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Schaefer - House Commerce Committee - 8/12/97 - [Climate Change]

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EXECUTIVE OFFICE OF THE PRESIDENT
COUNCIL OF ECONOMIC ADVISERS
WASHINGTON, D.C. 20500

CHIEF OF STAFF

August 12, 1997

Dear Mark:

Please find enclosed certain documents related to the Environmental Protection Agency's proposed revisions to the National Ambient Air Quality Standards for ozone and particulate matter. These documents are dated November 25, 26, 27 and December 2 and should have been part of our original submission to the Committee. They were discovered in the files of CEA Member Alicia Munnell when she left the Council of Economic Advisers on August 1, 1997. I sincerely apologize for this oversight.

If you have any questions, please call me at (202) 395-5084.

Sincerely,

A handwritten signature in black ink, appearing to read "Michele Jolin", with a stylized flourish at the end.

Michele Jolin

Mr. Mark Paoletta
Counsel
Committee on Commerce
U.S. House of Representatives
2125 Rayburn House Office Building
Washington, D.C. 20515

Enclosures

MEMORANDUM

COUNCIL OF ECONOMIC ADVISERS

December 2, 1996

TO: ALICIA MUNNELL

FROM: RAY PRINCE

SUBJECT: Economic Analysis Proposed Ozone/PM standards

Costs of full attainment are much higher than EPA estimates, but there is less to argue over on the cost estimates of partial attainment. On the other hand, the health benefits are less under partial attainment.

One way of arguing for more moderate standards might be as follows:

If the Administration comes out for tough standards because it will protect the health of children we are going end up between a rock and a hard place. If we say we intend to have full attainment by 2007, we will be accused of placing enormous costs on the American public. If we say we are not going to enforce these tough standards fully if it gets too expensive, we will be accused of being hypocritical and placing a dollar value on the lives of children and their health. We can avoid this trap by adopting moderate standards.

November 27, 1996

MEMORANDUM FOR JOE STIGLITZ

FROM:

ALICIA MUNNELL ✓
RAY PRINCE
SARAH REBER *SR*

Subject:

Ozone Standards

We are constructing a cost-benefit analysis for EPA's proposed ozone standards. A draft of preliminary tables and comments is attached. The graph is intended to show that our estimates are conservative because we assume that the marginal cost curve will flatten; in fact, for many cities it may be vertical. We would appreciate your comments and input.

cc: MJolin

Revised

**Annual Costs and Benefits above Baseline of Ozone Standards
(80ppb, 8 hour, 1AX)¹
(billions of 1990 dollars per year)**

	Costs		Benefits ²		Net Benefits	
	<u>Low</u>	<u>High</u>	<u>Low</u>	<u>High</u>	<u>Low</u>	<u>High</u>
Partial Attainment (EPA Estimates)	3.7 ³		0.1	1.5	-2.4	-1.0
Full Attainment (EPA Estimates)	5.2	11.2	0.2	2.8	-5.0	-8.4
Full Attainment (CEA Estimates)	16.6	70.2	0.2 ⁴	2.8	-16.4	-67.4

- CEA estimates use the EPA forecast of the uncostered annual deficit for VOC and NOx in 2007. The lower-cost scenario assumes a \$10,000 per ton reduction cost for VOC and NOx. The higher-cost scenario assumes a \$34,000 per ton reduction cost for VOC and NOx.⁵
- The CEA lower bound for MC is EPA's upper bound. (Costs are different due to EPA computer error and because EPA does not include the full costs of reaching full attainment at the current standard. CEA's correction adds \$1.7 billion to EPA's upper bound. Including the costs of reaching full attainment would add about \$3.7 billion to EPA's upper bound.)
- The CEA upper bound is the per-ton cost for the second most expensive program averaged over three representative cities.⁶ (Chicago, Fresno, Philadelphia) (The highest-cost program was about \$80,000 per ton for VOC and over \$700,000 [not sure about this number, could be typo in RIA] for NOx.) CEA considers this is a conservative estimate of the high end since the marginal costs of reduction are most likely rising.
- The CEA costs estimates = [Cost of identified emissions controls (EPA)] + [Cost of reaching full attainment (CEA)]

Concerns with EPA Costs

- EPA uses a low marginal cost estimate of \$3,000 to \$5,000 per ton of VOC reduction for partial attainment under the new standard. This is about the range of the 1989 estimates of average marginal cost which were used for calculations for the *current standard*. This is also in the range of the average cost of reduction which we have observed thus far.

¹ Costs are for regional control scenario. Costs for local control scenario are higher.

² Benefits include mortality.

³ EPA did not provide a range of estimates for this scenario. (Source: RIA, November 3, 1996).

⁴ Benefits are EPA estimates assuming full attainment in all areas.

⁵ Due to an error in EPA computer runs, the emissions deficit for four cities was not computed properly. We assume these cities had the same per capita increase in the deficit as three representative cities. (Chicago, Fresno, Philadelphia) This is the best that we can do until EPA gives us the corrected figures.

⁶ This was \$34,000 for VOC and \$33,000 for NOx. NOx makes up a relatively small portion of excess emissions. For simplicity, we assume \$34,000 for both.

- EPA estimates do not include the cost of reaching full attainment at the current standard.
- EPA estimates that "marginal nonattainment" areas (a category that is defined in the Act) have negligible costs of reaching attainment. There are two ways in which an area can be classified as in marginal nonattainment: 1) EPA claims that the models they use overstate emissions; thus, EPA assumes that areas attain the standard if identifiable emission controls achieve at least 66% of the reduction to meet the standard and 2) Areas which are about 15% over the standard are considered marginal nonattainment areas under the Act. Incremental costs for these areas are not considered in EPA analysis, because they are assumed to be negligible. A large number of areas are considered marginal nonattainment areas.
- Annual deficits may also assume full attainment at 66% of required reduction (75% for Local Control scenarios) [need to check with EPA on this].
- For areas that have already implemented all the programs available but have still not met the current standard -- such as Los Angeles and New York -- the incremental cost is zero because there is nothing left for them to do. This is essentially admitting that some areas have already met the vertical portion of the marginal cost curve, or they are assuming not only new technology, but new, free technology.
- Regional Control scenarios assume that two provisions are implemented: 1) 49 state LEV (low emissions vehicle) and 2) NOx cap on utilities and boilers. Costs for these programs have not been estimated (so far as we know). This explains why incremental costs for the Local Control scenarios are much lower, they are starting from a worse baseline.

Problems with Benefits Estimates

- Benefit calculations for full attainment assume that marginal nonattainment areas are in full attainment (because they assume costs of reaching full attainment are negligible).
- Benefits estimates include reduction in mortality which brings the high end of the range up from \$1.0 billion to \$2.8 billion.

Annual Costs and Benefits above Baseline of Ozone Standards for California
(80ppb, 8 hour, 1AX)⁷
(billions of 1990 dollars per year)

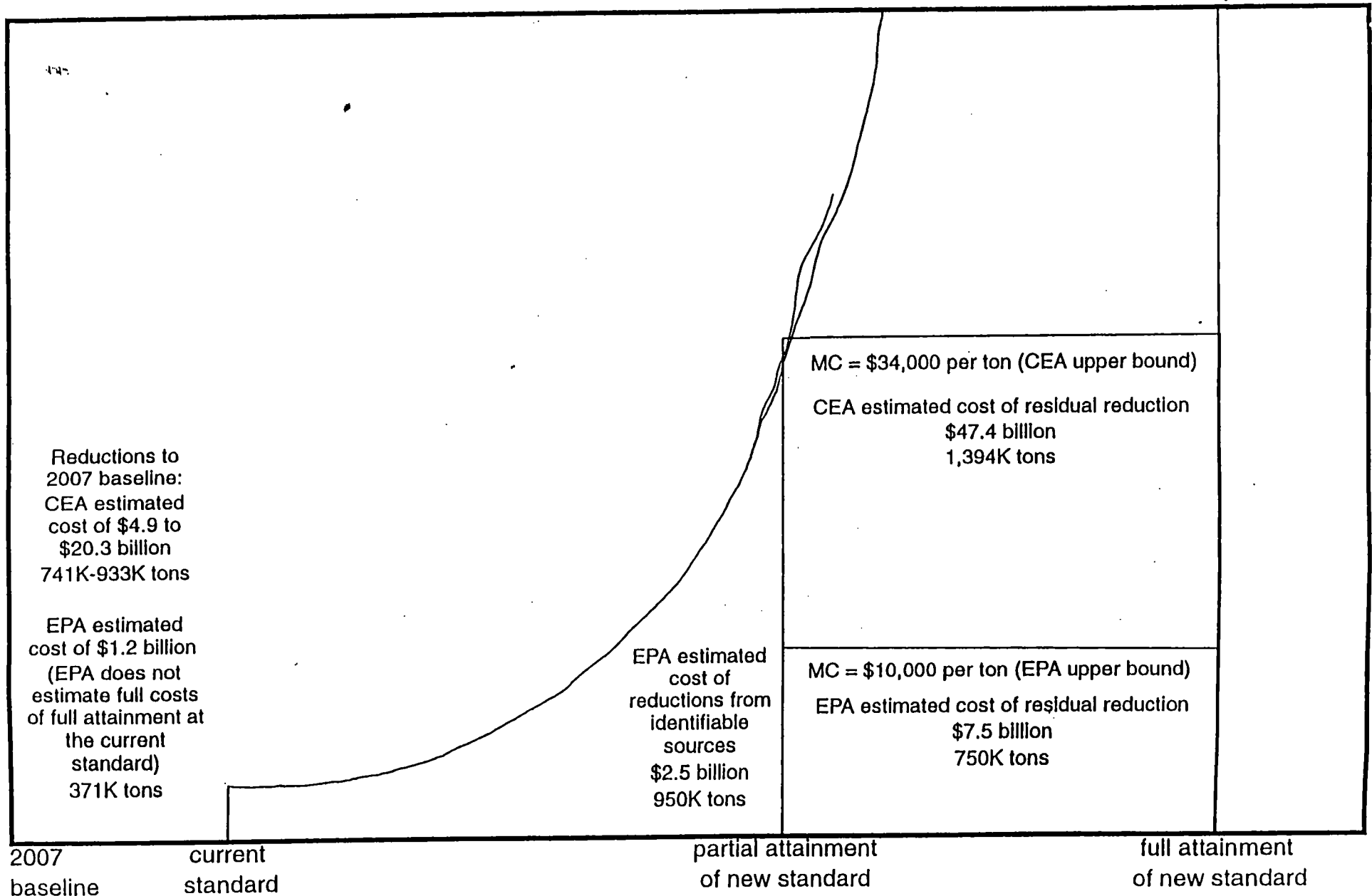
	Costs		Benefits ⁸		Net Benefits	
	<u>Low</u>	<u>High</u>	<u>Low</u>	<u>High</u>	<u>Low</u>	<u>High</u>
Full Attainment (CEA Estimates)	6.2	21.0	0.3	3.1	-5.9	-17.9

⁷ Costs for local control scenario are higher.

⁸ Benefits are from Krupnik and Portney. These are benefits for the current standard. Benefits under a more stringent standard would be higher.

Incremental Costs in 2007

Marginal Cost (\$ per ton)



Emissions Reductions (tons)

Costs and Benefits of Ozone Standards (80ppb, 8 hour, 1AX)
Regional Control Scenario¹
(billions of 1990 dollars per year)

	Costs		Benefits ²		Net Benefits	
	<u>Low</u>	<u>High</u>	<u>Low</u>	<u>High</u>	<u>Low</u>	<u>High</u>
Partial Attainment (EPA Estimates)	2.5 ³		0.1	1.5	-2.4	-1.0
Full Attainment (EPA Estimates)	4	10	0.2	2.8	-3.8	-7.2
Full Attainment (CEA Estimates)	18.0	61.4	0.2 ⁴	2.8	-17.8	-58.6

- CEA estimates use the midpoint between the high and low EPA forecast of the uncoded annual deficit for VOC and NOx in 2007. The lower-cost scenario assumes a \$10,000 per ton reduction cost for VOC and a \$10,000 per ton reduction cost for NOx. The higher-cost scenario assumes a \$34,000 per ton reduction cost for VOC and a \$33,000 per ton reduction cost for NOx. (Due to an error in EPA computer runs, the emissions deficit for four cities was not computed properly. We assume these cities had the same per capita increase in deficit as three representative cities. This is the best that we can do until EPA gives us the corrected figures.)
- The CEA lower bound is EPA's upper bound (costs are different due to EPA's treatment of marginal nonattainment areas described below). The CEA upper bound is the per-ton cost for the second most expensive program averaged over three representative cities. (The highest-cost program was about \$80,000 per ton for VOC and over \$700,000 [not sure about this number, could be typo in RIA] for NOx.) Clearly, this is a conservative estimate of the high end, considering that marginal costs of reduction are most likely rising.
- The CEA costs estimates = [Cost of identified emissions controls (EPA)] + [Cost of reaching full attainment (CEA)]

Concerns with EPA Costs

- EPA uses a low marginal cost estimate of \$3,000 to \$5,000 per ton of VOC reduction. This is about the range of the 1989 estimates of average marginal cost which were used for calculations for the *current standard*. This is also in the range of the average cost of reduction which we have observed thus far.
- EPA estimates do not include the cost of reaching full attainment at the current standard.

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- EPA estimates that "marginal nonattainment" areas (a category that is defined in the ACT) have negligible costs of reaching attainment. There are two ways in which an area can be classified as in marginal nonattainment: 1) EPA claims that the models they use overstate emissions; thus, EPA assumes that areas attain the standard if identifiable emission controls achieve at least 66% of the reduction to meet the standard and 2) Areas which are about 15% (need to check this number) over the standard are considered marginal nonattainment areas under the Act. Incremental costs for these areas are not considered in EPA analysis, because they are assumed to be negligible. A large number of areas are considered marginal nonattainment.
- Annual deficits may also assume full attainment at 66% of required reduction (75% for Local Control scenarios) [need to check on this].
- For areas that have already implemented all the programs available but have still not met the current standard -- such as Los Angeles and New York -- the incremental cost is zero (because there is nothing left for them to do. This is essentially admitting that some areas have already met the vertical portion of the marginal cost curve, or they are assuming not only new technology, but new, free technology.
- Regional Control scenarios assume that two provisions are implemented: 1) 49 state LEV (low emissions vehicle) and 2) NOx cap on utilities and boilers. Costs for these programs have not been estimated (so far as we know). This explains why incremental costs for the Local Control scenarios are much lower, they are starting from a worse baseline.

Problems with Benefits Estimates

- Benefit calculations for full attainment assume that marginal nonattainment areas are in full attainment (because they assume costs of reaching full attainment are negligible).
- Benefits estimates include reduction in mortality which brings the high end of the range up from \$1.0 billion to \$2.8 billion.

Costs and Benefits of Ozone Standards for California (80ppb, 8 hour, 1AX)
Regional Control Scenario⁵
(billions of 1990 dollars per year)

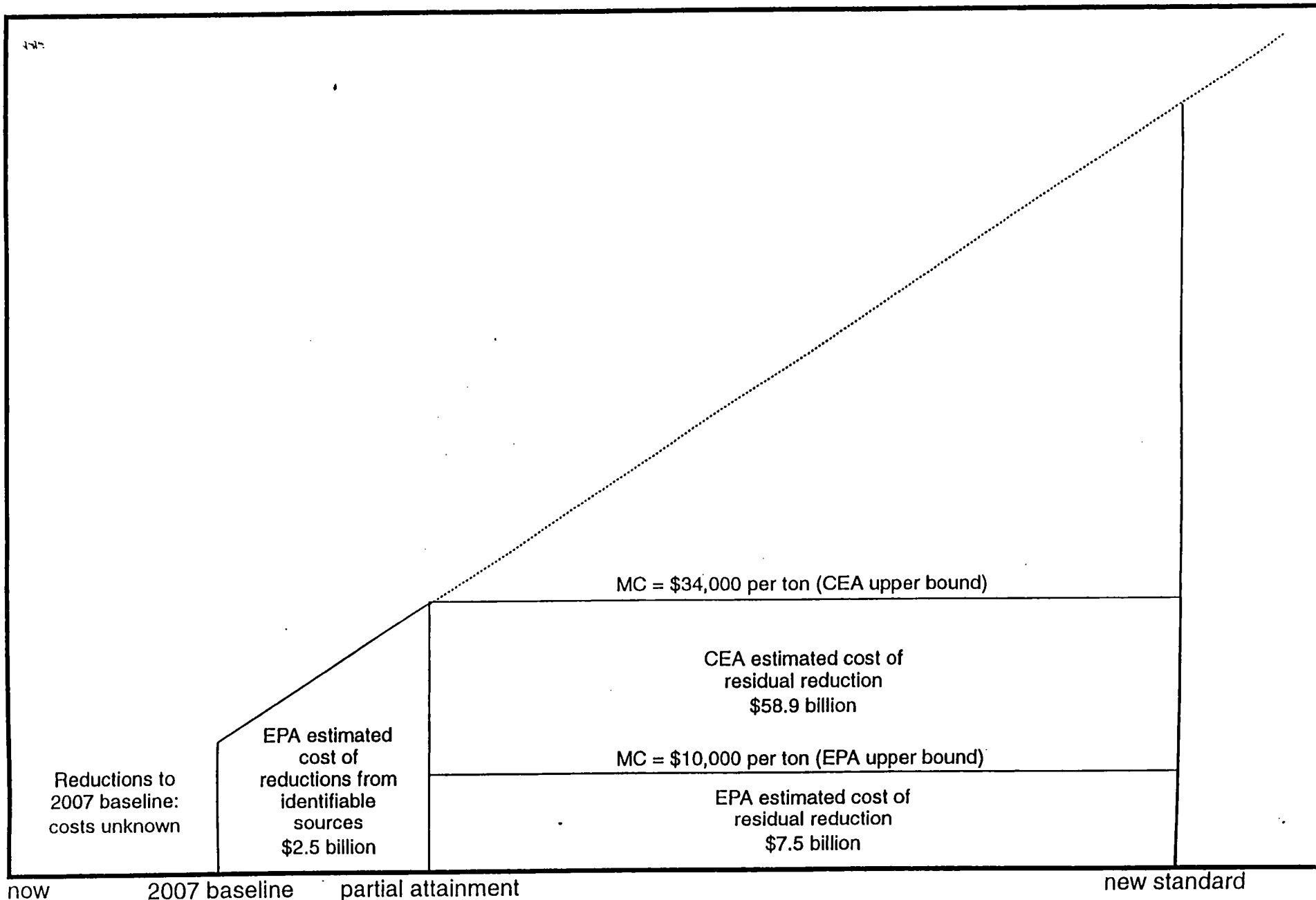
	Costs		Benefits ⁶		Net Benefits	
	<u>Low</u>	<u>High</u>	<u>Low</u>	<u>High</u>	<u>Low</u>	<u>High</u>
Full Attainment (CEA Estimates)	6.2	21.0	0.3	3.1	-5.9	-17.9

⁵ Costs for local control scenario are higher.

⁶ Benefits are from Krupnik and Portney. These are benefits for the current standard. Benefits under a more stringent standard would be higher.

Marginal Cost (\$ per ton)

50%



Emissions Reductions

EXECUTIVE OFFICE OF THE PRESIDENT

25-Nov-1996 10:18pm

TO: Alicia H. Munnell
FROM: Raymond Prince
Council of Economic Advisers
CC: Lisa D. Branch
SUBJECT: BC on ozone precursors

Art Fraas just called to say that EPA has agreed to state that the marginal costs of reducing ozone precursors could be \$30,000 to \$80,000 in non-attainment areas although they will also say that they believe that by 2007 it will be \$3000 - 10,000 per ton. It is not clear whether this statement will appear in the preamble of the Federal Register or in the RIA. (I think we should fight to have it in the preamble.)

My Katzen, who was at this meeting, apparently also agreed that EPA would not have to make estimates of the total costs of eliminating residual non-attainment based on \$30,000 to 80,000 per ton even though there will be a table estimating such costs based on \$3000 to \$10,000 per ton.

Sarah and I will meet with the OMB people tomorrow to vet our analysis. Even if it is not presented in a meeting, the existence of the CEA analysis may help keep EPA a little more honest.

Delib Docs.
that got
re-classified
(3rd Row)

EXECUTIVE OFFICE OF THE PRESIDENT
COUNCIL OF ECONOMIC ADVISERS

Bill -

5/22

Here are
the documents.

Please let me
know if you have
any questions.

Thanks -
Michel

EXECUTIVE OFFICE OF THE PRESIDENT
COUNCIL OF ECONOMIC ADVISERS

5/22

Mark -

Here are the
documents you
requested

Please let me
know if you have
any questions.

Thanks -
Michel

UPDATED LIST
5-15-97

CEA OZONE/PM DOCUMENTS
12-14-96 --- 3-20-97

Draft memo reflecting interagency deliberations:
For John H. Gibbons from Rosina Bierbaum
& Fran Sharples re: Further Information
Related to EPA's Proposed Revisions to the
NAAQS for Ozone December 20, 1996

Draft paper reflecting interagency deliberations:
OMB Questions on NAAQS Proposals December 23, 1996
& January 2, 1997

Draft reflecting internal
deliberations/advice to OMB:
CEA Comments on Ozone Standards January 6, 1997
February 12, 13, 18, 27
& March 19, 1997

Memo reflecting internal briefing and advice:
To Janet Yellen from Raymond Prince
& Sarah Reber on Administration Position on
National Ambient Air Quality Standards (NAAQS)
for PM & Ozone January 10, 1997
& January 4, 1997

EPA interagency briefing materials: EPA
Supplemental Ozone Exposure and
Health Risk Analyses (Draft) February 4, 1997

Legislative Referral Memo reflecting
interagency consultations February 6, 1997

EPA interagency briefing materials: Supplemental Ozone
Exposure/Risk Analyses February 6, 1997

Unsent Draft Memo that reflects internal deliberations:
From Alicia Munnell to Sally Katzen on Mortality Benefits in Ozone
& PM Regulatory Impact Analyses February 7, 1997

EPA interagency briefing materials: EPA Supplemental
Ozone Exposure and Health Risk Analyses February 11, 1997

Unsent Memo from Jay Shogren and Sarah Reber to
Alicia Munnell (reflects Ozone PM NAAQS
discussion at internal briefing) February 12, 1997

Memo discussing advice/questions to OMB from
Jason Shogren to Art Frass on Mortality Benefits
in Ozone and PM Regulatory Impact Analysis February 13, 1997

Memo that reflects internal discussions and
advice for Janet Yellen from Alicia Munnell,
Jason Shogren & Sarah Reber on Ozone and PM
Air Quality Standards February 13, 18, 24, 1997

EPA internal briefing materials February 19, 1997

Draft of CEA Comments on Internal Deliberations February 24, 1997

Ozone Questions/Issues for Discussion with
OMB Staff that reflects interagency deliberations February 25, 1997

✓ Ozone Question/Issues for Discussion
with Alan Krupnick that reflect internal
analysis and interagency discussions February 25, 1997

E-mail to Jason Shogren & Sarah Reber from
Randy Lutter (OMB) re Draft Memo on Status of
NAAQS Analysis reflecting interagency discussions February 25, 1997

Draft Memo to Sally Katzen from Jim Laity,
Randy Lutter & Chris Wolz (OMB) re: Steps in the
Analysis of Ozone & PM Air Quality Standards February 25, 1997

Memo from John Beale to Mary Nichols on Key Issues to
be Addressed in Making a Final Decision on the Ozone
and PM National Ambient Air Quality Standards February 25, 1997

Memo reflecting internal discussions and advice for
Alicia Munnell from Jay Shogren and
Sarah Reber on More Ozone Issues February 25, 1997

FAX from EPA: City-wide Adjustment Factors February 27, 1997

List of Counties not Meeting the Current Ozone
Standard (public information from EPA Home Page) February 27, 1997

✓ Draft of internal memo re: Implementation of Ozone NAAQS,
Failure to Attain, and Sanctions (with comments from RFF)
reflecting internal summary and deliberations February 28, 1997

"Points on Ozone NAAQS" Draft
Reflecting internal deliberations February 28, 1997

✓ CEA Spreadsheet Design Values (CEA Analysis
using Public Information) March 1997

✓ CEA Spreadsheet from EPA Ozone Draft RIA Appendix
(Includes CEA Analysis of Public Information) March 1997

EPA Interagency Briefing Materials
for OMB briefing March 3, 1997

Memo reflecting interagency deliberations
from Alicia Munnell to Sally Katzen re: Ozone NAAQS
Information and Analysis from EPA March 4, 1997

Draft of internal memo re: Implementation of Ozone NAAQS,
Failure to Attain and Sanctions that reflects
internal summary and deliberations March 4, 1997

Reductions in Ozone-Related Health Risks under
EPA's Proposed Standard, CEA Summary that
reflects internal deliberations March 4, 1997

Memo reflecting interagency deliberations
from Alicia Munnell to Sally Katzen re: Ozone
NAAQS Information and Analysis from EPA
Reflecting interagency deliberations March 6, 1997

Treasury Department document re: "Quality of the
Scientific Evidence" March 11, 1997

Draft of internal, preliminary
analysis: "Comments on Standard-Setting" March 18, 1997

Michele,

Here is your file copy of the documents to send to Paoletta and Tyndall. The documents and your note to each are in envelopes which I have taken to the mail room for the 1:00 red tag messenger run to the Hill today.

Here is a copy of the document list (which, of course, was NOT in the envelopes). I thought it would be helpful to check off those documents that we are sending to Tyndall and Paoletta for our files. But I wasn't sure what we named the one on legal paper (the last document in set sent to the Hill, and the next-to-last document in your binder). So I need to put a check by the name of that document before I file those lists w/copy of the buckslips.

IF YOU FIND SOMETHING WRONG HERE, ASK ALICE TO CALL EXT.57005 AND TELL THEM TO PULL THE ENVELOPES FROM THE 1:00 RUN STACK.

I had a lunch to go to today, so I had to leave at 11:30. I'll be back as soon as I can.

Ozone Questions/Issues
February 25, 1997

Al Krupnik

Implementation:

- Current implementation policies: What are typical implementation strategies? What are typical controls?
- What is inefficient about current implementation strategies? What are the most important issues to negotiate during the standard-setting process?

Costs:

- What are outside estimates of control costs for current/proposed standard? (Or where can we find them?)

Benefits/Health Effects:

- Are there non-EPA estimates of 8-hour standards that are equivalent to the current standard in terms of health risk/population exposed/number of counties out of attainment/etc.?
- Rollback assumptions?
- What portion of studies cited by EPA support tightening the ozone standard? What portion of ozone studies link ozone to mortality?

Nonattainment problem:

- What are outside projections of the nonattainment problem? (Numbers of counties, populations)
 - What are nonattainment areas really required to do?
-

CHAFFET: Reopen Clean Air Act
Not necessarily use Small Business shield because of
Presidential veto

CALLING FOR CASAC Review

February 25, 1997

Ozone Questions/Issues

Al Krupnik

Implementation:

- Current implementation policies: What are typical implementation strategies? What are typical controls?
- What is inefficient about current implementation strategies? What are the most important issues to negotiate during the standard-setting process?

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- What are outside estimates of control costs for current/proposed standard? (Or where can we find them?)

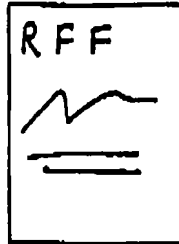
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Nonattainment problem:

- What are outside projections of the nonattainment problem? (Numbers of counties, populations)
- What are nonattainment areas really required to do?

Hammer on
good guys,
left bad guys ff



Facsimile Transmittal

To: Sarah Reber

Fax : 395 6809

CEA

Voice: 395 5618

Date: February 28, 1997

From: Deirdre Farrell

Fax: 202-939-3460

Voice: 202-328-5022

Number of pages, including this cover sheet: 5

Sarah,
Please find attached a few comments I had on the memo. I hope you find them helpful.
Thanks,
Deirdre

If you do not receive all pages noted above, please contact sender.

February 27, 1997

To: Alicia Munnell

From: Jay Shogren
Sarah Reber

Subject: Implementation of ozone national ambient air quality standard (NAAQS), failure to attain, and sanctions

This memo is a first-pass look at the sections of the Clean Air Act Amendments dealing with classification of areas, implementation requirements, and potential sanctions.

Implementation and Classifications

The Clean Air Act Amendments of 1990 (Section 181) outlines five classifications of ozone nonattainment areas and outline the steps states must take, as well as deadlines for each type of area. Interestingly, the classifications are designated with respect to the current standard (which is .120, 1 expected exceedance). For example, areas with "design values" (the number that is compared to .120 to determine attainment) between 0.121 and 0.138 are classified as "Marginal" (instead of defining marginal areas as x% above the standard, ~~for example~~). Because classifications and, therefore, implementation requirements are set out in the Act with respect to the current standard, ~~we do not know (nor do people we spoke to at RFF) how the classification and implementation requirements will be determined when an 8-hour standard is adopted (which will most likely be .08).~~ Action from Congress may be required to redefine classifications for the new standard??

Amendment to Act
The Act provides no direction in case the standard is changed. EPA may issue guidance consistent with operative sections of the Act.

