

Level-of-Effort Analysis for Conversion of Statistical Tables Published in the Statistical Abstract into HTML that Complies with Section 508 Accessibility Requirements

*for the
United States Bureau of the Census's
Statistical Compendia Branch*

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Executive Summary

On August 7, 1998, then-President Clinton signed into law the Rehabilitation Act Amendments of 1998. This Act covers access to federally funded technology-based programs and services, and requires access to electronic and information technology procured by the federal government be provided to persons with disabilities, to the extent that this access does not pose an “undue burden.” On December 21, 2000, the Architectural and Transportation Barriers Compliance Board (Access Board) issued final accessibility standards for electronic and information technology covered by Section 508 of the Rehabilitation Act Amendments of 1998 (Section 508). These standards speak to various means for disseminating information, including computers, software, and electronic office equipment. The law also provides a complaint process under which complaints concerning access to technology are to be investigated by the responsible federal agency.

The United States Bureau of the Census’ (Census Bureau) Statistical Compendia Branch regularly produces several popular statistical reports that are made available as Adobe Acrobat PDF files on the United States Bureau of the Census’ Web site at

<http://www.census.gov/statab/www/>. The product line includes the *Statistical Abstract of the United States (Statistical Abstract)*, and the *State and Metropolitan Area Data Book 1997-98*.

The Census Bureau contracted Computer & Hi-tech Management, Inc., (CHM) to conduct an assessment of these PDF files as regards Section 508 and their compliance with same, measured against the December 21, 2000, Final Rule published in the *Federal Register*, and paying particular attention to the Technical Standards published for Subpart B, § 1194.21 and § 1194.22, and Subpart C, § 1194.31.

CHM found that the PDF files presently residing on the Census Bureau’s Web site are inaccessible to persons who a) have partial visual impairment such that they lack visual acuity greater than 20/70 when corrected with glasses, but who are not fully impaired; and b) persons who are blind. Specifically:

1. PDF documents created with Adobe Acrobat version other than 5.0 do not provide a means for users to change the presentation of the document (*e.g.*, by selecting high-contrast color schemes), thereby reducing accessibility;
2. Assistive technologies (*i.e.*, any item, piece of equipment, or system, whether acquired commercially, modified, or customized, that is commonly used to increase, maintain, or improve functional capabilities of individuals with disabilities) are unable to properly translate text when that text is laid out in the document in columns or tabular form when those PDFs are created with a version of Adobe Acrobat other than 5.0; and
3. Versions of Adobe Acrobat Reader other than 5.0 cannot make non-text elements (*e.g.*, graphics, graphs, charts and complex tables) available to assistive technologies.

Further, CHM assessed that the versions of Adobe’s Acrobat and Acrobat Reader now marketed as compliant with Section 508 are, in fact, not fully compliant. Specifically:

1. Adobe Acrobat 5.0 does not provide alternate keyboard access for all of its functions, *e.g.*, freehand drawing tools and hypertext creation;
2. Neither Acrobat 5.0 nor Acrobat Reader 5.0 provide an on-screen indication of focus or on-screen focus tracking when used on a non-Windows-based PC;
3. Neither Acrobat 5.0 nor Acrobat Reader 5.0 make information about user interface elements

available to assistive technologies when used on a non-Windows-based PC;

4. Neither Acrobat 5.0 nor Acrobat Reader 5.0 make the attributes of text contained in a PDF available to assistive technologies, although Adobe provides on-line conversion services;
5. Acrobat Reader 5.0 does not provide accessibility to electronic forms when a user attempts to use a PDF by means of a text-to-voice screen reader on a non-Windows-based PC;
6. Users are unable to provide text descriptions to non-text elements when creating PDF documents using Acrobat 5.0 on a non-Windows-based PC;
7. JavaScript information identified with functional text cannot be passed to assistive technologies in Acrobat 5.0; and
8. Users utilizing assistive technologies are unable to submit electronic PDF forms when that forms resides on the local or client machine.

Finally, CHM recommended that the Census Bureau pursue one of three strategies in meeting the compliance requirements of Section 508 as regards the PDFs published by the Statistical Compendia Branch:

1. The Census Branch should use Adobe Acrobat 5.0, along with the various accessibility-enhancing plug-ins offered by Adobe Systems, to increase the accessibility of its PDFs;
2. The Census Bureau should create a mechanism by which persons with disabilities can receive copies of the material contained in the PDF by way of equivalent alternate formats;
3. The Census Bureau should provide alternative pages written in HTML 4.0x that communicates the data contained in the PDFs and complies fully with Section 508 accessibility requirements; or
4. The Census Bureau should provide Web content written using XML that communicates the data contained in the PDFs and complies fully with Section 508 accessibility requirements.

This paper assesses the level-of-effort required to pursue (3). HTML 4.0x includes an expanded <TABLE> tagset that provides greater accessibility to tabular data for users with assistive technologies. Because of the complex nature of the tables published in the *Statistical Abstract* (that is, the large majority of the published tables utilize spanning column and row headers that organize the data into parent-child hierarchal metarelationsips), HTML coding for accessibility must utilize these new <TABLE> tagset attributes.

At present, there is no method for automatically converting any of the document types currently produced (*i.e.*, ASCII files, Postscript files, PDF files, Microsoft Excel files, and Lotus Notes spreadsheet files) by the Statistical Compendia Branch to accessible, HTML 4.0x conformant Web pages. As such, this conversion will require “hand-coding” by a Census Bureau employee or contractor.

CHM conservatively estimates that conversion of the 1,391 statistical tables will require 1,855 manhours, assuming the converter is reasonably familiar with HTML 4.0x coding conventions, Section 508 accessibility requirements, and Census data products. CHM also recommends that the HTML-converted tables be subject to review before publication, and estimates that such review will require 347 manhours. Taken together, and allowing for overhead hours, CHM assesses that this activity will require 2544 total manhours.

This hand-coding cannot be easily incorporated into the Statistical Compendia Branch’s current workflow for creating the annual *Statistical Abstract*. Present processes do not include Web publication, short of preparing Adobe PDF documents from Postscript files that are otherwise used to produce the print version of the annual publication. Furthermore, given that the workflow for the 2001 edition for the *Statistical Abstract* has concluded (and, in fact, that the Statistical Compendia

Branch is presently gathering data for the 2002 edition), this process will not be at all incorporated into the publication workflow, but rather will occur as an appendage to the publication process.

Table of Contents

1. DOCUMENT SCOPE	1
2. INTRODUCTION	1
3. CURRENT STRATEGIES FOR MAKING STATISTICAL TABLES COMPLY WITH SECTION 508	2
3.1. Publishing Statistical Tables as PDFs	2
3.2. Publishing Statistical Tables in Proprietary Desktop Software Formats	3
3.3 Publishing Statistical Tables in ASCII text	3
3.4 The Approach on Other Federal Web Sites	3
3.4.1 The Bureau of Labor Statistics	3
3.4.2 The Department of Housing and Urban Development	4
3.4.3 The Board of Governors of the Federal Reserve System	4
4. PUBLISHING THE STATISTICAL TABLES AS HTML 4.0x	4
4.1 Putting the HTML 4.0x <TABLE> Tagset in Practice for the <i>Statistical Abstract</i>	4
4.1.1 Two-dimensional tables using the “scope” attribute	5
4.1.2 N-dimensional tables using the “axis” attribute	8
5. LEVEL-OF-EFFORT REQUIRED TO PRODUCE HTML STATISTICAL TABLES	10
5.1. Incorporating Accessible Internet Publication into the Statistical Compendia Branch’s Current Workflow	10
5.2. Estimation of Time and Resources	11
5.2.1. Basis of Estimation	12

1. Document Scope

The Statistical Compendia Branch of the United States Census Bureau produces statistical reference documents that are primarily tabular for placement on the Bureau's web site and on CD-ROM. These data products need to meet the standards of accessibility under Section 508 of the Rehabilitation Act of 1973, as amended (Section 508) that are effective as of June 21, 2001.

This document outlines the level-of-effort required to create HTML versions of the various tables maintained on the Statistical Compendia Branch's Web site,

<http://www.census.gov/statab/www/> using HTML 4.0x coding conventions recommended by the Worldwide Web Consortium (W3C) that allow non-visual user agents and assistive technologies to access the data contained therein.

