**UNIVERSITY OF LAGOS**

**LANDUSE CHANGE AND CARBON EMISSION IN SOUTHWEST NIGERIA PROJECT**

**QUESTIONNAIRE FOR HOUSEHOLDS**

Name of Community:.................................................................................................

Village/community identification number: ................................................................

Interviewer: ..................................................................................................................

LGA/ State: ……………………………………………………………………………

**SECTION A: GENERAL**

1. Sex: (a) Male (b) Female
2. Marital status: (a) Single (b) Married (c) Separated (d) Divorced (e) Widowed|/ Widower
3. Age: (a) below 18 (b) 18-30 (b) 31-45 (c) 46-60 (d) above 60
4. For how long have you lived in this community (in years)? ------------------------------
5. Level of highest educational attainment: (a) No formal education (b) Primary school (c) Secondary school (d) Tertiary education (e) Others (please specify) ---------------------
6. Type of regular employment: (a) Farming and land related occupations (b) Processing (c) Trading (d) Formal sector (government) (e) Formal sector (private) (f) Unemployed (g) Others (specify) --------------------------------------
7. Average monthly income: ~~N~~----------------------------------------------
8. Ethnic group: ……………………………………
9. Religion: (a) Christianity (b) Islam (c) traditional (d) Others (specify)………………………………….

**SECTION B: USE OF FORESTRY AND WOODLAND RESOURCES**

10. Have you ever heard about climate change-----------------------------------------------------------------------

11. If yes, what is the source of your information---------------------------------------------------------------------

12. Are you aware of any relationship between climate change and forest degradation-------------------13. If yes, what do you know about the relationship? -----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

14. What is the estimated distance of your community to the nearest forest/wetland/woodland-----------------------------------------------------------------------------------------------------------------

15. If farming is your primary occupation, please provide information in the table below of the kind of crops you cultivate.

|  |  |  |  |
| --- | --- | --- | --- |
| Crops grown | Tick if you grow | Rank crop’s importance | Use crop largely for S=sale C=consumption;  B=both |
| Cocoa |  |  |  |
| Plantain |  |  |  |
| Rubber |  |  |  |
| Oil palm |  |  |  |
| Maize |  |  |  |
| Cassava |  |  |  |
| Rice |  |  |  |
| Beans |  |  |  |
| Tomatoes |  |  |  |
| Pepper |  |  |  |
| Groundnut |  |  |  |
| Watermelon |  |  |  |
| Guinea corn |  |  |  |
| Others (specify) |  |  |  |

16. What other income-generating activities do you engage in? (Tick from table below)

|  |  |  |
| --- | --- | --- |
| Activity | Tick if you engage in any of these activities | Rank importance (3=extremely important; 2=moderately important; 1 =Less Important) |
| Charcoal making |  |  |
| Fire wood harvesting and selling |  |  |
| Lumbering |  |  |
| Livestock rearing |  |  |
| Fishing |  |  |
| Bee Keeping |  |  |
| Apiculture (mushroom farming) |  |  |
| Snail farming |  |  |
| Hunting |  |  |
| Herbs/seed/root collection |  |  |
| Civil service |  |  |
| Trading/Marketing |  |  |
| Collection of non-timber forest product |  |  |
| Processing of agricultural produce |  |  |
| Hired labour |  |  |
| Crafts |  |  |
| Others (Specify) |  |  |

17. From your experience which wood species are commonly used in this area for the following:

|  |  |  |  |
| --- | --- | --- | --- |
| ***SN*** | ***Item*** | ***Wood species used*** | ***Available around the community? Yes or No*** |
|  | Building/roofing |  |  |
|  | Hoe and cutlasses |  |  |
|  | Fire wood |  |  |
|  | Sheds |  |  |
|  | Home furniture |  |  |
|  | Mending roads |  |  |
|  | Herbs and therapy |  |  |
|  | Charcoal production |  |  |
|  | Leaves harvest/collection |  |  |

18. From which trees do you get the following?

|  |  |  |  |
| --- | --- | --- | --- |
| ***SN*** | ***Items*** | ***Tree species*** | ***Available around the community? Yes or No*** |
|  | Fruits |  |  |
|  | Nuts |  |  |
|  | Seeds/roots/herbs for medicine & for soups |  |  |
|  | Balm/cream/oil |  |  |
|  | Cane/chewing stick |  |  |

