An Analysis of Tongan Farmers' Perception on Domestic Fruit Production: Resisters, Enablers, Drivers for Increased Smallholder Participation

FARMERS SURVEY

Survey code number:

Q1. Survey code number _____

Please use: date, enumerators initials, then sequential numbering. (e.g. dateSU1; dateSU2; dateSU3 etc.)

Q2. Date: yyyy-mm-dd _____ hh:mm _____

Q3. Enumerator name? _____

Initial Filter questions

Q4. Are you over 18 years old?

- ○ Yes
- ○ No ***If no cease survey.***

Q5. Are willing to undertake a short survey on fruit and vegetable availability in Tonga?

- ○ Yes
- ○ No ***If no cease survey.***

Q6. Are you responsible for sourcing fresh food (including fresh fruit and vegetables) for yourself or family or others?

- ○ Yes
- ○ No ***If no cease survey.***

Farm Location

Q7. Which Island Group?

- ○ Tongatapu

Q8. Which District?

- ○ Kolofo'ou
- ○ Kolomotu'a
- ○ Vaini
- ○ Tatakamotonga
- ○ Lapaha
- ○ Nukunuku
- ○ Kolovai

Q9. Which Village?

Kolofo'ou District
- ○ Kolofo'ou

Kolomotu'a District
- ○ Kolomotu'a

Tatakamotonga District
- ○ Tatakamotonga

- Ma'ufanga
- Nukunukumotu
- Popua
- Tukutonga
- Pangaimotu

Vaini District

- Vaini
- Malapo
- Longoteme
- Folaha
- Nukuhetulu
- Veitongo
- Ha'ateiho
- Pea
- Tokomololo

Vahenga Kolovai

- Kolovai
- Te'ekiu
- Masilamea
- Fahefa
- Ha'utu
- Kala'au
- Fo'ui
- Ha'avakatolo
- Ahau
- Kanokupolu
- Ha'atafu
- Atataa Island

- Havelu
- Tofoa
- Hofoa
- Puke
- Sia'atoutai

Lapaha District

- Lapaha
- Talasiu
- Hoi
- Nukuleka
- Makaunga
- Talafo'ou
- Manuka
- Navutoka
- Kolonga
- Afa
- Niutoua
- ‘Eueiki Island

- Holonga
- Pelehake
- Fua'amotu
- Nakolo
- Ha'asini/Hamula
- Lavengatonga
- Haveluliku
- Fatumu

Nukunuku District

- Nukunuku
- Matahau
- Matafonua
- Fatai
- Lakepa
- Vaotu'u
- Utulau
- Ha'alalo
- Ha'akame
- Houma

Demographics

Q10. Gender (Males, female, other)

- Male
- Female
- Others _____

Q11. Age (years)

- 18-30
- 31-50
- 51-70
- 71-100
- Others (specify) _____

Q12. Marital status

- Single
- Married
- Divorced
- Windowed
- Others (specify) _____

Farm production

Q13. What type of crops do you normally grow/harvest to sell?

- Root crops
- Fruits (not includes coconut)
- Vegetable (excludes Tomato)
- Others (specify) _____

Q14. Where do you plant your fruit trees?

- Town allotment
- Tax allotment
- Both Town and Tax allotment
- Others _____

Q15. What is the size of your Allotment? (Please tick the right answer)

- Less than .5 acre
- 1 – 3 acres
- 4 - 8 acres
- Others (specify) _____

Q16. What type of fruits do you harvest or grow for sale?

- Apples (all types)
- Avocado
- Banana & Plantain
- Breadfruit
- Citrus (including lemons, lime, oranges)
- Malay Apple
- Mango
- Rock melon

- [ ] Watermelon
- [ ] Pawpaw
- [ ] Pineapple
- [ ] Tomato
- [ ] Others (specify) _____

Q17. What is the purpose of growing those fruit trees? (Please tick one)

- ○ Food for family only
- ○ Food for family and occasional selling of excess
- ○ For selling at local market
- ○ For exporting
- ○ For both selling at local market and export
- ○ Others (specify) _____

Q18. How many years have you been farming commercially? (i.e. product grown for sale) *if answer for Q15 is food for family only than this question should be skip*

- ○ 0 – 1 year
- ○ 2 – 5 years
- ○ 6 – 10 years
- ○ Others (specify) _____

Q19. How long have you been selling fruits? *if answer for Q15 is food for family only than this question should be skip*

- ○ 0 – 1 year *age range what is the paste on?*
- ○ 2 – 5 years
- ○ 6 – 10 years
- ○ Others (specify) _____

Q20. How do you plant out your fruit trees?