2. Introduction

On August 7, 1998, then-President Clinton signed into law the Rehabilitation Act Amendments of 1998. This Act covers access to federally funded programs and services, and requires access to electronic and information technology procured by the federal government be provided to persons with disabilities, to the extent that this access does not pose an "undue burden." On December 21, 2000, the Architectural and Transportation Barriers Compliance Board (Accessibility Board) issued final accessibility standards for electronic and information technology covered by Section 508 of the Rehabilitation Act Amendments of 1998 (Section 508). These standards speak to various means for disseminating information, including computers, software, and electronic office equipment. The law also provides a complaint process under which complaints concerning access to technology are to be investigated by the responsible federal agency.

The Statistical Compendia Branch regularly produces several popular statistical reports that are made available as Adobe Acrobat PDF files on the United States Bureau of the Census' Web site at

<http://www.census.gov/statab/www/>. The product line includes the *Statistical Abstract of the United States*, the *State and County Area Data Book*, and the *County and City Data Book*.

In keeping with Section 508, all Census Bureau Web pages, inclusive of PDF files, published after July 21, 2000, must be made accessible to persons with disabilities (*i.e.*, visually-impaired and blind persons). Additionally, the United States Department of Commerce has set for itself and all sub-cabinet-level agencies the extra-regulatory goal of making *all* of its Web data products fully accessible to persons with disabilities. The Section 508 accessibility requirements for these documents are two-fold:

1. The documents must be accessible to persons with visual impairments, *i.e.*, those who are "hard of seeing," who are colorblind, or who have limited contrast-perception, etc.; and
2. The documents must be accessible to persons who are blind or who have sufficient visual impairment such that they use assistive devices, *e.g.*, screen magnification software, text-to-voice screen readers, and refreshable Braille displays, when utilizing the Web.

Additionally, Section 508 requires federal agencies ensure accessibility internally to federal employee as well as to the general public. Any technology procured for the purposes of making the subject Adobe Acrobat PDF files compliant with Section 508 must, in turn, also meet the accessibility standards laid out therein. In this instance, this requirement means that Adobe Acrobat 5.0, if procured by the Census Bureau to be used by Census Bureau employee, must be a Section 508 compliant software package.

Adobe currently markets an updated version of its PDF file viewer and PDF file maker, Adobe Acrobat Reader 5.0 and Adobe Acrobat 5.0, which provide a number of new capabilities that improve the accessibility of both Adobe Acrobat software and the information communicated in Adobe PDF files.

3. Current Strategies for Making Statistical Tables Comply with Section 508

The Statistical Compendia Branch currently publishes their statistical tables online in a number of file formats: as Adobe Acrobat PDFs, as Microsoft Excel spreadsheets, and as Lotus Notes Workbook documents.

3.1. Publishing Statistical Tables as PDFs

The Statistical Compendia Branch currently publishes tables online as Adobe Acrobat PDFs. Adobe Systems markets its Adobe Acrobat 5.0 as being capable of publishing PDFs that are accessible within the meaning of Section 508, and claims its Adobe Acrobat 5.0 as a solution to making historical PDFs accessible within the context and meaning of Section 508. Adobe suggests that this conversion can be achieved in either one of two ways:

1. The file can be opened in the latest version of the originating application and converted to an accessible PDF document using Acrobat Distiller with Adobe Acrobat 5.0; or
2. The file can be opened in Adobe Acrobat 5.0 and converted to an accessible PDF file using Adobe's "Make Accessible" plug-in.

Because the "Make Accessible" plug-in may have difficulty converting pages with very complex layouts, such that documents lose their logical structure, this conversion effort can involve a number of additional processes, including:

1. The addition of Adobe Acrobat "tags" to allow logical structure information to be incorporated into the PDF files, and bookmarks to provide an overview of document contents; and
2. The generation of documents in file formats that are usable by assistive devices, *e.g.*, HTML, XML, or ASCII text, in cases where Adobe's accessibility features are inadequate for providing usable documents to persons with disabilities.

The PDFs published by the Statistical Compendia Branch, however, present special circumstances that frustrate this process.

First, the originating application's source files are in a proprietary Postscript file format utilized by XY Enterprises. XY Enterprises and Adobe utilize different Postscript extensions that are not shared across the two platforms.

Second, in order for assistive technologies to interpret tables, technologies have been developed to read cell-by-cell; Census Bureau tables are so complex, however, that the traditional two-dimensional structure of tables is disrupted. Subpart B, § 1194.22 (g) and 11994.22 (h) of Section 508 state that when information is displayed in a table format, "[r]ow and column headers shall be identified..." and "[m]arkup shall be used to associate data cells and header cells...." This allows users depending upon assistive technologies, specifically text-to-voice

screen readers, to non-visually navigate the table's data. However, this requirement also contemplates that the subject table will be coded in HTML, XML, or some other standard Web language.

Adobe Acrobat allows content authors some limited ability to "mark-up" individual cells in a table. Adobe Acrobat also allows content authors some limited ability to "mark-up" individual cells in a table. The Adobe PDF 1.4 specification enables content author to preserve markup in tables in an Adobe PDF file, including table rows, header cells and data cells. Acrobat 5.0 for Windows enables users to create tagged Adobe PDF files automatically from Microsoft Office 2000 for Windows applications. If the author defines table rows, header cells and data cells in the application, Acrobat 5.0 will automatically include that information in the PDF file. However, Adobe does not provide this support for *spanning* table headers, and has no provide support for defining complex parent-child hierarchal relationships in column headers.

Further, because of the complex nature of the tables published by the Statistical Compendia Branch, Adobe often treats these tables as non-text elements, akin to graphics. In another application, say where the non-text graphics were *in fact* graphics, Adobe would allow the content creator to describe those non-text elements such that the information related by them would be accessible to assistive devices. In this case, where tabular text is treated as a non-text item, attempts to describe this table would involve republishing the table's information as descriptive prose text.

3.2. Publishing Statistical Tables in Proprietary Desktop Software Formats

The Statistical Compendia Branch also makes statistical tables available as Microsoft Excel spreadsheet documents and Lotus Notes Workbook documents. While both of these file formats offer end users a certain utility (by, for instance, allowing users to download data to their desktops that can then be manipulated or incorporated into other documents), they are an incomplete solution to the challenge of offering visually disabled end users accessibility to the tables' data. Again, the complex nature of the tables is the culprit: assistive technologies interpret tables on a cell-by-cell basis, and Census Bureau tables often disrupt the simple two-dimensional structure required by these rendering.

However, while proprietary desktop products often include software code that allows user with assistive technology to access content (for instance, Microsoft publishes its MSAA that provides metacontent to third-party user agents that increase the accessibility of Microsoft-resident content), experience with proprietary software packages opened from within an Internet browser window indicate that these accessibility functions are often unavailable.

3.3. Publishing Statistical Tables in ASCII text

The Statistical Compendia Branch can also make statistical tables available to end users as ASCII format documents. As in the case of providing the data in proprietary desktop software formats, this option provides end users with the ability to download data to their desktops that can then be manipulated or incorporated into other documents. Similarly, this option provides the same limitations: the complex nature of the tables breaks the assistive technologies' convention of interpreting tables on a cell-by-cell basis.

3.4. The Approach on Other Federal Web Sites

Other federal Web sites have taken a variety of approaches to the display of tabular data on the Internet. To date, federal agency's compliance with Section 508 requirements pertaining to tables is uneven, at best, with little standardization across government Internet sites, and considerable variation even within agencies. A representative sampling of three such federal Web sites is illustrative.

3.4.1. The Bureau of Labor Statistics

The Bureau of Labor Statistics (BLS) publishes tabular information as HTML using the `<PRE>` tag, as ASCII text documents, and as PDFs on its Web site,

www.bls.org. While this approach preserves presentation styles (thereby increasing data accessibility to *sighted* users by adhering to visual data presentation rules), it does not offer accessibility to persons with visual disabilities. The HTML-published tables do not take advantage of the attributes specified in the HTML 4.0x `<TABLE>` tagset designed to increase accessibility of meta-information to user of assistive technologies.

3.4.2. The Department of Housing and Urban Development

The Department of Housing and Urban Development (HUD) publishes statistical data related to the nation's housing market and conditions on its Web site,

www.huduser.org. These data and supporting documentation are published in a variety of file formats, including SAS, ASCII, PDFs, and Microsoft Word and Excel. HUD also makes a number of executable files available for download on its site, allowing users to download data into desktop programs for viewing and manipulation.

