Data Set Number 161: Questionnaire on inidgineous soil knowledge

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Identification Information:
  Citation:
    Citation Information:
      Originator: Keiichi Hayashi
      Publication Date: 2005
      Title: Questionnaire: Fakara, Niger 2002-2003
      Geospatial Data Presentation Form: tabular digital data
      Series Information:
        Series Name: JAICAF Expert Bulletin (in Japanese)
        Issue Identification: 25 (6): 12-26
      Publication Information:
        Publication Place: Japan
        Publisher: JAICAF
      Online Linkage: \\Isc-
svr01\GeoNetwork\fakaradatabase\h.keiishi\questionnaire\Questionnaire.d
bf
 Description:
    Abstract:
      The objective of this study was to evaluate indigenous knowledge
on soil and land In field surveys on indigenous knowledge (IK),
different land based classifications are found, especially when fallow
systems are concerned. Soil classifications, which are normally based
on texture and colour, can differ from these land based classes. The
farmers in this survey identified each land based class on years of
cultivation after fallow. For instance, there was ?farey-zeno?, meaning
fallow land and ?sakara?, ?lali-banda?, ?kwari-kwari?, noted as lands
of first year, 2nd year, and 3rd year of cultivation, respectively.
?kwari-zeno? means a field that has been cultivated for 4 or more
years. The most common soil type in the study area was a sandy soil
called ?labu-tjirey?, meaning redish sandy soil.
      Soil analysis showed a fertility reduction with the number of
years of cultivation after fallow. Total nitrogen in kwari-zeno soils
was 152 mg/kg, which was 33 mg/kg lower than that of sakara soils.
Therefore, soil fertility restoration in a fallow system is quite
important for sustainable agricultural production. As to fertility
level of fallow land, a short fallow of 2 years showed lower fertility
levels than a 4 years fallow. However, these latter soils are still
less fertile than sakara soils, which are ?first year fields? that have
been under fallow for more than 4 years. This indicates that soil
fertility can not be restored sufficiently through a short time fallow
system of less then 4 years.
    Purpose: To obtain quantitative information of indigenous knowledge
on soil fertility and soil fertility management practice
  Time Period of Content:
    Time_Period_Information:
      Multiple_Dates/Times:
        Single Date/Time:
          Calendar Date: September 2002
        Single Date/Time:
          Calendar Date: February 2003
        Single Date/Time:
          Calendar Date: May 2003
    Currentness Reference: ground condition
  Status:
```

Progress: Complete

```
Maintenance and Update Frequency: None planned
  Spatial Domain:
    Bounding Coordinates:
      West Bounding Coordinate: 2.583333
      East Bounding Coordinate: 2.866667
      North Bounding Coordinate: 13.583333
      South Bounding Coordinate: 13.333333
    Data Set G-Polygon:
      Data Set G-Polygon Outer G-Ring:
        G-Ring Point:
          G-Ring Latitude: 13.52775
          G-Ring Longitude: 2.66024
        G-Ring Point:
          G-Ring Latitude: 13.50950
          G-Ring Longitude: 2.77607
        G-Ring Point:
          G-Ring Latitude: 13.50219
          G-Ring Longitude: 2.63092
  Keywords:
    Theme:
      Theme Keyword Thesaurus: None
      Theme_Keyword: Indigenous knowledge
      Theme_Keyword: Soil fertility management
      Theme Keyword: classification
    Place:
      Place Keyword Thesaurus: None
      Place Keyword: Sahel
      Place Keyword: West Africa
      Place_Keyword: Niger
      Place Keyword: Fakara
      Place Keyword: Ko Dey
      Place Keyword: Tchigo Tegui
      Place Keyword: Banizoumbou
  Access Constraints: Restriceted
  Use Constraints: Restriceted
  Point of Contact:
    Contact Information:
      Contact Person Primary:
        Contact Person: Keiichi Hayashi
        Contact Organization: JIRCAS
      Contact Address:
        Address Type: mailing and physical
        City: 1-1 Ohwashi, Tsukuba
        State or Province: Ibaraki
        Postal Code: 305-8686
        Country: Japan
      Contact_Voice_Telephone: +81-29-838-6355
      Contact_Voice_Telephone: +227-20-722529/ 722626
      Contact_Electronic_Mail_Address: khayash@jircas.affrc.go.jp
      Contact Electronic Mail Address: k.hayashi@cgiar.org
  Native Data Set Environment: Microsoft Excel; dBase Table; ESRI
ArcCatalog 9.0.0.535
  Cross Reference:
    Citation Information:
      Originator: Eva Schlechta, Andreas Buerkert
      Publication Date: 2004
```

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Title: Organic inputs and farmers? management strategies in
millet fields of western Niger
      Series Information:
       Series Name: Geoderma
        Issue Identification: 121 (2004) 271289
      Publication Information:
       Publisher: Elsevier
Data Quality Information:
  Attribute Accuracy:
    Attribute_Accuracy_Report: 348 points of 24 farms in three villages
    Quantitative Attribute Accuracy Assessment:
      Attribute_Accuracy_Value: number of farms and soil sample
  Lineage:
    Process Step:
      Process Description: No process step; this is the questionnaire
which was used to collect informations about Indigenous Knowledge
description of sampling of Area in three indicated villages
Entity and Attribute Information:
  Detailed Description:
    Entity_Type:
      Entity Type Label: Questionnaire
    Attribute:
      Attribute_Label: OID
      Attribute_Definition: Internal feature number.
      Attribute_Definition Source: ESRI
      Attribute Domain Values:
        Unrepresentable Domain: Sequential unique whole numbers that
are automatically generated.
    Attribute:
      Attribute Label: CATEGOLIES
      Attribute Definition: Categories of different information
collected: Soil type; level fertility; Fallow; Land utilization
      Attribute Definition Source: Keiichi Hayashi
    Attribute:
      Attribute Label: INFORMANT1
     Attribute Definition: Person who give the answer. we have 10
Informants by questionnaire
      Attribute Definition Source: Keiichi Hayashi
      Attribute Label: NAME
      Attribute Definition: Name of the concerned Informant
     Attribute Definition Source: Keiichi Hayashi
    Attribute:
     Attribute Label: VILLAGE
      Attribute Definition: Name of village of the Informant
      Attribute Definition Source: Keiichi Hayashi
    Attribute:
      Attribute Label: AGE
      Attribute Definition: Age of the Informant
      Attribute Definition Source: Keiichi Hayashi
      Attribute Label: LANDSIZE
      Attribute Definition: Size of concerned Land
      Attribute Definition Source: Keiichi Hayashi
  Overview Description:
    Entity and Attribute_Overview:
```