A quick overview of the current classifications and requirements follows. Each area not meeting the ozone standard in 1990 (when the Clean Air Act Amendments, CAAA, were passed) was classified into one of five categories -- marginal, moderate, serious, severe, and extreme -- depending on its design value. States containing nonattainment areas were required to submit State Implementation Plans (SIPs). What steps a state was required to include in its SIP depend on the classification of the nonattainment area; the list of requirements is longer for more serious areas, but the time allowed for attainment also grows. Areas that do not fulfill the requirements by the deadline (two one-year extensions are allowed in some cases) can be "bumped" to the next classification, which requires them to take further steps (except that areas cannot be bumped to Extreme -- they have to earn that).

Marginal Areas (0.121 to 0.138) were required to attain the standard within 3 years (1993), and SIPs were required to include plans to adopt the following:

- A schedule to submit a comprehensive emissions inventory at least every three years,

- Reasonable available control technology (RACT) in some cases,
- A schedule for implementation of a vehicle emission control inspection and emissions program,
- Provisions to require permits for new or modified major stationary sources of ozone precursors.
- "Offset requirements," which require the ratio of total emission reductions to new emissions to be 1.1. (This means that any new source must eliminate a current source.)

Marginal areas include Albany, Buffalo, Lancaster, Reno, and Seattle-Tacoma.

Moderate Areas (0.138 to 0.160) were required to meet the standard within 6 years (1996), and SIPs were required to include plans to adopt the following (in addition to the requirements for marginal areas):

- Plan provisions showing Reasonable Further Progress (RFP): 15% emissions reductions in 6 years (unless the Administrator determines that all measures that "can feasibly be implemented in the area, in light of technological achievability" have been implemented),
- More RACT,
- Gasoline vapor recovery systems (from the fueling of motor vehicles at facilities that sell more than 10,000 gallons of gasoline per year),
- (More motor vehicle inspection and maintenance programs??) still planning
- Offset requirement of 1.15 to 1.

Moderate areas include Atlantic City, Dallas-Fort Worth, Cincinnati, Manitowoc, WI, Nashville, Phoenix, and St. Louis.

Serious Areas (0.160 to 0.180) are required to meet the standard within 9 years (1999), and SIPs were required to include plans to adopt the following (in addition to the requirements for marginal areas):

ambient concentrations, NOT inventories

- Enhanced monitoring (~~of emissions inventories~~)
- Demonstration that the plan will provide for attainment of the ozone standard by the deadline,

- RFP: 15% in 6 years and 3% per year thereafter (unless the Administrator determines that this is technologically infeasible),
- Enhanced vehicle inspection and maintenance program, must be implemented
- Clean-fuel vehicle programs,
- Transportation control,
- Stricter rules with respect to the modification of emission sources,
- Contingency measures which will take effect without further action if the area fails to meet applicable milestones,
- Offset requirement of at least 1.2 to 1.

Serious areas include Atlanta, Boston, El Paso, Greater Connecticut, San Diego, and Washington.

Severe Areas (0.180 to 0.280) are required to meet the standard within 15 years (2005), and SIPs are required to include the following provisions (in addition to those required in serious areas):

- Transportation control strategies which will offset growth in vehicle miles traveled (VMTs) (for example, "require that each employer of 100 or more persons... increase average passenger occupancy per vehicle in commuting between home and the workplace during peak travel periods by not less than 25 percent..."). Often called ELO - employee commute option
- Offset requirement of at least 1.3 to 1.

Severe areas include Baltimore, Chicago, Houston, New York, Philadelphia, Sacramento, and Ventura.

Extreme Areas (more than 0.280) are required to meet the standard within 20 years (2010), and SIPs are required to include the following provisions (in addition to those required for severe areas):

- Provisions allowing reductions less than 15% in six years and 3% per year thereafter if they are not technologically feasible do not apply to extreme areas,
- Offset requirement of 1.5 to 1, if the state requires the use of Best Available Control Technologies (BACT), the offset requirement is 1.2 to 1,
- Stricter rules for modification of emission sources,

DRAFT -- DRAFT -- DRAFT -- DRAFT

- Use of cleaner fuels or advanced control technologies in commercial boilers,
- Traffic control measures during heavy traffic hours,
- Anticipation of new technologies can be taken into account in SIPs for extreme areas, as approved by the Administrator. (Note that a recently approved SIP for California demonstrates attainment, but achieves 24% of the necessary emissions reductions through technological change. The plan includes provisions for reformulated lighter fluid requirements, but not a ban on BBQs.)

Los Angeles is the only extreme nonattainment area.

Sanctions

EPA can impose sanctions on states that fail to meet the requirements set forth in the CAAA including the following:

- **Highway Sanctions:** The Administrator may impose a prohibition on highway grants other than those designed to improve safety or specifically aimed at reducing the pollution problems (such as public transit programs, construction of high occupancy vehicle lanes, programs to limit or restrict vehicle use, etc.) As far as we know, however, no highway sanctions have been imposed.
- **Offsets:** The offset for certain categories of new or modified sources can be increased to 2 to 1.

- * Multi-State areas - Ozone transport Commission, OTAG
- * Along with State mandates - Federal programs, some of which have not been implemented despite deadlines having passed, include reformulated consumer products such as paint + solvents.
↓
+ industrial

1993-95 COUNTY DESIGN VALUES FOR PRIMARY OZONE NAAQS ALTERNATIVES
(AIRS AIR QUALITY MONITORING DATA BASE, MAY 1996)

STATE COUNTY		1990 POPULATION	1HR,1 EXC 1993-95	8HR,1 EXC 1993-95	8HR,3 EXC 1993-95	8HR,5 EXC 1993-95	AVG 8H MX2 1993-95	AVG 8H MX5 1993-95	8HR MAX5 1993	8HR MAX5 1994	8HR MAX5 1995
AL	CLAY CO	13,252	0.116	0.097	0.089	0.083	0.090	0.083	0.081	0.076	0.092
AL	COLBERT CO	51,666	0.102	0.085	0.083	0.080	0.085	0.081	.	0.081	.
AL	ELMORE CO	49,210	0.111	0.089	0.086	0.081	0.087	0.083	0.086	0.078	0.087
AL	GENEVA CO	23,647	0.082	0.072	0.069	0.068	0.071	0.066	.	0.064	0.069
AL	JEFFERSON CO	651,525	0.127	0.107	0.091	0.089	0.096	0.086	0.085	0.075	0.100
AL	LAWRENCE CO	31,513	0.095	0.085	0.081	0.077	0.083	0.079	0.078	0.077	0.083
AL	MADISON CO	238,912	0.107	0.093	0.084	0.080	0.093	0.082	.	.	0.082
AL	MOBILE CO	378,643	0.104	0.079	0.075	0.072	0.077	0.072	0.069	0.072	0.077
AL	MONTGOMERY CO	209,085	0.114	0.086	0.079	0.078	0.084	0.079	0.084	0.078	0.077
AL	SHELBY CO	99,358	0.125	0.107	0.098	0.093	0.105	0.094	0.095	0.087	0.100
AL	SUMTER CO	16,174	0.085	0.074	0.069	0.067	0.074	0.067	0.068	0.064	0.071
AK	YUKON-KOYUKUK CA	8,478	0.058	0.056	0.052	0.049	0.052	0.048	0.048	0.049	.
AZ	COCONINO CO	96,591	0.073	0.070	0.067	0.065	0.067	0.066	0.064	0.069	.
AZ	MARICOPA CO	2,122,101	0.129	0.096	0.091	0.088	0.092	0.089	0.088	0.087	0.093
AZ	PIMA CO	666,880	0.104	0.084	0.082	0.079	0.084	0.080	0.079	0.080	0.083
AR	CRITTENDEN CO	49,939	0.118	0.099	0.089	0.084	0.098	0.085	0.076	0.080	0.099
AR	MONTGOMERY CO	7,841	0.080	0.074	0.071	0.068	0.067	0.065	0.060	0.062	0.074
AR	NEWTON CO	7,666	0.080	0.075	0.071	0.070	0.072	0.068	0.063	0.072	0.070
AR	PULASKI CO	349,660	0.104	0.088	0.083	0.079	0.086	0.080	0.075	0.081	0.085
CA	ALAMEDA CO	1,279,182	0.138	0.099	0.092	0.088	0.096	0.082	0.079	0.075	0.094
CA	AMADOR CO	30,039	0.119	0.097	0.092	0.089	0.094	0.091	0.088	0.094	0.091
CA	BUTTE CO	182,120	0.097	0.083	0.081	0.079	0.081	0.078	0.076	0.083	0.075
CA	CALAVERAS CO	31,998	0.121	0.102	0.097	0.095	0.101	0.095	.	0.097	0.094
CA	COLUSA CO	16,275	0.101	0.086	0.083	0.081	0.086	0.081	0.079	0.082	0.084
CA	CONTRA COSTA CO	803,732	0.130	0.096	0.084	0.080	0.094	0.080	0.078	0.075	0.088
CA	DEL NORTE CO	23,460	0.060	0.053	0.050	0.049	0.052	0.050	0.049	0.051	.
CA	EL DORADO CO	125,995	0.124	0.105	0.102	0.098	0.103	0.098	0.090	0.099	0.105
CA	FRESNO CO	667,490	0.144	0.117	0.110	0.107	0.115	0.108	0.111	0.105	0.108
CA	GLENN CO	24,798	0.099	0.086	0.080	0.079	0.084	0.079	.	0.080	0.079
CA	IMPERIAL CO	109,303	0.205	0.116	0.105	0.103	0.114	0.104	0.104	0.105	0.105
CA	INYO CO	18,281	0.098	0.088	0.084	0.080	0.088	0.081	.	0.081	.
CA	KERN CO	543,477	0.165	0.126	0.121	0.118	0.126	0.119	0.116	0.118	0.123
CA	KINGS CO	101,469	0.110	0.097	0.087	0.085	0.089	0.086	.	0.092	0.080
CA	LAKE CO	50,631	0.080	0.067	0.065	0.063	0.066	0.059	0.060	0.065	0.053
CA	LOS ANGELES CO	8,863,164	0.250	0.172	0.161	0.151	0.165	0.153	0.170	0.148	0.143
CA	MADERA CO	88,090	0.130	0.105	0.101	0.095	0.098	0.092	0.104	0.079	0.095
CA	MARIN CO	230,096	0.082	0.061	0.056	0.053	0.060	0.055	0.054	0.054	0.057
CA	MARIPOSA CO	14,302	0.113	0.103	0.094	0.090	0.100	0.091	.	0.094	0.089
CA	MENDOCINO CO	80,345	0.080	0.062	0.058	0.053	0.062	0.054	0.053	0.057	0.054
CA	MERCED CO	178,403	0.125	0.108	0.103	0.098	0.106	0.098	0.094	0.095	0.105
CA	MONO CO	9,956	0.110	0.090	0.082	0.080	0.088	0.079	0.075	0.086	0.076
CA	MONTEREY CO	355,660	0.090	0.078	0.075	0.068	0.075	0.069	0.075	0.068	0.064
CA	NAPA CO	110,765	0.105	0.082	0.074	0.068	0.080	0.071	0.070	0.066	0.077

CEA Spreadsheets Design Values (March 1997)

CA	NEVADA CO	78,510	0.110	0.092	0.086	0.083	0.099	0.090	.	0.090	.
CA	ORANGE CO	2,410,556	0.170	0.122	0.109	0.098	0.119	0.102	0.108	0.110	0.088
CA	PLACER CO	172,796	0.134	0.114	0.106	0.103	0.113	0.104	0.103	0.106	0.104
CA	RIVERSIDE CO	1,170,413	0.220	0.161	0.148	0.144	0.157	0.145	0.151	0.144	0.141
CA	SACRAMENTO CO	1,041,219	0.145	0.118	0.109	0.103	0.114	0.105	0.103	0.104	0.109
CA	SAN BENITO CO	36,697	0.110	0.082	0.080	0.077	0.081	0.078	.	0.078	.
CA	SAN BERNARDINO CO	1,418,380	0.234	0.181	0.166	0.163	0.174	0.164	0.168	0.160	0.165
CA	SAN DIEGO CO	2,498,016	0.146	0.121	0.111	0.107	0.117	0.108	0.113	0.106	0.107
CA	SAN FRANCISCO CO	723,959	0.080	0.050	0.045	0.043	0.051	0.044	0.041	0.044	0.049
CA	SAN JOAQUIN CO	480,628	0.124	0.097	0.087	0.083	0.095	0.085	0.084	0.087	0.084
CA	SAN LUIS OBISPO CO	217,162	0.101	0.080	0.076	0.073	0.080	0.077	.	0.076	0.078
CA	SAN MATEO CO	649,623	0.103	0.076	0.064	0.053	0.068	0.056	0.048	0.047	0.074
CA	SANTA BARBARA CO	369,608	0.126	0.101	0.092	0.086	0.097	0.088	0.085	0.092	0.088
CA	SANTA CLARA CO	1,497,577	0.130	0.099	0.088	0.084	0.102	0.091	.	.	0.091
CA	SANTA CRUZ CO	229,734	0.094	0.074	0.071	0.065	0.075	0.066	.	0.066	.
CA	SHASTA CO	147,036	0.090	0.082	0.078	0.075	0.075	0.071	0.064	0.079	.
CA	SISKIYOU CO	43,531	0.070	0.062	0.060	0.058	0.061	0.056	0.053	0.061	0.056
CA	SOLANO CO	340,421	0.109	0.092	0.080	0.075	0.085	0.077	0.074	0.072	0.086
CA	SONOMA CO	388,222	0.090	0.072	0.065	0.061	0.068	0.062	0.068	0.061	0.058
CA	STANISLAUS CO	370,522	0.130	0.106	0.098	0.094	0.103	0.094	0.094	0.087	0.103
CA	SUTTER CO	64,415	0.112	0.097	0.086	0.083	0.092	0.084	0.079	0.089	0.084
CA	TEHAMA CO	49,625	0.100	0.093	0.087	0.085	0.091	0.084	0.083	0.081	0.089
CA	TULARE CO	311,921	0.150	0.116	0.112	0.108	0.114	0.109	0.105	0.113	.
CA	TUOLUMNE CO	48,456	0.103	0.090	0.088	0.086	0.092	0.087	0.088	0.087	0.088
CA	VENTURA CO	669,016	0.157	0.127	0.122	0.118	0.124	0.116	0.111	0.116	0.123
CA	YOLO CO	141,092	0.103	0.087	0.078	0.076	0.084	0.077	0.075	0.076	0.082
CO	ADAMS CO	265,038	0.089	0.073	0.069	0.068	0.071	0.068	0.068	0.069	0.069
CO	ARAPAHOE CO	391,511	0.099	0.077	0.073	0.070	0.076	0.071	0.070	0.075	0.069
CO	BOULDER CO	225,339	0.095	0.078	0.073	0.071	0.076	0.071	0.073	0.067	0.073
CO	DENVER CO	467,610	0.093	0.069	0.065	0.063	0.067	0.064	0.064	0.063	0.067
CO	DOUGLAS CO	60,391	0.098	0.076	0.073	0.072	0.077	0.074	.	.	0.074
CO	EL PASO CO	397,014	0.079	0.065	0.061	0.061	0.063	0.061	0.061	0.062	0.061
CO	JEFFERSON CO	438,430	0.112	0.088	0.083	0.079	0.086	0.081	0.085	0.079	0.079
CO	LARIMER CO	186,136	0.099	0.081	0.075	0.072	0.077	0.073	0.071	0.076	.
CO	MONTEZUMA CO	18,672	0.069	0.063	0.063	0.062	0.064	0.063	.	0.063	.
CO	WELD CO	131,821	0.092	0.074	0.069	0.066	0.072	0.067	0.063	0.068	0.071
CT	FAIRFIELD CO	827,645	0.165	0.119	0.111	0.101	0.120	0.103	0.110	0.090	0.110
CT	HARTFORD CO	851,783	0.141	0.108	0.097	0.093	0.106	0.094	0.091	0.097	0.094
CT	LITCHFIELD CO	174,092	0.128	0.102	0.096	0.092	0.101	0.093	0.097	0.093	0.091
CT	MIDDLESEX CO	143,196	0.153	0.113	0.104	0.098	0.114	0.101	0.104	0.102	0.097
CT	NEW HAVEN CO	804,219	0.149	0.123	0.106	0.103	0.119	0.104	0.105	0.092	0.116
CT	NEW LONDON CO	254,957	0.132	0.105	0.098	0.093	0.104	0.095	0.099	0.089	0.097
CT	TOLLAND CO	128,699	0.130	0.109	0.098	0.093	0.111	0.093	0.098	0.096	0.087
DE	KENT CO	110,993	0.137	0.111	0.097	0.088	0.111	0.090	.	.	0.090
DE	NEW CASTLE CO	441,946	0.139	0.118	0.106	0.100	0.119	0.103	0.101	0.101	0.109
DE	SUSSEX CO	113,229	0.111	0.098	0.092	0.088	0.095	0.088	0.093	0.084	0.087
DC	WASHINGTON	606,900	0.135	0.111	0.101	0.097	0.107	0.094	0.101	0.087	0.095
FL	BREVARD CO	398,978	0.085	0.079	0.072	0.070	0.077	0.070	0.072	0.072	0.067
FL	BROWARD CO	1,255,488	0.103	0.087	0.077	0.069	0.083	0.072	0.082	0.070	0.066

FL	DADE CO	1,937,094	0.111	0.088	0.081	0.076	0.087	0.079	0.085	0.076	0.077
FL	DUVAL CO	672,971	0.117	0.087	0.081	0.078	0.085	0.079	0.079	0.078	0.080
FL	ESCAMBIA CO	262,798	0.117	0.096	0.087	0.082	0.094	0.084	0.083	0.083	0.086
FL	HILLSBOROUGH CO	834,054	0.106	0.086	0.080	0.078	0.084	0.079	0.079	0.080	0.080
FL	LEE CO	335,113	0.089	0.079	0.073	0.068	0.076	0.069	0.067	0.072	0.068
FL	MANATEE CO	211,707	0.094	0.078	0.077	0.074	0.078	0.075	0.076	0.076	0.074
FL	ORANGE CO	677,491	0.101	0.085	0.079	0.078	0.084	0.078	0.079	0.077	0.079
FL	OSCEOLA CO	107,728	0.095	0.077	0.075	0.073	0.078	0.072	.	0.076	0.069
FL	PALM BEACH CO	863,518	0.099	0.079	0.074	0.067	0.078	0.070	0.075	0.068	0.067
FL	PASCO CO	281,131	0.092	0.077	0.075	0.073	0.076	0.073	0.073	0.075	0.073
FL	PINELLAS CO	851,659	0.092	0.077	0.074	0.072	0.074	0.072	0.071	0.073	0.072
FL	POLK CO	405,382	0.100	0.083	0.076	0.073	0.080	0.076	0.083	0.073	0.074
FL	ST JOHNS CO	83,829	0.099	0.082	0.075	0.072	0.078	0.073	0.073	0.075	0.071
FL	SARASOTA CO	277,776	0.099	0.086	0.079	0.077	0.083	0.077	0.077	0.081	0.075
FL	SEMINOLE CO	287,529	0.098	0.086	0.078	0.074	0.081	0.075	0.079	0.072	0.074
FL	VOLUSIA CO	370,712	0.093	0.078	0.072	0.069	0.075	0.071	0.075	0.072	0.068
GA	CHATHAM CO	216,935	0.089	0.076	0.073	0.070	0.076	0.073	.	.	0.073
GA	DE KALB CO	545,837	0.147	0.120	0.108	0.100	0.117	0.101	.	.	0.101
GA	DOUGLAS CO	71,120	0.140	0.116	0.103	0.097	0.115	0.095	0.100	0.082	0.103
GA	FANNIN CO	15,992	0.098	0.082	0.077	0.073	0.084	0.074	.	0.072	0.077
GA	FULTON CO	648,951	0.149	0.125	0.112	0.105	0.116	0.104	0.110	0.089	0.113
GA	GWINNETT CO	352,910	0.123	0.102	0.100	0.093	0.103	0.097	.	.	0.097
GA	MUSCOGEE CO	179,278	0.112	0.091	0.086	0.083	0.086	0.081	.	0.075	0.087
GA	RICHMOND CO	189,719	0.113	0.093	0.088	0.085	0.093	0.086	0.088	0.085	0.085
GA	ROCKDALE CO	54,091	0.141	0.118	0.108	0.105	0.115	0.104	0.108	0.095	0.109
HI	HONOLULU CO	836,231	0.056	0.052	0.050	0.048	0.051	0.050	0.049	0.051	.
ID	BUTTE CO	2,918	0.070	0.065	0.063	0.061	0.063	0.059	0.055	0.063	.
IL	ADAMS CO	66,090	0.084	0.074	0.071	0.068	0.073	0.067	0.063	0.065	0.074
IL	CHAMPAIGN CO	173,025	0.094	0.087	0.081	0.079	0.081	0.076	0.065	0.082	0.081
IL	COOK CO	5,105,067	0.133	0.101	0.095	0.094	0.099	0.095	.	.	0.095
IL	DU PAGE CO	781,666	0.104	0.083	0.074	0.068	0.076	0.073	0.067	0.070	0.082
IL	EFFINGHAM CO	31,704	0.095	0.087	0.083	0.080	0.084	0.081	0.072	0.084	0.087
IL	JERSEY CO	20,539	0.120	0.090	0.085	0.081	0.087	0.083	0.081	0.082	0.088
IL	KANE CO	317,471	0.117	0.102	0.086	0.078	0.091	0.080	0.073	0.078	0.090
IL	LAKE CO	516,418	0.113	0.106	0.096	0.088	0.101	0.089	.	0.080	0.098
IL	MC HENRY CO	183,241	0.108	0.096	0.087	0.078	0.091	0.079	0.075	0.071	0.093
IL	MACON CO	117,206	0.095	0.084	0.079	0.077	0.083	0.074	0.064	0.079	0.080
IL	MACOUPIN CO	47,679	0.103	0.089	0.083	0.080	0.088	0.080	0.077	0.083	0.082
IL	MADISON CO	249,238	0.125	0.100	0.092	0.090	0.095	0.086	0.078	0.087	0.095
IL	PEORIA CO	182,827	0.095	0.087	0.082	0.080	0.083	0.076	0.064	0.079	0.087
IL	RANDOLPH CO	34,583	0.102	0.087	0.081	0.080	0.081	0.078	0.069	0.084	0.081
IL	ROCK ISLAND CO	148,723	0.085	0.076	0.071	0.068	0.073	0.067	0.060	0.069	0.072
IL	ST CLAIR CO	262,852	0.117	0.092	0.082	0.080	0.085	0.076	0.070	0.075	0.084
IL	SANGAMON CO	178,386	0.104	0.089	0.081	0.079	0.087	0.080	0.080	0.080	0.080
IL	WILL CO	357,313	0.112	0.096	0.082	0.079	0.090	0.081	.	.	0.081
IL	WINNEBAGO CO	252,913	0.101	0.090	0.079	0.073	0.084	0.074	0.062	0.077	0.084
IN	ALLEN CO	300,836	0.112	0.099	0.092	0.091	0.095	0.089	0.078	0.092	0.097
IN	CLARK CO	87,777	0.133	0.113	0.101	0.097	0.108	0.100	0.099	0.103	0.098
IN	ELKHART CO	156,198	0.100	0.096	0.084	0.083	0.089	0.081	0.077	0.082	0.086

IN	FLOYD CO	64,404	0.115	0.096	0.094	0.093	0.096	0.094	.	.	0.094
IN	HAMILTON CO	108,936	0.112	0.099	0.096	0.094	0.097	0.093	0.088	0.098	0.095
IN	HANCOCK CO	45,527	0.117	0.099	0.094	0.089	0.097	0.089	0.085	0.095	0.089
IN	KOSCIUSKO CO	65,294	0.100	0.087	0.086	0.083	0.088	0.085	.	.	0.085
IN	LAKE CO	475,594	0.113	0.101	0.089	0.085	0.092	0.082	0.068	0.083	0.096
IN	LA PORTE CO	107,066	0.131	0.114	0.103	0.093	0.102	0.094	0.081	0.092	0.109
IN	MADISON CO	130,669	0.115	0.100	0.095	0.092	0.096	0.091	0.081	0.098	0.095
IN	MARION CO	797,159	0.113	0.099	0.095	0.093	0.097	0.091	0.084	0.095	0.095
IN	PORTER CO	128,932	0.118	0.104	0.095	0.088	0.091	0.084	0.069	0.085	0.098
IN	ST JOSEPH CO	247,052	0.108	0.101	0.089	0.084	0.091	0.085	0.076	0.088	0.092
IN	TIPPECANOE CO	130,598	0.104	0.090	0.085	0.084	0.090	0.085	.	.	0.085
IN	VANDEBURGH CO	165,058	0.114	0.101	0.096	0.094	0.097	0.093	0.087	0.098	0.094
IN	VIGO CO	106,107	0.104	0.094	0.089	0.086	0.088	0.083	0.071	0.094	0.084
IN	WARRICK CO	44,920	0.131	0.110	0.107	0.100	0.100	0.092	0.083	0.109	0.085
IA	LINN CO	168,767	0.074	0.066	0.063	0.060	0.064	0.060	0.058	0.060	0.064
IA	POLK CO	327,140	0.089	0.075	0.068	0.064	0.080	0.075	.	.	0.075
IA	SCOTT CO	150,979	0.095	0.087	0.081	0.074	0.083	0.076	0.072	0.075	0.081
IA	VAN BUREN CO	7,676	0.082	0.071	0.069	0.067	0.072	0.070	.	.	0.070
KS	SEDGWICK CO	403,662	0.090	0.077	0.075	0.071	0.074	0.070	0.060	0.074	0.076
KS	SHERMAN CO	6,926	0.080	0.067	0.066	0.063	0.068	0.064	.	0.063	0.066
KS	WYANDOTTE CO	161,993	0.107	0.092	0.086	0.079	0.081	0.073	0.061	0.071	0.088
KY	BELL CO	31,506	0.092	0.083	0.076	0.073	0.081	0.073	0.072	0.071	0.078
KY	BOONE CO	57,589	0.111	0.092	0.084	0.081	0.085	0.082	0.077	0.088	0.081
KY	BOYD CO	51,150	0.123	0.102	0.090	0.086	0.096	0.087	0.087	0.087	0.089
KY	BULLITT CO	47,567	0.112	0.095	0.087	0.084	0.091	0.084	0.087	0.080	0.085
KY	CAMPBELL CO	83,866	0.115	0.097	0.092	0.086	0.092	0.087	0.079	0.092	0.092
KY	CHRISTIAN CO	68,941	0.105	0.094	0.083	0.082	0.090	0.085	0.081	0.090	.
KY	DAVISS CO	87,189	0.107	0.095	0.088	0.080	0.092	0.085	0.081	0.088	0.086
KY	EDMONSON CO	10,357	0.113	0.081	0.075	0.073	0.078	0.073	0.071	0.076	.
KY	FAYETTE CO	225,366	0.108	0.097	0.088	0.086	0.091	0.086	0.084	0.086	0.089
KY	GRAVES CO	33,550	0.093	0.080	0.074	0.068	0.078	0.072	0.075	.	0.070
KY	GREENUP CO	36,742	0.121	0.099	0.089	0.085	0.095	0.085	0.083	0.091	0.082
KY	HANCOCK CO	7,864	0.114	0.097	0.090	0.085	0.092	0.088	0.081	0.089	0.094
KY	HARDIN CO	89,240	0.116	0.099	0.094	0.090	0.097	0.091	0.085	0.094	0.095
KY	HENDERSON CO	43,044	0.108	0.092	0.088	0.083	0.090	0.085	0.080	0.088	0.088
KY	JEFFERSON CO	664,937	0.123	0.102	0.094	0.089	0.102	0.091	0.088	0.095	0.090
KY	JESSAMINE CO	30,508	0.103	0.093	0.085	0.081	0.089	0.082	0.076	0.084	0.086
KY	KENTON CO	142,031	0.117	0.102	0.097	0.093	0.097	0.091	0.079	0.098	0.096
KY	LAWRENCE CO	13,998	0.115	0.091	0.084	0.083	0.088	0.083	0.076	0.090	0.083
KY	LIVINGSTON CO	9,062	0.109	0.093	0.087	0.085	0.091	0.086	0.086	0.087	0.085
KY	MC CRACKEN CO	62,879	0.103	0.085	0.079	0.074	0.082	0.073	0.065	0.081	0.075
KY	MC LEAN CO	9,628	0.110	0.098	0.090	0.086	0.094	0.087	0.080	0.097	0.085
KY	OLDHAM CO	33,263	0.112	0.094	0.088	0.088	0.092	0.087	0.085	0.089	0.088
KY	PERRY CO	30,283	0.088	0.082	0.075	0.072	0.080	0.073	0.070	0.073	0.076
KY	PIKE CO	72,583	0.102	0.091	0.086	0.085	0.094	0.084	.	0.082	0.087
KY	PULASKI CO	49,489	0.099	0.091	0.081	0.079	0.089	0.079	0.077	0.079	0.081
KY	SCOTT CO	23,867	0.111	0.097	0.091	0.085	0.093	0.086	0.079	0.092	0.087
KY	SIMPSON CO	15,145	0.097	0.085	0.080	0.078	0.084	0.078	0.074	0.078	0.084
LA	ASCENSION PAR	58,214	0.126	0.095	0.090	0.088	0.097	0.087	0.089	0.082	0.091