19. What are the primary sources of energy in your home?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sn** | **Energy** | **Cooking** | **Heating/ Drying** | **Lighting** |
|  | Wood |  |  |  |
|  | Charcoal |  |  |  |
|  | Kerosene |  |  |  |
|  | Coal Briquette |  |  |  |
|  | Electricity |  |  |  |
|  | Gas |  |  |  |
|  | Generator |  |  |  |
|  | Candles |  |  |  |
|  | Sun (open) |  |  |  |
|  | Wind and Solar heating devices |  |  |  |
|  | Other (Specify) |  |  |  |

20. Rank the following sources of fuel according to: availability, affordability and by your preference (Rank from 1 to 8)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sn | Source | Rank (availability) | Rank (affordability) | Rank (your preference) |
|  | Wood |  |  |  |
|  | Kerosene |  |  |  |
|  | Charcoal |  |  |  |
|  | Electricity |  |  |  |
|  | Briquette |  |  |  |
|  | Gas |  |  |  |
|  | Solar heating |  |  |  |
|  | Other (Specify) |  |  |  |

21. If your major source of fuel is wood, about how many bundle do you use per week -------------------------------------------------------------------------------------------------------------------------------------------

22. Do you know of any community-owned or community-managed forest --------------------

23. Do you know of any community-woodlot for fire-wood ------------------------------------

24. If yes to questions 22&23, please give details:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Sn*** | ***Name of community forest/woodland*** | ***Location*** | ***Nature (natural forest, plantation, mixed*** | ***Estimated area (in ha or km2)*** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

25. Who plays prominent role in the following activities?

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***Activity*** | ***Male*** | ***female*** | ***Activity*** | ***Children*** | ***Youth*** | ***Old*** | ***Physically challenged*** |
| Lumbering |  |  | Lumbering |  |  |  |  |
| Charcoal making |  |  | Charcoal making |  |  |  |  |
| Farm produce |  |  | Farm produce |  |  |  |  |
| Herbs/seeds, roots/nuts |  |  | Herbs/seeds, roots/nuts |  |  |  |  |
| Firewood collection |  |  | Firewood collection |  |  |  |  |

26. Will you (or your community) be willing to protect the trees and forests if given the incentives----------------------------------------------------------------------------------------------------

27. How will that affect your livelihoods (e.g. crop planting, charcoal making, fire wood gathering, etc)----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

28. What incentive will the community require (from government or other organization generally) preserve the forests/woodland-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

**SECTION C: LAND-USE CHANGE**

29. How would you describe changes in the following vegetation and land-cover categories compared to the last 20-30 years?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SN** | **LULC categories** | **Increasing** | **Decreasing** | **No change** |
|  | Agriculture/Cropland |  |  |  |
|  | Forest land |  |  |  |
|  | Forest plantation |  |  |  |
|  | Woodland |  |  |  |
|  | Wetland |  |  |  |
|  | Grassland |  |  |  |
|  | Water |  |  |  |
|  | Bare surfaces |  |  |  |
|  | Urban areas |  |  |  |

30. Please list three (3) key issues you think are responsible for the pattern you see in the above table:

(i)----------------------------------------------------------------------------------------------------------------------------------(ii)----------------------------------------------------------------------------------------------------------------------------------(iii)----------------------------------------------------------------------------------------------------------------------------

31. Please rate the extent to which the following proximate factors affect vegetation and Land-use change in Southwest Nigeria (***0 being no impact and 5 being extreme impact***)