3.4.3. The Board of Governors of the Federal Reserve System

The Board of Governors of the Federal Reserve System (Federal Reserve) publishes a variety of data related to the nation's banking system and economic condition on its Web site,

www.federalreserve.gov. These data are released daily, weekly, monthly, and yearly. The Federal Reserve has an uneven conformance to Section 508: While in some instance, the agency takes advantage of HTML 4.0x `<TABLE>` tagset attributes to provide users of assistive devices access to tabular data, in others tables are published in PDFs or as HTML marked-up using the `<PRE>` tag. The Federal Reserve also published geospatial and graphical data, and here to its application is uneven: in some instances, thematic maps, charts, and graphs are described in great detail using the `<ALT>` tag, and users are provided a link to text-based descriptions of the information, while in other instances no such facility is provided.

4. Publishing the Statistical Tables as HTML 4.0x

The W3C has published a number of `<TABLE>` tag attributes that increase the accessibility of tables to end users using assistive technologies. These include:

- P **The “summary” attribute** provides content creators to summarize the data contained in a table. This information is not presented to users with visual agents like Microsoft Internet Explorer.
- P **The "scope" attribute** associates all of the data cells in a row or column with a header cell.
- P Unlike using the "scope" attribute, using **the "id" and "headers" attributes** requires that every data cell in a table include special attributes for association with a column and row header.
- P Similar to the “id” and “header” attribute, HTML 4.0x includes **the “axis” attribute**, especially useful in associating data cells with spanning row or column headers, both of which are commonly found in Census Bureau statistical tables. Unfortunately, the “scope” attribute cannot be used together with the “axis” attribute.

In addition the <TABLE> tagset includes <THEAD> and <TFOOT>, two tags that allow the content creators to separate table structure information from table data information. The <CAPTION> tag provides end users with a description of the table as a table title.

4.1. Putting the HTML 4.0x <TABLE> Tagset in Practice for the *Statistical Abstract*

Tables published by the Statistical Compendia Branch may be divided into two types:

- P Two-dimensional tables have a single-level x and y axis. That is, there are no hierarchal sub-levels or parent-child relationships for data column and row headers.
- P N -dimensional tables may have several hierarchal levels on either the tables x or y axis, or on both axis. This table type is commonly used by the Statistical Compendia branch when publishing data (a spot-check of one representative chapter in the 2001 *Statistical Abstract*, for instance, showed that 64 of 66 tables utilized more than two data dimensions).

The HTML 4.0x<TABLE> tagset provides attributes for describing data presented in both table types.

4.1.1. Two-dimensional tables using the “scope” attribute

Table 2 (pictured below at Figure 1) utilizes a two-dimensional structure to describe the data (*i.e.*, Relative Price Levels for Consumer Goods by Metropolitan Area). The screen shot shows the results of coding the table using the HTML 4.0x recommended tags and attributes, specifically the “scope” and “summary” attributes specified in the HTML 4.0x specification. The full HTML code for the table is at Appendix I.

No. 695. Cost of Living Index—Selected Metropolitan Areas: Fourth Quarter 2000 - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites History

Address C:\WINDOWS\Desktop\costofliving.htm

No. 695. Cost of Living Index—Selected Metropolitan Areas: Fourth Quarter 2000

[This table measures relative price levels for consumer goods and services in participating areas for a mid-management standard of living. The nationwide average equals 100, and each index is read as a percent of the national average. The index does not measure inflation, but compares prices at a single point in time. Excludes taxes. Metropolitan areas as defined by the Office of Management and Budget. For definitions and components of MSAs, see source for details]

Metropolitan Areas (MA)	Composite index (100)	Grocery items (16)	Housing (28)	Utilities (8)	Transportation (1)
Anniston, AL MSA	93.1	94.8	91.2	99.6	88
Birmingham, AL MSA	94.7	90.5	86.4	108.0	97
Decatur, AL MSA	93.1	94.6	89.5	90.0	100
Dothan, AL MSA	91.6	97.3	80.4	83.8	90
Florence, AL MSA	89.8	90.3	82.0	92.1	89
Huntsville, AL MSA	96.1	98.0	87.4	85.1	103
Mobile, AL MSA	96.4	96.5	92.3	105.7	103
Montgomery, AL MSA	97.5	95.5	93.8	108.4	107
Tuscaloosa, AL MSA	99.4	95.4	95.3	95.5	98
Anchorage, AK MSA	122.9	124.9	132.0	82.8	109
Nonmetropolitan areas:					
Fairbanks, AK	120.1	118.4	109.2	154.1	113
Kodiak, AK	129.1	139.4	128.4	152.6	114
Flagstaff, AZ-UT MSA	108.3	104.3	122.0	93.1	116
Las Vegas, NV-AZ MSA:					
Lake Havasu City, AZ	99.2	102.9	99.9	109.1	111
Phoenix-Mesa, AZ MSA:					
Phoenix, AZ	102.5	104.9	100.9	101.2	109
Tucson, AZ MSA	99.6	108.7	99.8	111.9	102
Yuma, AZ	95.4	98.8	86.1	147.1	107
Fayetteville-Springdale-Rogers, AR MSA	89.7	86.3	87.7	89.2	93
Fort Smith, AR-OK MSA	86.9	86.6	77.4	88.2	90
Jonesboro, AR MSA	87.0	91.3	79.6	93.5	89
Little Rock-North Little Rock, AR MSA	88.0	89.9	81.4	98.0	83
Fresno, CA MSA	106.0	107.3	95.6	125.0	113

Done My Computer

Figure 1: Table using the "scope" and "summary" attributes.

First, the HTML code takes advantage of the recommended "summary" attributes to describe the table:

```
...<TABLE border=1 bordercolor="white" cellspacing=0 cellpadding=0 width="100%"
summary="This table measures relative price levels for consumer goods and services in
participating areas for a mid-management standard of living. The nationwide average
equals 100, and each index is read as a percent of the national average. The index does
not measure inflation, but compares prices at a single point in time. Excludes taxes.
Metropolitan areas as defined by the Office of Management and Budget. For definitions
and components of MSAs, see source for details" caption="No. 695. Cost of Living
Index—Selected Metropolitan Areas: Fourth Quarter 2000">...
```

Users with assistive technologies can use this information to learn the subject matter of the table.

The “scope” attribute (here used in conjunction with the <th> tag) establishes the column headers on the table,

```
...<tr>
  <th scope="col" valign=top class="tablehead" nowrap> Metropolitan Areas (MA)
  </th>
  <th scope="col" valign=top class="tablehead" nowrap> Composite index (100
  ) </th>
  <th scope="col" valign=top class="tablehead" nowrap> Grocery items (16 ) </th>
  <th scope="col" valign=top class="tablehead" nowrap> Housing (28 ) </th>
  <th scope="col" valign=top class="tablehead" nowrap> Utilities (8 ) </th>
  <th scope="col" valign=top class="tablehead" nowrap> Transportation (10 )
  </th>
  <th scope="col" valign=top class="tablehead" nowrap> Health care (5 ) </th>
  <th scope="col" valign=top class="tableheadright" nowrap> Misc. goods and
  services (33 ) </th>...
```

and allows assistive technologies to associate that metadata with individual data cells within the body of the table:

```
...<tr>
  <td scope="row" wrap="nowrap" valign=top class="metro" nowrap> Anniston, AL MSA
  </td>
  <td valign=top class="data"> 93.1 </td>
  <td valign=top class="data"> 94.8 </td>
  <td valign=top class="data"> 91.2 </td>
  <td valign=top class="data"> 99.6 </td>
  <td valign=top class="data"> 88.3 </td>
  <td valign=top class="data"> 81.3 </td>
  <td valign=top class="data"> 95.6 </td>
</tr>...
```

Users with assistive technologies would experience the data cell highlighted in Figure 2 as “Composite Index 93.1”

No. 695. Cost of Living Index—Selected Metropolitan Areas: Fourth Quarter 2000 - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address C:\WINDOWS\Desktop\costofliving.htm

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[This table measures relative price levels for consumer goods and services in participating areas for a mid-management standard of living. The nationwide average equals 100, and each index is read as a percent of the national average. The index does not measure inflation, but compares prices at a single point in time. Excludes taxes. Metropolitan areas as defined by the Office of Management and Budget. For definitions and components of MSAs, see source for details.]