LA	BEAUREGARD PAR	30,083	0.109	0.092	0.078	0.075	0.082	0.075	0.068	0.082	0.077
LA	BOSSIER PAR	86,088	0.112	0.092	0.084	0.081	0.086	0.083	0.092	0.081	0.077
LA	CADDO PAR	248,253	0.102	0.087	0.083	0.080	0.085	0.080	0.082	0.077	0.083
LA	CALCASIEU PAR	168,134	0.123	0.097	0.088	0.082	0.093	0.082	0.089	0.076	0.083
LA	EAST BATON ROUGE PAR	380,105	0.139	0.101	0.091	0.087	0.099	0.088	0.085	0.087	0.092
LA	GRANT PAR	17,526	0.095	0.087	0.082	0.079	0.088	0.081	.	.	0.081
LA	IBERVILLE PAR	31,049	0.125	0.101	0.094	0.091	0.099	0.091	0.087	0.090	0.096
LA	JEFFERSON PAR	448,306	0.110	0.089	0.084	0.082	0.087	0.080	0.079	0.077	0.086
LA	LAFAYETTE PAR	164,762	0.109	0.094	0.089	0.086	0.090	0.085	.	0.080	0.090
LA	LAFOURCHE PAR	85,860	0.127	0.101	0.094	0.087	0.092	0.086	0.076	0.084	0.100
LA	LIVINGSTON PAR	70,526	0.117	0.094	0.088	0.083	0.093	0.085	0.085	0.084	0.087
LA	ORLEANS PAR	496,938	0.099	0.080	0.073	0.072	0.082	0.073	0.074	0.073	0.073
LA	OUACHITA PAR	142,191	0.098	0.082	0.081	0.079	0.082	0.078	0.075	0.079	0.081
LA	POINTE COUPEE PAR	22,540	0.106	0.091	0.083	0.081	0.090	0.082	0.081	0.082	0.083
LA	ST BERNARD PAR	66,631	0.117	0.093	0.085	0.081	0.094	0.082	0.085	0.085	0.077
LA	ST CHARLES PAR	42,437	0.114	0.091	0.085	0.083	0.088	0.083	0.081	0.082	0.086
LA	ST JAMES PAR	20,879	0.119	0.094	0.087	0.082	0.089	0.080	0.069	0.081	0.091
LA	ST JOHN THE BAPTIST PAR	39,996	0.114	0.096	0.085	0.082	0.094	0.083	0.078	0.086	0.085
LA	ST MARY PAR	58,086	0.103	0.089	0.085	0.082	0.082	0.076	0.071	0.070	0.088
LA	WEST BATON ROUGE PAR	19,419	0.111	0.094	0.081	0.078	0.091	0.077	0.074	0.076	0.082
ME	CUMBERLAND CO	243,135	0.122	0.102	0.091	0.087	0.099	0.088	0.086	0.087	0.092
ME	HANCOCK CO	46,948	0.105	0.092	0.082	0.077	0.088	0.080	0.080	0.074	0.086
ME	KENNEBEC CO	115,904	0.098	0.085	0.075	0.073	0.082	0.074	0.074	0.076	0.074
ME	KNOX CO	36,310	0.123	0.099	0.089	0.084	0.103	0.086	0.084	0.085	0.089
ME	OXFORD CO	52,602	0.093	0.075	0.063	0.060	0.073	0.062	0.060	0.067	0.061
ME	PENOBSCOT CO	146,601	0.104	0.085	0.078	0.075	0.084	0.075	0.078	0.070	0.078
ME	PISCATAQUIS CO	18,653	0.084	0.079	0.072	0.065	0.075	0.065	.	0.058	0.072
ME	SAGadahoc CO	33,535	0.139	0.104	0.091	0.087	0.110	0.088	0.089	0.091	0.086
ME	SOMERSET CO	49,767	0.093	0.078	0.072	0.065	0.079	0.066	0.063	0.066	0.069
ME	WASHINGTON CO	35,308	0.104	0.086	0.082	0.075	0.086	0.073	0.064	0.074	0.082
ME	YORK CO	164,587	0.129	0.104	0.096	0.093	0.104	0.092	0.095	0.089	0.094
MD	ANNE ARUNDEL CO	427,239	0.151	0.116	0.107	0.103	0.120	0.104	0.104	0.104	0.106
MD	BALTIMORE CO	692,134	0.137	0.113	0.100	0.097	0.105	0.097	0.094	0.094	0.104
MD	CARROLL CO	123,372	0.121	0.108	0.099	0.095	0.106	0.095	0.100	0.091	0.095
MD	CECIL CO	71,347	0.146	0.114	0.108	0.098	0.111	0.102	0.106	0.090	0.110
MD	CHARLES CO	101,154	0.122	0.108	0.096	0.090	0.102	0.091	0.101	0.083	0.090
MD	HARFORD CO	182,132	0.141	0.121	0.108	0.102	0.117	0.104	0.100	0.108	0.106
MD	KENT CO	17,842	0.122	0.107	0.095	0.091	0.101	0.093	0.096	0.088	0.097
MD	MONTGOMERY CO	757,027	0.121	0.105	0.097	0.092	0.104	0.092	0.094	0.087	0.097
MD	PRINCE GEORGES CO	729,268	0.131	0.111	0.100	0.096	0.110	0.096	0.099	0.090	0.100
MD	BALTIMORE	736,014	0.140	0.120	0.114	0.109	0.120	0.111	.	.	0.111
MA	BARNSTABLE CO	186,605	0.124	0.105	0.092	0.087	0.102	0.089	0.083	0.085	0.101
MA	BERKSHIRE CO	139,352	0.112	0.083	0.078	0.074	0.088	0.076	0.080	.	0.073
MA	BRISTOL CO	506,325	0.122	0.107	0.094	0.089	0.101	0.090	0.088	0.090	0.092
MA	ESSEX CO	670,080	0.120	0.103	0.091	0.084	0.098	0.085	0.077	0.088	0.092
MA	HAMPDEN CO	456,310	0.130	0.106	0.095	0.090	0.104	0.092	0.093	0.090	0.093
MA	HAMPSHIRE CO	146,568	0.131	0.106	0.096	0.090	0.103	0.091	0.089	0.095	0.090
MA	MIDDLESEX CO	1,398,468	0.125	0.105	0.092	0.090	0.100	0.089	0.085	0.092	0.091
MA	PLYMOUTH CO	435,276	0.108	0.088	0.082	0.079	0.088	0.079	0.082	0.079	0.076

MA	SUFFOLK CO	663,906	0.111	0.086	0.081	0.078	0.085	0.078	0.078	0.075	0.082
MA	WORCESTER CO	709,705	0.130	0.108	0.097	0.091	0.109	0.093	0.091	0.095	0.093
MI	ALLEGAN CO	90,509	0.135	0.110	0.096	0.092	0.107	0.092	0.081	0.089	0.106
MI	BENZIE CO	12,200	0.108	0.099	0.086	0.083	0.092	0.086	0.083	0.085	0.090
MI	BERRIEN CO	161,378	0.115	0.098	0.086	0.083	0.092	0.087	0.078	0.087	0.098
MI	CASS CO	49,477	0.110	0.101	0.092	0.090	0.094	0.089	0.079	0.091	0.098
MI	CLINTON CO	57,883	0.098	0.088	0.078	0.075	0.083	0.076	0.078	0.075	0.076
MI	GENESEE CO	430,459	0.097	0.086	0.081	0.076	0.084	0.076	0.069	0.077	0.082
MI	HURON CO	34,951	0.119	0.096	0.083	0.080	0.090	0.082	.	0.083	0.081
MI	INGHAM CO	281,912	0.099	0.090	0.084	0.080	0.088	0.078	0.078	0.072	0.086
MI	KALAMAZOO CO	223,411	0.102	0.093	0.089	0.081	0.090	0.083	0.080	0.081	0.090
MI	KENT CO	500,631	0.114	0.107	0.089	0.084	0.099	0.085	0.078	0.085	0.092
MI	LENAAWEE CO	91,476	0.099	0.091	0.087	0.082	0.089	0.084	.	0.083	0.086
MI	MACOMB CO	717,400	0.129	0.106	0.094	0.090	0.106	0.090	0.084	0.095	0.093
MI	MASON CO	25,537	0.125	0.110	0.098	0.091	0.102	0.093	0.091	0.085	0.104
MI	MUSKEGON CO	158,983	0.141	0.117	0.095	0.091	0.102	0.092	0.082	0.091	0.103
MI	OAKLAND CO	1,083,592	0.120	0.093	0.084	0.081	0.089	0.081	0.074	0.086	0.084
MI	OTTAWA CO	187,768	0.116	0.094	0.086	0.083	0.095	0.084	.	0.086	0.083
MI	ST CLAIR CO	145,607	0.129	0.104	0.092	0.086	0.100	0.090	0.083	0.091	0.096
MI	WASHTENAW CO	282,937	0.104	0.088	0.083	0.076	0.089	0.077	0.074	0.074	0.084
MI	WAYNE CO	2,111,687	0.124	0.098	0.091	0.085	0.097	0.085	0.079	0.087	0.090
MN	ANOKA CO	243,641	0.102	0.090	0.080	0.072	0.078	0.068	0.057	.	0.079
MN	DAKOTA CO	275,227	0.091	0.074	0.069	0.065	0.068	0.063	0.060	0.066	.
MN	KOOCHICHING CO	16,299	0.075	0.070	0.065	0.060	0.067	0.063	0.058	0.061	0.070
MN	LAKE CO	10,415	0.078	0.074	0.071	0.067	0.070	0.063	.	0.067	0.060
MN	WASHINGTON CO	145,896	0.103	0.088	0.080	0.074	0.082	0.075	0.066	.	0.085
MS	ADAMS CO	35,356	0.099	0.079	0.077	0.073	0.080	0.073	0.077	0.070	0.074
MS	DE SOTO CO	67,910	0.109	0.096	0.085	0.083	0.093	0.081	0.080	0.080	0.085
MS	FRANKLIN CO	8,377	0.093	0.083	0.075	0.073	0.081	0.074	0.073	0.071	0.080
MS	HANCOCK CO	31,760	0.113	0.094	0.087	0.084	0.091	0.084	0.075	0.092	0.086
MS	HINDS CO	254,441	0.087	0.075	0.071	0.070	0.073	0.071	0.069	0.069	0.075
MS	JACKSON CO	115,243	0.095	0.084	0.081	0.077	0.082	0.077	0.075	0.076	0.082
MS	LAUDERDALE CO	75,555	0.086	0.076	0.071	0.069	0.073	0.068	0.062	0.069	0.074
MS	LEE CO	65,581	0.094	0.083	0.075	0.072	0.077	0.072	0.068	0.068	0.082
MS	MADISON CO	53,794	0.089	0.081	0.077	0.075	0.082	0.075	0.074	0.077	0.076
MS	SHARKEY CO	7,066	0.096	0.086	0.082	0.080	0.086	0.080	0.078	0.080	0.083
MS	WARREN CO	47,880	0.091	0.078	0.075	0.073	0.080	0.073	0.072	0.073	0.076
MO	CLAY CO	153,411	0.128	0.103	0.095	0.089	0.096	0.089	0.080	0.089	0.098
MO	GREENE CO	207,949	0.099	0.085	0.078	0.075	0.080	0.073	0.063	0.072	0.085
MO	JACKSON CO	633,232	0.089	0.078	0.077	0.074	0.075	0.073	0.072	0.069	0.078
MO	JEFFERSON CO	171,380	0.125	0.104	0.100	0.094	0.098	0.091	0.077	0.100	0.096
MO	MONROE CO	9,104	0.094	0.086	0.082	0.080	0.082	0.078	0.071	0.082	0.083
MO	PLATTE CO	57,867	0.110	0.090	0.084	0.083	0.089	0.080	0.070	0.079	0.091
MO	ST CHARLES CO	212,907	0.147	0.114	0.106	0.104	0.115	0.097	.	.	0.097
MO	ST LOUIS CO	993,529	0.129	0.107	0.097	0.090	0.105	0.089	0.075	0.106	0.087
MO	ST LOUIS	396,685	0.113	0.089	0.085	0.082	0.089	0.079	0.070	0.081	0.086
NE	DOUGLAS CO	416,444	0.084	0.075	0.069	0.067	0.066	0.062	0.047	0.065	0.074
NE	LANCASTER CO	213,641	0.075	0.063	0.059	0.058	0.060	0.056	0.049	0.059	0.060
NV	CLARK CO	741,459	0.100	0.085	0.082	0.079	0.084	0.078	0.076	0.084	0.076

NV	DOUGLAS CO	27,637	0.081	0.071	0.067	0.066	0.070	0.066	0.065	0.069	0.066
NV	WASHOE CO	254,667	0.090	0.075	0.070	0.068	0.071	0.067	0.064	0.070	0.069
NV	WHITE PINE CO	9,264	0.075	0.071	0.069	0.068	0.072	0.068	.	0.068	.
NH	CHESHIRE CO	70,121	0.092	0.081	0.076	0.074	0.082	0.075	0.080	0.077	0.070
NH	HILLSBOROUGH CO	336,073	0.115	0.098	0.087	0.083	0.095	0.085	0.083	0.084	0.088
NH	MERRIMACK CO	120,005	0.086	0.081	0.072	0.069	0.080	0.071	0.076	0.070	0.067
NH	ROCKINGHAM CO	245,845	0.130	0.101	0.097	0.087	0.100	0.088	0.088	0.092	0.086
NH	SULLIVAN CO	38,592	0.089	0.076	0.072	0.068	0.074	0.070	0.067	0.070	0.073
NJ	ATLANTIC CO	224,327	0.115	0.101	0.096	0.091	0.097	0.091	0.093	0.082	0.098
NJ	BERGEN CO	825,380	0.121	0.104	0.090	0.086	0.096	0.086	0.079	0.088	0.093
NJ	CAMDEN CO	502,824	0.138	0.121	0.107	0.104	0.115	0.101	0.109	0.092	0.102
NJ	CUMBERLAND CO	138,053	0.121	0.105	0.099	0.094	0.103	0.092	0.102	0.085	0.090
NJ	ESSEX CO	778,206	0.113	0.099	0.088	0.083	0.093	0.085	0.080	0.083	0.093
NJ	GLOUCESTER CO	230,082	0.127	0.115	0.106	0.097	0.109	0.100	0.104	0.088	0.109
NJ	HUDSON CO	553,099	0.129	0.108	0.103	0.096	0.107	0.099	0.103	0.094	0.102
NJ	HUNTERDON CO	107,776	0.118	0.104	0.099	0.094	0.103	0.096	0.098	0.089	0.102
NJ	MERCER CO	325,824	0.135	0.116	0.106	0.101	0.113	0.104	0.103	0.102	0.107
NJ	MIDDLESEX CO	671,780	0.150	0.119	0.109	0.105	0.119	0.107	.	.	0.107
NJ	MONMOUTH CO	553,124	0.138	0.116	0.095	0.088	0.108	0.095	0.092	0.083	0.111
NJ	MORRIS CO	421,353	0.124	0.110	0.103	0.096	0.108	0.097	0.096	0.094	0.103
NJ	OCEAN CO	433,203	0.139	0.124	0.104	0.100	0.115	0.105	0.100	0.098	0.118
NJ	UNION CO	493,819	0.122	0.098	0.088	0.086	0.096	0.087	.	.	0.087
NM	BERNALILLO CO	480,577	0.098	0.079	0.073	0.070	0.074	0.068	0.060	0.075	0.071
NM	DONA ANA CO	135,510	0.136	0.091	0.084	0.081	0.094	0.080	0.076	0.082	0.082
NM	SANDOVAL CO	63,319	0.094	0.080	0.075	0.074	0.081	0.076	.	0.076	0.076
NM	VALENCIA CO	45,235	0.076	0.066	0.065	0.064	0.064	0.063	0.062	0.061	0.066
NY	ALBANY CO	292,594	0.109	0.089	0.085	0.082	0.088	0.083	0.085	0.085	0.081
NY	BRONX CO	1,203,789	0.120	0.110	0.100	0.093	0.111	0.094	.	.	0.094
NY	CHAUTAUQUA CO	141,895	0.104	0.090	0.082	0.081	0.088	0.082	0.081	0.080	0.086
NY	CHEMUNG CO	95,195	0.088	0.081	0.075	0.073	0.079	0.074	0.074	0.073	0.076
NY	DUTCHESS CO	259,462	0.119	0.101	0.093	0.087	0.099	0.091	0.098	0.085	0.090
NY	ERIE CO	968,532	0.091	0.083	0.078	0.075	0.084	0.075	0.072	0.076	0.079
NY	ESSEX CO	37,152	0.101	0.097	0.085	0.082	0.092	0.086	0.084	0.081	0.094
NY	HAMILTON CO	5,279	0.095	0.083	0.074	0.071	0.080	0.073	0.069	0.072	0.079
NY	HERKIMER CO	65,797	0.086	0.076	0.069	0.065	0.074	0.069	0.066	0.069	0.072
NY	JEFFERSON CO	110,943	0.108	0.098	0.086	0.080	0.092	0.085	0.080	0.084	0.091
NY	KINGS CO	2,300,664	0.131	0.100	0.095	0.089	0.101	0.089	.	0.083	0.096
NY	MADISON CO	69,120	0.099	0.088	0.081	0.078	0.083	0.079	0.083	0.074	0.081
NY	MONROE CO	713,968	0.103	0.090	0.081	0.075	0.085	0.079	0.074	0.079	0.084
NY	NIAGARA CO	220,756	0.102	0.094	0.085	0.081	0.089	0.083	0.082	0.081	0.088
NY	ONEIDA CO	250,836	0.095	0.082	0.075	0.067	0.079	0.072	0.067	0.072	0.078
NY	ONONDAGA CO	468,973	0.103	0.093	0.084	0.076	0.087	0.080	0.077	0.076	0.088
NY	ORANGE CO	307,647	0.115	0.102	0.095	0.090	0.103	0.091	.	.	0.091
NY	PUTNAM CO	83,941	0.127	0.103	0.092	0.089	0.098	0.091	.	0.093	0.090
NY	QUEENS CO	1,951,598	0.125	0.103	0.088	0.081	0.094	0.086	0.079	0.086	0.095
NY	RICHMOND CO	378,977	0.125	0.109	0.097	0.094	0.103	0.094	0.088	0.096	0.099
NY	SARATOGA CO	181,276	0.098	0.083	0.077	0.075	0.083	0.076	0.077	0.074	0.077
NY	SCHENECTADY CO	149,285	0.095	0.087	0.077	0.074	0.083	0.073	0.073	0.069	0.077
NY	SUFFOLK CO	1,321,864	0.138	0.112	0.101	0.094	0.110	0.095	0.096	0.092	0.099

NY	ULSTER CO	165,304	0.103	0.090	0.087	0.082	0.090	0.083	0.090	0.080	0.081
NY	WAYNE CO	89,123	0.102	0.096	0.083	0.080	0.089	0.084	0.081	0.077	0.094
NY	WESTCHESTER CO	874,866	0.126	0.104	0.094	0.091	0.101	0.091	0.091	0.088	0.096
NC	ALEXANDER CO	27,544	0.092	0.080	0.075	0.074	0.081	0.075	.	0.075	.
NC	BUNCOMBE CO	174,821	0.085	0.076	0.073	0.070	0.073	0.069	0.066	0.067	0.076
NC	BURKE CO	75,744	0.098	0.090	0.080	0.076	0.087	0.077	0.074	0.080	.
NC	CALDWELL CO	70,709	0.095	0.082	0.079	0.078	0.081	0.078	0.076	.	0.080
NC	CAMDEN CO	5,904	0.095	0.087	0.083	0.078	0.085	0.080	0.079	0.084	0.078
NC	CASWELL CO	20,693	0.113	0.100	0.086	0.080	0.099	0.081	.	0.080	0.083
NC	CHATHAM CO	38,759	0.102	0.087	0.081	0.081	0.088	0.084	.	.	0.084
NC	CUMBERLAND CO	274,566	0.106	0.093	0.087	0.083	0.091	0.084	0.090	0.083	0.081
NC	DAVIE CO	27,859	0.101	0.090	0.084	0.082	0.080	0.075	0.085	0.065	.
NC	DUPLIN CO	39,995	0.094	0.085	0.078	0.077	0.081	0.075	0.080	0.076	0.070
NC	DURHAM CO	181,835	0.103	0.089	0.085	0.083	0.088	0.084	0.085	0.084	0.083
NC	FORSYTH CO	265,878	0.111	0.095	0.090	0.086	0.095	0.086	0.084	0.090	0.084
NC	FRANKLIN CO	36,414	0.114	0.096	0.091	0.085	0.090	0.086	0.094	0.086	0.078
NC	GRANVILLE CO	38,345	0.111	0.099	0.091	0.089	0.092	0.088	0.098	0.078	0.089
NC	GUILFORD CO	347,420	0.114	0.096	0.089	0.088	0.097	0.086	0.089	0.086	0.085
NC	HAYWOOD CO	46,942	0.095	0.086	0.079	0.076	0.087	0.086	.	.	0.086
NC	JOHNSTON CO	81,306	0.104	0.097	0.090	0.085	0.097	0.088	.	0.088	.
NC	LINCOLN CO	50,319	0.108	0.094	0.090	0.087	0.094	0.088	.	0.088	0.088
NC	MARTIN CO	25,078	0.089	0.076	0.074	0.074	0.077	0.074	.	.	0.074
NC	MECKLENBURG CO	511,433	0.119	0.101	0.094	0.091	0.100	0.091	0.096	0.090	0.089
NC	NEW HANOVER CO	120,284	0.104	0.090	0.082	0.081	0.090	0.082	.	0.082	.
NC	NORTHAMPTON CO	20,798	0.101	0.086	0.084	0.081	0.087	0.081	.	.	0.081
NC	PERSON CO	30,180	0.094	0.083	0.080	0.079	0.084	0.080	.	.	0.080
NC	PITT CO	107,924	0.103	0.091	0.085	0.083	0.086	0.082	0.090	0.075	0.081
NC	ROCKINGHAM CO	86,064	0.105	0.094	0.088	0.086	0.087	0.081	0.082	0.090	0.071
NC	ROWAN CO	110,605	0.116	0.106	0.092	0.091	0.101	0.092	.	0.092	0.092
NC	SWAIN CO	11,268	0.077	0.069	0.067	0.064	0.069	0.067	.	.	0.067
NC	WAKE CO	423,380	0.113	0.095	0.088	0.085	0.091	0.087	0.095	0.084	0.082
NC	YANCEY CO	15,419	0.108	0.092	0.090	0.087	0.094	0.085	0.087	0.079	0.091
ND	MC KENZIE CO	6,383	0.064	0.059	0.057	0.056	0.060	0.056	0.055	0.057	0.058
ND	MERCER CO	9,808	0.061	0.056	0.054	0.053	0.057	0.053	0.051	0.055	0.055
ND	OLIVER CO	2,381	0.061	0.058	0.056	0.055	0.057	0.055	0.053	0.056	0.057
ND	STEELE CO	2,420	0.067	0.063	0.060	0.055	0.065	0.061	.	.	0.061
OH	ALLEN CO	109,755	0.104	0.096	0.091	0.088	0.095	0.087	0.083	0.089	0.090
OH	ASHTABULA CO	99,821	0.107	0.095	0.091	0.086	0.092	0.085	0.081	0.084	0.092
OH	BUTLER CO	291,479	0.124	0.105	0.096	0.091	0.103	0.092	0.092	0.090	0.094
OH	CLARK CO	147,548	0.122	0.098	0.095	0.089	0.095	0.091	0.083	0.097	0.093
OH	CLERMONT CO	150,187	0.117	0.096	0.091	0.091	0.096	0.091	.	0.091	0.092
OH	CLINTON CO	35,415	0.115	0.101	0.097	0.094	0.100	0.093	0.088	0.094	0.098
OH	CUYAHOGA CO	1,412,140	0.113	0.101	0.088	0.082	0.097	0.085	.	0.079	0.091
OH	FRANKLIN CO	961,437	0.107	0.093	0.087	0.085	0.093	0.086	0.086	0.087	0.085
OH	HAMILTON CO	866,228	0.114	0.102	0.094	0.090	0.098	0.090	0.083	0.092	0.097
OH	JEFFERSON CO	80,298	0.114	0.100	0.091	0.086	0.092	0.085	0.079	0.083	0.093
OH	KNOX CO	47,473	0.112	0.100	0.088	0.085	0.094	0.087	0.087	0.087	0.087
OH	LAKE CO	215,499	0.118	0.105	0.097	0.094	0.103	0.095	0.092	0.096	0.097
OH	LAWRENCE CO	61,834	0.117	0.091	0.086	0.085	0.091	0.085	0.085	0.085	0.086

OH	LICKING CO	128,300	0.106	0.093	0.089	0.086	0.091	0.086	0.079	0.086	0.093
OH	LOGAN CO	42,310	0.112	0.101	0.089	0.087	0.094	0.087	0.081	0.092	0.088
OH	LORAIN CO	271,126	0.099	0.092	0.084	0.080	0.090	0.082	0.080	0.083	0.083
OH	LUCAS CO	462,361	0.119	0.104	0.091	0.089	0.100	0.090	0.089	0.091	0.090
OH	MADISON CO	37,068	0.113	0.099	0.093	0.087	0.100	0.089	0.084	0.092	0.093
OH	MAHONING CO	264,806	0.107	0.097	0.086	0.083	0.088	0.086	0.083	0.079	0.097
OH	MEDINA CO	122,354	0.117	0.099	0.092	0.088	0.096	0.090	0.092	0.089	0.089
OH	MIAMI CO	93,182	0.102	0.088	0.081	0.079	0.083	0.078	0.082	0.067	0.085
OH	MONTGOMERY CO	573,809	0.116	0.099	0.092	0.089	0.096	0.091	0.093	0.092	0.088
OH	PORTAGE CO	142,585	0.108	0.098	0.090	0.086	0.097	0.088	0.088	0.085	0.091
OH	PREBLE CO	40,113	0.100	0.089	0.087	0.081	0.087	0.083	0.076	0.087	0.087
OH	STARK CO	367,585	0.109	0.098	0.091	0.087	0.095	0.088	0.089	0.086	0.091
OH	SUMMIT CO	514,990	0.110	0.097	0.092	0.089	0.094	0.090	0.095	0.085	0.092
OH	TRUMBULL CO	227,813	0.112	0.100	0.092	0.087	0.095	0.090	0.087	0.087	0.097
OH	TUSCARAWAS CO	84,090	0.101	0.088	0.082	0.080	0.086	0.081	0.080	0.083	.
OH	WARREN CO	113,909	0.128	0.106	0.101	0.093	0.104	0.098	0.091	0.102	0.101
OH	WASHINGTON CO	62,254	0.124	0.105	0.098	0.094	0.103	0.096	0.100	0.094	0.094
OK	CLEVELAND CO	174,253	0.095	0.085	0.081	0.078	0.078	0.074	0.061	0.076	0.086
OK	COMANCHE CO	111,486	0.092	0.080	0.079	0.077	0.080	0.078	.	0.078	0.079
OK	MC CLAIN CO	22,795	0.094	0.081	0.078	0.076	0.079	0.072	0.068	0.070	0.080
OK	OKLAHOMA CO	599,611	0.110	0.091	0.087	0.082	0.090	0.084	0.077	0.086	0.089
OK	TULSA CO	503,341	0.121	0.101	0.095	0.091	0.096	0.086	0.076	0.089	0.095
OR	CLACKAMAS CO	278,850	0.103	0.083	0.073	0.066	0.077	0.068	0.061	0.074	0.071
OR	COLUMBIA CO	37,557	0.089	0.070	0.062	0.059	0.068	0.061	0.063	0.062	0.058
OR	JACKSON CO	146,389	0.090	0.071	0.068	0.066	0.071	0.067	0.066	0.066	0.070
OR	LANE CO	282,912	0.087	0.071	0.064	0.062	0.070	0.062	0.054	0.069	0.063
PA	ALLEGHENY CO	1,336,449	0.133	0.115	0.106	0.101	0.111	0.100	0.089	0.098	0.114
PA	BEAVER CO	186,093	0.107	0.093	0.088	0.083	0.091	0.087	.	0.086	0.088
PA	BERKS CO	336,523	0.114	0.098	0.090	0.088	0.096	0.087	0.084	0.083	0.095
PA	BLAIR CO	130,542	0.106	0.096	0.090	0.086	0.095	0.088	0.084	0.091	0.091
PA	BUCKS CO	541,174	0.137	0.117	0.107	0.100	0.116	0.098	0.094	0.092	0.109
PA	CAMBRIA CO	163,029	0.100	0.091	0.086	0.082	0.088	0.084	0.083	0.082	0.088
PA	DAUPHIN CO	237,813	0.118	0.103	0.091	0.088	0.101	0.090	0.092	0.089	0.089
PA	DELAWARE CO	547,651	0.126	0.108	0.098	0.092	0.101	0.094	0.093	0.088	0.101
PA	ERIE CO	275,572	0.107	0.095	0.089	0.087	0.094	0.085	0.080	0.089	0.088
PA	LACKAWANNA CO	219,039	0.110	0.101	0.091	0.086	0.097	0.087	0.090	0.085	0.087
PA	LANCASTER CO	422,822	0.118	0.106	0.100	0.095	0.103	0.095	0.094	0.088	0.103
PA	LAWRENCE CO	96,246	0.104	0.088	0.082	0.077	0.089	0.079	0.078	0.076	0.083
PA	LEHIGH CO	291,130	0.109	0.096	0.086	0.084	0.091	0.084	0.083	0.082	0.088
PA	LUZERNE CO	328,149	0.107	0.097	0.089	0.086	0.094	0.089	0.095	0.084	0.089
PA	LYCOMING CO	118,710	0.088	0.080	0.073	0.070	0.076	0.070	0.070	0.069	0.073
PA	MERCER CO	121,003	0.111	0.097	0.090	0.085	0.093	0.086	0.082	0.086	0.091
PA	MONTGOMERY CO	678,111	0.125	0.101	0.097	0.093	0.100	0.094	0.098	0.089	0.096
PA	NORTHAMPTON CO	247,105	0.116	0.106	0.093	0.090	0.098	0.090	0.084	0.088	0.100
PA	PERRY CO	41,172	0.108	0.094	0.090	0.085	0.095	0.086	0.090	0.086	0.083
PA	PHILADELPHIA CO	1,585,577	0.130	0.115	0.102	0.097	0.106	0.099	0.098	0.090	0.111
PA	WASHINGTON CO	204,584	0.115	0.102	0.096	0.092	0.099	0.093	0.095	0.091	0.095
PA	WESTMORELAND CO	370,321	0.123	0.099	0.092	0.089	0.097	0.091	0.090	0.090	0.094

