1. DATA SET IDENTIFICATION

1.1 Title of Catalog document

EMAP-Agricultural Lands Program Level Database
1994 and 1995 MAIA Data
Regionalization Cross-Reference Data For EMAP-Agricultural Lands Samples

1.2 Authors of the Catalog entry

George Hess, North Carolina State University
Dan Fiscus, North Carolina State University

1.3 Catalog revision date

18 June 1997

1.4 Data set name

crossref.txt
lrrnames.txt
mlranames.txt
econames.txt

1.5 Task Group

Agricultural Lands

1.6 Data set identification code

14

1.7 Version

001
1.8 Requested Acknowledgment

If you plan to publish these data in any way, EPA requires a standard statement for work it has supported:

"Although the data described in this article have been funded wholly or in part by the U. S. Environmental Protection Agency through its EMAP-Aural Lands Program, it has not been subjected to Agency review, and therefore does not necessarily reflect the views of the Agency and no official endorsement should be inferred."

2. INVESTIGATOR INFORMATION

2.1 Principal Investigator

George Hess, North Carolina State University

2.2 Investigation Participant-Sample Collection

N/A

3. DATA SET ABSTRACT

3.1 Abstract of the Data Set

This dataset provides a regional cross-reference for data collected by the EMAP Agricultural Lands Group. We worked with the National Agricultural Statistics Service (NASS) to collect our data. NASS guarantees confidentiality to all of their respondents. Therefore, we are not able to provide the exact location of sample sites. We negotiated with NASS to provide several regional identifiers for each sample point. These data can be cross-referenced with other data collect by the Agricultural Lands Group. Use SEGMENT at the key variable.

3.2 Keywords for the Data Set

MAIA, annually harvested herbaceous crops (AHHC), regionalization, geographic cross reference, LRR, MLRA, HUC, ecoregion, agricultural land, agroecosystem

4. OBJECTIVES AND INTRODUCTION

4.1 Program Objective

The Environmental Monitoring and Assessment Program (EMAP) was designed to periodically estimate the status and trends of the Nation's ecological resources on a regional basis. EMAP provides a strategy to identify and bound the extent, magnitude and location of environmental degradation and improvement on a regional scale.

The EMAP Agricultural Lands Resource group was charged with carrying out the EMAP mission on lands classified as agricultural.
4.2 Data Set Objective

This dataset can be used to identify Agricultural Lands Group sampling locations within several regionalizations of the Mid Atlantic area. Because of data confidentiality regulations, we are unable to provide exact locations for our sampling points. This dataset will allow our sample locations to be aggregated by one of the following regions:

- Land Resource Region (LRR)
- Major Land Resource Area (MLRA)
- Omernik's Ecoregions
- USGS Hydrologic Region Codes (2 digit)
- USGS Hydrologic Subregion Code (2 digit)

**NOTE: The USGS 4-digit code can be obtained by concatenating Region and Subregion. Eg, Region 2, subregion 1 => 0201 is 4-digit HUC.

4.3 Data Set Background Discussion

This dataset was created by overlaying the digitized center of NASS secondary sample units (segment) on digital maps of each regionalization. Region codes are cross-referenced to region names in separate files.

4.4 Summary of Data Set Parameters (filename)

**A. CROSS REFERENCE DATA SET (crossref.txt)**

<table>
<thead>
<tr>
<th>STATE</th>
<th>Two-digit FIPS code for state -- database KEY</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEGCODE</td>
<td>NASS Segment Identifier (SCRAMBLED) -- database KEY</td>
</tr>
<tr>
<td>MLRA</td>
<td>Major Land Resource Area (coded)</td>
</tr>
<tr>
<td>LRR</td>
<td>Land Resource Region (coded)</td>
</tr>
<tr>
<td>ECOREG</td>
<td>Omernik's Ecoregion (coded)</td>
</tr>
<tr>
<td>HUCR</td>
<td>USGS Hydrologic Region Code.</td>
</tr>
<tr>
<td>HUCSR</td>
<td>USGS Hydrologic Subregion Code.</td>
</tr>
</tbody>
</table>

**NOTE: The USGS 4-digit code can be obtained by concatenating Region and Subregion. Eg, Region 2, subregion 1 => 0201 is 4-digit HUC.