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Florence, AL MSA	89.8	90.3	82.0	92.1	89
Huntsville, AL MSA	96.1	98.0	87.4	85.1	103
Mobile, AL MSA	96.4	96.5	92.3	105.7	103
Montgomery, AL MSA	97.5	95.5	93.8	108.4	107
Tuscaloosa, AL MSA	99.4	95.4	95.3	95.5	98
Anchorage, AK MSA	122.9	124.9	132.0	82.8	109
Nonmetropolitan areas:					
Fairbanks, AK	120.1	118.4	109.2	154.1	113
Kodiak, AK	129.1	139.4	128.4	152.6	114
Flagstaff, AZ-UT MSA	108.3	104.3	122.0	93.1	116
Las Vegas, NV-AZ MSA:					
Lake Havasu City, AZ	99.2	102.9	99.9	109.1	111
Phoenix-Mesa, AZ MSA:					
Phoenix, AZ	102.5	104.9	100.9	101.2	109
Tucson, AZ MSA	99.6	108.7	99.8	111.9	102
Yuma, AZ	95.4	98.8	86.1	147.1	107
Fayetteville-Springdale-Rogers, AR MSA	89.7	86.3	87.7	89.2	93
Fort Smith, AR-OK MSA	86.9	86.6	77.4	88.2	90
Jonesboro, AR MSA	87.0	91.3	79.6	93.5	89
Little Rock-North Little Rock, AR MSA	88.0	89.9	81.4	98.0	83
Fresno, CA MSA	106.0	107.3	95.6	125.0	113

Done My Computer

Figure 2: Screen shot of table

4.1.2. N-dimensional tables using the “axis” attribute

Table 2 (at Figure 3, below) uses has a four-dimensional table structure, with two hierarchal data levels on the x axis, and up to three data levels on the y axis, and up to three data levels on the z axis. This table type comprises the majority of the table published in the *Statistical Abstract*. In this instance, the “summary,” “axis,” “headers,” and “id” attributes specified in the HTML 4.0x specification are used to increase accessibility to disable persons using assistive technologies. The full HTML code for the table is at Appendix II.

File Edit View Favorites Tools Help
 Back Forward Stop Search Favorites History
 Address file:///C:/WINDOWS/Desktop/weeklycost.htm#footnote

No. 705. Weekly Food Cost by Type of Family: 1990 and 2000

[In dollars. Assumes that food for all meals and snacks is purchased at the store and prepared at home. See source for details on estimation procedures]

Family type	December 1990				December 2000			
	Thrifty plan	Lowcost plan	Moderate cost plan	Liberal plan	Thrifty plan	Low cost plan	Moderate cost plan	Liberal plan
FAMILIES								
Family of two:								
20-50 years	48.10	60.60	74.70	92.70	60.60	78.20	96.40	120.00
51 years and over	45.60	58.30	71.80	85.80	57.60	75.20	93.10	111.50
Family of four:								
Couple, 20-50 years and children—								
1-2 and 3-5 years	70.10	87.30	106.60	131.00	88.40	112.60	137.60	169.40
6-8 and 9-11 years	80.10	102.60	128.30	154.40	101.90	132.60	165.30	199.20
INDIVIDUALS ¹								
Child:								
1-2 years	12.70	15.40	18.00	21.80	16.10	19.80	23.20	28.20
3-5 years	13.70	16.80	20.70	24.90	17.30	21.70	26.80	32.10
6-8 years	16.60	22.20	27.90	32.50	21.50	28.80	35.90	41.70
9-11 years	19.80	25.30	32.50	37.60	25.30	32.70	41.80	48.40
Male:								
12-14 years	20.60	28.60	35.70	42.00	26.20	36.90	45.70	53.80
15-19 years	21.40	29.60	36.80	42.60	27.00	38.00	47.40	54.70
20-50 years	22.90	29.30	36.60	44.30	28.90	37.90	47.20	57.20
51 years and over	20.90	27.90	34.30	41.10	26.40	36.10	44.50	53.40
Female:								
12-19 years	20.80	24.80	30.10	36.30	26.30	31.80	38.60	46.70
20-50 years	20.80	25.80	31.30	40.00	26.20	33.20	40.40	51.90

Figure 3: Screen shot of table using the “summary,” “axis,” “headers,” and “id” attributes

As in Table 1 (Figure 1), the “summary” attribute provides information about the table to persons using assistive technologies.

```
...<table border=1 bordercolor="white" cellspacing=0 cellpadding=0 caption="No. 705. Weekly Food Cost by Type of Family: 1990 and 2000" summary="This table describes weekly food costs by type of family in 1990 and 2000. The data assumes that all meals and snacks are purchased at a store and prepared at home.">...
```

The “id” attribute is used to assign a unique identifier to each column and row header cell in the table:

```
...<tr>
  <td rowspan=2 valign=middle class="tablehead" align="center" nowrap>Family
  type</td>
  <td id="z1" colspan=4 valign=top class="tablehead" align="center" nowrap>December
  1990</td>
  <td id="z2" colspan=4 valign=top class="tableheadright" align="center"
  nowrap>December
  2000</td>
</tr>...
```

The “axis” attribute associates a child column or row header with its parent header:

```
...<tr>
  <td id="a1" axis="December 1990" valign=top class="subhead">Thrifty plan</td>
  <td id="a2" axis="December 1990" valign=top class="subhead">Lowcost plan</td>
  <td id="a3" axis="December 1990" valign=top class="subhead">Moderate cost plan</td>
  <td id="a4" axis="December 1990" valign=top class="subheadright">Liberal plan</td>
  <td id="a5" axis="December 2000" valign=top class="subhead">Thrifty plan</td>
  <td id="a6" axis="December 2000" valign=top class="subhead">Low cost plan</td>
</tr>
```

```

<td id="a7" axis="December 2000" valign=top class="subhead">Moderate cost plan</td>
<td id="a8" axis="December 2000" valign=top class="subhead">Liberal plan</td>
</tr>

```

In this way, the table cell A1, “Thrifty Plan,” is associated with its parent header row, “December 1990.” Users using assistive technologies to access the data in the table would experience all data cells in the row associated with these headers as, “December 1990, Thrifty Plan, [data].”

This “axis” metadata then cascades down to individual data cells, allowing the header metadata to resolve to individual datum:

```

<td headers="r3,a1" valign=top class="data" nowrap> 45.60 </td>

```

The <td> above, then, would be experienced by persons using assistive technologies as “Families, Families of Two, Fifty-one Years and Older, December 1990, Thrifty Plan, 45.60.”

No. 705. Weekly Food Cost by Type of Family: 1990 and 2000

[In dollars. Assumes that food for all meals and snacks is purchased at the store and prepared at home. See source for details on estimation procedures]

Family type	December 1990				December 2000			
	Thrifty plan	Lowcost plan	Moderate cost plan	Liberal plan	Thrifty plan	Low cost plan	Moderate cost plan	Liberal plan
FAMILIES								
Family of two:								
20-50 years	48.10	60.60	74.70	92.70	60.60	78.20	96.40	120.00
51 years and over	45.60	58.30	71.80	85.80	57.60	75.20	93.10	111.50
Family of four:								
Couple, 20-50 years and children—								
1-2 and 3-5 years	70.10	87.30	106.60	131.00	88.40	112.60	137.60	169.40
6-8 and 9-11 years	80.10	102.60	128.30	154.40	101.90	132.60	165.30	199.20
INDIVIDUALS ¹								
Child:								
1-2 years	12.70	15.40	18.00	21.80	16.10	19.80	23.20	28.20
3-5 years	13.70	16.80	20.70	24.90	17.30	21.70	26.80	32.10
6-8 years	16.60	22.20	27.90	32.50	21.50	28.80	35.90	41.70
9-11 years	19.80	25.30	32.50	37.60	25.30	32.70	41.80	48.40
Male:								
12-14 years	20.60	28.60	35.70	42.00	26.20	36.90	45.70	53.80
15-19 years	21.40	29.60	36.80	42.60	27.00	38.00	47.40	54.70
20-50 years	22.90	29.30	36.60	44.30	28.90	37.90	47.20	57.20
51 years and over	20.90	27.90	34.30	41.10	26.40	36.10	44.50	53.40
Female:								
12-19 years	20.80	24.80	30.10	36.30	26.30	31.80	38.60	46.70
20-50 years	20.80	25.80	31.30	40.00	26.20	33.20	40.40	51.90

Figure 4: Screen shot of table

5. Level-of-effort Required to Produce HTML Statistical Tables

5.1. Incorporating Accessible Internet Publication into the Statistical Compendia Branch’s Current Workflow

The Statistical Compendia Branch’s legacy content manufacturing process is based largely on a publication-for-print workflow that incorporates Internet and electronic publication incidentally. Presently, the Internet and electronic publication extends from processes most suited to

publication of the annual *Statistical Abstract* editions. Specifically, the PDFs currently deployed online are repurposed Postscript files, those Postscript files being used to produce the printed publication; while the various electronic file formats produced for Internet and electronic media publication (*i.e.*, Microsoft Excel, Lotus Notes, and ASCII files), are repurposed from their earlier role as data gathering, storage and validation files. Figure 1 below offers a graphic demonstration of this content manufacturing workflow.