PA	YORK CO	339,574	0.115	0.096	0.089	0.085	0.096	0.086	0.090	0.082	0.086
RI	KENT CO	161,135	0.135	0.110	0.099	0.088	0.109	0.093	0.088	0.089	0.104
RI	PROVIDENCE CO	596,270	0.131	0.106	0.095	0.089	0.104	0.090	.	0.085	0.095
SC	ABBEVILLE CO	23,862	0.093	0.086	0.080	0.076	0.084	0.076	0.076	0.074	0.080
SC	AIKEN CO	120,940	0.097	0.082	0.079	0.075	0.082	0.075	0.078	0.076	0.073
SC	ANDERSON CO	145,196	0.115	0.102	0.090	0.087	0.104	0.085	0.089	0.078	0.089
SC	BARNWELL CO	20,293	0.093	0.084	0.079	0.077	0.085	0.079	0.078	0.080	.
SC	BERKELEY CO	128,776	0.105	0.079	0.075	0.072	0.080	0.070	.	0.074	0.067
SC	CHARLESTON CO	295,039	0.106	0.084	0.077	0.073	0.083	0.073	0.079	0.073	0.069
SC	CHEROKEE CO	44,506	0.106	0.092	0.083	0.082	0.089	0.081	0.083	0.079	0.083
SC	CHESTER CO	32,170	0.112	0.105	0.087	0.083	0.098	0.083	0.084	0.075	0.092
SC	DARLINGTON CO	61,851	0.100	0.090	0.082	0.079	0.086	0.078	0.080	0.083	0.071
SC	EDGEFIELD CO	18,375	0.097	0.090	0.078	0.076	0.084	0.077	0.081	0.074	0.076
SC	OCONEE CO	57,494	0.093	0.089	0.082	0.075	0.088	0.077	0.078	0.076	0.077
SC	PICKENS CO	93,894	0.112	0.094	0.088	0.082	0.092	0.082	0.089	0.074	0.084
SC	RICHLAND CO	285,720	0.112	0.095	0.088	0.087	0.093	0.085	0.092	0.085	0.078
SC	SPARTANBURG CO	226,800	0.112	0.096	0.084	0.082	0.095	0.083	0.082	0.083	0.084
SC	UNION CO	30,337	0.099	0.090	0.083	0.077	0.088	0.076	0.079	0.077	0.073
SC	WILLIAMSBURG CO	36,815	0.092	0.082	0.079	0.076	0.080	0.075	0.082	0.073	0.071
SC	YORK CO	131,497	0.117	0.100	0.093	0.086	0.100	0.087	0.097	0.079	0.087
TN	ANDERSON CO	68,250	0.113	0.096	0.092	0.088	0.095	0.089	0.088	0.087	0.094
TN	BLOUNT CO	85,969	0.124	0.107	0.094	0.091	0.107	0.094	.	.	0.094
TN	BRADLEY CO	73,712	0.097	0.089	0.083	0.080	0.089	0.082	.	0.082	.
TN	COFFEE CO	40,339	0.105	0.079	0.076	0.075	0.079	0.077	.	.	0.077
TN	DAVIDSON CO	510,784	0.110	0.096	0.089	0.086	0.089	0.082	0.067	0.091	0.089
TN	DICKSON CO	35,061	0.111	0.097	0.088	0.082	0.098	0.083	.	0.083	.
TN	DYER CO	34,854	0.112	0.091	0.083	0.082	0.091	0.083	.	.	0.083
TN	HAMBLEN CO	50,480	0.105	0.088	0.083	0.080	0.089	0.081	.	0.081	.
TN	HAMILTON CO	285,536	0.114	0.098	0.093	0.088	0.099	0.090	0.088	0.089	0.093
TN	HAYWOOD CO	19,437	0.104	0.093	0.082	0.080	0.090	0.082	0.075	0.090	0.082
TN	JEFFERSON CO	33,016	0.119	0.104	0.098	0.095	0.100	0.094	0.099	0.087	0.098
TN	KNOX CO	335,749	0.119	0.099	0.093	0.089	0.096	0.089	0.093	0.084	0.090
TN	MADISON CO	77,982	0.114	0.097	0.088	0.078	0.099	0.090	.	0.090	.
TN	MAURY CO	54,812	0.101	0.084	0.077	0.075	0.082	0.076	0.076	0.076	.
TN	RUTHERFORD CO	118,570	0.095	0.081	0.075	0.072	0.080	0.073	0.073	0.076	0.071
TN	SEVIER CO	51,043	0.113	0.100	0.089	0.086	0.098	0.087	0.089	0.085	.
TN	SHELBY CO	826,330	0.128	0.101	0.092	0.089	0.098	0.090	0.092	0.087	0.091
TN	SULLIVAN CO	143,596	0.115	0.093	0.092	0.091	0.094	0.091	.	.	0.091
TN	SUMNER CO	103,281	0.124	0.104	0.100	0.095	0.104	0.097	0.098	0.096	0.097
TN	WILLIAMSON CO	81,021	0.104	0.091	0.088	0.085	0.091	0.088	.	.	0.088
TN	WILSON CO	67,675	0.105	0.090	0.083	0.077	0.090	0.078	0.074	0.074	0.087
TX	BEXAR CO	1,185,394	0.119	0.098	0.091	0.086	0.094	0.086	0.084	0.081	0.094
TX	BRAZORIA CO	191,707	0.144	0.116	0.096	0.091	0.102	0.095	0.091	0.085	0.110
TX	BREWSTER CO	8,681	0.079	0.073	0.067	0.064	0.070	0.065	0.061	0.069	.
TX	CAMERON CO	260,120	0.085	0.076	0.071	0.068	0.075	0.069	.	0.070	0.069
TX	COLLIN CO	264,036	0.129	0.108	0.097	0.095	0.104	0.096	0.094	0.095	0.101
TX	DALLAS CO	1,852,810	0.134	0.111	0.098	0.094	0.104	0.096	0.091	0.088	0.110
TX	DENTON CO	273,525	0.140	0.112	0.106	0.100	0.108	0.100	0.091	0.101	0.109
TX	EL PASO CO	591,610	0.134	0.101	0.087	0.079	0.091	0.081	0.062	0.097	0.085

TX	GALVESTON CO	217,399	0.184	0.141	0.120	0.105	0.126	0.109	0.106	0.087	0.134
TX	GREGG CO	104,948	0.142	0.103	0.098	0.093	0.097	0.086	0.080	0.078	0.102
TX	HARRIS CO	2,818,199	0.244	0.139	0.117	0.112	0.123	0.112	0.112	0.112	0.112
TX	JEFFERSON CO	239,397	0.139	0.105	0.096	0.092	0.100	0.093	0.095	0.087	0.097
TX	NUECES CO	291,145	0.122	0.093	0.088	0.081	0.094	0.083	0.082	0.078	0.089
TX	ORANGE CO	80,509	0.120	0.094	0.086	0.084	0.090	0.084	0.086	0.080	0.088
TX	SMITH CO	151,309	0.111	0.096	0.095	0.093	0.097	0.094	.	.	0.094
TX	TARRANT CO	1,170,103	0.139	0.117	0.108	0.103	0.113	0.101	0.086	0.109	0.108
TX	TRAVIS CO	576,407	0.105	0.089	0.087	0.085	0.088	0.083	0.080	0.081	0.089
TX	VICTORIA CO	74,361	0.102	0.090	0.086	0.080	0.088	0.080	0.080	0.073	0.088
UT	DAVIS CO	187,941	0.110	0.084	0.080	0.074	0.083	0.077	0.076	0.075	0.082
UT	SALT LAKE CO	725,956	0.113	0.091	0.086	0.081	0.091	0.084	.	0.086	0.083
UT	SAN JUAN CO	12,621	0.073	0.068	0.065	0.063	0.066	0.064	0.064	0.067	0.062
UT	UTAH CO	263,590	0.095	0.078	0.074	0.072	0.078	0.073	.	.	0.073
UT	WEBER CO	158,330	0.102	0.083	0.077	0.075	0.082	0.074	.	0.075	0.073
VT	BENNINGTON CO	35,845	0.101	0.089	0.082	0.078	0.087	0.080	0.083	0.081	0.077
VT	CHITTENDEN CO	131,761	0.092	0.080	0.076	0.073	0.080	0.074	0.077	0.074	0.073
VA	ARLINGTON CO	170,936	0.127	0.104	0.100	0.097	0.103	0.096	0.101	0.089	0.098
VA	AUGUSTA CO	54,677	0.095	0.083	0.082	0.078	0.081	0.075	.	0.075	.
VA	CAROLINE CO	19,217	0.103	0.091	0.088	0.085	0.089	0.084	0.090	0.082	0.080
VA	CHARLES CITY CO	6,282	0.121	0.100	0.091	0.087	0.094	0.088	0.097	0.082	0.087
VA	CHESTERFIELD CO	209,274	0.124	0.101	0.092	0.088	0.097	0.090	0.100	0.082	0.090
VA	FAIRFAX CO	818,584	0.128	0.106	0.100	0.095	0.104	0.096	0.104	0.090	0.095
VA	FAUQUIER CO	48,741	0.110	0.089	0.084	0.081	0.089	0.082	0.086	0.079	0.082
VA	FREDERICK CO	45,723	0.102	0.091	0.083	0.081	0.089	0.082	0.081	0.083	0.083
VA	HANOVER CO	63,306	0.121	0.098	0.094	0.092	0.096	0.093	0.097	0.089	0.093
VA	HENRICO CO	217,881	0.119	0.097	0.091	0.088	0.094	0.088	0.092	0.085	0.087
VA	HENRY CO	56,942	0.100	0.083	0.079	0.074	0.084	0.080	.	.	0.080
VA	MADISON CO	11,949	0.094	0.090	0.083	0.081	0.089	0.081	0.083	0.080	.
VA	PRINCE WILLIAM CO	215,686	0.112	0.097	0.092	0.087	0.094	0.088	0.092	0.078	0.094
VA	ROANOKE CO	79,332	0.102	0.087	0.084	0.081	0.087	0.082	0.083	0.083	0.080
VA	STAFFORD CO	61,236	0.111	0.095	0.088	0.084	0.093	0.085	0.086	0.084	0.087
VA	WARREN CO	26,142	0.096	0.085	0.079	0.077	0.084	0.078	0.077	0.079	.
VA	WYTHE CO	25,466	0.097	0.088	0.081	0.078	0.087	0.079	0.082	0.077	0.080
VA	ALEXANDRIA	111,183	0.120	0.096	0.091	0.088	0.094	0.090	0.096	0.085	0.090
VA	HAMPTON	133,793	0.121	0.096	0.088	0.084	0.094	0.087	0.094	0.085	0.082
VA	SUFFOLK	52,141	0.122	0.102	0.090	0.086	0.091	0.086	0.100	0.078	0.081
WA	CLALLAM CO	56,464	0.062	0.051	0.045	0.043	0.053	0.042	0.040	0.042	0.045
WA	CLARK CO	238,053	0.108	0.078	0.061	0.057	0.073	0.057	0.053	0.058	0.061
WA	KING CO	1,507,319	0.109	0.083	0.072	0.065	0.088	0.066	0.066	0.066	0.068
WA	PIERCE CO	586,203	0.103	0.079	0.072	0.068	0.083	0.068	0.067	0.072	0.067
WA	SNOHOMISH CO	465,642	0.081	0.070	0.064	0.058	0.068	0.058	0.060	0.055	0.059
WA	SPOKANE CO	361,364	0.084	0.070	0.067	0.064	0.068	0.064	0.059	0.067	0.066
WA	WHATCOM CO	127,780	0.081	0.067	0.058	0.055	0.066	0.056	0.057	0.056	0.055
WV	CABELL CO	96,827	0.122	0.101	0.097	0.093	0.102	0.093	0.095	0.096	0.088
WV	GREENBRIER CO	34,693	0.104	0.091	0.085	0.083	0.090	0.083	0.081	0.083	0.085
WV	HANCOCK CO	35,233	0.103	0.091	0.084	0.081	0.087	0.081	0.076	0.079	0.090
WV	KANAWHA CO	207,619	0.110	0.091	0.080	0.077	0.079	0.075	0.060	0.075	0.090
WV	OHIO CO	50,871	0.104	0.089	0.081	0.078	0.085	0.081	0.077	0.079	0.087

WV	WOOD CO	86,915	0.121	0.100	0.094	0.090	0.097	0.091	0.083	0.095	0.095
WI	BROWN CO	194,594	0.109	0.085	0.076	0.071	0.085	0.071	.	0.066	0.077
WI	COLUMBIA CO	45,088	0.101	0.088	0.080	0.076	0.081	0.071	0.057	0.069	0.088
WI	DANE CO	367,085	0.095	0.081	0.074	0.071	0.079	0.071	0.063	0.071	0.079
WI	DODGE CO	76,559	0.088	0.083	0.078	0.072	0.084	0.080	.	.	0.080
WI	DOOR CO	25,690	0.121	0.104	0.092	0.088	0.098	0.085	0.072	0.093	0.090
WI	FLORENCE CO	4,590	0.078	0.073	0.068	0.063	0.072	0.066	0.064	0.068	0.066
WI	FOND DU LAC CO	90,083	0.090	0.082	0.077	0.075	0.081	0.074	.	0.069	0.079
WI	JEFFERSON CO	67,783	0.098	0.087	0.079	0.074	0.083	0.074	0.071	0.074	0.079
WI	KENOSHA CO	128,181	0.127	0.112	0.104	0.096	0.110	0.096	0.085	0.095	0.109
WI	KEWAUNEE CO	18,878	0.120	0.104	0.090	0.086	0.098	0.087	.	0.087	0.088
WI	MANITOWOC CO	80,421	0.126	0.106	0.096	0.091	0.103	0.093	.	0.092	0.095
WI	MARATHON CO	115,400	0.084	0.078	0.070	0.068	0.076	0.066	0.060	0.064	0.075
WI	MILWAUKEE CO	959,275	0.128	0.109	0.101	0.091	0.104	0.092	0.079	0.093	0.106
WI	ONEIDA CO	31,679	0.076	0.065	0.061	0.059	0.070	0.064	.	.	0.064
WI	OUTAGAMIE CO	140,510	0.105	0.090	0.084	0.077	0.090	0.082	.	.	0.082
WI	OZAUKEE CO	72,831	0.143	0.115	0.106	0.094	0.108	0.099	.	0.091	0.108
WI	POLK CO	34,773	0.085	0.076	0.072	0.066	0.070	0.064	0.056	0.061	0.076
WI	RACINE CO	175,034	0.113	0.103	0.092	0.088	0.100	0.086	0.077	0.088	0.095
WI	ROCK CO	139,510	0.108	0.094	0.084	0.077	0.092	0.079	.	0.075	0.084
WI	ST CROIX CO	50,251	0.087	0.071	0.068	0.063	0.071	0.063	0.057	0.064	0.068
WI	SAUK CO	46,975	0.102	0.087	0.078	0.076	0.087	0.077	.	.	0.077
WI	SHEBOYGAN CO	103,877	0.119	0.105	0.088	0.079	0.091	0.085	0.075	0.081	0.099
WI	VERNON CO	25,617	0.083	0.071	0.068	0.065	0.071	0.064	0.062	0.063	0.069
WI	WALWORTH CO	75,000	0.099	0.089	0.083	0.076	0.087	0.080	0.077	0.079	0.086
WI	WASHINGTON CO	95,328	0.099	0.090	0.080	0.076	0.083	0.078	0.070	0.077	0.089
WI	WAUKESHA CO	304,715	0.102	0.088	0.079	0.076	0.083	0.078	0.076	0.072	0.086
WI	WINNEBAGO CO	140,320	0.096	0.086	0.081	0.077	0.083	0.076	.	0.069	0.083
WY	TETON CO	11,172	0.069	0.063	0.061	0.060	0.059	0.058	0.054	0.062	.

CEA Spreadsheet Design Values

All

(March 1997)

1993-95	COUNTY DESIGN VALUES	FOR PRIMA	OZONE NAAQ	S ALTERNAT	IVES	
			(AIRS AIR	QUALITY MO	NITORING D	ATA BASE,
		1990	1HR,1 EXC	8HR,1 EXC	8HR,3 EXC	8HR,5 EX
STATE	COUNTY	POPULATIO	1993-95	1993-95	1993-95	1993-95
AL	CLAY CO	13,252	0.116	0.097	0.089	0.083
AL	COLBERT CO	51,666	0.102	0.085	0.083	0.080
AL	ELMORE CO	49,210	0.111	0.089	0.086	0.081
AL	GENEVA CO	23,647	0.082	0.072	0.069	0.068
AL	JEFFERSON CO	651,525	0.127	0.107	0.091	0.089
AL	LAWRENCE CO	31,513	0.095	0.085	0.081	0.077
AL	MADISON CO	238,912	0.107	0.093	0.084	0.080
AL	MOBILE CO	378,643	0.104	0.079	0.075	0.072
AL	MONTGOMERY CO	209,085	0.114	0.086	0.079	0.078
AL	SHELBY CO	99,358	0.125	0.107	0.098	0.093
AL	SUMTER CO	16,174	0.085	0.074	0.069	0.067
AK	YUKON-KOYUKUK CA	8,478	0.058	0.056	0.052	0.049
AZ	COCONINO CO	96,591	0.073	0.070	0.067	0.065
AZ	MARICOPA CO	2,122,101	0.129	0.096	0.091	0.088
AZ	PIMA CO	666,880	0.104	0.084	0.082	0.079
AR	CRITTENDEN CO	49,939	0.118	0.099	0.089	0.084
AR	MONTGOMERY CO	7,841	0.080	0.074	0.071	0.068
AR	NEWTON CO	7,666	0.080	0.075	0.071	0.070
AR	PULASKI CO	349,660	0.104	0.088	0.083	0.079
CA	ALAMEDA CO	1,279,182	0.138	0.099	0.092	0.088
CA	AMADOR CO	30,039	0.119	0.097	0.092	0.089
CA	BUTTE CO	182,120	0.097	0.083	0.081	0.079
CA	CALAVERAS CO	31,998	0.121	0.102	0.097	0.095
CA	COLUSA CO	16,275	0.101	0.086	0.083	0.081
CA	CONTRA COSTA CO	803,732	0.130	0.096	0.084	0.080
CA	DEL NORTE CO	23,460	0.060	0.053	0.050	0.049
CA	EL DORADO CO	125,995	0.124	0.105	0.102	0.098
CA	FRESNO CO	667,490	0.144	0.117	0.110	0.107
CA	GLENN CO	24,798	0.099	0.086	0.080	0.079
CA	IMPERIAL CO	109,303	0.205	0.116	0.105	0.103
CA	INYO CO	18,281	0.098	0.088	0.084	0.080
CA	KERN CO	543,477	0.165	0.126	0.121	0.118
CA	KINGS CO	101,469	0.110	0.097	0.087	0.085
CA	LAKE CO	50,631	0.080	0.067	0.065	0.063
CA	LOS ANGELES CO	8,863,164	0.250	0.172	0.161	0.151
CA	MADERA CO	88,090	0.130	0.105	0.101	0.095
CA	MARIN CO	230,096	0.082	0.061	0.056	0.053
CA	MARIPOSA CO	14,302	0.113	0.103	0.094	0.090
CA	MENDOCINO CO	80,345	0.080	0.062	0.058	0.053
CA	MERCED CO	178,403	0.125	0.108	0.103	0.098
CA	MONO CO	9,956	0.110	0.090	0.082	0.080
CA	MONTEREY CO	355,660	0.090	0.078	0.075	0.068
CA	NAPA CO	110,765	0.105	0.082	0.074	0.068
CA	NEVADA CO	78,510	0.110	0.092	0.086	0.083
CA	ORANGE CO	2,410,556	0.170	0.122	0.109	0.098
CA	PLACER CO	172,796	0.134	0.114	0.106	0.103
CA	RIVERSIDE CO	1,170,413	0.220	0.161	0.148	0.144
CA	SACRAMENTO CO	1,041,219	0.145	0.118	0.109	0.103
CA	SAN BENITO CO	36,697	0.110	0.082	0.080	0.077
CA	SAN BERNARDINO CO	1,418,380	0.234	0.181	0.166	0.163

All

CA	SAN DIEGO CO	2,498,016	0.146	0.121	0.111	0.107
CA	SAN FRANCISCO CO	723,959	0.080	0.050	0.045	0.043
CA	SAN JOAQUIN CO	480,628	0.124	0.097	0.087	0.083
CA	SAN LUIS OBISPO CO	217,162	0.101	0.080	0.076	0.073
CA	SAN MATEO CO	649,623	0.103	0.076	0.064	0.053
CA	SANTA BARBARA CO	369,608	0.126	0.101	0.092	0.086
CA	SANTA CLARA CO	1,497,577	0.130	0.099	0.088	0.084
CA	SANTA CRUZ CO	229,734	0.094	0.074	0.071	0.065
CA	SHASTA CO	147,036	0.090	0.082	0.078	0.075
CA	SISKIYOU CO	43,531	0.070	0.062	0.060	0.058
CA	SOLANO CO	340,421	0.109	0.092	0.080	0.075
CA	SONOMA CO	388,222	0.090	0.072	0.065	0.061
CA	STANISLAUS CO	370,522	0.130	0.106	0.098	0.094
CA	SUTTER CO	64,415	0.112	0.097	0.086	0.083
CA	TEHAMA CO	49,625	0.100	0.093	0.087	0.085
CA	TULARE CO	311,921	0.150	0.116	0.112	0.108
CA	TUOLUMNE CO	48,456	0.103	0.090	0.088	0.086
CA	VENTURA CO	669,016	0.157	0.127	0.122	0.118
CA	YOLO CO	141,092	0.103	0.087	0.078	0.076
CO	ADAMS CO	265,038	0.089	0.073	0.069	0.068
CO	ARAPAHOE CO	391,511	0.099	0.077	0.073	0.070
CO	BOULDER CO	225,339	0.095	0.078	0.073	0.071
CO	DENVER CO	467,610	0.093	0.069	0.065	0.063
CO	DOUGLAS CO	60,391	0.098	0.076	0.073	0.072
CO	EL PASO CO	397,014	0.079	0.065	0.061	0.061
CO	JEFFERSON CO	438,430	0.112	0.088	0.083	0.079
CO	LARIMER CO	186,136	0.099	0.081	0.075	0.072
CO	MONTEZUMA CO	18,672	0.069	0.063	0.063	0.062
CO	WELD CO	131,821	0.092	0.074	0.069	0.066
CT	FAIRFIELD CO	827,645	0.165	0.119	0.111	0.101
CT	HARTFORD CO	851,783	0.141	0.108	0.097	0.093
CT	LITCHFIELD CO	174,092	0.128	0.102	0.096	0.092
CT	MIDDLESEX CO	143,196	0.153	0.113	0.104	0.098
CT	NEW HAVEN CO	804,219	0.149	0.123	0.106	0.103
CT	NEW LONDON CO	254,957	0.132	0.105	0.098	0.093
CT	TOLLAND CO	128,699	0.130	0.109	0.098	0.093
DE	KENT CO	110,993	0.137	0.111	0.097	0.088
DE	NEW CASTLE CO	441,946	0.139	0.118	0.106	0.100
DE	SUSSEX CO	113,229	0.111	0.098	0.092	0.088
DC	WASHINGTON	606,900	0.135	0.111	0.101	0.097
FL	BREVARD CO	398,978	0.085	0.079	0.072	0.070
FL	BROWARD CO	1,255,488	0.103	0.087	0.077	0.069
FL	DADE CO	1,937,094	0.111	0.088	0.081	0.076
FL	DUVAL CO	672,971	0.117	0.087	0.081	0.078
FL	ESCAMBIA CO	262,798	0.117	0.096	0.087	0.082
FL	HILLSBOROUGH CO	834,054	0.106	0.086	0.080	0.078
FL	LEE CO	335,113	0.089	0.079	0.073	0.068
FL	MANATEE CO	211,707	0.094	0.078	0.077	0.074
FL	ORANGE CO	677,491	0.101	0.085	0.079	0.078
FL	OSCEOLA CO	107,728	0.095	0.077	0.075	0.073
FL	PALM BEACH CO	863,518	0.099	0.079	0.074	0.067
FL	PASCO CO	281,131	0.092	0.077	0.075	0.073
FL	PINELLAS CO	851,659	0.092	0.077	0.074	0.072
FL	POLK CO	405,382	0.100	0.083	0.076	0.073
FL	ST JOHNS CO	83,829	0.099	0.082	0.075	0.072
FL	SARASOTA CO	277,776	0.099	0.086	0.079	0.077

All

FL	SEMINOLE CO	287,529	0.098	0.086	0.078	0.074
FL	VOLUSIA CO	370,712	0.093	0.078	0.072	0.069
GA	CHATHAM CO	216,935	0.089	0.076	0.073	0.070
GA	DE KALB CO	545,837	0.147	0.120	0.108	0.100
GA	DOUGLAS CO	71,120	0.140	0.116	0.103	0.097
GA	FANNIN CO	15,992	0.098	0.082	0.077	0.073
GA	FULTON CO	648,951	0.149	0.125	0.112	0.105
GA	GWINNETT CO	352,910	0.123	0.102	0.100	0.093
GA	MUSCOGEE CO	179,278	0.112	0.091	0.086	0.083
GA	RICHMOND CO	189,719	0.113	0.093	0.088	0.085
GA	ROCKDALE CO	54,091	0.141	0.118	0.108	0.105
HI	HONOLULU CO	836,231	0.056	0.052	0.050	0.048
ID	BUTTE CO	2,918	0.070	0.065	0.063	0.061
IL	ADAMS CO	66,090	0.084	0.074	0.071	0.068
IL	CHAMPAIGN CO	173,025	0.094	0.087	0.081	0.079
IL	COOK CO	5,105,067	0.133	0.101	0.095	0.094
IL	DU PAGE CO	781,666	0.104	0.083	0.074	0.068
IL	EFFINGHAM CO	31,704	0.095	0.087	0.083	0.080
IL	JERSEY CO	20,539	0.120	0.090	0.085	0.081
IL	KANE CO	317,471	0.117	0.102	0.086	0.078
IL	LAKE CO	516,418	0.113	0.106	0.096	0.088
IL	MC HENRY CO	183,241	0.108	0.096	0.087	0.078
IL	MACON CO	117,206	0.095	0.084	0.079	0.077
IL	MACOUPIN CO	47,679	0.103	0.089	0.083	0.080
IL	MADISON CO	249,238	0.125	0.100	0.092	0.090
IL	PEORIA CO	182,827	0.095	0.087	0.082	0.080
IL	RANDOLPH CO	34,583	0.102	0.087	0.081	0.080
IL	ROCK ISLAND CO	148,723	0.085	0.076	0.071	0.068
IL	ST CLAIR CO	262,852	0.117	0.092	0.082	0.080
IL	SANGAMON CO	178,386	0.104	0.089	0.081	0.079
IL	WILL CO	357,313	0.112	0.096	0.082	0.079
IL	WINNEBAGO CO	252,913	0.101	0.090	0.079	0.073
IN	ALLEN CO	300,836	0.112	0.099	0.092	0.091
IN	CLARK CO	87,777	0.133	0.113	0.101	0.097
IN	ELKHART CO	156,198	0.100	0.096	0.084	0.083
IN	FLOYD CO	64,404	0.115	0.096	0.094	0.093
IN	HAMILTON CO	108,936	0.112	0.099	0.096	0.094
IN	HANCOCK CO	45,527	0.117	0.099	0.094	0.089
IN	KOSCIUSKO CO	65,294	0.100	0.087	0.086	0.083
IN	LAKE CO	475,594	0.113	0.101	0.089	0.085
IN	LA PORTE CO	107,066	0.131	0.114	0.103	0.093
IN	MADISON CO	130,669	0.115	0.100	0.095	0.092
IN	MARION CO	797,159	0.113	0.099	0.095	0.093
IN	PORTER CO	128,932	0.118	0.104	0.095	0.088
IN	ST JOSEPH CO	247,052	0.108	0.101	0.089	0.084
IN	TIPPECANOE CO	130,598	0.104	0.090	0.085	0.084
IN	VANDEBURGH CO	165,058	0.114	0.101	0.096	0.094
IN	VIGO CO	106,107	0.104	0.094	0.089	0.086
IN	WARRICK CO	44,920	0.131	0.110	0.107	0.100
IA	LINN CO	168,767	0.074	0.066	0.063	0.060
IA	POLK CO	327,140	0.089	0.075	0.068	0.064
IA	SCOTT CO	150,979	0.095	0.087	0.081	0.074
IA	VAN BUREN CO	7,676	0.082	0.071	0.069	0.067
KS	SEDGWICK CO	403,662	0.090	0.077	0.075	0.071
KS	SHERMAN CO	6,926	0.080	0.067	0.066	0.063
KS	WYANDOTTE CO	161,993	0.107	0.092	0.086	0.079

