

APPENDIX

Appendix I

*INTERVIEW SCHEDULE FOR HOUSEHOLD HEADS
STRUCTURE, FLORISTIC COMPOSITION AND ETHNOBOTANY OF RURAL
HOMEGARDENS IN THE NEW-JUABEN MUNICIPALITY OF GHANA*

Consent

The purpose of this survey is to help me gather knowledge on homegardens. This questionnaire is strictly for academic purposes and the response given will be treated with a high level of anonymity. I humbly request that you answer the following questions and I will be happy to answer any questions you may have for me too.

I will also like to seek your consent to record this conversation for the primary researcher who is currently directing the data collection from abroad. This will enhance her understanding for a more comprehensive discussion. Please feel free to tell me to stop with the recording or interview at any point you feel unease or uncomfortable.

Thank You

Name of Respondent..... Community..... Date.....

SECTION A:

General Information about Caretaker

1. Gender of respondent Male [] Female []
2. How old are you (primary caretaker)?
3. How many years have you been in school?
4. Which ethnic group do you belong to?
5. Are you married? Yes [] No []
6. How many individuals are in this household?
7. What is the gender of the household head? Male [] Female []
8. What is your primary occupation?

SECTION B

Description of Homegardens

9. How long have you been the caretaker of a homegarden?
10. What is the age of the homegarden?
11. What is the size of the homegarden?
12. Terrain of the homegarden? Flat land [] Slope []
13. Is the homegarden for commercial purpose or subsistence? subsistence [] commercial []
14. Distance to market

SECTION C:

Table 1- Floristic composition of homegarden and ethnobotanical knowledge

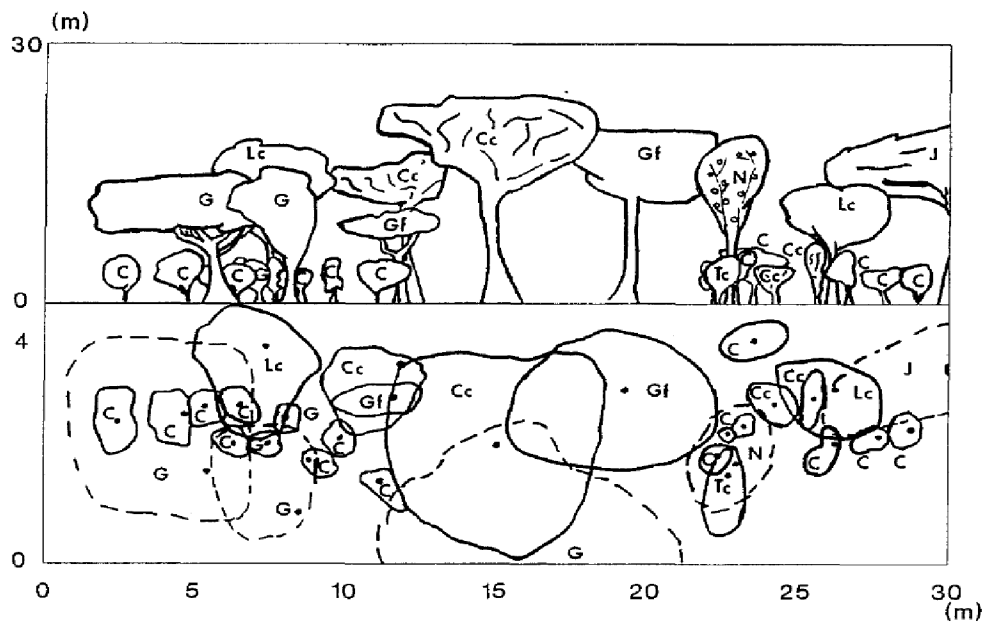
| Number | Name of plant | Number present | (1)Fruits (2)Timber (3)Roots and Tuber (4)Other | Primary purpose (1)Edible/ (2)Medicinal/ (3)Commercial (4)Provisioning (5)Shade | (1)Perennial / (2)Annual | Plant part | Specific uses Describe how each part is used |
|---------|---------------|----------------|--|--|--------------------------|------------|---|
| 1 | | | | | | Leaves | |
| | | | | | | Branches | |
| | | | | | | Roots | |
| | | | | | | Bark | |
| | | | | | | Seeds | |
| | | | | | | Trunk | |
| | | | | | | Stem | |
| Flowers | | | | | | | |

SECTION E:

Vertical and Horizontal arrangement of the household

Enumerators to sketch both arrangement types on the same page of an A4 sheet and take a picture of the garden.

