-1.5E-05	-4.6E-05	-1.1E-04	-8.1E-05	-3.7E-05	-2.1E-05	-4.0E-04	-5.3E-04	-8.6E-04	-3.3E-04	-2.1E-04	-1.4E-04	-1.2E-04	-0.41	-2.0E-04
Aquatic Product	-1.4E-04	-3.2E-04	-1.3E-05	-4.1E-05	-1.0E-04	-7.2E-05	-3.3E-05	-1.8E-05	-3.5E-04	-4.7E-04	-7.7E-04	-2.9E-04	-1.9E-04	-1.2E-04	-1.1E-04	-8.3E-05	-0.36

### Appendix C Own price and cross price elasticities by different commodities of urban consumers

	Wheat	Rice	Maize	Soybean	Soybean Oil	Rapeseed Oil	Groundnut Oil	Sugar	Vegetable	Fruit	Pork	Beef	Mutton	Poultry	Eggs	Dairy	Aquatic Product
Wheat	-0.02	-1.0E-03	-1.0E-03	-8.8E-07	7.9E-07	5.6E-07	2.6E-07	2.0E-07	-1.1E-05	-1.6E-05	2.5E-06	1.3E-06	8.2E-07	5.5E-07	4.1E-07	2.8E-07	9.7E-07
Rice	-1.0E-03	-0.02	-1.0E-03	-8.8E-07	7.9E-07	5.6E-07	2.6E-07	2.0E-07	-1.1E-05	-1.6E-05	2.5E-06	1.3E-06	8.2E-07	5.5E-07	4.1E-07	2.8E-07	9.7E-07
Maize	-1.0E-03	-1.0E-03	-0.02	-8.8E-07	7.9E-07	5.6E-07	2.6E-07	2.0E-07	-1.1E-05	-1.6E-05	2.5E-06	1.3E-06	8.2E-07	5.5E-07	4.1E-07	2.8E-07	9.7E-07
Soybean	-1.3E-05	-2.4E-05	-6.9E-07	-0.05	2.0E-06	1.4E-06	6.4E-07	5.1E-07	-2.7E-05	-3.9E-05	6.3E-06	3.2E-06	2.1E-06	1.4E-06	1.0E-06	7.1E-07	2.4E-06
Soybean Oil	-2.6E-05	-4.9E-05	-1.4E-06	-4.4E-06	-0.10	2.8E-06	1.3E-06	1.0E-06	-5.4E-05	-7.9E-05	1.3E-05	6.5E-06	4.1E-06	2.7E-06	2.0E-06	1.4E-06	4.9E-06
Rapeseed Oil	-2.6E-05	-4.9E-05	-1.4E-06	-4.4E-06	3.9E-06	-0.10	1.3E-06	1.0E-06	-5.4E-05	-7.9E-05	1.3E-05	6.5E-06	4.1E-06	2.7E-06	2.0E-06	1.4E-06	4.9E-06
Groundnut Oil	-2.6E-05	-4.9E-05	-1.4E-06	-4.4E-06	3.9E-06	2.8E-06	-0.10	1.0E-06	-5.4E-05	-7.9E-05	1.3E-05	6.5E-06	4.1E-06	2.7E-06	2.0E-06	1.4E-06	4.9E-06
Sugar	-2.6E-05	-4.9E-05	-1.4E-06	-4.4E-06	3.9E-06	2.8E-06	0.00	-0.10	-5.4E-05	-7.9E-05	1.3E-05	6.5E-06	4.1E-06	2.7E-06	2.0E-06	1.4E-06	4.9E-06
Vegetable	-5.2E-06	-9.8E-06	-2.8E-07	-8.8E-07	7.9E-07	5.6E-07	2.6E-07	2.0E-07	-0.02	-1.6E-05	2.5E-06	1.3E-06	8.2E-07	5.5E-07	4.1E-07	2.8E-07	9.7E-07
Fruit	-2.6E-05	-4.9E-05	-1.4E-06	-4.4E-06	3.9E-06	2.8E-06	1.3E-06	1.0E-06	-5.4E-05	-0.10	1.3E-05	6.5E-06	4.1E-06	2.7E-06	2.0E-06	1.4E-06	4.9E-06
Pork	-3.9E-05	-7.3E-05	-2.1E-06	-6.6E-06	5.9E-06	4.2E-06	1.9E-06	1.5E-06	-8.1E-05	-1.2E-04	-0.15	-1.0E-04	-1.0E-04	-1.0E-04	-1.0E-04	-1.0E-04	7.3E-06
Beef	-5.2E-05	-9.8E-05	-2.8E-06	-8.8E-06	7.9E-06	5.6E-06	2.6E-06	2.0E-06	-1.1E-04	-1.6E-04	-1.0E-04	-0.20	-1.0E-04	-1.0E-04	-1.0E-04	-1.0E-04	9.7E-06
Mutton	-5.2E-05	-9.8E-05	-2.8E-06	-8.8E-06	7.9E-06	5.6E-06	2.6E-06	2.0E-06	-1.1E-04	-1.6E-04	-1.0E-04	-1.0E-04	-0.20	-1.0E-04	-1.0E-04	-1.0E-04	9.7E-06
Poultry	-7.8E-05	-1.5E-04	-4.1E-06	-1.3E-05	1.2E-05	8.4E-06	3.9E-06	3.1E-06	-1.6E-04	-2.4E-04	-1.0E-04	-1.0E-04	-1.0E-04	-1.0E-04	-0.31	-1.0E-04	1.5E-05
Eggs	-2.6E-05	-4.9E-05	-1.4E-06	-4.4E-06	3.9E-06	2.8E-06	1.3E-06	1.0E-06	-5.4E-05	-7.9E-05	-1.0E-04	-1.0E-04	-1.0E-04	-1.0E-04	-1.0E-04	-0.10	4.9E-06
Dairy	-9.1E-05	-1.7E-04	-4.8E-06	-1.5E-05	1.4E-05	9.8E-06	4.5E-06	3.6E-06	-1.9E-04	-2.8E-04	-1.0E-04	-1.0E-04	-1.0E-04	-1.0E-04	-1.0E-04	-0.36	1.7E-05
Aquatic Product	-7.8E-05	-1.5E-04	-4.1E-06	-1.3E-05	1.2E-05	8.4E-06	3.9E-06	3.1E-06	-1.6E-04	-2.4E-04	3.8E-05	1.9E-05	1.2E-05	8.2E-06	6.1E-06	4.2E-06	-0.31

**Appendix D** Income elasticities of rural and urban residents

	<b>Rural residents</b>	<b>Urban residents</b>
Rice	0.05	0.02
Wheat	0.05	0.02
Maize	0.02	0.02
Other coarse	-0.17	-0.25
Soybean	0.1	0.05
Cotton	0.00	0.00
Oils	0.55	0.38
Sugar	0.1	0.08
Vegetable	0.05	0.02
Fruit1	0.15	0.1
Fruit2	0.15	0.1
Pork	0.3	0.15
Beef	0.25	0.2
Mutton	0.3	0.2
Poultry	0.4	0.3
Eggs	0.15	0.1
Milk	0.45	0.35
Fish	0.4	0.3