All

KY	BELL CO	31,506	0.092	0.083	0.076	0.073
KY	BOONE CO	57,589	0.111	0.092	0.084	0.081
KY	BOYD CO	51,150	0.123	0.102	0.090	0.086
KY	BULLITT CO	47,567	0.112	0.095	0.087	0.084
KY	CAMPBELL CO	83,866	0.115	0.097	0.092	0.086
KY	CHRISTIAN CO	68,941	0.105	0.094	0.083	0.082
KY	DAVISS CO	87,189	0.107	0.095	0.088	0.080
KY	EDMONSON CO	10,357	0.113	0.081	0.075	0.073
KY	FAYETTE CO	225,366	0.108	0.097	0.088	0.086
KY	GRAVES CO	33,550	0.093	0.080	0.074	0.068
KY	GREENUP CO	36,742	0.121	0.099	0.089	0.085
KY	HANCOCK CO	7,864	0.114	0.097	0.090	0.085
KY	HARDIN CO	89,240	0.116	0.099	0.094	0.090
KY	HENDERSON CO	43,044	0.108	0.092	0.088	0.083
KY	JEFFERSON CO	664,937	0.123	0.102	0.094	0.089
KY	JESSAMINE CO	30,508	0.103	0.093	0.085	0.081
KY	KENTON CO	142,031	0.117	0.102	0.097	0.093
KY	LAWRENCE CO	13,998	0.115	0.091	0.084	0.083
KY	LIVINGSTON CO	9,062	0.109	0.093	0.087	0.085
KY	MC CRACKEN CO	62,879	0.103	0.085	0.079	0.074
KY	MC LEAN CO	9,628	0.110	0.098	0.090	0.086
KY	OLDHAM CO	33,263	0.112	0.094	0.088	0.088
KY	PERRY CO	30,283	0.088	0.082	0.075	0.072
KY	PIKE CO	72,583	0.102	0.091	0.086	0.085
KY	PULASKI CO	49,489	0.099	0.091	0.081	0.079
KY	SCOTT CO	23,867	0.111	0.097	0.091	0.085
KY	SIMPSON CO	15,145	0.097	0.085	0.080	0.078
LA	ASCENSION PAR	58,214	0.126	0.095	0.090	0.088
LA	BEAUREGARD PAR	30,083	0.109	0.092	0.078	0.075
LA	BOSSIER PAR	86,088	0.112	0.092	0.084	0.081
LA	CADDO PAR	248,253	0.102	0.087	0.083	0.080
LA	CALCASIEU PAR	168,134	0.123	0.097	0.088	0.082
LA	EAST BATON ROUGE PAR	380,105	0.139	0.101	0.091	0.087
LA	GRANT PAR	17,526	0.095	0.087	0.082	0.079
LA	IBERVILLE PAR	31,049	0.125	0.101	0.094	0.091
LA	JEFFERSON PAR	448,306	0.110	0.089	0.084	0.082
LA	LAFAYETTE PAR	164,762	0.109	0.094	0.089	0.086
LA	LAFOURCHE PAR	85,860	0.127	0.101	0.094	0.087
LA	LIVINGSTON PAR	70,526	0.117	0.094	0.088	0.083
LA	ORLEANS PAR	496,938	0.099	0.080	0.073	0.072
LA	OUACHITA PAR	142,191	0.098	0.082	0.081	0.079
LA	POINTE COUPEE PAR	22,540	0.106	0.091	0.083	0.081
LA	ST BERNARD PAR	66,631	0.117	0.093	0.085	0.081
LA	ST CHARLES PAR	42,437	0.114	0.091	0.085	0.083
LA	ST JAMES PAR	20,879	0.119	0.094	0.087	0.082
LA	ST JOHN THE BAPTIST PAR	39,996	0.114	0.096	0.085	0.082
LA	ST MARY PAR	58,086	0.103	0.089	0.085	0.082
LA	WEST BATON ROUGE PAR	19,419	0.111	0.094	0.081	0.078
ME	CUMBERLAND CO	243,135	0.122	0.102	0.091	0.087
ME	HANCOCK CO	46,948	0.105	0.092	0.082	0.077
ME	KENNEBEC CO	115,904	0.098	0.085	0.075	0.073
ME	KNOX CO	36,310	0.123	0.099	0.089	0.084
ME	OXFORD CO	52,602	0.093	0.075	0.063	0.060
ME	PENOBSCOT CO	146,601	0.104	0.085	0.078	0.075
ME	PISCATAQUIS CO	18,653	0.084	0.079	0.072	0.065
ME	SAGadahoc CO	33,535	0.139	0.104	0.091	0.087

All

ME	SOMERSET CO	49,767	0.093	0.078	0.072	0.065
ME	WASHINGTON CO	35,308	0.104	0.086	0.082	0.075
ME	YORK CO	164,587	0.129	0.104	0.096	0.093
MD	ANNE ARUNDEL CO	427,239	0.151	0.116	0.107	0.103
MD	BALTIMORE CO	692,134	0.137	0.113	0.100	0.097
MD	CARROLL CO	123,372	0.121	0.108	0.099	0.095
MD	CECIL CO	71,347	0.146	0.114	0.108	0.098
MD	CHARLES CO	101,154	0.122	0.108	0.096	0.090
MD	HARFORD CO	182,132	0.141	0.121	0.108	0.102
MD	KENT CO	17,842	0.122	0.107	0.095	0.091
MD	MONTGOMERY CO	757,027	0.121	0.105	0.097	0.092
MD	PRINCE GEORGES CO	729,268	0.131	0.111	0.100	0.096
MD	BALTIMORE	736,014	0.140	0.120	0.114	0.109
MA	BARNSTABLE CO	186,605	0.124	0.105	0.092	0.087
MA	BERKSHIRE CO	139,352	0.112	0.083	0.078	0.074
MA	BRISTOL CO	506,325	0.122	0.107	0.094	0.089
MA	ESSEX CO	670,080	0.120	0.103	0.091	0.084
MA	HAMPDEN CO	456,310	0.130	0.106	0.095	0.090
MA	HAMPSHIRE CO	146,568	0.131	0.106	0.096	0.090
MA	MIDDLESEX CO	1,398,468	0.125	0.105	0.092	0.090
MA	PLYMOUTH CO	435,276	0.108	0.088	0.082	0.079
MA	SUFFOLK CO	663,906	0.111	0.086	0.081	0.078
MA	WORCESTER CO	709,705	0.130	0.108	0.097	0.091
MI	ALLEGAN CO	90,509	0.135	0.110	0.096	0.092
MI	BENZIE CO	12,200	0.108	0.099	0.086	0.083
MI	BERRIEN CO	161,378	0.115	0.098	0.086	0.083
MI	CASS CO	49,477	0.110	0.101	0.092	0.090
MI	CLINTON CO	57,883	0.098	0.088	0.078	0.075
MI	GENESEE CO	430,459	0.097	0.086	0.081	0.076
MI	HURON CO	34,951	0.119	0.096	0.083	0.080
MI	INGHAM CO	281,912	0.099	0.090	0.084	0.080
MI	KALAMAZOO CO	223,411	0.102	0.093	0.089	0.081
MI	KENT CO	500,631	0.114	0.107	0.089	0.084
MI	LENAWEE CO	91,476	0.099	0.091	0.087	0.082
MI	MACOMB CO	717,400	0.129	0.106	0.094	0.090
MI	MASON CO	25,537	0.125	0.110	0.098	0.091
MI	MUSKEGON CO	158,983	0.141	0.117	0.095	0.091
MI	OAKLAND CO	1,083,592	0.120	0.093	0.084	0.081
MI	OTTAWA CO	187,768	0.116	0.094	0.086	0.083
MI	ST CLAIR CO	145,607	0.129	0.104	0.092	0.086
MI	WASHTENAW CO	282,937	0.104	0.088	0.083	0.076
MI	WAYNE CO	2,111,687	0.124	0.098	0.091	0.085
MN	ANOKA CO	243,641	0.102	0.090	0.080	0.072
MN	DAKOTA CO	275,227	0.091	0.074	0.069	0.065
MN	KOOCHICHING CO	16,299	0.075	0.070	0.065	0.060
MN	LAKE CO	10,415	0.078	0.074	0.071	0.067
MN	WASHINGTON CO	145,896	0.103	0.088	0.080	0.074
MS	ADAMS CO	35,356	0.099	0.079	0.077	0.073
MS	DE SOTO CO	67,910	0.109	0.096	0.085	0.083
MS	FRANKLIN CO	8,377	0.093	0.083	0.075	0.073
MS	HANCOCK CO	31,760	0.113	0.094	0.087	0.084
MS	HINDS CO	254,441	0.087	0.075	0.071	0.070
MS	JACKSON CO	115,243	0.095	0.084	0.081	0.077
MS	LAUDERDALE CO	75,555	0.086	0.076	0.071	0.069
MS	LEE CO	65,581	0.094	0.083	0.075	0.072
MS	MADISON CO	53,794	0.089	0.081	0.077	0.075

All

MS	SHARKEY CO	7,066	0.096	0.086	0.082	0.080
MS	WARREN CO	47,880	0.091	0.078	0.075	0.073
MO	CLAY CO	153,411	0.128	0.103	0.095	0.089
MO	GREENE CO	207,949	0.099	0.085	0.078	0.075
MO	JACKSON CO	633,232	0.089	0.078	0.077	0.074
MO	JEFFERSON CO	171,380	0.125	0.104	0.100	0.094
MO	MONROE CO	9,104	0.094	0.086	0.082	0.080
MO	PLATTE CO	57,867	0.110	0.090	0.084	0.083
MO	ST CHARLES CO	212,907	0.147	0.114	0.106	0.104
MO	ST LOUIS CO	993,529	0.129	0.107	0.097	0.090
MO	ST LOUIS	396,685	0.113	0.089	0.085	0.082
NE	DOUGLAS CO	416,444	0.084	0.075	0.069	0.067
NE	LANCASTER CO	213,641	0.075	0.063	0.059	0.058
NV	CLARK CO	741,459	0.100	0.085	0.082	0.079
NV	DOUGLAS CO	27,637	0.081	0.071	0.067	0.066
NV	WASHOE CO	254,667	0.090	0.075	0.070	0.068
NV	WHITE PINE CO	9,264	0.075	0.071	0.069	0.068
NH	CHESHIRE CO	70,121	0.092	0.081	0.076	0.074
NH	HILLSBOROUGH CO	336,073	0.115	0.098	0.087	0.083
NH	MERRIMACK CO	120,005	0.086	0.081	0.072	0.069
NH	ROCKINGHAM CO	245,845	0.130	0.101	0.097	0.087
NH	SULLIVAN CO	38,592	0.089	0.076	0.072	0.068
NJ	ATLANTIC CO	224,327	0.115	0.101	0.096	0.091
NJ	BERGEN CO	825,380	0.121	0.104	0.090	0.086
NJ	CAMDEN CO	502,824	0.138	0.121	0.107	0.104
NJ	CUMBERLAND CO	138,053	0.121	0.105	0.099	0.094
NJ	ESSEX CO	778,206	0.113	0.099	0.088	0.083
NJ	GLOUCESTER CO	230,082	0.127	0.115	0.106	0.097
NJ	HUDSON CO	553,099	0.129	0.108	0.103	0.096
NJ	HUNTERDON CO	107,776	0.118	0.104	0.099	0.094
NJ	MERCER CO	325,824	0.135	0.116	0.106	0.101
NJ	MIDDLESEX CO	671,780	0.150	0.119	0.109	0.105
NJ	MONMOUTH CO	553,124	0.138	0.116	0.095	0.088
NJ	MORRIS CO	421,353	0.124	0.110	0.103	0.096
NJ	OCEAN CO	433,203	0.139	0.124	0.104	0.100
NJ	UNION CO	493,819	0.122	0.098	0.088	0.086
NM	BERNALILLO CO	480,577	0.098	0.079	0.073	0.070
NM	DONA ANA CO	135,510	0.136	0.091	0.084	0.081
NM	SANDOVAL CO	63,319	0.094	0.080	0.075	0.074
NM	VALENCIA CO	45,235	0.076	0.066	0.065	0.064
NY	ALBANY CO	292,594	0.109	0.089	0.085	0.082
NY	BRONX CO	1,203,789	0.120	0.110	0.100	0.093
NY	CHAUTAUQUA CO	141,895	0.104	0.090	0.082	0.081
NY	CHEMUNG CO	95,195	0.088	0.081	0.075	0.073
NY	DUTCHESS CO	259,462	0.119	0.101	0.093	0.087
NY	ERIE CO	968,532	0.091	0.083	0.078	0.075
NY	ESSEX CO	37,152	0.101	0.097	0.085	0.082
NY	HAMILTON CO	5,279	0.095	0.083	0.074	0.071
NY	HERKIMER CO	65,797	0.086	0.076	0.069	0.065
NY	JEFFERSON CO	110,943	0.108	0.098	0.086	0.080
NY	KINGS CO	2,300,664	0.131	0.100	0.095	0.089
NY	MADISON CO	69,120	0.099	0.088	0.081	0.078
NY	MONROE CO	713,968	0.103	0.090	0.081	0.075
NY	NIAGARA CO	220,756	0.102	0.094	0.085	0.081
NY	ONEIDA CO	250,836	0.095	0.082	0.075	0.067
NY	ONONDAGA CO	468,973	0.103	0.093	0.084	0.076

All

NY	ORANGE CO	307,647	0.115	0.102	0.095	0.090
NY	PUTNAM CO	83,941	0.127	0.103	0.092	0.089
NY	QUEENS CO	1,951,598	0.125	0.103	0.088	0.081
NY	RICHMOND CO	378,977	0.125	0.109	0.097	0.094
NY	SARATOGA CO	181,276	0.098	0.083	0.077	0.075
NY	SCHENECTADY CO	149,285	0.095	0.087	0.077	0.074
NY	SUFFOLK CO	1,321,864	0.138	0.112	0.101	0.094
NY	ULSTER CO	165,304	0.103	0.090	0.087	0.082
NY	WAYNE CO	89,123	0.102	0.096	0.083	0.080
NY	WESTCHESTER CO	874,866	0.126	0.104	0.094	0.091
NC	ALEXANDER CO	27,544	0.092	0.080	0.075	0.074
NC	BUNCOMBE CO	174,821	0.085	0.076	0.073	0.070
NC	BURKE CO	75,744	0.098	0.090	0.080	0.076
NC	CALDWELL CO	70,709	0.095	0.082	0.079	0.078
NC	CAMDEN CO	5,904	0.095	0.087	0.083	0.078
NC	CASWELL CO	20,693	0.113	0.100	0.086	0.080
NC	CHATHAM CO	38,759	0.102	0.087	0.081	0.081
NC	CUMBERLAND CO	274,566	0.106	0.093	0.087	0.083
NC	DAVIE CO	27,859	0.101	0.090	0.084	0.082
NC	DUPLIN CO	39,995	0.094	0.085	0.078	0.077
NC	DURHAM CO	181,835	0.103	0.089	0.085	0.083
NC	FORSYTH CO	265,878	0.111	0.095	0.090	0.086
NC	FRANKLIN CO	36,414	0.114	0.096	0.091	0.085
NC	GRANVILLE CO	38,345	0.111	0.099	0.091	0.089
NC	GUILFORD CO	347,420	0.114	0.096	0.089	0.088
NC	HAYWOOD CO	46,942	0.095	0.086	0.079	0.076
NC	JOHNSTON CO	81,306	0.104	0.097	0.090	0.085
NC	LINCOLN CO	50,319	0.108	0.094	0.090	0.087
NC	MARTIN CO	25,078	0.089	0.076	0.074	0.074
NC	MECKLENBURG CO	511,433	0.119	0.101	0.094	0.091
NC	NEW HANOVER CO	120,284	0.104	0.090	0.082	0.081
NC	NORTHAMPTON CO	20,798	0.101	0.086	0.084	0.081
NC	PERSON CO	30,180	0.094	0.083	0.080	0.079
NC	PITT CO	107,924	0.103	0.091	0.085	0.083
NC	ROCKINGHAM CO	86,064	0.105	0.094	0.088	0.086
NC	ROWAN CO	110,605	0.116	0.106	0.092	0.091
NC	SWAIN CO	11,268	0.077	0.069	0.067	0.064
NC	WAKE CO	423,380	0.113	0.095	0.088	0.085
NC	YANCEY CO	15,419	0.108	0.092	0.090	0.087
ND	MC KENZIE CO	6,383	0.064	0.059	0.057	0.056
ND	MERCER CO	9,808	0.061	0.056	0.054	0.053
ND	OLIVER CO	2,381	0.061	0.058	0.056	0.055
ND	STEELE CO	2,420	0.067	0.063	0.060	0.055
OH	ALLEN CO	109,755	0.104	0.096	0.091	0.088
OH	ASHTABULA CO	99,821	0.107	0.095	0.091	0.086
OH	BUTLER CO	291,479	0.124	0.105	0.096	0.091
OH	CLARK CO	147,548	0.122	0.098	0.095	0.089
OH	CLERMONT CO	150,187	0.117	0.096	0.091	0.091
OH	CLINTON CO	35,415	0.115	0.101	0.097	0.094
OH	CUYAHOGA CO	1,412,140	0.113	0.101	0.088	0.082
OH	FRANKLIN CO	961,437	0.107	0.093	0.087	0.085
OH	HAMILTON CO	866,228	0.114	0.102	0.094	0.090
OH	JEFFERSON CO	80,298	0.114	0.100	0.091	0.086
OH	KNOX CO	47,473	0.112	0.100	0.088	0.085
OH	LAKE CO	215,499	0.118	0.105	0.097	0.094
OH	LAWRENCE CO	61,834	0.117	0.091	0.086	0.085

All

OH	LICKING CO	128,300	0.106	0.093	0.089	0.086
OH	LOGAN CO	42,310	0.112	0.101	0.089	0.087
OH	LORAIN CO	271,126	0.099	0.092	0.084	0.080
OH	LUCAS CO	462,361	0.119	0.104	0.091	0.089
OH	MADISON CO	37,068	0.113	0.099	0.093	0.087
OH	MAHONING CO	264,806	0.107	0.097	0.086	0.083
OH	MEDINA CO	122,354	0.117	0.099	0.092	0.088
OH	MIAMI CO	93,182	0.102	0.088	0.081	0.079
OH	MONTGOMERY CO	573,809	0.116	0.099	0.092	0.089
OH	PORTAGE CO	142,585	0.108	0.098	0.09	0.086
OH	PREBLE CO	40,113	0.1	0.089	0.087	0.081
OH	STARK CO	367,585	0.109	0.098	0.091	0.087
OH	SUMMIT CO	514,990	0.11	0.097	0.092	0.089
OH	TRUMBULL CO	227,813	0.112	0.1	0.092	0.087
OH	TUSCARAWAS CO	84,090	0.101	0.088	0.082	0.08
OH	WARREN CO	113,909	0.128	0.106	0.101	0.093
OH	WASHINGTON CO	62,254	0.124	0.105	0.098	0.094
OK	CLEVELAND CO	174,253	0.095	0.085	0.081	0.078
OK	COMANCHE CO	111,486	0.092	0.08	0.079	0.077
OK	MC CLAIN CO	22,795	0.094	0.081	0.078	0.076
OK	OKLAHOMA CO	599,611	0.11	0.091	0.087	0.082
OK	TULSA CO	503,341	0.121	0.101	0.095	0.091
OR	CLACKAMAS CO	278,850	0.103	0.083	0.073	0.066
OR	COLUMBIA CO	37,557	0.089	0.07	0.062	0.059
OR	JACKSON CO	146,389	0.09	0.071	0.068	0.066
OR	LANE CO	282,912	0.087	0.071	0.064	0.062
PA	ALLEGHENY CO	1,336,449	0.133	0.115	0.106	0.101
PA	BEAVER CO	186,093	0.107	0.093	0.088	0.083
PA	BERKS CO	336,523	0.114	0.098	0.09	0.088
PA	BLAIR CO	130,542	0.106	0.096	0.09	0.086
PA	BUCKS CO	541,174	0.137	0.117	0.107	0.1
PA	CAMBRIA CO	163,029	0.1	0.091	0.086	0.082
PA	DAUPHIN CO	237,813	0.118	0.103	0.091	0.088
PA	DELAWARE CO	547,651	0.126	0.108	0.098	0.092
PA	ERIE CO	275,572	0.107	0.095	0.089	0.087
PA	LACKAWANNA CO	219,039	0.11	0.101	0.091	0.086
PA	LANCASTER CO	422,822	0.118	0.106	0.1	0.095
PA	LAWRENCE CO	96,246	0.104	0.088	0.082	0.077
PA	LEHIGH CO	291,130	0.109	0.096	0.086	0.084
PA	LUZERNE CO	328,149	0.107	0.097	0.089	0.086
PA	LYCOMING CO	118,710	0.088	0.08	0.073	0.07
PA	MERCER CO	121,003	0.111	0.097	0.09	0.085
PA	MONTGOMERY CO	678,111	0.125	0.101	0.097	0.093
PA	NORTHAMPTON CO	247,105	0.116	0.106	0.093	0.09
PA	PERRY CO	41,172	0.108	0.094	0.09	0.085
PA	PHILADELPHIA CO	1,585,577	0.13	0.115	0.102	0.097
PA	WASHINGTON CO	204,584	0.115	0.102	0.096	0.092
PA	WESTMORELAND CO	370,321	0.123	0.099	0.092	0.089
PA	YORK CO	339,574	0.115	0.096	0.089	0.085
RI	KENT CO	161,135	0.135	0.11	0.099	0.088
RI	PROVIDENCE CO	596,270	0.131	0.106	0.095	0.089
SC	ABBEVILLE CO	23,862	0.093	0.086	0.08	0.076
SC	AIKEN CO	120,940	0.097	0.082	0.079	0.075
SC	ANDERSON CO	145,196	0.115	0.102	0.09	0.087
SC	BARNWELL CO	20,293	0.093	0.084	0.079	0.077
SC	BERKELEY CO	128,776	0.105	0.079	0.075	0.072

All

SC	CHARLESTON CO	295,039	0.106	0.084	0.077	0.073
SC	CHEROKEE CO	44,506	0.106	0.092	0.083	0.082
SC	CHESTER CO	32,170	0.112	0.105	0.087	0.083
SC	DARLINGTON CO	61,851	0.1	0.09	0.082	0.079
SC	EDGEFIELD CO	18,375	0.097	0.09	0.078	0.076
SC	OCONEE CO	57,494	0.093	0.089	0.082	0.075
SC	PICKENS CO	93,894	0.112	0.094	0.088	0.082
SC	RICHLAND CO	285,720	0.112	0.095	0.088	0.087
SC	SPARTANBURG CO	226,800	0.112	0.096	0.084	0.082
SC	UNION CO	30,337	0.099	0.09	0.083	0.077
SC	WILLIAMSBURG CO	36,815	0.092	0.082	0.079	0.076
SC	YORK CO	131,497	0.117	0.1	0.093	0.086
TN	ANDERSON CO	68,250	0.113	0.096	0.092	0.088
TN	BLOUNT CO	85,969	0.124	0.107	0.094	0.091
TN	BRADLEY CO	73,712	0.097	0.089	0.083	0.08
TN	COFFEE CO	40,339	0.105	0.079	0.076	0.075
TN	DAVIDSON CO	510,784	0.11	0.096	0.089	0.086
TN	DICKSON CO	35,061	0.111	0.097	0.088	0.082
TN	DYER CO	34,854	0.112	0.091	0.083	0.082
TN	HAMBLEN CO	50,480	0.105	0.088	0.083	0.08
TN	HAMILTON CO	285,536	0.114	0.098	0.093	0.088
TN	HAYWOOD CO	19,437	0.104	0.093	0.082	0.08
TN	JEFFERSON CO	33,016	0.119	0.104	0.098	0.095
TN	KNOX CO	335,749	0.119	0.099	0.093	0.089
TN	MADISON CO	77,982	0.114	0.097	0.088	0.078
TN	MAURY CO	54,812	0.101	0.084	0.077	0.075
TN	RUTHERFORD CO	118,570	0.095	0.081	0.075	0.072
TN	SEVIER CO	51,043	0.113	0.1	0.089	0.086
TN	SHELBY CO	826,330	0.128	0.101	0.092	0.089
TN	SULLIVAN CO	143,596	0.115	0.093	0.092	0.091
TN	SUMNER CO	103,281	0.124	0.104	0.1	0.095
TN	WILLIAMSON CO	81,021	0.104	0.091	0.088	0.085
TN	WILSON CO	67,675	0.105	0.09	0.083	0.077
TX	BEXAR CO	1,185,394	0.119	0.098	0.091	0.086
TX	BRAZORIA CO	191,707	0.144	0.116	0.096	0.091
TX	BREWSTER CO	8,681	0.079	0.073	0.067	0.064
TX	CAMERON CO	260,120	0.085	0.076	0.071	0.068
TX	COLLIN CO	264,036	0.129	0.108	0.097	0.095
TX	DALLAS CO	1,852,810	0.134	0.111	0.098	0.094
TX	DENTON CO	273,525	0.14	0.112	0.106	0.1
TX	EL PASO CO	591,610	0.134	0.101	0.087	0.079
TX	GALVESTON CO	217,399	0.184	0.141	0.12	0.105
TX	GREGG CO	104,948	0.142	0.103	0.098	0.093
TX	HARRIS CO	2,818,199	0.244	0.139	0.117	0.112
TX	JEFFERSON CO	239,397	0.139	0.105	0.096	0.092
TX	NUECES CO	291,145	0.122	0.093	0.088	0.081
TX	ORANGE CO	80,509	0.12	0.094	0.086	0.084
TX	SMITH CO	151,309	0.111	0.096	0.095	0.093
TX	TARRANT CO	1,170,103	0.139	0.117	0.108	0.103
TX	TRAVIS CO	576,407	0.105	0.089	0.087	0.085
TX	VICTORIA CO	74,361	0.102	0.09	0.086	0.08
UT	DAVIS CO	187,941	0.11	0.084	0.08	0.074
UT	SALT LAKE CO	725,956	0.113	0.091	0.086	0.081
UT	SAN JUAN CO	12,621	0.073	0.068	0.065	0.063
UT	UTAH CO	263,590	0.095	0.078	0.074	0.072
UT	WEBER CO	158,330	0.102	0.083	0.077	0.075