**B. LRR NAMES (lrrnames.txt)**

<table>
<thead>
<tr>
<th>LRR</th>
<th>Land Resource Region (coded)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LRRNAME</td>
<td>Name of Land Resource Region</td>
</tr>
</tbody>
</table>

**C. MLRA NAMES (mlranames.txt)**

<table>
<thead>
<tr>
<th>MLRA</th>
<th>Major Land Resource Area (coded)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLRANAME</td>
<td>Name of MLRA</td>
</tr>
</tbody>
</table>

**D. ECOREGION NAMES (econames.txt)**

<table>
<thead>
<tr>
<th>ECOREG</th>
<th>Omernik's Ecoregion (coded)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECONAME</td>
<td>Name of ecoregion</td>
</tr>
</tbody>
</table>
5. DATA ACQUISITION AND PROCESSING METHODS

5.1 Data Acquisition

5.1.1 Sampling Objective

N/A

5.1.2 Sample Collection Methods Summary

N/A

5.1.3 Sampling Start Date

N/A

5.1.4 Sampling End Date

N/A

5.1.5 Platform

N/A

5.1.6 Sampling Equipment

N/A

5.1.7 Manufacturer of Sampling Equipment

N/A.

5.1.8 Key Variables

The SEGCODE is a unique identifier given to each NASS secondary sample unit. It may be used with other EMAP Agricultural Lands data keyed by SEGMENT to aggregate data into regions. SEGCODE is scrambled from the original NASS SEGMENT.

5.1.9 Sampling Method Calibration

N/A

5.1.10 Sample Collection Quality Control

N/A

5.1.11 Sample Collection Method Reference

N/A

5.2 Data Preparation and Sample Processing

Not applicable
6. DATA MANIPULATIONS

6.1 Name of new or modified values

N/A

6.2 Data Manipulation Description

Not applicable.

6.3 Data Manipulation Examples

N/A

7. DATA DESCRIPTION

7.1 Description of Parameters

A. CROSS REFERENCE FILE (crossref.txt)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>SAS Name</th>
<th>Type</th>
<th>Format</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>STATE</td>
<td>NUM</td>
<td>I2</td>
<td></td>
<td>State (2 digit FIPS code)</td>
</tr>
<tr>
<td>SEGCODE</td>
<td>Num</td>
<td>I5</td>
<td></td>
<td>Segment Identifier (arbitrary number)</td>
</tr>
<tr>
<td>MLRA</td>
<td>Char</td>
<td>C4</td>
<td></td>
<td>Major Land Resource Area (coded)</td>
</tr>
<tr>
<td>LRR</td>
<td>Char</td>
<td>C1</td>
<td></td>
<td>Land Resource Region (coded)</td>
</tr>
<tr>
<td>ECOREG</td>
<td>Num</td>
<td>I2</td>
<td></td>
<td>Omernik's Ecoregion (coded)</td>
</tr>
<tr>
<td>HUCR</td>
<td>Num</td>
<td>I2</td>
<td></td>
<td>USGS Hydrologic Region</td>
</tr>
<tr>
<td>HUCSR</td>
<td>Num</td>
<td>I2</td>
<td></td>
<td>USGS Hydrologic Subregion</td>
</tr>
</tbody>
</table>

**NOTE: The USGS 4-digit code can be obtained by concatenating Region and Subregion. Eg, Region 2, subregion 1 => 0201 is 4-digit HUC.

STATE Two-digit FIPS code for state.

SEGCODE NASS segment identifier. This is the database key. It matches data for the corresponding segment in the JES public release data and the fall survey data (e.g., main9495.txt).

MLRA Major Land Resource Area. This is a finer regionalization of LRR's.

LRR Land Resource Region. LRRs were developed by the Natural Resources Conservation Service.

ECOREG Omernik's Ecoregion.

HUCR USGS Hydrologic Region Code.