Sample



Vertical arrangement on top and horizontal at the bottom

Appendix II

Table 2 - Regression results for factors that influence biodiversity (SW, MG,S)

| | Shanon-wiener | | | | Margalef | | | | Simpson | | | |
|----------------------|---------------|------------|--------|---------------|----------|------------|--------|---------------|---------------|--------------|---------------|---------------|
| | B | Std. Error | t | sig. | B | Std. Error | t | Sig. | B | Std. Error | t | Sig. |
| (Constant) | 1.484 | 0.492 | 3.019 | 0.005 | 1.559 | 0.516 | 3.018 | 0.005 | 0.778 | 0.220 | 3.529 | 0.001 |
| Gender | -0.133 | 0.138 | -0.963 | 0.342 | -0.029 | 0.145 | -0.196 | 0.846 | -0.049 | 0.062 | -0.790 | 0.435 |
| Age of respondent | -0.007 | 0.008 | -0.858 | 0.397 | -0.009 | 0.008 | -1.126 | 0.268 | -0.002 | 0.003 | -0.611 | 0.545 |
| Education | -0.015 | 0.018 | -0.822 | 0.417 | -0.008 | 0.019 | -0.432 | 0.668 | -0.006 | 0.008 | -0.682 | 0.500 |
| Household size | 0.002 | 0.039 | 0.061 | 0.952 | -0.018 | 0.041 | -0.437 | 0.665 | 0.005 | 0.017 | 0.261 | 0.795 |
| Experience | 0.061 | 0.031 | 1.947 | 0.060* | 0.066 | 0.033 | 2.012 | 0.052* | 0.024 | 0.014 | 1.731 | 0.092* |
| Size-HG | -0.016 | 0.035 | -0.469 | 0.642 | -0.074 | 0.037 | -2.009 | 0.052* | -0.006 | 0.016 | -0.373 | 0.711 |
| Market distance | 0.010 | 0.016 | 0.614 | 0.543 | -0.012 | 0.017 | -0.725 | 0.473 | 0.005 | 0.007 | 0.700 | 0.488 |
| Home distance | -0.124 | 0.165 | -0.749 | 0.459 | -0.137 | 0.174 | -0.791 | 0.434 | -0.057 | 0.074 | -0.774 | 0.444 |
| Age-HG | -0.034 | 0.024 | -1.401 | 0.170 | 0.026 | 0.025 | 1.017 | 0.316 | -0.020 | 0.011 | -1.897 | 0.066* |
| Occupation | -0.037 | 0.108 | -0.347 | 0.730 | -0.089 | 0.113 | -0.786 | 0.437 | -0.016 | 0.048 | -0.329 | 0.744 |
| HouseholdHead gender | -0.169 | 0.135 | -1.258 | 0.217 | -0.024 | 0.141 | -0.169 | 0.867 | -0.088 | 0.060 | -1.467 | 0.151 |
| Terrain | 0.218 | 0.140 | 1.553 | 0.129 | 0.073 | 0.147 | 0.498 | 0.621 | 0.069 | 0.063 | 1.104 | 0.277 |
| Ethnicity | -0.011 | 0.027 | -0.415 | 0.680 | 0.003 | 0.028 | 0.118 | 0.907 | -0.010 | 0.012 | -0.834 | 0.410 |
| Marital status | -0.067 | 0.120 | -0.560 | 0.579 | -0.055 | 0.126 | -0.438 | 0.664 | -0.075 | 0.054 | -1.407 | 0.168 |

Pictures from sampled Home gardens





Adu Agyapong George



Sosu Kwashiegah



Amina Bimoaba

Pant uses



E. guineensis fronds used for local baskets



Celtis mildbraedii branches used as pistol for pounding