All

VT	BENNINGTON CO	35,845	0.101	0.089	0.082	0.078
VT	CHITTENDEN CO	131,761	0.092	0.08	0.076	0.073
VA	ARLINGTON CO	170,936	0.127	0.104	0.1	0.097
VA	AUGUSTA CO	54,677	0.095	0.083	0.082	0.078
VA	CAROLINE CO	19,217	0.103	0.091	0.088	0.085
VA	CHARLES CITY CO	6,282	0.121	0.1	0.091	0.087
VA	CHESTERFIELD CO	209,274	0.124	0.101	0.092	0.088
VA	FAIRFAX CO	818,584	0.128	0.106	0.1	0.095
VA	FAUQUIER CO	48,741	0.11	0.089	0.084	0.081
VA	FREDERICK CO	45,723	0.102	0.091	0.083	0.081
VA	HANOVER CO	63,306	0.121	0.098	0.094	0.092
VA	HENRICO CO	217,881	0.119	0.097	0.091	0.088
VA	HENRY CO	56,942	0.1	0.083	0.079	0.074
VA	MADISON CO	11,949	0.094	0.09	0.083	0.081
VA	PRINCE WILLIAM CO	215,686	0.112	0.097	0.092	0.087
VA	ROANOKE CO	79,332	0.102	0.087	0.084	0.081
VA	STAFFORD CO	61,236	0.111	0.095	0.088	0.084
VA	WARREN CO	26,142	0.096	0.085	0.079	0.077
VA	WYTHE CO	25,466	0.097	0.088	0.081	0.078
VA	ALEXANDRIA	111,183	0.12	0.096	0.091	0.088
VA	HAMPTON	133,793	0.121	0.096	0.088	0.084
VA	SUFFOLK	52,141	0.122	0.102	0.09	0.086
WA	CLALLAM CO	56,464	0.062	0.051	0.045	0.043
WA	CLARK CO	238,053	0.108	0.078	0.061	0.057
WA	KING CO	1,507,319	0.109	0.083	0.072	0.065
WA	PIERCE CO	586,203	0.103	0.079	0.072	0.068
WA	SNOHOMISH CO	465,642	0.081	0.07	0.064	0.058
WA	SPOKANE CO	361,364	0.084	0.07	0.067	0.064
WA	WHATCOM CO	127,780	0.081	0.067	0.058	0.055
WV	CABELL CO	96,827	0.122	0.101	0.097	0.093
WV	GREENBRIER CO	34,693	0.104	0.091	0.085	0.083
WV	HANCOCK CO	35,233	0.103	0.091	0.084	0.081
WV	KANAWHA CO	207,619	0.11	0.091	0.08	0.077
WV	OHIO CO	50,871	0.104	0.089	0.081	0.078
WV	WOOD CO	86,915	0.121	0.1	0.094	0.09
WI	BROWN CO	194,594	0.109	0.085	0.076	0.071
WI	COLUMBIA CO	45,088	0.101	0.088	0.08	0.076
WI	DANE CO	367,085	0.095	0.081	0.074	0.071
WI	DODGE CO	76,559	0.088	0.083	0.078	0.072
WI	DOOR CO	25,690	0.121	0.104	0.092	0.088
WI	FLORENCE CO	4,590	0.078	0.073	0.068	0.063
WI	FOND DU LAC CO	90,083	0.09	0.082	0.077	0.075
WI	JEFFERSON CO	67,783	0.098	0.087	0.079	0.074
WI	KENOSHA CO	128,181	0.127	0.112	0.104	0.096
WI	KEWAUNEE CO	18,878	0.12	0.104	0.09	0.086
WI	MANITOWOC CO	80,421	0.126	0.106	0.096	0.091
WI	MARATHON CO	115,400	0.084	0.078	0.07	0.068
WI	MILWAUKEE CO	959,275	0.128	0.109	0.101	0.091
WI	ONEIDA CO	31,679	0.076	0.065	0.061	0.059
WI	OUTAGAMIE CO	140,510	0.105	0.09	0.084	0.077
WI	OZAUKEE CO	72,831	0.143	0.115	0.106	0.094
WI	POLK CO	34,773	0.085	0.076	0.072	0.066
WI	RACINE CO	175,034	0.113	0.103	0.092	0.088
WI	ROCK CO	139,510	0.108	0.094	0.084	0.077
WI	ST CROIX CO	50,251	0.087	0.071	0.068	0.063
WI	SAUK CO	46,975	0.102	0.087	0.078	0.076

All

WI	SHEBOYGAN CO	103,877	0.119	0.105	0.088	0.079
WI	VERNON CO	25,617	0.083	0.071	0.068	0.065
WI	WALWORTH CO	75,000	0.099	0.089	0.083	0.076
WI	WASHINGTON CO	95,328	0.099	0.09	0.08	0.076
WI	WAUKESHA CO	304,715	0.102	0.088	0.079	0.076
WI	WINNEBAGO CO	140,320	0.096	0.086	0.081	0.077
WY	TETON CO	11,172	0.069	0.063	0.061	0.06

All

MAY 1996)				
C AVG 8H MX2	AVG 8H MX5	8HR MAX5	8HR MAX5	8HR MAX5
1993-95	1993-95	1993	1994	1995
0.090	0.083	0.081	0.076	0.092
0.085	0.081		0.081	
0.087	0.083	0.086	0.078	0.087
0.071	0.066		0.064	0.069
0.096	0.086	0.085	0.075	0.100
0.083	0.079	0.078	0.077	0.083
0.093	0.082			0.082
0.077	0.072	0.069	0.072	0.077
0.084	0.079	0.084	0.078	0.077
0.105	0.094	0.095	0.087	0.100
0.074	0.067	0.068	0.064	0.071
0.052	0.048	0.048	0.049	
0.067	0.066	0.064	0.069	
0.092	0.089	0.088	0.087	0.093
0.084	0.080	0.079	0.080	0.083
0.098	0.085	0.076	0.080	0.099
0.067	0.065	0.060	0.062	0.074
0.072	0.068	0.063	0.072	0.070
0.086	0.080	0.075	0.081	0.085
0.096	0.082	0.079	0.075	0.094
0.094	0.091	0.088	0.094	0.091
0.081	0.078	0.076	0.083	0.075
0.101	0.095		0.097	0.094
0.086	0.081	0.079	0.082	0.084
0.094	0.080	0.078	0.075	0.088
0.052	0.050	0.049	0.051	
0.103	0.098	0.090	0.099	0.105
0.115	0.108	0.111	0.105	0.108
0.084	0.079		0.080	0.079
0.114	0.104	0.104	0.105	0.105
0.088	0.081		0.081	
0.126	0.119	0.116	0.118	0.123
0.089	0.086		0.092	0.080
0.066	0.059	0.060	0.065	0.053
0.165	0.153	0.170	0.148	0.143
0.098	0.092	0.104	0.079	0.095
0.060	0.055	0.054	0.054	0.057
0.100	0.091		0.094	0.089
0.062	0.054	0.053	0.057	0.054
0.106	0.098	0.094	0.095	0.105
0.088	0.079	0.075	0.086	0.076
0.075	0.069	0.075	0.068	0.064
0.080	0.071	0.070	0.066	0.077
0.099	0.090		0.090	
0.119	0.102	0.108	0.110	0.088
0.113	0.104	0.103	0.106	0.104
0.157	0.145	0.151	0.144	0.141
0.114	0.105	0.103	0.104	0.109
0.081	0.078		0.078	
0.174	0.164	0.168	0.160	0.165

All

0.117	0.108	0.113	0.106	0.107
0.051	0.044	0.041	0.044	0.049
0.095	0.085	0.084	0.087	0.084
0.080	0.077		0.076	0.078
0.068	0.056	0.048	0.047	0.074
0.097	0.088	0.085	0.092	0.088
0.102	0.091			0.091
0.075	0.066		0.066	
0.075	0.071	0.064	0.079	
0.061	0.056	0.053	0.061	0.056
0.085	0.077	0.074	0.072	0.086
0.068	0.062	0.068	0.061	0.058
0.103	0.094	0.094	0.087	0.103
0.092	0.084	0.079	0.089	0.084
0.091	0.084	0.083	0.081	0.089
0.114	0.109	0.105	0.113	
0.092	0.087	0.088	0.087	0.088
0.124	0.116	0.111	0.116	0.123
0.084	0.077	0.075	0.076	0.082
0.071	0.068	0.068	0.069	0.069
0.076	0.071	0.070	0.075	0.069
0.076	0.071	0.073	0.067	0.073
0.067	0.064	0.064	0.063	0.067
0.077	0.074			0.074
0.063	0.061	0.061	0.062	0.061
0.086	0.081	0.085	0.079	0.079
0.077	0.073	0.071	0.076	
0.064	0.063		0.063	
0.072	0.067	0.063	0.068	0.071
0.120	0.103	0.110	0.090	0.110
0.106	0.094	0.091	0.097	0.094
0.101	0.093	0.097	0.093	0.091
0.114	0.101	0.104	0.102	0.097
0.119	0.104	0.105	0.092	0.116
0.104	0.095	0.099	0.089	0.097
0.111	0.093	0.098	0.096	0.087
0.111	0.090			0.090
0.119	0.103	0.101	0.101	0.109
0.095	0.088	0.093	0.084	0.087
0.107	0.094	0.101	0.087	0.095
0.077	0.070	0.072	0.072	0.067
0.083	0.072	0.082	0.070	0.066
0.087	0.079	0.085	0.076	0.077
0.085	0.079	0.079	0.078	0.080
0.094	0.084	0.083	0.083	0.086
0.084	0.079	0.079	0.080	0.080
0.076	0.069	0.067	0.072	0.068
0.078	0.075	0.076	0.076	0.074
0.084	0.078	0.079	0.077	0.079
0.078	0.072		0.076	0.069
0.078	0.070	0.075	0.068	0.067
0.076	0.073	0.073	0.075	0.073
0.074	0.072	0.071	0.073	0.072
0.080	0.076	0.083	0.073	0.074
0.078	0.073	0.073	0.075	0.071
0.083	0.077	0.077	0.081	0.075

All

0.081	0.075	0.079	0.072	0.074
0.075	0.071	0.075	0.072	0.068
0.076	0.073			0.073
0.117	0.101			0.101
0.115	0.095	0.100	0.082	0.103
0.084	0.074		0.072	0.077
0.116	0.104	0.110	0.089	0.113
0.103	0.097			0.097
0.086	0.081		0.075	0.087
0.093	0.086	0.088	0.085	0.085
0.115	0.104	0.108	0.095	0.109
0.051	0.050	0.049	0.051	
0.063	0.059	0.055	0.063	
0.073	0.067	0.063	0.065	0.074
0.081	0.076	0.065	0.082	0.081
0.099	0.095			0.095
0.076	0.073	0.067	0.070	0.082
0.084	0.081	0.072	0.084	0.087
0.087	0.083	0.081	0.082	0.088
0.091	0.080	0.073	0.078	0.090
0.101	0.089		0.080	0.098
0.091	0.079	0.075	0.071	0.093
0.083	0.074	0.064	0.079	0.080
0.088	0.080	0.077	0.083	0.082
0.095	0.086	0.078	0.087	0.095
0.083	0.076	0.064	0.079	0.087
0.081	0.078	0.069	0.084	0.081
0.073	0.067	0.060	0.069	0.072
0.085	0.076	0.070	0.075	0.084
0.087	0.080	0.080	0.080	0.080
0.090	0.081			0.081
0.084	0.074	0.062	0.077	0.084
0.095	0.089	0.078	0.092	0.097
0.108	0.100	0.099	0.103	0.098
0.089	0.081	0.077	0.082	0.086
0.096	0.094			0.094
0.097	0.093	0.088	0.098	0.095
0.097	0.089	0.085	0.095	0.089
0.088	0.085			0.085
0.092	0.082	0.068	0.083	0.096
0.102	0.094	0.081	0.092	0.109
0.096	0.091	0.081	0.098	0.095
0.097	0.091	0.084	0.095	0.095
0.091	0.084	0.069	0.085	0.098
0.091	0.085	0.076	0.088	0.092
0.090	0.085			0.085
0.097	0.093	0.087	0.098	0.094
0.088	0.083	0.071	0.094	0.084
0.100	0.092	0.083	0.109	0.085
0.064	0.060	0.058	0.060	0.064
0.080	0.075			0.075
0.083	0.076	0.072	0.075	0.081
0.072	0.070			0.070
0.074	0.070	0.060	0.074	0.076
0.068	0.064		0.063	0.066
0.081	0.073	0.061	0.071	0.088

All

0.081	0.073	0.072	0.071	0.078
0.085	0.082	0.077	0.088	0.081
0.096	0.087	0.087	0.087	0.089
0.091	0.084	0.087	0.080	0.085
0.092	0.087	0.079	0.092	0.092
0.090	0.085	0.081	0.090	
0.092	0.085	0.081	0.088	0.086
0.078	0.073	0.071	0.076	
0.091	0.086	0.084	0.086	0.089
0.078	0.072	0.075		0.070
0.095	0.085	0.083	0.091	0.082
0.092	0.088	0.081	0.089	0.094
0.097	0.091	0.085	0.094	0.095
0.090	0.085	0.080	0.088	0.088
0.102	0.091	0.088	0.095	0.090
0.089	0.082	0.076	0.084	0.086
0.097	0.091	0.079	0.098	0.096
0.088	0.083	0.076	0.090	0.083
0.091	0.086	0.086	0.087	0.085
0.082	0.073	0.065	0.081	0.075
0.094	0.087	0.080	0.097	0.085
0.092	0.087	0.085	0.089	0.088
0.080	0.073	0.070	0.073	0.076
0.094	0.084		0.082	0.087
0.089	0.079	0.077	0.079	0.081
0.093	0.086	0.079	0.092	0.087
0.084	0.078	0.074	0.078	0.084
0.097	0.087	0.089	0.082	0.091
0.082	0.075	0.068	0.082	0.077
0.086	0.083	0.092	0.081	0.077
0.085	0.080	0.082	0.077	0.083
0.093	0.082	0.089	0.076	0.083
0.099	0.088	0.085	0.087	0.092
0.088	0.081			0.081
0.099	0.091	0.087	0.090	0.096
0.087	0.080	0.079	0.077	0.086
0.090	0.085		0.080	0.090
0.092	0.086	0.076	0.084	0.100
0.093	0.085	0.085	0.084	0.087
0.082	0.073	0.074	0.073	0.073
0.082	0.078	0.075	0.079	0.081
0.090	0.082	0.081	0.082	0.083
0.094	0.082	0.085	0.085	0.077
0.088	0.083	0.081	0.082	0.086
0.089	0.080	0.069	0.081	0.091
0.094	0.083	0.078	0.086	0.085
0.082	0.076	0.071	0.070	0.088
0.091	0.077	0.074	0.076	0.082
0.099	0.088	0.086	0.087	0.092
0.088	0.080	0.080	0.074	0.086
0.082	0.074	0.074	0.076	0.074
0.103	0.086	0.084	0.085	0.089
0.073	0.062	0.060	0.067	0.061
0.084	0.075	0.078	0.070	0.078
0.075	0.065		0.058	0.072
0.110	0.088	0.089	0.091	0.086

All

0.079	0.066	0.063	0.066	0.069
0.086	0.073	0.064	0.074	0.082
0.104	0.092	0.095	0.089	0.094
0.120	0.104	0.104	0.104	0.106
0.105	0.097	0.094	0.094	0.104
0.106	0.095	0.100	0.091	0.095
0.111	0.102	0.106	0.090	0.110
0.102	0.091	0.101	0.083	0.090
0.117	0.104	0.100	0.108	0.106
0.101	0.093	0.096	0.088	0.097
0.104	0.092	0.094	0.087	0.097
0.110	0.096	0.099	0.090	0.100
0.120	0.111			0.111
0.102	0.089	0.083	0.085	0.101
0.088	0.076	0.080		0.073
0.101	0.090	0.088	0.090	0.092
0.098	0.085	0.077	0.088	0.092
0.104	0.092	0.093	0.090	0.093
0.103	0.091	0.089	0.095	0.090
0.100	0.089	0.085	0.092	0.091
0.088	0.079	0.082	0.079	0.076
0.085	0.078	0.078	0.075	0.082
0.109	0.093	0.091	0.095	0.093
0.107	0.092	0.081	0.089	0.106
0.092	0.086	0.083	0.085	0.090
0.092	0.087	0.078	0.087	0.098
0.094	0.089	0.079	0.091	0.098
0.083	0.076	0.078	0.075	0.076
0.084	0.076	0.069	0.077	0.082
0.090	0.082		0.083	0.081
0.088	0.078	0.078	0.072	0.086
0.090	0.083	0.080	0.081	0.090
0.099	0.085	0.078	0.085	0.092
0.089	0.084		0.083	0.086
0.106	0.090	0.084	0.095	0.093
0.102	0.093	0.091	0.085	0.104
0.102	0.092	0.082	0.091	0.103
0.089	0.081	0.074	0.086	0.084
0.095	0.084		0.086	0.083
0.100	0.090	0.083	0.091	0.096
0.089	0.077	0.074	0.074	0.084
0.097	0.085	0.079	0.087	0.090
0.078	0.068	0.057		0.079
0.068	0.063	0.060	0.066	
0.067	0.063	0.058	0.061	0.070
0.070	0.063		0.067	0.060
0.082	0.075	0.066		0.085
0.080	0.073	0.077	0.070	0.074
0.093	0.081	0.080	0.080	0.085
0.081	0.074	0.073	0.071	0.080
0.091	0.084	0.075	0.092	0.086
0.073	0.071	0.069	0.069	0.075
0.082	0.077	0.075	0.076	0.082
0.073	0.068	0.062	0.069	0.074
0.077	0.072	0.068	0.068	0.082
0.082	0.075	0.074	0.077	0.076

All

0.086	0.080	0.078	0.080	0.083
0.080	0.073	0.072	0.073	0.076
0.096	0.089	0.080	0.089	0.098
0.080	0.073	0.063	0.072	0.085
0.075	0.073	0.072	0.069	0.078
0.098	0.091	0.077	0.100	0.096
0.082	0.078	0.071	0.082	0.083
0.089	0.080	0.070	0.079	0.091
0.115	0.097			0.097
0.105	0.089	0.075	0.106	0.087
0.089	0.079	0.070	0.081	0.086
0.066	0.062	0.047	0.065	0.074
0.060	0.056	0.049	0.059	0.060
0.084	0.078	0.076	0.084	0.076
0.070	0.066	0.065	0.069	0.066
0.071	0.067	0.064	0.070	0.069
0.072	0.068		0.068	
0.082	0.075	0.080	0.077	0.070
0.095	0.085	0.083	0.084	0.088
0.080	0.071	0.076	0.070	0.067
0.100	0.088	0.088	0.092	0.086
0.074	0.070	0.067	0.070	0.073
0.097	0.091	0.093	0.082	0.098
0.096	0.086	0.079	0.088	0.093
0.115	0.101	0.109	0.092	0.102
0.103	0.092	0.102	0.085	0.090
0.093	0.085	0.080	0.083	0.093
0.109	0.100	0.104	0.088	0.109
0.107	0.099	0.103	0.094	0.102
0.103	0.096	0.098	0.089	0.102
0.113	0.104	0.103	0.102	0.107
0.119	0.107			0.107
0.108	0.095	0.092	0.083	0.111
0.108	0.097	0.096	0.094	0.103
0.115	0.105	0.100	0.098	0.118
0.096	0.087			0.087
0.074	0.068	0.060	0.075	0.071
0.094	0.080	0.076	0.082	0.082
0.081	0.076		0.076	0.076
0.064	0.063	0.062	0.061	0.066
0.088	0.083	0.085	0.085	0.081
0.111	0.094			0.094
0.088	0.082	0.081	0.080	0.086
0.079	0.074	0.074	0.073	0.076
0.099	0.091	0.098	0.085	0.090
0.084	0.075	0.072	0.076	0.079
0.092	0.086	0.084	0.081	0.094
0.080	0.073	0.069	0.072	0.079
0.074	0.069	0.066	0.069	0.072
0.092	0.085	0.080	0.084	0.091
0.101	0.089		0.083	0.096
0.083	0.079	0.083	0.074	0.081
0.085	0.079	0.074	0.079	0.084
0.089	0.083	0.082	0.081	0.088
0.079	0.072	0.067	0.072	0.078
0.087	0.080	0.077	0.076	0.088

All

0.103	0.091			0.091
0.098	0.091		0.093	0.090
0.094	0.086	0.079	0.086	0.095
0.103	0.094	0.088	0.096	0.099
0.083	0.076	0.077	0.074	0.077
0.083	0.073	0.073	0.069	0.077
0.110	0.095	0.096	0.092	0.099
0.090	0.083	0.090	0.080	0.081
0.089	0.084	0.081	0.077	0.094
0.101	0.091	0.091	0.088	0.096
0.081	0.075		0.075	
0.073	0.069	0.066	0.067	0.076
0.087	0.077	0.074	0.080	
0.081	0.078	0.076		0.080
0.085	0.080	0.079	0.084	0.078
0.099	0.081		0.080	0.083
0.088	0.084			0.084
0.091	0.084	0.090	0.083	0.081
0.080	0.075	0.085	0.065	
0.081	0.075	0.080	0.076	0.070
0.088	0.084	0.085	0.084	0.083
0.095	0.086	0.084	0.090	0.084
0.090	0.086	0.094	0.086	0.078
0.092	0.088	0.098	0.078	0.089
0.097	0.086	0.089	0.086	0.085
0.087	0.086			0.086
0.097	0.088		0.088	
0.094	0.088		0.088	0.088
0.077	0.074			0.074
0.100	0.091	0.096	0.090	0.089
0.090	0.082		0.082	
0.087	0.081			0.081
0.084	0.080			0.080
0.086	0.082	0.090	0.075	0.081
0.087	0.081	0.082	0.090	0.071
0.101	0.092		0.092	0.092
0.069	0.067			0.067
0.091	0.087	0.095	0.084	0.082
0.094	0.085	0.087	0.079	0.091
0.060	0.056	0.055	0.057	0.058
0.057	0.053	0.051	0.055	0.055
0.057	0.055	0.053	0.056	0.057
0.065	0.061			0.061
0.095	0.087	0.083	0.089	0.090
0.092	0.085	0.081	0.084	0.092
0.103	0.092	0.092	0.090	0.094
0.095	0.091	0.083	0.097	0.093
0.096	0.091		0.091	0.092
0.100	0.093	0.088	0.094	0.098
0.097	0.085		0.079	0.091
0.093	0.086	0.086	0.087	0.085
0.098	0.090	0.083	0.092	0.097
0.092	0.085	0.079	0.083	0.093
0.094	0.087	0.087	0.087	0.087
0.103	0.095	0.092	0.096	0.097
0.091	0.085	0.085	0.085	0.086

All

0.091	0.086	0.079	0.086	0.093
0.094	0.087	0.081	0.092	0.088
0.090	0.082	0.080	0.083	0.083
0.100	0.090	0.089	0.091	0.090
0.100	0.089	0.084	0.092	0.093
0.088	0.086	0.083	0.079	0.097
0.096	0.090	0.092	0.089	0.089
0.083	0.078	0.082	0.067	0.085
0.096	0.091	0.093	0.092	0.088
0.097	0.088	0.088	0.085	0.091
0.087	0.083	0.076	0.087	0.087
0.095	0.088	0.089	0.086	0.091
0.094	0.09	0.095	0.085	0.092
0.095	0.09	0.087	0.087	0.097
0.086	0.081	0.08	0.083	
0.104	0.098	0.091	0.102	0.101
0.103	0.096	0.1	0.094	0.094
0.078	0.074	0.061	0.076	0.086
0.08	0.078		0.078	0.079
0.079	0.072	0.068	0.07	0.08
0.09	0.084	0.077	0.086	0.089
0.096	0.086	0.076	0.089	0.095
0.077	0.068	0.061	0.074	0.071
0.068	0.061	0.063	0.062	0.058
0.071	0.067	0.066	0.066	0.07
0.07	0.062	0.054	0.069	0.063
0.111	0.1	0.089	0.098	0.114
0.091	0.087		0.086	0.088
0.096	0.087	0.084	0.083	0.095
0.095	0.088	0.084	0.091	0.091
0.116	0.098	0.094	0.092	0.109
0.088	0.084	0.083	0.082	0.088
0.101	0.09	0.092	0.089	0.089
0.101	0.094	0.093	0.088	0.101
0.094	0.085	0.08	0.089	0.088
0.097	0.087	0.09	0.085	0.087
0.103	0.095	0.094	0.088	0.103
0.089	0.079	0.078	0.076	0.083
0.091	0.084	0.083	0.082	0.088
0.094	0.089	0.095	0.084	0.089
0.076	0.07	0.07	0.069	0.073
0.093	0.086	0.082	0.086	0.091
0.1	0.094	0.098	0.089	0.096
0.098	0.09	0.084	0.088	0.1
0.095	0.086	0.09	0.086	0.083
0.106	0.099	0.098	0.09	0.111
0.099	0.093	0.095	0.091	0.095
0.097	0.091	0.09	0.09	0.094
0.096	0.086	0.09	0.082	0.086
0.109	0.093	0.088	0.089	0.104
0.104	0.09		0.085	0.095
0.084	0.076	0.076	0.074	0.08
0.082	0.075	0.078	0.076	0.073
0.104	0.085	0.089	0.078	0.089
0.085	0.079	0.078	0.08	
0.08	0.07		0.074	0.067

All

0.083	0.073	0.079	0.073	0.069
0.089	0.081	0.083	0.079	0.083
0.098	0.083	0.084	0.075	0.092
0.086	0.078	0.08	0.083	0.071
0.084	0.077	0.081	0.074	0.076
0.088	0.077	0.078	0.076	0.077
0.092	0.082	0.089	0.074	0.084
0.093	0.085	0.092	0.085	0.078
0.095	0.083	0.082	0.083	0.084
0.088	0.076	0.079	0.077	0.073
0.08	0.075	0.082	0.073	0.071
0.1	0.087	0.097	0.079	0.087
0.095	0.089	0.088	0.087	0.094
0.107	0.094			0.094
0.089	0.082		0.082	
0.079	0.077			0.077
0.089	0.082	0.067	0.091	0.089
0.098	0.083		0.083	
0.091	0.083			0.083
0.089	0.081		0.081	
0.099	0.09	0.088	0.089	0.093
0.09	0.082	0.075	0.09	0.082
0.1	0.094	0.099	0.087	0.098
0.096	0.089	0.093	0.084	0.09
0.099	0.09		0.09	
0.082	0.076	0.076	0.076	
0.08	0.073	0.073	0.076	0.071
0.098	0.087	0.089	0.085	
0.098	0.09	0.092	0.087	0.091
0.094	0.091			0.091
0.104	0.097	0.098	0.096	0.097
0.091	0.088			0.088
0.09	0.078	0.074	0.074	0.087
0.094	0.086	0.084	0.081	0.094
0.102	0.095	0.091	0.085	0.11
0.07	0.065	0.061	0.069	
0.075	0.069		0.07	0.069
0.104	0.096	0.094	0.095	0.101
0.104	0.096	0.091	0.088	0.11
0.108	0.1	0.091	0.101	0.109
0.091	0.081	0.062	0.097	0.085
0.126	0.109	0.106	0.087	0.134
0.097	0.086	0.08	0.078	0.102
0.123	0.112	0.112	0.112	0.112
0.1	0.093	0.095	0.087	0.097
0.094	0.083	0.082	0.078	0.089
0.09	0.084	0.086	0.08	0.088
0.097	0.094			0.094
0.113	0.101	0.086	0.109	0.108
0.088	0.083	0.08	0.081	0.089
0.088	0.08	0.08	0.073	0.088
0.083	0.077	0.076	0.075	0.082
0.091	0.084		0.086	0.083
0.066	0.064	0.064	0.067	0.062
0.078	0.073			0.073
0.082	0.074		0.075	0.073

All

0.087	0.08	0.083	0.081	0.077
0.08	0.074	0.077	0.074	0.073
0.103	0.096	0.101	0.089	0.098
0.081	0.075		0.075	
0.089	0.084	0.09	0.082	0.08
0.094	0.088	0.097	0.082	0.087
0.097	0.09	0.1	0.082	0.09
0.104	0.096	0.104	0.09	0.095
0.089	0.082	0.086	0.079	0.082
0.089	0.082	0.081	0.083	0.083
0.096	0.093	0.097	0.089	0.093
0.094	0.088	0.092	0.085	0.087
0.084	0.08			0.08
0.089	0.081	0.083	0.08	
0.094	0.088	0.092	0.078	0.094
0.087	0.082	0.083	0.083	0.08
0.093	0.085	0.086	0.084	0.087
0.084	0.078	0.077	0.079	
0.087	0.079	0.082	0.077	0.08
0.094	0.09	0.096	0.085	0.09
0.094	0.087	0.094	0.085	0.082
0.091	0.086	0.1	0.078	0.081
0.053	0.042	0.04	0.042	0.045
0.073	0.057	0.053	0.058	0.061
0.088	0.066	0.066	0.066	0.068
0.083	0.068	0.067	0.072	0.067
0.068	0.058	0.06	0.055	0.059
0.068	0.064	0.059	0.067	0.066
0.066	0.056	0.057	0.056	0.055
0.102	0.093	0.095	0.096	0.088
0.09	0.083	0.081	0.083	0.085
0.087	0.081	0.076	0.079	0.09
0.079	0.075	0.06	0.075	0.09
0.085	0.081	0.077	0.079	0.087
0.097	0.091	0.083	0.095	0.095
0.085	0.071		0.066	0.077
0.081	0.071	0.057	0.069	0.088
0.079	0.071	0.063	0.071	0.079
0.084	0.08			0.08
0.098	0.085	0.072	0.093	0.09
0.072	0.066	0.064	0.068	0.066
0.081	0.074		0.069	0.079
0.083	0.074	0.071	0.074	0.079
0.11	0.096	0.085	0.095	0.109
0.098	0.087		0.087	0.088
0.103	0.093		0.092	0.095
0.076	0.066	0.06	0.064	0.075
0.104	0.092	0.079	0.093	0.106
0.07	0.064			0.064
0.09	0.082			0.082
0.108	0.099		0.091	0.108
0.07	0.064	0.056	0.061	0.076
0.1	0.086	0.077	0.088	0.095
0.092	0.079		0.075	0.084
0.071	0.063	0.057	0.064	0.068
0.087	0.077			0.077

All

0.091	0.085	0.075	0.081	0.099
0.071	0.064	0.062	0.063	0.069
0.087	0.08	0.077	0.079	0.086
0.083	0.078	0.07	0.077	0.089
0.083	0.078	0.076	0.072	0.086
0.083	0.076		0.069	0.083
0.059	0.058	0.054	0.062	