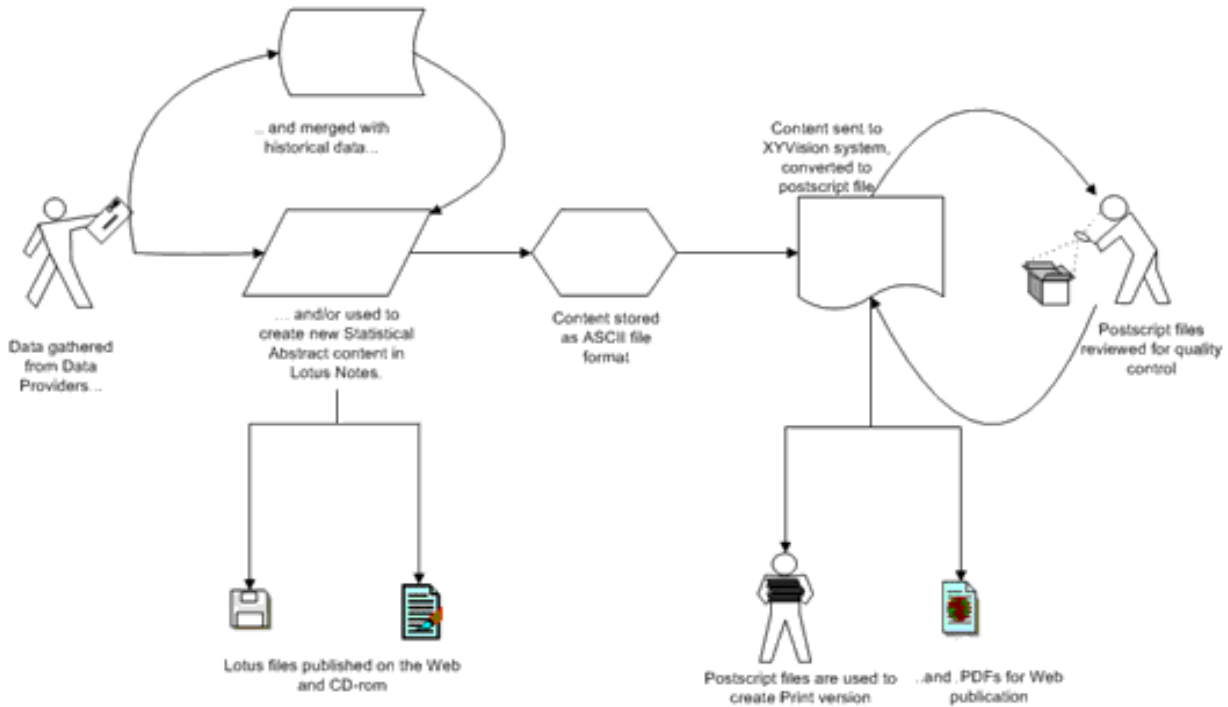


Figure 5: Current content manufacturing workflow for the *Statistical Abstract*

While there are methods for automatically publishing non-HTML files on the Internet (by either converting the files to HTML; publishing the files in a proprietary format that can be opened in a browser window or downloaded to a client machine; or publishing in a file format widely recognized on the Web, such as Adobe’s PDF file format), none of these automatic processes currently publish HTML documents that include the full HTML 4.0x <TABLE> tagset required to achieve accessibility.

5.2. Estimation of Time and Resources

CHM conducted a review of the tables published in the 2001 *Statistical Abstract*, determining that most tables were of the *n*-dimensional variety discussed above. CHM selected a two-dimensional and an *n*-dimensional table and converted the files to accessible Web tables using HTML 4.0x coding specifications. Based on these activities, CHM was able to make an estimate of time, resources and level-of-effort required to complete the conversion of the 2001 *Statistical Abstract* to Web pages conforming with Section 508.

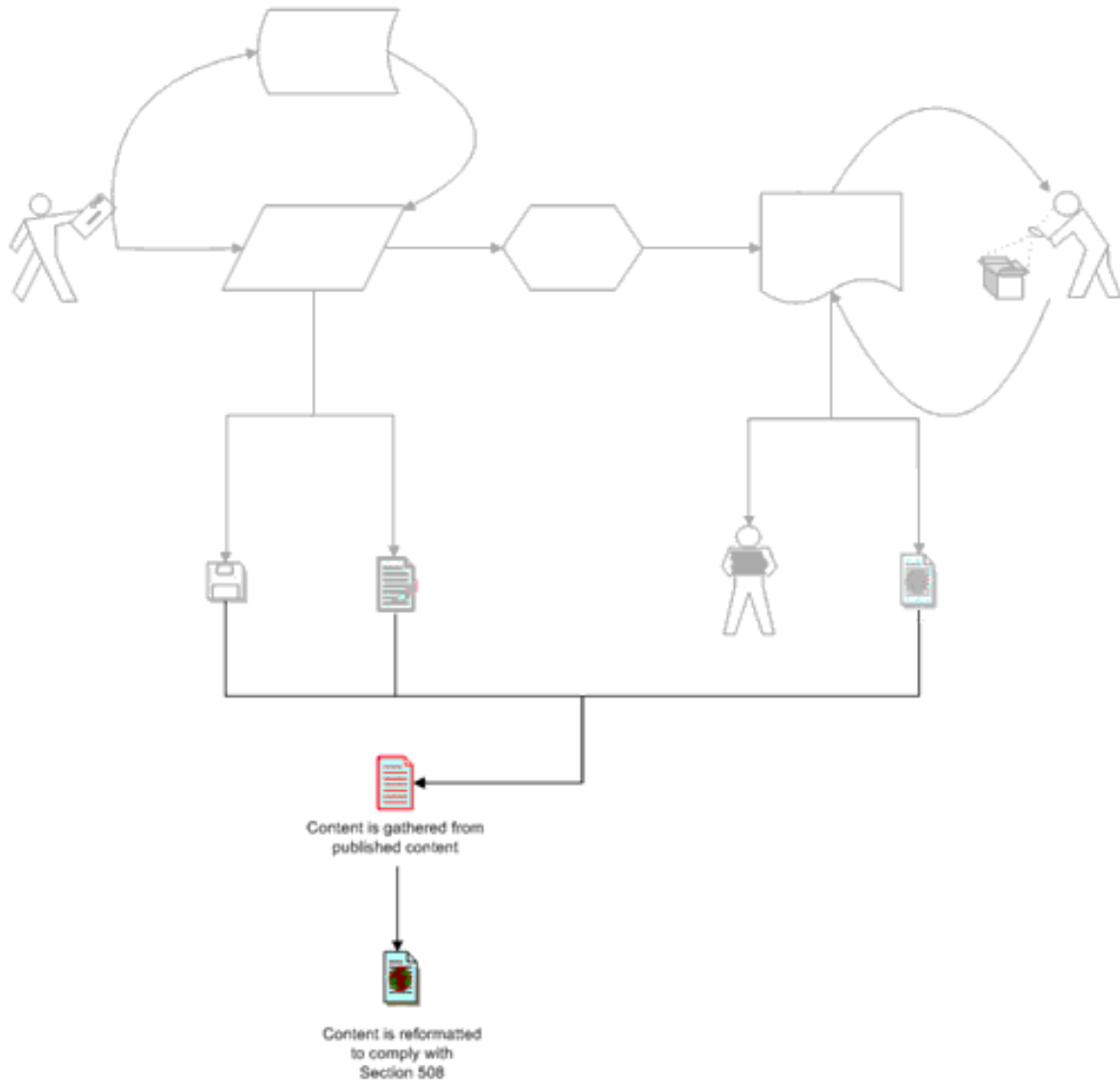


Figure 6: Current content manufacturing workflow for the *Statistical Abstract* extended to include accessible Web publication

CHM conservatively estimates that conversion of the 1,391 statistical tables will require 1,855 manhours, assuming the converter is reasonably familiar with HTML 4.0x coding conventions, Section 508 accessibility requirements, and Census data products. CHM also recommends that the HTML-converted tables be subject to review before publication, and estimates that such review will require 347 manhours. Taken together, and allowing for overhead hours, CHM assesses that this activity will require 2544 total manhours.