| **SN** | **Proximate Land Change Factors** | **Impact type (P= Positive, N= Negative, B=Both)** | **0** | **1** | **2** | **3** | **4** | **5** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Crop Cultivation |  |  |  |  |  |  |  |
|  | Animal grazing/ranging |  |  |  |  |  |  |  |
|  | Rural agricultural migration |  |  |  |  |  |  |  |
|  | Mining |  |  |  |  |  |  |  |
|  | Transportation(eg Road and rail construction) |  |  |  |  |  |  |  |
|  | Market infrastructure construction (e.g. rural feeder roads, storage facilities, market stalls, small dams, etc.) |  |  |  |  |  |  |  |
|  | Industrialization |  |  |  |  |  |  |  |
|  | Dams and large water impoundments |  |  |  |  |  |  |  |
|  | Lumbering/Commercial logging |  |  |  |  |  |  |  |
|  | Pole wood extraction (e.g. for electricity) |  |  |  |  |  |  |  |
|  | Fuel/firewood wood extraction |  |  |  |  |  |  |  |
|  | Charcoal production |  |  |  |  |  |  |  |
|  | Time of opening and closing of forests for lumbering |  |  |  |  |  |  |  |
|  | Afforestation efforts |  |  |  |  |  |  |  |
|  | Reforestation efforts |  |  |  |  |  |  |  |
|  | Urban growth |  |  |  |  |  |  |  |
|  | Private constructions |  |  |  |  |  |  |  |
|  | Terrain |  |  |  |  |  |  |  |
|  | Fires |  |  |  |  |  |  |  |
|  | Drought |  |  |  |  |  |  |  |
|  | Flood |  |  |  |  |  |  |  |
|  | Rainfall |  |  |  |  |  |  |  |
|  | Temperature |  |  |  |  |  |  |  |

32. Please rate the extent to which the following underlying factors affect vegetation and land-use change in Southwest Nigeria (***0 being no impact and 5 being extreme impact***)

| **SN** | **Underlying Land Change Factors** | **Impact type (P= Positive, N= Negative, B=Both)** | **0** | **1** | **2** | **3** | **4** | **5** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Ecological suitabilities |  |  |  |  |  |  |  |
|  | Population increase (mouths to feed) |  |  |  |  |  |  |  |
|  | Agricultural commercialization |  |  |  |  |  |  |  |
|  | Length of Fallow period |  |  |  |  |  |  |  |
|  | Urbanization and industrialization |  |  |  |  |  |  |  |
|  | Economic diversification |  |  |  |  |  |  |  |
|  | Export production and import substitution drive |  |  |  |  |  |  |  |
|  | Formal (direct) policies on forestry |  |  |  |  |  |  |  |
|  | Informal policies (policy climate) |  |  |  |  |  |  |  |
|  | Land tenure and property rights |  |  |  |  |  |  |  |
|  | National environment and natural resource legislations |  |  |  |  |  |  |  |
|  | State environment and natural resource legislations |  |  |  |  |  |  |  |
|  | National policy on energy |  |  |  |  |  |  |  |
|  | National climate change strategy |  |  |  |  |  |  |  |
|  | National economic policy |  |  |  |  |  |  |  |
|  | National education policy as relates to the environment |  |  |  |  |  |  |  |
|  | Technological applications in the wood sector (eg recycling and use of substitute to wood) |  |  |  |  |  |  |  |
|  | Poverty |  |  |  |  |  |  |  |
|  | Social and resource conflicts |  |  |  |  |  |  |  |
|  | Public attitude, values and beliefs |  |  |  |  |  |  |  |
|  | Private sector economic interests |  |  |  |  |  |  |  |
|  | Public sector economic interests |  |  |  |  |  |  |  |
|  | Communities livelihood interest |  |  |  |  |  |  |  |
|  | Government incentives and subsidies |  |  |  |  |  |  |  |
|  | Gender factors (eg promoting women farmers) |  |  |  |  |  |  |  |
|  | REDD and carbon finance framework |  |  |  |  |  |  |  |
|  | Globalization |  |  |  |  |  |  |  |
|  | Activities of Development partners (e.g. World bank, IFAD, FAO, etc.) |  |  |  |  |  |  |  |
|  | International multilateral conventions and commitments such as IUCN, RAMSAR, Kyoto Protocol, Paris Climate Agreement, etc. |  |  |  |  |  |  |  |

33. If you are to rank in order of importance the 5 most critical drivers of land change in SW, which one will you list:

(i)-------------------------------------------------------------------------------------------------------------------------------(ii)------------------------------------------------------------------------------------------------------------------------------(iii)------------------------------------------------------------------------------------------------------------------------------(iv)------------------------------------------------------------------------------------------------------------------------------(v)----------------------------------------------------------------------------------------------------------------------------------

**THANK YOU SIR/MA FOR YOUR TIME**