Current Std

1993-95	COUNTY DESIGN VALUES	FOR PRIMA	OZONE NAAQ		
			(AIRS AIR		
		1990	1HR,1 EXC		
STATE	COUNTY	POPULATIO	1993-95		
CA	LOS ANGELES CO	8,863,164	0.250		
TX	HARRIS CO	2,818,199	0.244		
CA	SAN BERNARDINO CO	1,418,380	0.234		
CA	RIVERSIDE CO	1,170,413	0.220		
CA	IMPERIAL CO	109,303	0.205		
TX	GALVESTON CO	217,399	0.184		
CA	ORANGE CO	2,410,556	0.170		
CA	KERN CO	543,477	0.165		
CT	FAIRFIELD CO	827,645	0.165		
CA	VENTURA CO	669,016	0.157		
CT	MIDDLESEX CO	143,196	0.153		
MD	ANNE ARUNDEL CO	427,239	0.151		
CA	TULARE CO	311,921	0.150		
NJ	MIDDLESEX CO	671,780	0.150		
CT	NEW HAVEN CO	804,219	0.149		
GA	FULTON CO	648,951	0.149		
GA	DE KALB CO	545,837	0.147		
MO	ST CHARLES CO	212,907	0.147		
CA	SAN DIEGO CO	2,498,016	0.146		
MD	CECIL CO	71,347	0.146		
CA	SACRAMENTO CO	1,041,219	0.145		
CA	FRESNO CO	667,490	0.144		
TX	BRAZORIA CO	191,707	0.144		
WI	OZAUKEE CO	72,831	0.143		
TX	GREGG CO	104,948	0.142		
CT	HARTFORD CO	851,783	0.141		
GA	ROCKDALE CO	54,091	0.141		
MD	HARFORD CO	182,132	0.141		
MI	MUSKEGON CO	158,983	0.141		
GA	DOUGLAS CO	71,120	0.140		
MD	BALTIMORE	736,014	0.140		
TX	DENTON CO	273,525	0.14		
DE	NEW CASTLE CO	441,946	0.139		
LA	EAST BATON ROUGE PAR	380,105	0.139		
ME	SAGADAHOC CO	33,535	0.139		
NJ	OCEAN CO	433,203	0.139		
TX	JEFFERSON CO	239,397	0.139		
TX	TARRANT CO	1,170,103	0.139		
CA	ALAMEDA CO	1,279,182	0.138		
NJ	CAMDEN CO	502,824	0.138		
NJ	MONMOUTH CO	553,124	0.138		
NY	SUFFOLK CO	1,321,864	0.138		
DE	KENT CO	110,993	0.137		
MD	BALTIMORE CO	692,134	0.137		
PA	BUCKS CO	541,174	0.137		
NM	DONA ANA CO	135,510	0.136		
DC	WASHINGTON	606,900	0.135		
MI	ALLEGAN CO	90,509	0.135		
NJ	MERCER CO	325,824	0.135		
RI	KENT CO	161,135	0.135		

Current Std

CA	PLACER CO	172,796	0.134		
TX	DALLAS CO	1,852,810	0.134		
TX	EL PASO CO	591,610	0.134		
IL	COOK CO	5,105,067	0.133		
IN	CLARK CO	87,777	0.133		
PA	ALLEGHENY CO	1,336,449	0.133		
CT	NEW LONDON CO	254,957	0.132		
IN	LA PORTE CO	107,066	0.131		
IN	WARRICK CO	44,920	0.131		
MA	HAMPSHIRE CO	146,568	0.131		
MD	PRINCE GEORGES CO	729,268	0.131		
NY	KINGS CO	2,300,664	0.131		
RI	PROVIDENCE CO	596,270	0.131		
CA	CONTRA COSTA CO	803,732	0.130		
CA	MADERA CO	88,090	0.130		
CA	SANTA CLARA CO	1,497,577	0.130		
CA	STANISLAUS CO	370,522	0.130		
CT	TOLLAND CO	128,699	0.130		
MA	HAMPDEN CO	456,310	0.130		
MA	WORCESTER CO	709,705	0.130		
NH	ROCKINGHAM CO	245,845	0.130		
PA	PHILADELPHIA CO	1,585,577	0.13		
AZ	MARICOPA CO	2,122,101	0.129		
ME	YORK CO	164,587	0.129		
MI	MACOMB CO	717,400	0.129		
MI	ST CLAIR CO	145,607	0.129		
MO	ST LOUIS CO	993,529	0.129		
NJ	HUDSON CO	553,099	0.129		
TX	COLLIN CO	264,036	0.129		
CT	LITCHFIELD CO	174,092	0.128		
MO	CLAY CO	153,411	0.128		
OH	WARREN CO	113,909	0.128		
TN	SHELBY CO	826,330	0.128		
VA	FAIRFAX CO	818,584	0.128		
WI	MILWAUKEE CO	959,275	0.128		
AL	JEFFERSON CO	651,525	0.127		
LA	LAFOURCHE PAR	85,860	0.127		
NJ	GLOUCESTER CO	230,082	0.127		
NY	PUTNAM CO	83,941	0.127		
VA	ARLINGTON CO	170,936	0.127		
WI	KENOSHA CO	128,181	0.127		
CA	SANTA BARBARA CO	369,608	0.126		
LA	ASCENSION PAR	58,214	0.126		
NY	WESTCHESTER CO	874,866	0.126		
PA	DELAWARE CO	547,651	0.126		
WI	MANITOWOC CO	80,421	0.126		
AL	SHELBY CO	99,358	0.125		
CA	MERCED CO	178,403	0.125		
IL	MADISON CO	249,238	0.125		
LA	IBERVILLE PAR	31,049	0.125		
MA	MIDDLESEX CO	1,398,468	0.125		
MI	MASON CO	25,537	0.125		
MO	JEFFERSON CO	171,380	0.125		
NY	QUEENS CO	1,951,598	0.125		
NY	RICHMOND CO	378,977	0.125	Population	Counties

Current Std

PA	MONTGOMERY CO	678,111	0.125	74,469,913	104
CA	EL DORADO CO	125,995	0.124		
CA	SAN JOAQUIN CO	480,628	0.124		
MA	BARNSTABLE CO	186,605	0.124		
MI	WAYNE CO	2,111,687	0.124		
NJ	MORRIS CO	421,353	0.124		
OH	BUTLER CO	291,479	0.124		
OH	WASHINGTON CO	62,254	0.124		
TN	BLOUNT CO	85,969	0.124		
TN	SUMNER CO	103,281	0.124		
VA	CHESTERFIELD CO	209,274	0.124		
GA	WINNETT CO	352,910	0.123		
KY	BOYD CO	51,150	0.123		
KY	JEFFERSON CO	664,937	0.123		
LA	CALCASIEU PAR	168,134	0.123		
ME	KNOX CO	36,310	0.123		
PA	WESTMORELAND CO	370,321	0.123		
MA	BRISTOL CO	506,325	0.122		
MD	CHARLES CO	101,154	0.122		
MD	KENT CO	17,842	0.122		
ME	CUMBERLAND CO	243,135	0.122		
NJ	UNION CO	493,819	0.122		
OH	CLARK CO	147,548	0.122		
TX	NUECES CO	291,145	0.122		
VA	SUFFOLK	52,141	0.122		
WV	CABELL CO	96,827	0.122		
CA	CALAVERAS CO	31,998	0.121		
KY	GREENUP CO	36,742	0.121		
MD	CARROLL CO	123,372	0.121		
MD	MONTGOMERY CO	757,027	0.121		
NJ	BERGEN CO	825,380	0.121		
NJ	CUMBERLAND CO	138,053	0.121		
OK	TULSA CO	503,341	0.121		
VA	CHARLES CITY CO	6,282	0.121		
VA	HAMPTON	133,793	0.121		
VA	HANOVER CO	63,306	0.121		
WI	DOOR CO	25,690	0.121	Population	Counties
WV	WOOD CO	86,915	0.121	84,874,035	143
IL	JERSEY CO	20,539	0.120		
MA	ESSEX CO	670,080	0.120		
MI	OAKLAND CO	1,083,592	0.120		
NY	BRONX CO	1,203,789	0.120		
TX	ORANGE CO	80,509	0.12		
VA	ALEXANDRIA	111,183	0.12		
WI	KEWAUNEE CO	18,878	0.12		
CA	AMADOR CO	30,039	0.119		
LA	ST JAMES PAR	20,879	0.119		
MI	HURON CO	34,951	0.119		
NC	MECKLENBURG CO	511,433	0.119		
NY	DUTCHESS CO	259,462	0.119		
OH	LUCAS CO	462,361	0.119		
TN	JEFFERSON CO	33,016	0.119		
TN	KNOX CO	335,749	0.119		
TX	BEXAR CO	1,185,394	0.119		
VA	HENRICO CO	217,881	0.119		
WI	SHEBOYGAN CO	103,877	0.119		

Current Std

AR	CRITTENDEN CO	49,939	0.118		
IN	PORTER CO	128,932	0.118		
NJ	HUNTERDON CO	107,776	0.118		
OH	LAKE CO	215,499	0.118		
PA	DAUPHIN CO	237,813	0.118		
PA	LANCASTER CO	422,822	0.118		
FL	DUVAL CO	672,971	0.117		
FL	ESCAMBIA CO	262,798	0.117		
IL	KANE CO	317,471	0.117		
IL	ST CLAIR CO	262,852	0.117		
IN	HANCOCK CO	45,527	0.117		
KY	KENTON CO	142,031	0.117		
LA	LIVINGSTON PAR	70,526	0.117		
LA	ST BERNARD PAR	66,631	0.117		
OH	CLERMONT CO	150,187	0.117		
OH	LAWRENCE CO	61,834	0.117		
OH	MEDINA CO	122,354	0.117		
SC	YORK CO	131,497	0.117		
AL	CLAY CO	13,252	0.116		
KY	HARDIN CO	89,240	0.116		
MI	OTTAWA CO	187,768	0.116		
NC	ROWAN CO	110,605	0.116		
OH	MONTGOMERY CO	573,809	0.116		
PA	NORTHAMPTON CO	247,105	0.116		
IN	FLOYD CO	64,404	0.115		
IN	MADISON CO	130,669	0.115		
KY	CAMPBELL CO	83,866	0.115		
KY	LAWRENCE CO	13,998	0.115		
MI	BERRIEN CO	161,378	0.115		
NH	HILLSBOROUGH CO	336,073	0.115		
NJ	ATLANTIC CO	224,327	0.115		
NY	ORANGE CO	307,647	0.115		
OH	CLINTON CO	35,415	0.115		
PA	WASHINGTON CO	204,584	0.115		
PA	YORK CO	339,574	0.115		
SC	ANDERSON CO	145,196	0.115		
TN	SULLIVAN CO	143,596	0.115		
AL	MONTGOMERY CO	209,085	0.114		
IN	VANDEBURGH CO	165,058	0.114		
KY	HANCOCK CO	7,864	0.114		
LA	ST CHARLES PAR	42,437	0.114		
LA	ST JOHN THE BAPTIST P	AR 39,996	0.114		
MI	KENT CO	500,631	0.114		
NC	FRANKLIN CO	36,414	0.114		
NC	GUILFORD CO	347,420	0.114		
OH	HAMILTON CO	866,228	0.114		
OH	JEFFERSON CO	80,298	0.114		
PA	BERKS CO	336,523	0.114		
TN	HAMILTON CO	285,536	0.114		
TN	MADISON CO	77,982	0.114		
CA	MARIPOSA CO	14,302	0.113		
GA	RICHMOND CO	189,719	0.113		
IL	LAKE CO	516,418	0.113		
IN	LAKE CO	475,594	0.113		
IN	MARION CO	797,159	0.113		
KY	EDMONSON CO	10,357	0.113		

Current Std

MO	ST LOUIS	396,685	0.113		
MS	HANCOCK CO	31,760	0.113		
NC	CASWELL CO	20,693	0.113		
NC	WAKE CO	423,380	0.113		
NJ	ESSEX CO	778,206	0.113		
OH	CUYAHOGA CO	1,412,140	0.113		
OH	MADISON CO	37,068	0.113		
TN	ANDERSON CO	68,250	0.113		
TN	SEVIER CO	51,043	0.113		
UT	SALT LAKE CO	725,956	0.113		
WI	RACINE CO	175,034	0.113		
CA	SUTTER CO	64,415	0.112		
CO	JEFFERSON CO	438,430	0.112		
GA	MUSCOGEE CO	179,278	0.112		
IL	WILL CO	357,313	0.112		
IN	ALLEN CO	300,836	0.112		
IN	HAMILTON CO	108,936	0.112		
KY	BULLITT CO	47,567	0.112		
KY	OLDHAM CO	33,263	0.112		
LA	BOSSIER PAR	86,088	0.112		
MA	BERKSHIRE CO	139,352	0.112		
OH	KNOX CO	47,473	0.112		
OH	LOGAN CO	42,310	0.112		
OH	TRUMBULL CO	227,813	0.112		
SC	CHESTER CO	32,170	0.112		
SC	PICKENS CO	93,894	0.112		
SC	RICHLAND CO	285,720	0.112		
SC	SPARTANBURG CO	226,800	0.112		
TN	DYER CO	34,854	0.112		
VA	PRINCE WILLIAM CO	215,686	0.112		
AL	ELMORE CO	49,210	0.111		
DE	SUSSEX CO	113,229	0.111		
FL	DADE CO	1,937,094	0.111		
KY	BOONE CO	57,589	0.111		
KY	SCOTT CO	23,867	0.111		
LA	WEST BATON ROUGE PA	19,419	0.111		
MA	SUFFOLK CO	663,906	0.111		
NC	FORSYTH CO	265,878	0.111		
NC	GRANVILLE CO	38,345	0.111		
PA	MERCER CO	121,003	0.111		
TN	DICKSON CO	35,061	0.111		
TX	SMITH CO	151,309	0.111		
VA	STAFFORD CO	61,236	0.111		
CA	KINGS CO	101,469	0.110		
CA	MONO CO	9,956	0.110		
CA	NEVADA CO	78,510	0.110		
CA	SAN BENITO CO	36,697	0.110		
KY	MC LEAN CO	9,628	0.110		
LA	JEFFERSON PAR	448,306	0.110		
MI	CASS CO	49,477	0.110		
MO	PLATTE CO	57,867	0.110		
OH	SUMMIT CO	514,990	0.11		
OK	OKLAHOMA CO	599,611	0.11		
PA	LACKAWANNA CO	219,039	0.11		
TN	DAVIDSON CO	510,784	0.11		
UT	DAVIS CO	187,941	0.11		

Current Std

VA	FAUQUIER CO	48,741	0.11		
WV	KANAWHA CO	207,619	0.11		
CA	SOLANO CO	340,421	0.109		
KY	LIVINGSTON CO	9,062	0.109		
LA	BEAUREGARD PAR	30,083	0.109		
LA	LAFAYETTE PAR	164,762	0.109		
MS	DE SOTO CO	67,910	0.109		
NY	ALBANY CO	292,594	0.109		
OH	STARK CO	367,585	0.109		
PA	LEHIGH CO	291,130	0.109		
WA	KING CO	1,507,319	0.109		
WI	BROWN CO	194,594	0.109		
IL	MC HENRY CO	183,241	0.108		
IN	ST JOSEPH CO	247,052	0.108		
KY	FAYETTE CO	225,366	0.108		
KY	HENDERSON CO	43,044	0.108		
MA	PLYMOUTH CO	435,276	0.108		
MI	BENZIE CO	12,200	0.108		
NC	LINCOLN CO	50,319	0.108		
NC	YANCEY CO	15,419	0.108		
NY	JEFFERSON CO	110,943	0.108		
OH	PORTAGE CO	142,585	0.108		
PA	PERRY CO	41,172	0.108		
WA	CLARK CO	238,053	0.108		
WI	ROCK CO	139,510	0.108		
AL	MADISON CO	238,912	0.107		
KS	WYANDOTTE CO	161,993	0.107		
KY	DAVISS CO	87,189	0.107		
OH	ASHTABULA CO	99,821	0.107		
OH	FRANKLIN CO	961,437	0.107		
OH	MAHONING CO	264,806	0.107		
PA	BEAVER CO	186,093	0.107		
PA	ERIE CO	275,572	0.107		
PA	LUZERNE CO	328,149	0.107		
FL	HILLSBOROUGH CO	834,054	0.106		
LA	POINTE COUPEE PAR	22,540	0.106		
NC	CUMBERLAND CO	274,566	0.106		
OH	LICKING CO	128,300	0.106		
PA	BLAIR CO	130,542	0.106		
SC	CHARLESTON CO	295,039	0.106		
SC	CHEROKEE CO	44,506	0.106		
CA	NAPA CO	110,765	0.105		
KY	CHRISTIAN CO	68,941	0.105		
ME	HANCOCK CO	46,948	0.105		
NC	ROCKINGHAM CO	86,064	0.105		
SC	BERKELEY CO	128,776	0.105		
TN	COFFEE CO	40,339	0.105		
TN	HAMBLIN CO	50,480	0.105		
TN	WILSON CO	67,675	0.105		
TX	TRAVIS CO	576,407	0.105		
WI	OUTAGAMIE CO	140,510	0.105		
AL	MOBILE CO	378,643	0.104		
AR	PULASKI CO	349,660	0.104		
AZ	PIMA CO	666,880	0.104		
IL	DU PAGE CO	781,666	0.104		
IL	SANGAMON CO	178,386	0.104		

Current Std

IN	TIPPECANOE CO	130,598	0.104		
IN	VIGO CO	106,107	0.104		
ME	PENOBSCOT CO	146,601	0.104		
ME	WASHINGTON CO	35,308	0.104		
MI	WASHTENAW CO	282,937	0.104		
NC	JOHNSTON CO	81,306	0.104		
NC	NEW HANOVER CO	120,284	0.104		
NY	CHAUTAUQUA CO	141,895	0.104		
OH	ALLEN CO	109,755	0.104		
PA	LAWRENCE CO	96,246	0.104		
TN	HAYWOOD CO	19,437	0.104		
TN	WILLIAMSON CO	81,021	0.104		
WV	GREENBRIER CO	34,693	0.104		
WV	OHIO CO	50,871	0.104		
CA	SAN MATEO CO	649,623	0.103		
CA	TUOLUMNE CO	48,456	0.103		
CA	YOLO CO	141,092	0.103		
FL	BROWARD CO	1,255,488	0.103		
IL	MACOUPIN CO	47,679	0.103		
KY	JESSAMINE CO	30,508	0.103		
KY	MC CRACKEN CO	62,879	0.103		
LA	ST MARY PAR	58,086	0.103		
MN	WASHINGTON CO	145,896	0.103		
NC	DURHAM CO	181,835	0.103		
NC	PITT CO	107,924	0.103		
NY	MONROE CO	713,968	0.103		
NY	ONONDAGA CO	468,973	0.103		
NY	ULSTER CO	165,304	0.103		
OR	CLACKAMAS CO	278,850	0.103		
VA	CAROLINE CO	19,217	0.103		
WA	PIERCE CO	586,203	0.103		
WV	HANCOCK CO	35,233	0.103		
AL	COLBERT CO	51,666	0.102		
IL	RANDOLPH CO	34,583	0.102		
KY	PIKE CO	72,583	0.102		
LA	CADDO PAR	248,253	0.102		
MI	KALAMAZOO CO	223,411	0.102		
MN	ANOKA CO	243,641	0.102		
NC	CHATHAM CO	38,759	0.102		
NY	NIAGARA CO	220,756	0.102		
NY	WAYNE CO	89,123	0.102		
OH	MIAMI CO	93,182	0.102		
TX	VICTORIA CO	74,361	0.102		
UT	WEBER CO	158,330	0.102		
VA	FREDERICK CO	45,723	0.102		
VA	ROANOKE CO	79,332	0.102		
WI	SAUK CO	46,975	0.102		
WI	WAUKESHA CO	304,715	0.102		
CA	COLUSA CO	16,275	0.101		
CA	SAN LUIS OBISPO CO	217,162	0.101		
FL	ORANGE CO	677,491	0.101		
IL	WINNEBAGO CO	252,913	0.101		
NC	DAVIE CO	27,859	0.101		
NC	NORTHAMPTON CO	20,798	0.101		
NY	ESSEX CO	37,152	0.101		
OH	TUSCARAWAS CO	84,090	0.101		

Current Std

TN	MAURY CO	54,812	0.101		
VT	BENNINGTON CO	35,845	0.101		
WI	COLUMBIA CO	45,088	0.101		
CA	TEHAMA CO	49,625	0.100		
FL	POLK CO	405,382	0.100		
IN	ELKHART CO	156,198	0.100		
IN	KOSCIUSKO CO	65,294	0.100		
NV	CLARK CO	741,459	0.100		
OH	PREBLE CO	40,113	0.1		
PA	CAMBRIA CO	163,029	0.1		
SC	DARLINGTON CO	61,851	0.1		
VA	HENRY CO	56,942	0.1		
CA	GLENN CO	24,798	0.099		
CO	ARAPAHOE CO	391,511	0.099		
CO	LARIMER CO	186,136	0.099		
FL	PALM BEACH CO	863,518	0.099		
FL	SARASOTA CO	277,776	0.099		
FL	ST JOHNS CO	83,829	0.099		
KY	PULASKI CO	49,489	0.099		
LA	ORLEANS PAR	496,938	0.099		
MI	INGHAM CO	281,912	0.099		
MI	LENAWEE CO	91,476	0.099		
MO	GREENE CO	207,949	0.099		
MS	ADAMS CO	35,356	0.099		
NY	MADISON CO	69,120	0.099		
OH	LORAIN CO	271,126	0.099		
SC	UNION CO	30,337	0.099		
WI	WALWORTH CO	75,000	0.099		
WI	WASHINGTON CO	95,328	0.099		
CA	INYO CO	18,281	0.098		
CO	DOUGLAS CO	60,391	0.098		
FL	SEMINOLE CO	287,529	0.098		
GA	FANNIN CO	15,992	0.098		
LA	OUACHITA PAR	142,191	0.098		
ME	KENNEBEC CO	115,904	0.098		
MI	CLINTON CO	57,883	0.098		
NC	BURKE CO	75,744	0.098		
NM	BERNALILLO CO	480,577	0.098		
NY	SARATOGA CO	181,276	0.098		
WI	JEFFERSON CO	67,783	0.098		
CA	BUTTE CO	182,120	0.097		
KY	SIMPSON CO	15,145	0.097		
MI	GENESEE CO	430,459	0.097		
SC	AIKEN CO	120,940	0.097		
SC	EDGEFIELD CO	18,375	0.097		
TN	BRADLEY CO	73,712	0.097		
VA	WYTHE CO	25,466	0.097		
MS	SHARKEY CO	7,066	0.096		
VA	WARREN CO	26,142	0.096		
WI	WINNEBAGO CO	140,320	0.096		
AL	LAWRENCE CO	31,513	0.095		
CO	BOULDER CO	225,339	0.095		
FL	OSCEOLA CO	107,728	0.095		
IA	SCOTT CO	150,979	0.095		
IL	EFFINGHAM CO	31,704	0.095		
IL	MACON CO	117,206	0.095		

Current Std

IL	PEORIA CO	182,827	0.095		
LA	GRANT PAR	17,526	0.095		
MS	JACKSON CO	115,243	0.095		
NC	CALDWELL CO	70,709	0.095		
NC	CAMDEN CO	5,904	0.095		
NC	HAYWOOD CO	46,942	0.095		
NY	HAMILTON CO	5,279	0.095		
NY	ONEIDA CO	250,836	0.095		
NY	SCHENECTADY CO	149,285	0.095		
OK	CLEVELAND CO	174,253	0.095		
TN	RUTHERFORD CO	118,570	0.095		
UT	UTAH CO	263,590	0.095		
VA	AUGUSTA CO	54,677	0.095		
WI	DANE CO	367,085	0.095		
CA	SANTA CRUZ CO	229,734	0.094		
FL	MANATEE CO	211,707	0.094		
IL	CHAMPAIGN CO	173,025	0.094		
MO	MONROE CO	9,104	0.094		
MS	LEE CO	65,581	0.094		
NC	DUPLIN CO	39,995	0.094		
NC	PERSON CO	30,180	0.094		
NM	SANDOVAL CO	63,319	0.094		
OK	MC CLAIN CO	22,795	0.094		
VA	MADISON CO	11,949	0.094		
CO	DENVER CO	467,610	0.093		
FL	VOLUSIA CO	370,712	0.093		
KY	GRAVES CO	33,550	0.093		
ME	OXFORD CO	52,602	0.093		
ME	SOMERSET CO	49,767	0.093		
MS	FRANKLIN CO	8,377	0.093		
SC	ABBEVILLE CO	23,862	0.093		
SC	BARNWELL CO	20,293	0.093		
SC	OCONEE CO	57,494	0.093		
CO	WELD CO	131,821	0.092		
FL	PASCO CO	281,131	0.092		
FL	PINELLAS CO	851,659	0.092		
KY	BELL CO	31,506	0.092		
NC	ALEXANDER CO	27,544	0.092		
NH	CHESHIRE CO	70,121	0.092		
OK	COMANCHE CO	111,486	0.092		
SC	WILLIAMSBURG CO	36,815	0.092		
VT	CHITTENDEN CO	131,761	0.092		
MN	DAKOTA CO	275,227	0.091		
MS	WARREN CO	47,880	0.091		
NY	ERIE CO	968,532	0.091		
CA	MONTEREY CO	355,660	0.090		
CA	SHASTA CO	147,036	0.090		
CA	SONOMA CO	388,222	0.090		
KS	SEDGWICK CO	403,662	0.090		
NV	WASHOE CO	254,667	0.090		
OR	JACKSON CO	146,389	0.09		
WI	FOND DU LAC CO	90,083	0.09		
CO	ADAMS CO	265,038	0.089		
FL	LEE CO	335,113	0.089		
GA	CHATHAM CO	216,935	0.089		
IA	POLK CO	327,140	0.089		

Current Std

MO	JACKSON CO	633,232	0.089		
MS	MADISON CO	53,794	0.089		
NC	MARTIN CO	25,078	0.089		
NH	SULLIVAN CO	38,592	0.089		
OR	COLUMBIA CO	37,557	0.089		
KY	PERRY CO	30,283	0.088		
NY	CHEMUNG CO	95,195	0.088		
PA	LYCOMING CO	118,710	0.088		
WI	DODGE CO	76,559	0.088		
MS	HINDS CO	254,441	0.087		
OR	LANE CO	282,912	0.087		
WI	ST CROIX CO	50,251	0.087		
MS	LAUDERDALE CO	75,555	0.086		
NH	MERRIMACK CO	120,005	0.086		
NY	HERKIMER CO	65,797	0.086		
AL	SUMTER CO	16,174	0.085		
FL	BREVARD CO	398,978	0.085		
IL	ROCK ISLAND CO	148,723	0.085		
NC	BUNCOMBE CO	174,821	0.085		
TX	CAMERON CO	260,120	0.085		
WI	POLK CO	34,773	0.085		
IL	ADAMS CO	66,090	0.084		
ME	PISCATAQUIS CO	18,653	0.084		
NE	DOUGLAS CO	416,444	0.084		
WA	SPOKANE CO	361,364	0.084		
WI	MARATHON CO	115,400	0.084		
WI	VERNON CO	25,617	0.083		
AL	GENEVA CO	23,647	0.082		
CA	MARIN CO	230,096	0.082		
IA	VAN BUREN CO	7,676	0.082		
NV	DOUGLAS CO	27,637	0.081		
WA	SNOHOMISH CO	465,642	0.081		
WA	WHATCOM CO	127,780	0.081		
AR	MONTGOMERY CO	7,841	0.080		
AR	NEWTON CO	7,666	0.080		
CA	LAKE CO	50,631	0.080		
CA	MENDOCINO CO	80,345	0.080		
CA	SAN FRANCISCO CO	723,959	0.080		
KS	SHERMAN CO	6,926	0.080		
CO	EL PASO CO	397,014	0.079		
TX	BREWSTER CO	8,681	0.079		
MN	LAKE CO	10,415	0.078		
WI	FLORENCE CO	4,590	0.078		
NC	SWAIN CO	11,268	0.077		
NM	VALENCIA CO	45,235	0.076		
WI	ONEIDA CO	31,679	0.076		
MN	KOOCHICHING CO	16,299	0.075		
NE	LANCASTER CO	213,641	0.075		
NV	WHITE PINE CO	9,264	0.075		
IA	LINN CO	168,767	0.074		
AZ	COCONINO CO	96,591	0.073		
UT	SAN JUAN CO	12,621	0.073		
CA	SISKIYOU CO	43,531	0.070		
ID	BUTTE CO	2,918	0.070		
CO	MONTEZUMA CO	18,672	0.069		
WY	TETON CO	11,172	0.069		

Current Std

ND	STEELE CO	2,420	0.067		
ND	MC KENZIE CO	6,383	0.064		
WA	CLALLAM CO	56,464	0.062		
ND	MERCER CO	9,808	0.061		
ND	OLIVER CO	2,381	0.061		
CA	DEL NORTE CO	23,460	0.060		
AK	YUKON-KOYUKUK CA	8,478	0.058		
HI	HONOLULU CO	836,231	0.056		