- [ ] Scattered
- [ ] Marking boundary
- [ ] Orchard form
- [ ] Others (specify) _____

Q21. Could you please rate your total prior experience in fruit trees production (please tick only one) *not sure why we include 0 experience (potential duplication of Q16 and Q17)*

- ○ Zero experience (0 years) why asking this question
- ○ Fair experience (1 - 2 years)
- ○ Good experience (3 - 4 years)

- Very good experience (5 - 6 years)
- Excellent experience (more than 6 years)
- Others (specify) _____

Q21.1. If yes, how long have you been growing citrus? (Please tick one) *Duplication see Q16*

- 1 – 3 years
- 4 – 5 years
- 6 – 7 years
- More than 8 years
- Others (specify) _____

Q22. What was the purpose of growing citrus? (please choose appropriate answer) *Potential duplication see Q17*

- None (Do not harvest) *should remove maybe cover under others*
- For Animal Feed
- Home use
- Distribute to family and friends
- Sell at the municipal market
- Sell at roadside market
- Others (specify) _____

Q23. Would you consider planting citrus trees on your farm? (Please tick only one)

- Yes
- No

Q23.1 If no. what is the reason why you don't want to grow citrus?

- Not Interested
- Limited Land
- No Funding
- No Planting Materials
- No Experience
- Others (specify) _____

Q23.2 If yes, what is the reason for planting citrus?

- Food
- Food and Occasional selling
- Selling Only (Local Market)
- Selling at Local Market and Export
- Selling at Export Market
- Others (specify) _____

Q24. What citrus variety are you planning to grow?

- Mandarins
- Tangerines
- Orange
- Limes
- Lemons
- Others (specify) _____

Insert drop down to reflect number of trees they wanted to plant.

Q25. If yes, would you be planting the trees on your own expense?

- Yes
- No

Q26. If no, would you require any assistants?

- Yes
- No
- Others (specify) _____

Q27. If yes, what type of government assistance would you require?

- *Planting Materials*
- *Land Preparation*
- *Agricultural Inputs*
- *Technical Advice / training*
- *Financial support*
- Others (specify) _____

Q28. When would you be planting these trees?

- *Within this year*
- *Early next year*
- *Late next year*
- Others (specify) _____

Q29. Do you think there is a demand for locally grown citrus in Tonga? (Please tick only one)

- Yes
- No

Q30. Are there any issues you are aware of that might influence local demand for citrus?

- Yes
- No
- Others (specify) _____

Q30.1. IF yes, please specify?

- *Poor quality of local citrus*
- *Pest and disease of citrus*
- *Inconsistency of supply*
- Others (specify) _____

Q31. What do you think should be done to improve local demand for citrus?

- *Technical advice on proper citrus production*
- *Access to good and improved quality planting materials*
- *Improve post-harvest handling*
- Others (specify) _____

Q32. Are you aware of how to grow and look after citrus trees to ensure good quality fruits?

- Yes
- No
- Others (specify) _____

Q33. Have you received any training on citrus production? (Please tick only one)

- Yes
- No
- Others (specify) _____

Q33.1 If yes, what is the type of training you have received on citrus production?

- *Citrus propagation*
- *Citrus management*
- *Post-harvest*
- *Marketing*
- Others (specify) _____

Q33.2 If no. What type of training would you require to help you in citrus production?

- *Citrus propagation*
- *Citrus management*
- *Post-harvest*
- *Marketing*

Q33.3 Please rate the relevance of the training you received. (Please tick the appropriate answer)

- Good
- Fair
- Good
- Very good
- Excellent
- Others (specify) _____

Q34. Do you know how citrus fruit should be stored? (Please tick only one)

- Yes
- No
- Others (specify) _____

Q34.1 If yes, please elaborate on your answer.

- Cooler
- Room Temperature
- Shaded area
- Others (specify) _____

Q35. Are you able to get timely advice from MAFF's Extension officers?

- Yes
- No
- Others (specify) _____

Q36. Has any MAFF's Extension Officers approached you to plant citrus?

- Yes
- No
- Others (specify) _____

Q37. Are you aware of any government or non-government program to revamp citrus industry in the last 2 to 3 years?

- Yes
- No
- Others (specify) _____

Q37.1 If yes, please specify

- Planting material distribution by Government Ministries
- Planting material distribution by Non-Government Organizations
- Planting material distribution by Private Sectors
- Others (specify) _____

Q38. Request a picture from respondent. Point and shoot! Use the camera to take a photo

<Photo 1> Click here to upload file. (< 10MB)
<Photo 2> Click here to upload file. (< 10MB)
<Photo 3> Click here to upload file. (< 10MB)
<Photo 4> Click here to upload file. (< 10MB)

Q39. Record your current location

latitude (x.y °)

longitude (x.y °)

altitude (m)

accuracy (m)