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are contained in the following dataset:
      - Soil color of Indigenous knowledge on soil in Fakara
      - Indigenous knowledge description of sampling area
      - Soil fertility of Indigenous knownledge soil.
      This survey form was administrated to farmers (informants) by age
categorie ( 20, 30, 40, 50 and farmers who have more than 50 years )
      Dataset Overview:
     CATEGOLI
                    INFORMANT INFORMANT2
                                                  INFORMANT3
INFORMANT4
     1. Soil types
      Gangani
     Tassi Tjirey (Labu Tjirey
     Tassi Kwarey (Labu Kwarey)
     Tassi Bi
                     (Labu Bi)
     Botogo Tjirey
     Botogo Kwarey (Gri)
     Botogo Bi
      2. Niveau de fertilite
      Farey
     Birgui Farey
     Kwaratje
     Ga Zeno
     Birgui Nougou
     Fissi Nougou
      Fagou
     Balanga
     Gah
     Bongo Jinde
     3. Fallow
     Farey Zeno
     Sakara
     Lali Banda
     Kwari Kwari
     Kwari Zeno
     Labu Farga
     Bossey
     Bouloungou
      4. Land utilization
     Farey Konou
     Farey Mafe
     Farey Kware
     Farey Djibo
Distribution Information:
 Distributor:
    Contact Information:
      Contact Organization Primary:
        Contact Organization: JIRCAS
      Contact Address:
       Address_Type: mailing and physical
       Address: Japan International Research Center for Agricultural
Sciences (JIRCAS)
       City: Ohwashi, Tsukuba, Ibaraki
```

This dataset is a template that was used to collecte data which

Postal Code: 305 8686

```
Country: JAPAN
      Contact_Voice_Telephone: +81 29 838 6330
      Contact Facsimile Telephone: +81 29 838 6316
      Contact Electronic Mail Address: head@ml.affrc.go.jp
      Contact Instructions: http://www.jircas.affrc.go.jp
  Resource Description: Downloadable Data
  Distribution_Liability: Data are restricted. Users who need the data
should explore the metadata file and should contact JIRCAS via his
physical or mailing address
  Standard_Order_Process:
    Digital Form:
      Digital Transfer Information:
       Format Name: dBase
        Format Version Number: 4
       Transfer Size: 0.007
Metadata Reference Information:
 Metadata Date: 20070117
 Metadata_Contact:
    Contact Information:
      Contact Organization Primary:
        Contact Organization: ICRISATSC
        Contact_Person: AMADOU M.Laouali
      Contact_Position: Consultant
      Contact Address:
        Address_Type: mailing and physical address
        Address: BP: 12404
        City: Niamey
        Country: Niger
      Contact Voice Telephone: 0022720722529
      Contact Electronic Mail Address: a.m.laouali@cgiar.org
      Hours of Service: 8h00am - 16h00pm z+1
      Contact Instructions: Email contact
 Metadata Standard Name: FGDC Content Standards for Digital Geospatial
Metadata
 Metadata Standard Version: FGDC-STD-001-1998
 Metadata Time Convention: local time
 Metadata_Access_Constraints: Restricted to Metadata project
Scientists
 Metadata Security Information:
   Metadata Security Classification: Unclassified
 Metadata Extensions:
    Online Linkage: http://www.esri.com/metadata/esriprof80.html
    Profile Name: ESRI Metadata Profile
```