5.2.1. Basis of Estimation

CHM chose six tables published in the 2001 *Statistical Abstract* and converted these tables to assistive-device-accessible tables using the HTML 4.0x <TABLE> tagset. As demonstrated in Figure 6 above, publication of Section 508 conformant Web content will require gathering the data from already published content, and reformatting that content to include the HTML 4.0x <TABLE> tagset attributes and tags used by assistive technologies to communicate data and metadata to disabled users. Based on CHM's experience, it is assumed that a programmer experienced with both Census data and HTML 4.0x coding conventions would be able to convert six typical tables per day; as such, conversion will require 1855 manhours.

(8-hour day / 6 tables per day) * 1391 tables = 1854.6 coding manhours

CHM further recommends that the HTML-converted tables be subject to review before publication, both to validate the code and content. CHM estimates that an code reviewer familiar both with Census data and HTML 4.0x coding conventions will be able to review a typical HTML table in 15 minutes. As such, said review will require 347 manhours.

1391 tables reviewed * .25 hour = 347.75 review manhours

CHM finally assumes that an additional 20% percent of that time will be taken by “overhead” time (*e.g.*, holidays, sick leave, vacations, meetings, time to correct coding errors, and other “non-coding” time), a standard time management measure. As such, CHM recommends that a total 2544 manhours be resourced for conversion.

1855.6 coding manhours + 347.75 review manhours = 2203.35 production manhours

2203.35 manhours + (20% of 2203.35 manhours) = 2544.02 total manhours

Appendix I—Sample Code

No. 695. Cost of Living Index—Selected Metropolitan Areas: Fourth Quarter 2000 - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address C:\WINDOWS\Desktop\costofliving.htm

No. 695. Cost of Living Index—Selected Metropolitan Areas: Fourth Quarter 2000

[This table measures relative price levels for consumer goods and services in participating areas for a mid-management standard of living. The nationwide average equals 100, and each index is read as a percent of the national average. The index does not measure inflation, but compares prices at a single point in time. Excludes taxes. Metropolitan areas as defined by the Office of Management and Budget. For definitions and components of MSAs, see source for details]

Metropolitan Areas (MA)	Composite index (100)	Grocery items (16)	Housing (28)	Utilities (8)	Transportation (16)
Anniston, AL MSA	93.1	94.8	91.2	99.6	88.0
Birmingham, AL MSA	94.7	90.5	86.4	108.0	97.0
Decatur, AL MSA	93.1	94.6	89.5	90.0	100.0
Dothan, AL MSA	91.6	97.3	80.4	83.8	90.0
Florence, AL MSA	89.8	90.3	82.0	92.1	89.0
Huntsville, AL MSA	96.1	98.0	87.4	85.1	103.0
Mobile, AL MSA	96.4	96.5	92.3	105.7	103.0
Montgomery, AL MSA	97.5	95.5	93.8	108.4	107.0
Tuscaloosa, AL MSA	99.4	95.4	95.3	95.5	96.0
Anchorage, AK MSA	122.9	124.9	132.0	82.8	109.0
Nonmetropolitan areas:					
Fairbanks, AK	120.1	118.4	109.2	154.1	113.0
Kodiak, AK	129.1	139.4	128.4	152.6	114.0
Flagstaff, AZ-UT MSA	108.3	104.3	122.0	93.1	116.0
Las Vegas, NV-AZ MSA:					
Lake Havasu City, AZ	99.2	102.9	99.9	109.1	113.0
Phoenix-Mesa, AZ MSA:					
Phoenix, AZ	102.5	104.9	100.9	101.2	109.0
Tucson, AZ MSA	99.6	108.7	99.8	111.9	102.0
Yuma, AZ	95.4	98.8	86.1	147.1	107.0
Fayetteville-Springdale-Rogers, AR MSA	89.7	86.3	87.7	89.2	93.0
Fort Smith, AR-OK MSA	86.9	86.6	77.4	88.2	90.0
Jonesboro, AR MSA	87.0	91.3	79.6	93.5	88.0
Little Rock-North Little Rock, AR MSA	88.0	89.9	81.4	98.0	83.0
Fresno, CA MSA	106.0	107.3	95.6	125.0	113.0

Table 1: "Scope" attribute with "row" and "col"

Table 2 HTML code

```
<table border=1 bordercolor="white" cellspacing=0 cellpadding=0 width="100%" summary="This table
measures relative price levels for consumer goods and services in participating areas for a mid-
management standard of living. The nationwide average equals 100, and each index is read as a
percent of the national average. The index does not measure inflation, but compares prices at a single
point in time. Excludes taxes. Metropolitan areas as defined by the Office of Management and Budget.
For definitions and components of MSAs, see source for details" caption="No. 695. Cost of Living
Index—Selected Metropolitan Areas: Fourth Quarter 2000">
```

```
<tr>
  <th scope="col" valign=top class="tablehead" nowrap> Metropolitan Areas (MA)
</th>
  <th scope="col" valign=top class="tablehead" nowrap> Composite index (100
) </th>
  <th scope="col" valign=top class="tablehead" nowrap> Grocery items (16 ) </th>
  <th scope="col" valign=top class="tablehead" nowrap> Housing (28 ) </th>
  <th scope="col" valign=top class="tablehead" nowrap> Utilities (8 ) </th>
```

```

<th scope="col" valign=top class="tablehead" nowrap> Transportation (10 )
</th>
<th scope="col" valign=top class="tablehead" nowrap> Health care (5 ) </th>
<th scope="col" valign=top class="tableheadright" nowrap> Misc. goods and
services (33 ) </th>
</tr>
<tr>
<td scope="row" wrap="nowrap" valign=top class="metro" nowrap> Anniston, AL
MSA </td>
<td valign=top class="data"> 93.1 </td>
<td valign=top class="data"> 94.8 </td>
<td valign=top class="data"> 91.2 </td>
<td valign=top class="data"> 99.6 </td>
<td valign=top class="data"> 88.3 </td>
<td valign=top class="data"> 81.3 </td>
<td valign=top class="data"> 95.6 </td>
</tr>
<tr>
<td scope="row" wrap="nowrap" valign=top class="metro" nowrap> Birmingham,
AL MSA </td>
<td valign=top class="data"> 94.7 </td>
<td valign=top class="data"> 90.5 </td>
<td valign=top class="data"> 86.4 </td>
<td valign=top class="data"> 108.0 </td>
<td valign=top class="data"> 97.3 </td>
<td valign=top class="data"> 94.8 </td>
<td valign=top class="data"> 99.8 </td>
</tr>
<tr>
<td scope="row" wrap="nowrap" valign=top class="metro" nowrap> Decatur, AL
MSA </td>
<td valign=top class="data"> 93.1 </td>
<td valign=top class="data"> 94.6 </td>
<td valign=top class="data"> 89.5 </td>
<td valign=top class="data"> 90.0 </td>
<td valign=top class="data"> 100.4 </td>
<td valign=top class="data"> 90.5 </td>
<td valign=top class="data"> 94.3 </td>
</tr>
<tr>
<td scope="row" wrap="nowrap" valign=top class="metro" nowrap> Dothan, AL
MSA </td>
<td valign=top class="data"> 91.6 </td>
<td valign=top class="data"> 97.3 </td>
<td valign=top class="data"> 80.4 </td>
<td valign=top class="data"> 83.8 </td>
<td valign=top class="data"> 90.7 </td>
<td valign=top class="data"> 88.2 </td>
<td valign=top class="data"> 101.0 </td>
</tr>
<tr>
<td scope="row" wrap="nowrap" valign=top class="metro" nowrap> Florence, AL
MSA </td>
<td valign=top class="data"> 89.8 </td>
<td valign=top class="data"> 90.3 </td>
<td valign=top class="data"> 82.0 </td>
<td valign=top class="data"> 92.1 </td>
<td valign=top class="data"> 89.4 </td>
<td valign=top class="data"> 87.7 </td>
<td valign=top class="data"> 96.0 </td>
</tr>
<tr>
<td scope="row" wrap="nowrap" valign=top class="metro" nowrap> Huntsville,