HUCSR USGS Hydrologic Subregion Code.
B. LRR NAMES (lrrnames.txt)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Data</th>
<th>SAS Name</th>
<th>Type</th>
<th>Format</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>LRR</td>
<td></td>
<td>Char</td>
<td>C1</td>
<td></td>
<td>Land Resource Region</td>
</tr>
<tr>
<td>LRRNAME</td>
<td></td>
<td>Char</td>
<td>C20</td>
<td></td>
<td>Name of LRR</td>
</tr>
</tbody>
</table>

C. MLRA NAMES (mlranames.txt)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Data</th>
<th>SAS Name</th>
<th>Type</th>
<th>Format</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLRA</td>
<td></td>
<td>Char</td>
<td>C4</td>
<td></td>
<td>Major Land Resource Area</td>
</tr>
<tr>
<td>MLRANAME</td>
<td></td>
<td>Char</td>
<td>C20</td>
<td></td>
<td>Name of MLRA</td>
</tr>
</tbody>
</table>

D. ECOREGION NAMES (econames.txt)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Data</th>
<th>SAS Name</th>
<th>Type</th>
<th>Format</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECOREG</td>
<td></td>
<td>Omernik's Ecoregion (coded)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECONAME</td>
<td></td>
<td>Char</td>
<td>C20</td>
<td></td>
<td>Name of Ecoregion</td>
</tr>
</tbody>
</table>

7.1.6 Precision to which values are reported

7.1.7 Minimum value in data set

Not applicable

7.1.8 Maximum value in data set

Not applicable

7.2 Data Record Example

A. CROSS REFERENCE FILE (crossref.txt)

STATE, SEGCODE, MLRA, LRR, ECOREG, HUCR, HUCSR
10, 1, 153C, T, 63, 2, 6
10, 2, 153C, T, 63, 2, 4
10, 3, 153C, T, 63, 2, 4
10, 4, 153C, T, 63, 2, 6

B. LRR NAMES (lrrnames.txt)

LRR, LRRNAME
L, "LAKE STATES FRUIT, TRUCK, AND DAIRY REGION"
R, "NORTHEASTERN FORAGE AND FOREST REGION"

C. MLRA NAMES (mlranames.txt)

MLRA, MLRANAME
100, "Erie Fruit and Truck Area"
140, "Glaciated Allegany Plateau and Catskill Mountains"
D. ECOREGION NAMES (econames.txt)

ECOREG, ECONAME
61,"Erie/Ontario Lake Hills and Plain"
60,"Northern Appalachian Plateau and Uplands"

8. GEOGRAPHIC AND SPATIAL INFORMATION

8.1 Minimum Longitude
N/ A

8.2 Maximum Longitude
N/ A

8.3 Minimum Latitude
N/ A

8.4 Maximum Latitude
N/ A

8.5 Name of area or region
Mid Atlantic Region - DE, MD, NC, PA, VA, WV

9. QUALITY CONTROL AND QUALITY ASSURANCE

9.1 Data Quality Objectives
Not Applicable

9.2 Data Quality Assurance Procedures
*******

10. DATA ACCESS

10.1 Data Access Procedures
Data can be downloaded from the EMAP web site.

10.2 Data Access Restrictions
N/A

10.3 Data Access Contact Persons
N/A
10.4 Data Set Format

ASCII text

10.5 Information Concerning Anonymous FTP

N/A

10.6 Information Concerning WWW

Data can be downloaded from the EMAP web site.

10.7 EMAP CD-ROM Containing the Data Set

N/A

11. REFERENCES

Cotter, J. and J. Nealon. 1987. Area Frame Design for Agricultural Surveys. USDA, NASS, Research and Applications Division, Area Frame Section, Washington, DC.

12. TABLE OF ACRONYMS

AHHC - Annually harvested herbaceous crop
EMAP - Environmental Monitoring and Assessment Program
EPA - Environmental Protection Agency
HUC - Hydrologic Unit Code
JES - June Enumerative Survey
LRR - Land Resource Region
MAIA - MidAtlantic Integrated Assessment
MLRA - Major Land Resource Area
NASS - National Agricultural Statistics Service
USDA - United States Department of Agriculture
USGS - United States Geologic Survey

13. PERSONNEL INFORMATION

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