## Questionnaire (Antibiotic use in mandarin in 2016)

Interview Date Please complete the following questionnaire by checking the boxes most applicable to you or filling in the blanks
Dowt 4 Concret information (code; 00 and 0 - missing)
Part 1 General information (code; 99 and 0 = missing)
1. Name
2. Gender
(1)□ Male
(2)□ Female
3. Ageyear
4. Status
(1)□ Owner
(2)□ Cousin
(3)□ Employee
(4)□ Others please identify
5. Highest education level
(1)□ Uneducated
(2)□ Primary school
(3)□ Junior high school
(4)□ Senior high school
(5)□ Vocational Certificated
(6)□ Undergraduate
(7)□ Postgraduate
6. Membership in Co-operative relevant to mandarin
(1)□ Never
(2)□ Yes (please identify)
7. Work experience in the production in mandarin orchardyear
8. Mandarin cultivated areaRai
9. No. of mandarin trees in your orchard
10. In 2016, do you still growing mandarin?
(1)□ Yes (Active farmers in 2016)
(2) No (Non-active farmers in 2016)

Part 2 Status and management of greening disease during January-December 2016 (code; 99 and 0 = missing)

11. Common diseases in your mandarin orchards (Multiple answers are allowed)
(11.1)□ Greening disease
(11.2)□ Root rot
(11.3)□ Tristeza
(11.4)□ Scab
(11.5)□ Black mold disease
(11.6)□ Tearstain mold disease
(11.7)□ Canker disease
(11.8)□ Citrus gummosis
(11.9)□ Pink mold disease
(11.10)□ Green mold disease
(11.11)□ Others (Please identify) (11.11.1)
12. How many percentages of mandarin trees that were affected by greening disease
(Please tick one answer) (If answer "Greening disease" to question 11)
(1)□ Less than 30%
(2)□ Between 30% and 50%
(3)□ More than 50%
(4)□ More than 100%
13. How to manage greening disease in your mandarin orchards (Multiple answers are allowed) (If answers
"Greening disease" to question 11)
(13.1)□ Cut the affected branches without burning
(13.2)□ Cut and burned the affected branches
(13.3)□ Partially eradicated the severely affected sections
(13.4)□ Total eradication
(13.5)□ Used chemical control
(13.6)□ Used antibiotics
14. The reason why using antibiotics in management of greening disease (Multiple answers are allowed)
(If answer "Greening disease" to question 11)
(14.1)□ Good outcome
(14.2)□ Low cost, worth investment
(14.3)□ Hight cost but worth investment
(14.4)□ Only one choice left
(14.5)□ Others (Please identify) (14.5.1)

## Part 3 Use of antibiotic during January-December 2016 (code; 99 and 0 = missing)

•	ed any antibiotics in mandarin orchards for treatment of greening disease in 2016?
(Please tick one a	answer)
(1)□ No	
(2)□ Yes	(Please give a reason) (15.1)
16. Type of antibi	otics used in mandarin orchards for treatment of greening disease (Multiple answers are
, ,	er "Yes" to question 15)
(16.1)□T	etracycline
(16.2)□ F	Penicillin
(16.3)□ <i>A</i>	Ampicillin
(16.4)□ <i>F</i>	Amoxycillin
(16.5)□ (	Combination antibiotics (Please identify
1	6.5.1)(1) tetra + ampi (2) ampi +amoxy
(16.6)□ (	Others (Please identify) (16.6.1)
17. How to mix a	ntibiotic into the water (If answer "Yes" to question 15)
(17.1) 🗆	Antibiotic 1
(	17.1.1)□Active pharmaceutical ingredient
F	PowderL
(	17.1.2)□Finished product
Т	ablet:mg / 1 tab usetab(s) mix in the waterL
(17.2)	Antibiotic 2 (In case of combination antibiotics)
(	17.2.1)□Active pharmaceutical ingredient
F	PowderL
(	17.2.2)□Finished product
Т	ablet:mg / 1 tab usetab(s) mix in the waterL
•	u get the information about use of antibiotics for greening disease (Please tick one
, ,	er "Yes" to question 15)
, ,	Neighbouring orchards
,	Farmers in other districts
(18.3)□ <i>F</i>	Agrochemical suppliers
(18.4)□ F	Pharmacies
(18.5)□ F	Pharmacy retailers
(18.6)□ <i>A</i>	Academic sector (Please identify) (18.6.1)
(18.7)□ (	Sovernment sector (Please identify) (18.7.1)
(18.8)□ (	Others (Please identify) (18.8.1)

question 15)
(19.1)□ Neighbouring orchards
(19.2)□ Farmers in other districts
(19.3)□ Agrochemical suppliers
(19.4)□ Pharmacies
(19.5)□ Pharmacy retailers
(19.6) Academic sector (Please identify) (19.6.1)
(19.7)□ Government sector (Please identify) (19.7.1)
(19.8)□ Others (Please identify) (19.8.1)
20. How to apply antibiotics in mandarin orchards (Multiple answers are allowed) (If answer "Yes" to
question 15)
(20.1)□ Pouring at the trunk
(20.2)□ Spraying on the tree leaf
(20.3)□ Injection at the tree
(20.4)□ Others (Please identify) (20.4.1)
21. Which method did you apply of antibiotics injection in mandarin orchards (Please tick one answer) (If
answer "Injection at the tree" to question 20)
(21.1)□ Using syringe for injection
(21.2)□ Dripping
(21.2) Dripping
(21.3)□ Others (Please identify) (21.3.1)
(21.3) □ Others (Please identify) (21.3.1)
(21.3)□ Others (Please identify) (21.3.1)
(21.3) □ Others (Please identify) (21.3.1)
(21.3)□ Others (Please identify) (21.3.1)
(21.3)□ Others (Please identify) (21.3.1)
(21.3)□ Others (Please identify) (21.3.1)
(21.3)□ Others (Please identify) (21.3.1)
(21.3)□ Others (Please identify) (21.3.1)
(21.3)□ Others (Please identify) (21.3.1)
(21.3)□ Others (Please identify) (21.3.1)

19. Source of antibiotics using in your mandarin orchards (Please tick one answer) (If answer "Yes" to

(24.4)□ Others (Please identify) (24.4.1)
25. Frequency of injection antibiotics in mandarin orchards: everymonth(s) (If answer "Injection
at the tree" to question 20)
(25.1) Small tree: Volume of injection antibioticsl/ 1 tree/1 time
(25.2) Large tree: Volume of injection antibioticsml/ 1 tree/1 time
26. When to stop antibiotics before harvest (Please tick one answer) (If answer "Injection at the tree" to
question 20)
(1)□ Less than 1 month
(2)□ More than 1 month
(3)□ More than 2 month
(4)□ Others (Please identify)