```

```

    AL MSA </td>
    <td valign=top class="data"> 96.1 </td>
    <td valign=top class="data"> 98.0 </td>
    <td valign=top class="data"> 87.4 </td>
    <td valign=top class="data"> 85.1 </td>
    <td valign=top class="data"> 103.7 </td>
    <td valign=top class="data"> 100.3 </td>
    <td valign=top class="data"> 102.2 </td>
</tr>
<tr>
    <td scope="row" wrap="nowrap" valign=top class="metro" nowrap> Mobile, AL
        MSA </td>
    <td valign=top class="data"> 96.4 </td>
    <td valign=top class="data"> 96.5 </td>
    <td valign=top class="data"> 92.3 </td>
    <td valign=top class="data"> 105.7 </td>
    <td valign=top class="data"> 103.0 </td>
    <td valign=top class="data"> 82.7 </td>
    <td valign=top class="data"> 97.7 </td>
</tr>
<tr>
    <td scope="row" wrap="nowrap" valign=top class="metro" nowrap> Montgomery,
        AL MSA </td>
    <td valign=top class="data"> 97.5 </td>
    <td valign=top class="data"> 95.5 </td>
    <td valign=top class="data"> 93.8 </td>
    <td valign=top class="data"> 108.4 </td>
    <td valign=top class="data"> 107.2 </td>
    <td valign=top class="data"> 94.5 </td>
    <td valign=top class="data"> 96.4 </td>
</tr>
<tr>
    <td scope="row" wrap="nowrap" valign=top class="metro" nowrap> Tuscaloosa,
        AL MSA </td>
    <td valign=top class="data"> 99.4 </td>
    <td valign=top class="data"> 95.4 </td>
    <td valign=top class="data"> 95.3 </td>
    <td valign=top class="data"> 95.5 </td>
    <td valign=top class="data"> 98.3 </td>
    <td valign=top class="data"> 103.0 </td>
    <td valign=top class="data"> 105.5 </td>
</tr>
<tr>
    <td scope="row" wrap="nowrap" valign=top class="metro" nowrap> Anchorage,
        AK MSA </td>
    <td valign=top class="data"> 122.9 </td>
    <td valign=top class="data"> 124.9 </td>
    <td valign=top class="data"> 132.0 </td>
    <td valign=top class="data"> 82.8 </td>
    <td valign=top class="data"> 109.1 </td>
    <td valign=top class="data"> 160.4 </td>
    <td valign=top class="data"> 122.3 </td>
</tr>
<tr>
    <td scope="row" wrap="nowrap" valign=top class="bigmetro" nowrap> Nonmetropolitan
        areas: </td>
    <td valign=top class="data">&nbsp; </td>
    <td valign=top class="data">&nbsp; </td>
    <td valign=top class="data">&nbsp; </td>
    <td valign=top class="data">&nbsp; </td>
    <td valign=top class="data">&nbsp; </td>
    <td valign=top class="data">&nbsp; </td>
    <td valign=top class="data">&nbsp; </td>

```



```

<td valign=top class="data">&nbsp; </td>
<td valign=top class="data">&nbsp; </td>
<td valign=top class="data">&nbsp; </td>
</tr>
<tr>
<td scope="row" wrap="nowrap" valign=top class="submetro" nowrap> Phoenix,
  AZ </td>
<td valign=top class="data"> 102.5 </td>
<td valign=top class="data"> 104.9 </td>
<td valign=top class="data"> 100.9 </td>
<td valign=top class="data"> 101.2 </td>
<td valign=top class="data"> 109.1 </td>
<td valign=top class="data"> 118.8 </td>
<td valign=top class="data"> 98.6 </td>
</tr>
<tr>
<td scope="row" wrap="nowrap" valign=top class="metro" nowrap> Tucson, AZ
  MSA </td>
<td valign=top class="data"> 99.6 </td>
<td valign=top class="data"> 108.7 </td>
<td valign=top class="data"> 99.8 </td>
<td valign=top class="data"> 111.9 </td>
<td valign=top class="data"> 102.2 </td>
<td valign=top class="data"> 116.0 </td>
<td valign=top class="data"> 88.8 </td>
</tr>
<tr>
<td scope="row" wrap="nowrap" valign=top class="metro" nowrap> Yuma, AZ. </td>
<td valign=top class="data"> 95.4 </td>
<td valign=top class="data"> 98.8 </td>
<td valign=top class="data"> 86.1 </td>
<td valign=top class="data"> 147.1 </td>
<td valign=top class="data"> 107.2 </td>
<td valign=top class="data"> 98.5 </td>
<td valign=top class="data"> 85.2 </td>
</tr>
<tr>
<td scope="row" wrap="nowrap" valign=top class="metro" nowrap> Fayetteville-Springdale-Rogers,
  AR MSA </td>
<td valign=top class="data"> 89.7 </td>
<td valign=top class="data"> 86.3 </td>
<td valign=top class="data"> 87.7 </td>
<td valign=top class="data"> 89.2 </td>
<td valign=top class="data"> 93.9 </td>
<td valign=top class="data"> 85.6 </td>
<td valign=top class="data"> 92.4 </td>
</tr>
<tr>
<td scope="row" wrap="nowrap" valign=top class="metro" nowrap> Fort Smith,
  AR-OK MSA </td>
<td valign=top class="data"> 86.9 </td>
<td valign=top class="data"> 86.6 </td>
<td valign=top class="data"> 77.4 </td>
<td valign=top class="data"> 88.2 </td>
<td valign=top class="data"> 90.7 </td>
<td valign=top class="data"> 86.8 </td>
<td valign=top class="data"> 93.8 </td>
</tr>
<tr>
<td scope="row" wrap="nowrap" valign=top class="metro" nowrap> Jonesboro,
  AR MSA </td>
<td valign=top class="data"> 87.0 </td>
<td valign=top class="data"> 91.3 </td>

```

```

<td valign=top class="data"> 79.6 </td>
<td valign=top class="data"> 93.5 </td>
<td valign=top class="data"> 85.7 </td>
<td valign=top class="data"> 86.3 </td>
<td valign=top class="data"> 90.1 </td>
</tr>
<tr>
<td scope="row" wrap="nowrap" valign=top class="metro" nowrap> Little Rock-North
  Little Rock, AR MSA </td>
<td valign=top class="data"> 88.0 </td>
<td valign=top class="data"> 89.9 </td>
<td valign=top class="data"> 81.4 </td>
<td valign=top class="data"> 98.0 </td>
<td valign=top class="data"> 83.7 </td>
<td valign=top class="data"> 88.2 </td>
<td valign=top class="data"> 91.6 </td>
</tr>
<tr>
<td scope="row" wrap="nowrap" valign=top class="metro" nowrap> Fresno, CA
  MSA </td>
<td valign=top class="data"> 106.0 </td>
<td valign=top class="data"> 107.3 </td>
<td valign=top class="data"> 95.6 </td>
<td valign=top class="data"> 125.0 </td>
<td valign=top class="data"> 113.8 </td>
<td valign=top class="data"> 115.5 </td>
<td valign=top class="data"> 105.7 </td>
</tr>
<tr>
<td scope="row" wrap="nowrap" valign=top class="metro" nowrap> Los Angeles-Long
  Beach, CA P MSA </td>
<td valign=top class="data"> 144.7 </td>
<td valign=top class="data"> 113.6 </td>
<td valign=top class="data"> 230.5 </td>
<td valign=top class="data"> 105.4 </td>
<td valign=top class="data"> 113.3 </td>
<td valign=top class="data"> 121.1 </td>
<td valign=top class="data"> 109.6 </td>
</tr>
<tr>
<td scope="row" wrap="nowrap" valign=top class="bigmetro" nowrap> Riverside-San
  Bernardino, CA P MSA: </td>
<td valign=top class="data">&nbsp; </td>
<td valign=top class="data">&nbsp; </td>
<td valign=top class="data">&nbsp; </td>
<td valign=top class="data">&nbsp; </td>
<td valign=top class="data">&nbsp; </td>
<td valign=top class="data">&nbsp; </td>
<td valign=top class="data">&nbsp; </td>
</tr>
<tr>
<td scope="row" wrap="nowrap" valign=top class="submetro" nowrap> Riverside
  City, CA. </td>
<td valign=top class="data"> 106.6 </td>
<td valign=top class="data"> 108.7 </td>
<td valign=top class="data"> 100.8 </td>
<td valign=top class="data"> 111.1 </td>
<td valign=top class="data"> 111.8 </td>
<td valign=top class="data"> 119.7 </td>
<td valign=top class="data"> 105.9 </td>
</tr>
<tr>
<td scope="row" wrap="nowrap" valign=top class="metro" nowrap> Sacramento,

```


CA P MSA	118.8	117.0	130.5	118.1	120.1	160.7	103.1
San Diego, CA MSA	127.3	125.8	157.7	125.4	124.2	131.4	102.9
San Francisco, CA P MSA	199.2	123.4	392.8	133.0	130.6	165.2	113.8
Visalia-Tulare-Porterville, CA MSA	104.9	104.6	96.6	104.1	117.9	113.8	107.0
Colorado Springs, CO MSA	99.9	100.3	105.5	83.8	108.7	121.2	92.9
Denver, CO P MSA	107.1	109.5	119.9	79.5	106.6	130.0	98.5

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Appendix II–n-Dimensional Table

An *n*-dimensional table using the “axis” attribute: Table 2 uses the “summary,” “axis,” “headers,” and “id” attributes with the <CAPTION> tagset specified in the HTML 4.0x specification.

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Address file:///C:/AWINDOWS/Desktop/weeklycost.htm#footnote Go Links

No. 705. Weekly Food Cost by Type of Family: 1990 and 2000

[In dollars. Assumes that food for all meals and snacks is purchased at the store and prepared at home. See source for details on estimation procedures]

Family type	December 1990				December 2000			
	Thrifty plan	Lowcost plan	Moderate cost plan	Liberal plan	Thrifty plan	Low cost plan	Moderate cost plan	Liberal plan
FAMILIES								
Family of two:								
20-50 years	48.10	60.60	74.70	92.70	60.60	78.20	96.40	120.00
51 years and over	45.60	58.30	71.80	85.80	57.60	75.20	93.10	111.50
Family of four:								
Couple, 20-50 years and children—								
1-2 and 3-5 years	70.10	87.30	106.60	131.00	88.40	112.60	137.60	169.40
6-8 and 9-11 years	80.10	102.60	128.30	154.40	101.90	132.60	165.30	199.20
INDIVIDUALS ¹								
Child:								
1-2 years	12.70	15.40	18.00	21.80	16.10	19.80	23.20	28.20
3-5 years	13.70	16.80	20.70	24.90	17.30	21.70	26.80	32.10
6-8 years	16.60	22.20	27.90	32.50	21.50	28.80	35.90	41.70
9-11 years	19.80	25.30	32.50	37.60	25.30	32.70	41.80	48.40
Male:								
12-14 years	20.60	28.60	35.70	42.00	26.20	36.90	45.70	53.80
15-19 years	21.40	29.60	36.80	42.60	27.00	38.00	47.40	54.70
20-50 years	22.90	29.30	36.60	44.30	28.90	37.90	47.20	57.20
51 years and over	20.90	27.90	34.30	41.10	26.40	36.10	44.50	53.40
Female:								
12-19 years	20.80	24.80	30.10	36.30	26.30	31.80	38.60	46.70
20-50 years	20.80	25.80	31.30	40.00	26.20	33.20	40.40	51.90

Done My Computer

Table 2: Using the "headers" and "id" attributes with “axis”

Table 3 HTML Code:

<table border=1 bordercolor="white" cellspacing=0 cellpadding=0 caption="No. 705. Weekly Food Cost by Type of Family: 1990 and 2000" summary="This table describes weekly food costs by type of family in 1990 and 2000. The data assumes that all meals and snacks are purchased at a store and prepared at home.">

```

<tr>
  <td rowspan=2 valign=middle class="tablehead" align="center" nowrap>Family
    type</td>
  <td id="z1" colspan=4 valign=top class="tablehead" align="center" nowrap>December
    1990</td>
  <td id="z2" colspan=4 valign=top class="tableheadright" align="center" nowrap>December
    2000</td>
</tr>
<tr>
  <td id="a1" axis="December 1990" valign=top class="subhead">Thrifty plan</td>
  <td id="a2" axis="December 1990" valign=top class="subhead">Lowcost plan</td>
  <td id="a3" axis="December 1990" valign=top class="subhead">Moderate cost plan</td>
  <td id="a4" axis="December 1990" valign=top class="subheadright">Liberal plan</td>
  <td id="a5" axis="December 2000" valign=top class="subhead">Thrifty plan</td>
  <td id="a6" axis="December 2000" valign=top class="subhead">Low cost plan</td>
  <td id="a7" axis="December 2000" valign=top class="subhead">Moderate cost plan</td>
  <td id="a8" axis="December 2000" valign=top class="subhead">Liberal plan</td>
</tr>
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  <td headers="r2,a3" valign=top class="data" nowrap> 74.70 </td>
  <td headers="r2,a4" valign=top class="dataright" nowrap> 92.70 </td>
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  <td headers="r2,a5" valign=top class="data" nowrap> 78.20 </td>
  <td headers="r2,a6" valign=top class="data" nowrap> 96.40 </td>
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  <td headers="r3,a6" valign=top class="data" nowrap> 75.20 </td>
  <td headers="r3,a7" valign=top class="data" nowrap> 93.10 </td>
  <td headers="r3,a8" valign=top class="data" nowrap> 111.50 </td>
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<tr>
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and children— </td>
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  <td headers="r5,a3" valign=top class="data" nowrap>&nbsp; </td>
  <td headers="r5,a4" valign=top class="dataright" nowrap>&nbsp; </td>
  <td headers="r5,a5" valign=top class="data" nowrap>&nbsp; </td>
  <td headers="r5,a6" valign=top class="data" nowrap>&nbsp; </td>
  <td headers="r5,a7" valign=top class="data" nowrap>&nbsp; </td>
  <td headers="r5,a8" valign=top class="data" nowrap>&nbsp; </td>
</tr>
<tr>
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</td>
  <td headers="r6,a1" valign=top class="data" nowrap> 70.10 </td>
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  <td headers="r6,a3" valign=top class="data" nowrap> 106.60 </td>
  <td headers="r6,a4" valign=top class="dataright" nowrap> 131.00 </td>
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</td>
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  <td headers="r7,a5" valign=top class="data" nowrap> 101.90 </td>
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  <td headers="r7,a8" valign=top class="data" nowrap> 199.20 </td>
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  <td valign=top class="dataright" nowrap>&nbsp; </td>
  <td valign=top class="data" nowrap>&nbsp; </td>
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  <td valign=top class="data" nowrap>&nbsp; </td>

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    <td valign=top class="data" nowrap>&nbsp; </td>
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href="#footnote"><sup>1</sup></a>
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<td id="r9" axis="Individuals" valign=top class="subtype1" nowrap> Child: </td>
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<td valign=top class="data" nowrap>&nbsp; </td>
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<td headers="r10,a1" valign=top class="data" nowrap> 12.70 </td>
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<td headers="r12,a1" valign=top class="data" nowrap> 16.60 </td>
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<td headers="r12,a5" valign=top class="data" nowrap> 21.50 </td>
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</td>
<td headers="r13,a1" valign=top class="data" height="2" nowrap> 19.80 </td>
<td headers="r13,a2" valign=top class="data" height="2" nowrap> 25.30 </td>
<td headers="r13,a3" valign=top class="data" height="2" nowrap> 32.50 </td>
<td headers="r13,a4" valign=top class="data" height="2" nowrap> 37.60 </td>
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<td headers="r13,a7" valign=top class="data" height="2" nowrap> 41.80 </td>
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<td valign=top class="data" nowrap>&nbsp; </td>
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<td valign=top class="data" nowrap> 36.60 </td>
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<td valign=top class="data" nowrap> 57.20 </td>
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<td headers="r18,a7" valign=top class="data" nowrap> 44.50 </td>
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</tr>
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