5th High

1993-95	COUNTY DESIGN VALUES	FOR PRIMARY			
		1990	AVG 8H MX5		
STATE	COUNTY	POPULATION	1993-95		
CA	SAN BERNARDINO CO	13,252	0.164		
CA	LOS ANGELES CO	51,666	0.153		
CA	RIVERSIDE CO	49,210	0.145		
CA	KERN CO	23,647	0.119		
CA	VENTURA CO	651,525	0.116		
TX	HARRIS CO	2,818,199	0.112		
MD	BALTIMORE	31,513	0.111		
CA	TULARE CO	238,912	0.109		
TX	GALVESTON CO	217,399	0.109		
CA	FRESNO CO	378,643	0.108		
CA	SAN DIEGO CO	209,085	0.108		
NJ	MIDDLESEX CO	99,358	0.107		
CA	SACRAMENTO CO	16,174	0.105		
NJ	OCEAN CO	8,478	0.105		
CA	IMPERIAL CO	96,591	0.104		
CA	PLACER CO	2,122,101	0.104		
CT	NEW HAVEN CO	666,880	0.104		
GA	FULTON CO	49,939	0.104		
GA	ROCKDALE CO	7,841	0.104		
MD	ANNE ARUNDEL CO	7,666	0.104		
MD	HARFORD CO	349,660	0.104		
NJ	MERCER CO	1,279,182	0.104		
CT	FAIRFIELD CO	30,039	0.103		
DE	NEW CASTLE CO	182,120	0.103		
CA	ORANGE CO	31,998	0.102		
MD	CECIL CO	16,275	0.102		
CT	MIDDLESEX CO	803,732	0.101		
GA	DE KALB CO	23,460	0.101		
NJ	CAMDEN CO	125,995	0.101		
TX	TARRANT CO	1,170,103	0.101		
IN	CLARK CO	667,490	0.100		
NJ	GLOUCESTER CO	24,798	0.100		
PA	ALLEGHENY CO	1,336,449	0.100		
TX	DENTON CO	273,525	0.100		
NJ	HUDSON CO	109,303	0.099		
PA	PHILADELPHIA CO	1,585,577	0.099		
WI	OZAUKEE CO	72,831	0.099		
CA	EL DORADO CO	18,281	0.098		
CA	MERCED CO	543,477	0.098		
OH	WARREN CO	113,909	0.098		
PA	BUCKS CO	541,174	0.098		
GA	GWINNETT CO	101,469	0.097		
MD	BALTIMORE CO	50,631	0.097		
MO	ST CHARLES CO	8,863,164	0.097		
NJ	MORRIS CO	88,090	0.097		
TN	SUMNER CO	103,281	0.097		
MD	PRINCE GEORGES CO	230,096	0.096		
NJ	HUNTERDON CO	14,302	0.096		
OH	WASHINGTON CO	62,254	0.096		

5th High

TX	COLLIN CO	264,036	0.096		
TX	DALLAS CO	1,852,810	0.096		
VA	ARLINGTON CO	170,936	0.096		
VA	FAIRFAX CO	818,584	0.096		
WI	KENOSHA CO	128,181	0.096		
CA	CALAVERAS CO	80,345	0.095		
CT	NEW LONDON CO	178,403	0.095		
GA	DOUGLAS CO	9,956	0.095		
IL	COOK CO	355,660	0.095		
MD	CARROLL CO	110,765	0.095		
NJ	MONMOUTH CO	78,510	0.095		
NY	SUFFOLK CO	2,410,556	0.095		
OH	LAKE CO	172,796	0.095		
PA	LANCASTER CO	422,822	0.095	Population	Counties
TX	BRAZORIA CO	191,707	0.095	33,816,811	64
AL	SHELBY CO	1,170,413	0.094		
CA	STANISLAUS CO	1,041,219	0.094		
CT	HARTFORD CO	36,697	0.094		
DC	WASHINGTON	1,418,380	0.094		
IN	FLOYD CO	2,498,016	0.094		
IN	LA PORTE CO	723,959	0.094		
NY	BRONX CO	480,628	0.094		
NY	RICHMOND CO	217,162	0.094		
PA	DELAWARE CO	547,651	0.094		
PA	MONTGOMERY CO	678,111	0.094		
TN	BLOUNT CO	85,969	0.094		
TN	JEFFERSON CO	33,016	0.094		
TX	SMITH CO	151,309	0.094		
CT	LITCHFIELD CO	649,623	0.093		
CT	TOLLAND CO	369,608	0.093		
IN	HAMILTON CO	1,497,577	0.093		
IN	VANDERBURGH CO	229,734	0.093		
MA	WORCESTER CO	147,036	0.093		
MD	KENT CO	43,531	0.093		
MI	MASON CO	340,421	0.093		
OH	CLINTON CO	388,222	0.093		
PA	WASHINGTON CO	204,584	0.093		
RI	KENT CO	161,135	0.093		
TX	JEFFERSON CO	239,397	0.093		
VA	HANOVER CO	63,306	0.093		
WI	MANITOWOC CO	80,421	0.093		
WV	CABELL CO	96,827	0.093		
CA	MADERA CO	370,522	0.092		
IN	WARRICK CO	64,415	0.092		
MA	HAMPDEN CO	49,625	0.092		
MD	MONTGOMERY CO	311,921	0.092		
ME	YORK CO	48,456	0.092		
MI	ALLEGAN CO	669,016	0.092		
MI	MUSKEGON CO	141,092	0.092		
NC	ROWAN CO	265,038	0.092		
NJ	CUMBERLAND CO	391,511	0.092		
OH	BUTLER CO	225,339	0.092		
WI	MILWAUKEE CO	959,275	0.092		
CA	AMADOR CO	467,610	0.091		
CA	MARIPOSA CO	60,391	0.091		

5th High

CA	SANTA CLARA CO	397,014	0.091		
IN	MADISON CO	438,430	0.091		
IN	MARION CO	186,136	0.091		
KY	HARDIN CO	18,672	0.091		
KY	JEFFERSON CO	131,821	0.091		
KY	KENTON CO	827,645	0.091		
LA	IBERVILLE PAR	851,783	0.091		
MA	HAMPSHIRE CO	174,092	0.091		
MD	CHARLES CO	143,196	0.091		
MO	JEFFERSON CO	804,219	0.091		
NC	MECKLENBURG CO	254,957	0.091		
NJ	ATLANTIC CO	128,699	0.091		
NY	DUTCHESS CO	110,993	0.091		
NY	ORANGE CO	441,946	0.091		
NY	PUTNAM CO	113,229	0.091		
NY	WESTCHESTER CO	606,900	0.091		
OH	CLARK CO	398,978	0.091		
OH	CLERMONT CO	1,255,488	0.091		
OH	MONTGOMERY CO	573,809	0.091		
PA	WESTMORELAND CO	370,321	0.091		
TN	SULLIVAN CO	143,596	0.091	Population	Counties
WV	WOOD CO	86,915	0.091	59,893,813	126
CA	NEVADA CO	1,937,094	0.090		
DE	KENT CO	672,971	0.090		
MA	BRISTOL CO	262,798	0.090		
MI	MACOMB CO	834,054	0.090		
MI	ST CLAIR CO	335,113	0.090		
OH	HAMILTON CO	211,707	0.090		
OH	LUCAS CO	677,491	0.090		
OH	MEDINA CO	107,728	0.090		
OH	SUMMIT CO	514,990	0.090		
OH	TRUMBULL CO	227,813	0.090		
PA	DAUPHIN CO	237,813	0.090		
PA	NORTHAMPTON CO	247,105	0.090		
RI	PROVIDENCE CO	596,270	0.090		
TN	HAMILTON CO	285,536	0.090		
TN	MADISON CO	77,982	0.090		
TN	SHELBY CO	826,330	0.090		
VA	ALEXANDRIA	111,183	0.090		
VA	CHESTERFIELD CO	209,274	0.090		
AZ	MARICOPA CO	863,518	0.089		
IL	LAKE CO	281,131	0.089		
IN	ALLEN CO	851,659	0.089		
IN	HANCOCK CO	405,382	0.089		
MA	BARNSTABLE CO	83,829	0.089		
MA	MIDDLESEX CO	277,776	0.089		
MI	CASS CO	287,529	0.089		
MO	CLAY CO	370,712	0.089		
MO	ST LOUIS CO	216,935	0.089		
NY	KINGS CO	545,837	0.089		
OH	MADISON CO	71,120	0.089		
PA	LUZERNE CO	328,149	0.089		
TN	ANDERSON CO	68,250	0.089		
TN	KNOX CO	335,749	0.089		
CA	SANTA BARBARA CO	15,992	0.088		
DE	SUSSEX CO	648,951	0.088		

5th High

KY	HANCOCK CO	352,910	0.088		
LA	EAST BATON ROUGE PAR	179,278	0.088		
ME	CUMBERLAND CO	189,719	0.088		
ME	SAGadahoc CO	54,091	0.088		
NC	GRANVILLE CO	836,231	0.088		
NC	JOHNSTON CO	2,918	0.088		
NC	LINCOLN CO	66,090	0.088		
NH	ROCKINGHAM CO	173,025	0.088		
OH	PORTAGE CO	142,585	0.088		
OH	STARK CO	367,585	0.088		
PA	BLAIR CO	130,542	0.088		
TN	WILLIAMSON CO	81,021	0.088		
VA	CHARLES CITY CO	6,282	0.088		
VA	HENRICO CO	217,881	0.088		
VA	PRINCE WILLIAM CO	215,686	0.088		
CA	TUOLUMNE CO	5,105,067	0.087		
KY	BOYD CO	781,666	0.087		
KY	CAMPBELL CO	31,704	0.087		
KY	MC LEAN CO	20,539	0.087		
KY	OLDHAM CO	317,471	0.087		
LA	ASCENSION PAR	516,418	0.087		
MI	BERRIEN CO	183,241	0.087		
NC	WAKE CO	117,206	0.087		
NJ	UNION CO	47,679	0.087		
OH	ALLEN CO	249,238	0.087		
OH	KNOX CO	182,827	0.087		
OH	LOGAN CO	34,583	0.087		
PA	BEAVER CO	186,093	0.087		
PA	BERKS CO	336,523	0.087		
PA	LACKAWANNA CO	219,039	0.087		
SC	YORK CO	131,497	0.087		
TN	SEVIER CO	51,043	0.087		
VA	HAMPTON	133,793	0.087		
WI	KEWAUNEE CO	18,878	0.087		
AL	JEFFERSON CO	148,723	0.086		
CA	KINGS CO	262,852	0.086		
GA	RICHMOND CO	178,386	0.086		
IL	MADISON CO	357,313	0.086		
KY	FAYETTE CO	252,913	0.086		
KY	LIVINGSTON CO	300,836	0.086		
KY	SCOTT CO	87,777	0.086		
LA	LAFOURCHE PAR	156,198	0.086		
ME	KNOX CO	64,404	0.086		
MI	BENZIE CO	108,936	0.086		
NC	FORSYTH CO	45,527	0.086		
NC	FRANKLIN CO	65,294	0.086		
NC	GUILFORD CO	475,594	0.086		
NC	HAYWOOD CO	107,066	0.086		
NJ	BERGEN CO	130,669	0.086		
NY	ESSEX CO	797,159	0.086		
NY	QUEENS CO	128,932	0.086		
OH	FRANKLIN CO	247,052	0.086		
OH	LICKING CO	130,598	0.086		
OH	MAHONING CO	165,058	0.086		
OK	TULSA CO	503,341	0.086		

5th High

PA	MERCER CO	121,003	0.086		
PA	PERRY CO	41,172	0.086		
PA	YORK CO	339,574	0.086		
TX	BEXAR CO	1,185,394	0.086		
TX	GREGG CO	104,948	0.086		
VA	SUFFOLK	52,141	0.086		
WI	RACINE CO	175,034	0.086		
AR	CRITTENDEN CO	106,107	0.085		
CA	SAN JOAQUIN CO	44,920	0.085		
IN	KOSCIUSKO CO	168,767	0.085		
IN	ST JOSEPH CO	327,140	0.085		
IN	TIPPECANOE CO	150,979	0.085		
KY	CHRISTIAN CO	7,676	0.085		
KY	DAVIESS CO	403,662	0.085		
KY	GREENUP CO	6,926	0.085		
KY	HENDERSON CO	161,993	0.085		
LA	LAFAYETTE PAR	31,506	0.085		
LA	LIVINGSTON PAR	57,589	0.085		
MA	ESSEX CO	51,150	0.085		
MI	KENT CO	47,567	0.085		
MI	WAYNE CO	83,866	0.085		
NC	YANCEY CO	68,941	0.085		
NH	HILLSBOROUGH CO	87,189	0.085		
NJ	ESSEX CO	10,357	0.085		
NY	JEFFERSON CO	225,366	0.085		
OH	ASHTABULA CO	33,550	0.085		
OH	CUYAHOGA CO	36,742	0.085		
OH	JEFFERSON CO	7,864	0.085		
OH	LAWRENCE CO	89,240	0.085		
PA	ERIE CO	275,572	0.085		
SC	ANDERSON CO	145,196	0.085		
SC	RICHLAND CO	285,720	0.085		
VA	STAFFORD CO	61,236	0.085		
WI	DOOR CO	25,690	0.085	Population	Counties
WI	SHEBOYGAN CO	103,877	0.085	95,440,215	250
CA	SUTTER CO	43,044	0.084		
CA	TEHAMA CO	664,937	0.084		
FL	ESCAMBIA CO	30,508	0.084		
IN	PORTER CO	142,031	0.084		
KY	BULLITT CO	13,998	0.084		
KY	PIKE CO	9,062	0.084		
MI	LENAWEE CO	62,879	0.084		
MI	OTTAWA CO	9,628	0.084		
MS	HANCOCK CO	33,263	0.084		
NC	CHATHAM CO	30,283	0.084		
NC	CUMBERLAND CO	72,583	0.084		
NC	DURHAM CO	49,489	0.084		
NY	WAYNE CO	23,867	0.084		
OK	OKLAHOMA CO	599,611	0.084		
PA	CAMBRIA CO	163,029	0.084		
PA	LEHIGH CO	291,130	0.084		
TX	ORANGE CO	80,509	0.084		
UT	SALT LAKE CO	725,956	0.084		
VA	CAROLINE CO	19,217	0.084		
AL	CLAY CO	15,145	0.083		

5th High

AL	ELMORE CO	58,214	0.083		
IL	JERSEY CO	30,083	0.083		
IN	VIGO CO	86,088	0.083		
KY	LAWRENCE CO	248,253	0.083		
LA	BOSSIER PAR	168,134	0.083		
LA	ST CHARLES PAR	380,105	0.083		
LA	ST JOHN THE BAPTIST P	17,526	0.083		
MI	KALAMAZOO CO	31,049	0.083		
NY	ALBANY CO	448,306	0.083		
NY	NIAGARA CO	164,762	0.083		
NY	ULSTER CO	85,860	0.083		
OH	PREBLE CO	40,113	0.083		
SC	CHESTER CO	32,170	0.083		
SC	SPARTANBURG CO	226,800	0.083		
TN	DICKSON CO	35,061	0.083		
TN	DYER CO	34,854	0.083		
TX	NUECES CO	291,145	0.083		
TX	TRAVIS CO	576,407	0.083		
WV	GREENBRIER CO	34,693	0.083		
AL	MADISON CO	70,526	0.082		
CA	ALAMEDA CO	496,938	0.082		
IN	LAKE CO	142,191	0.082		
KY	BOONE CO	22,540	0.082		
KY	JESSAMINE CO	66,631	0.082		
LA	CALCASIEU PAR	42,437	0.082		
LA	POINTE COUPEE PAR	20,879	0.082		
LA	ST BERNARD PAR	AR 39,996	0.082		
MI	HURON CO	58,086	0.082		
NC	NEW HANOVER CO	19,419	0.082		
NC	PITT CO	243,135	0.082		
NY	CHAUTAUQUA CO	46,948	0.082		
OH	LORAIN CO	115,904	0.082		
SC	PICKENS CO	93,894	0.082		
TN	BRADLEY CO	73,712	0.082		
TN	DAVIDSON CO	510,784	0.082		
TN	HAYWOOD CO	19,437	0.082		
VA	FAUQUIER CO	48,741	0.082		
VA	FREDERICK CO	45,723	0.082		
VA	ROANOKE CO	79,332	0.082		
WI	OUTAGAMIE CO	140,510	0.082		
AL	COLBERT CO	36,310	0.081		
CA	COLUSA CO	52,602	0.081		
CA	INYO CO	146,601	0.081		
CO	JEFFERSON CO	18,653	0.081		
GA	MUSCOGEE CO	33,535	0.081		
IL	EFFINGHAM CO	49,767	0.081		
IL	WILL CO	35,308	0.081		
IN	ELKHART CO	164,587	0.081		
LA	GRANT PAR	427,239	0.081		
MI	OAKLAND CO	692,134	0.081		
MS	DE SOTO CO	123,372	0.081		
NC	CASWELL CO	71,347	0.081		
NC	NORTHAMPTON CO	101,154	0.081		
NC	ROCKINGHAM CO	182,132	0.081		
OH	TUSCARAWAS CO	84,090	0.081		
SC	CHEROKEE CO	44,506	0.081		

5th High

TN	HAMBLÉN CO	50,480	0.081		
TX	EL PASO CO	591,610	0.081		
VA	MADISON CO	11,949	0.081		
WV	HANCOCK CO	35,233	0.081	Pop	Counties
WV	OHIO CO	50,871	0.081	106,871,254	331
AR	PULASKI CO	17,842	0.080		
AZ	PIMA CO	757,027	0.080		
CA	CONTRA COSTA CO	729,268	0.080		
IL	KANE CO	736,014	0.080		
IL	MACOUPIN CO	186,605	0.080		
IL	SANGAMON CO	139,352	0.080		
LA	CADDO PAR	506,325	0.080		
LA	JEFFERSON PAR	670,080	0.080		
LA	ST JAMES PAR	456,310	0.080		
ME	HANCOCK CO	146,568	0.080		
MO	PLATTE CO	1,398,468	0.080		
MS	SHARKEY CO	435,276	0.080		
NC	CAMDEN CO	663,906	0.080		
NC	PERSON CO	709,705	0.080		
NM	DONA ANA CO	90,509	0.080		
NY	ONONDAGA CO	12,200	0.080		
TX	VICTORIA CO	74,361	0.080		
VA	HENRY CO	56,942	0.080		
VT	BENNINGTON CO	35,845	0.080		
WI	DODGE CO	76,559	0.080		
WI	WALWORTH CO	75,000	0.080		
AL	LAWRENCE CO	161,378	0.079		
AL	MONTGOMERY CO	49,477	0.079		
CA	GLENN CO	57,883	0.079		
CA	MONO CO	430,459	0.079		
FL	DADE CO	34,951	0.079		
FL	DUVAL CO	281,912	0.079		
FL	HILLSBOROUGH CO	223,411	0.079		
IL	MC HENRY CO	500,631	0.079		
KY	PULASKI CO	91,476	0.079		
MA	PLYMOUTH CO	717,400	0.079		
MO	ST LOUIS	25,537	0.079		
NY	MADISON CO	158,983	0.079		
NY	MONROE CO	1,083,592	0.079		
PA	LAWRENCE CO	96,246	0.079		
SC	BARNWELL CO	20,293	0.079		
VA	WYTHE CO	25,466	0.079		
WI	ROCK CO	139,510	0.079		
CA	BUTTE CO	187,768	0.078		
CA	SAN BENITO CO	145,607	0.078		
FL	ORANGE CO	282,937	0.078		
IL	RANDOLPH CO	2,111,687	0.078		
KY	SIMPSON CO	243,641	0.078		
LA	OUACHITA PAR	275,227	0.078		
MA	SUFFOLK CO	16,299	0.078		
MI	INGHAM CO	10,415	0.078		
MO	MONROE CO	145,896	0.078		
NC	CALDWELL CO	35,356	0.078		
NV	CLARK CO	67,910	0.078		
OH	MIAMI CO	93,182	0.078		
OK	COMANCHE CO	111,486	0.078		

5th High

SC	DARLINGTON CO	61,851	0.078		
TN	WILSON CO	67,675	0.078		
VA	WARREN CO	26,142	0.078		
WI	WASHINGTON CO	95,328	0.078		
WI	WAUKESHA CO	304,715	0.078		
CA	SAN LUIS OBISPO CO	8,377	0.077		
CA	SOLANO CO	31,760	0.077		
CA	YOLO CO	254,441	0.077		
FL	SARASOTA CO	115,243	0.077		
LA	WEST BATON ROUGE PA	75,555	0.077		
MI	WASHTENAW CO	65,581	0.077		
MS	JACKSON CO	53,794	0.077		
NC	BURKE CO	7,066	0.077		
SC	EDGEFIELD CO	18,375	0.077		
SC	OCONEE CO	57,494	0.077		
TN	COFFEE CO	40,339	0.077		
UT	DAVIS CO	187,941	0.077		
WI	SAUK CO	46,975	0.077		
FL	POLK CO	47,880	0.076		
IA	SCOTT CO	153,411	0.076		
IL	CHAMPAIGN CO	207,949	0.076		
IL	PEORIA CO	633,232	0.076		
IL	ST CLAIR CO	171,380	0.076		
LA	ST MARY PAR	9,104	0.076		
MA	BERKSHIRE CO	57,867	0.076		
MI	CLINTON CO	212,907	0.076		
MI	GENESEE CO	993,529	0.076		
NM	SANDOVAL CO	396,685	0.076		
NY	SARATOGA CO	416,444	0.076		
SC	ABBEVILLE CO	23,862	0.076		
SC	UNION CO	30,337	0.076		
TN	MAURY CO	54,812	0.076		
WI	WINNEBAGO CO	140,320	0.076		
FL	MANATEE CO	213,641	0.075		
FL	SEMINOLE CO	741,459	0.075		
IA	POLK CO	27,637	0.075		
LA	BEAUREGARD PAR	254,667	0.075		
ME	PENOBSCOT CO	9,264	0.075		
MN	WASHINGTON CO	70,121	0.075		
MS	MADISON CO	336,073	0.075		
NC	ALEXANDER CO	120,005	0.075		
NC	DAVIE CO	245,845	0.075		
NC	DUPLIN CO	38,592	0.075		
NH	CHESHIRE CO	224,327	0.075		
NY	ERIE CO	825,380	0.075		
SC	AIKEN CO	120,940	0.075		
SC	WILLIAMSBURG CO	36,815	0.075		
VA	AUGUSTA CO	54,677	0.075		
WV	KANAWHA CO	207,619	0.075		
CO	DOUGLAS CO	502,824	0.074		
GA	FANNIN CO	138,053	0.074		
IL	MACON CO	778,206	0.074		
IL	WINNEBAGO CO	230,082	0.074		
ME	KENNEBEC CO	553,099	0.074		
MS	FRANKLIN CO	107,776	0.074		
NC	MARTIN CO	325,824	0.074		

5th High

NY	CHEMUNG CO	671,780	0.074		
OK	CLEVELAND CO	174,253	0.074		
UT	WEBER CO	158,330	0.074		
VT	CHITTENDEN CO	131,761	0.074		
WI	FOND DU LAC CO	90,083	0.074		
WI	JEFFERSON CO	67,783	0.074		
CO	LARIMER CO	553,124	0.073		
FL	PASCO CO	421,353	0.073		
FL	ST JOHNS CO	433,203	0.073		
GA	CHATHAM CO	493,819	0.073		
IL	DU PAGE CO	480,577	0.073		
KS	WYANDOTTE CO	135,510	0.073		
KY	BELL CO	63,319	0.073		
KY	EDMONSON CO	45,235	0.073		
KY	MC CRACKEN CO	292,594	0.073		
KY	PERRY CO	1,203,789	0.073		
LA	ORLEANS PAR	141,895	0.073		
ME	WASHINGTON CO	95,195	0.073		
MO	GREENE CO	259,462	0.073		
MO	JACKSON CO	968,532	0.073		
MS	ADAMS CO	37,152	0.073		
MS	WARREN CO	5,279	0.073		
NY	HAMILTON CO	65,797	0.073		
NY	SCHENECTADY CO	110,943	0.073		
SC	CHARLESTON CO	295,039	0.073		
TN	RUTHERFORD CO	118,570	0.073		
UT	UTAH CO	263,590	0.073		
AL	MOBILE CO	2,300,664	0.072		
FL	BROWARD CO	69,120	0.072		
FL	OSCEOLA CO	713,968	0.072		
FL	PINELLAS CO	220,756	0.072		
KY	GRAVES CO	250,836	0.072		
MS	LEE CO	468,973	0.072		
NY	ONEIDA CO	307,647	0.072		
OK	MC CLAIN CO	22,795	0.072		
CA	NAPA CO	83,941	0.071		
CA	SHASTA CO	1,951,598	0.071		
CO	ARAPAHOE CO	378,977	0.071		
CO	BOULDER CO	181,276	0.071		
FL	VOLUSIA CO	149,285	0.071		
MS	HINDS CO	1,321,864	0.071		
NH	MERRIMACK CO	165,304	0.071		
WI	BROWN CO	194,594	0.071		
WI	COLUMBIA CO	45,088	0.071		
WI	DANE CO	367,085	0.071		
FL	BREVARD CO	89,123	0.070		
FL	PALM BEACH CO	874,866	0.070		
IA	VAN BUREN CO	27,544	0.070		
KS	SEDGWICK CO	174,821	0.070		
NH	SULLIVAN CO	75,744	0.070		
PA	LYCOMING CO	118,710	0.070		
SC	BERKELEY CO	128,776	0.070		
CA	MONTEREY CO	70,709	0.069		
FL	LEE CO	5,904	0.069		
NC	BUNCOMBE CO	20,693	0.069		
NY	HERKIMER CO	38,759	0.069		

5th High

TX	CAMERON CO	260,120	0.069		
AR	NEWTON CO	274,566	0.068		
CO	ADAMS CO	27,859	0.068		
MN	ANOKA CO	39,995	0.068		
MS	LAUDERDALE CO	181,835	0.068		
NM	BERNALILLO CO	265,878	0.068		
NV	WHITE PINE CO	36,414	0.068		
OR	CLACKAMAS CO	278,850	0.068		
WA	PIERCE CO	586,203	0.068		
AL	SUMTER CO	38,345	0.067		
CO	WELD CO	347,420	0.067		
IL	ADAMS CO	46,942	0.067		
IL	ROCK ISLAND CO	81,306	0.067		
NC	SWAIN CO	50,319	0.067		
NV	WASHOE CO	25,078	0.067		
OR	JACKSON CO	146,389	0.067		
AL	GENEVA CO	511,433	0.066		
AZ	COCONINO CO	120,284	0.066		
CA	SANTA CRUZ CO	20,798	0.066		
ME	SOMERSET CO	30,180	0.066		
NV	DOUGLAS CO	107,924	0.066		
WA	KING CO	1,507,319	0.066		
WI	FLORENCE CO	4,590	0.066		
WI	MARATHON CO	115,400	0.066		
AR	MONTGOMERY CO	86,064	0.065		
ME	PISCATAQUIS CO	110,605	0.065		
TX	BREWSTER CO	8,681	0.065		
CO	DENVER CO	11,268	0.064		
KS	SHERMAN CO	423,380	0.064		
UT	SAN JUAN CO	12,621	0.064		
WA	SPOKANE CO	361,364	0.064		
WI	ONEIDA CO	31,679	0.064		
WI	POLK CO	34,773	0.064		
WI	VERNON CO	25,617	0.064		
CO	MONTEZUMA CO	15,419	0.063		
MN	DAKOTA CO	6,383	0.063		
MN	KOOCHICHING CO	9,808	0.063		
MN	LAKE CO	2,381	0.063		
NM	VALENCIA CO	2,420	0.063		
WI	ST CROIX CO	50,251	0.063		
CA	SONOMA CO	109,755	0.062		
ME	OXFORD CO	99,821	0.062		
NE	DOUGLAS CO	291,479	0.062		
OR	LANE CO	282,912	0.062		
CO	EL PASO CO	147,548	0.061		
ND	STEELE CO	150,187	0.061		
OR	COLUMBIA CO	37,557	0.061		
IA	LINN CO	35,415	0.060		
CA	LAKE CO	1,412,140	0.059		
ID	BUTTE CO	961,437	0.059		
WA	SNOHOMISH CO	465,642	0.058		
WY	TETON CO	11,172	0.058		
WA	CLARK CO	238,053	0.057		
CA	SAN MATEO CO	866,228	0.056		
CA	SISKIYOU CO	80,298	0.056		
ND	MC KENZIE CO	47,473	0.056		

5th High

NE	LANCASTER CO	215,499	0.056		
WA	WHATCOM CO	127,780	0.056		
CA	MARIN CO	61,834	0.055		
ND	OLIVER CO	128,300	0.055		
CA	MENDOCINO CO	42,310	0.054		
ND	MERCER CO	271,126	0.053		
CA	DEL NORTE CO	462,361	0.050		
HI	HONOLULU CO	37,068	0.050		
AK	YUKON-KOYUKUK CA	264,806	0.048		
CA	SAN FRANCISCO CO	122,354	0.044		
WA	CLALLAM CO	56,464	0.042		

1993-95	COUNTY DESIGN VALUES	FOR PRIMARY		
			ATA BASE,	
		1990	8HR,5 EX	
STATE	COUNTY	POPULATIO	1993-95	
CA	SAN BERNARDINO CO	1,418,380	0.163	
CA	LOS ANGELES CO	8,863,164	0.151	
CA	RIVERSIDE CO	1,170,413	0.144	
CA	KERN CO	543,477	0.118	
CA	VENTURA CO	669,016	0.118	
TX	HARRIS CO	2,818,199	0.112	
MD	BALTIMORE	736,014	0.109	
CA	TULARE CO	311,921	0.108	
CA	FRESNO CO	667,490	0.107	
CA	SAN DIEGO CO	2,498,016	0.107	
GA	FULTON CO	648,951	0.105	
GA	ROCKDALE CO	54,091	0.105	
NJ	MIDDLESEX CO	671,780	0.105	
TX	GALVESTON CO	217,399	0.105	
MO	ST CHARLES CO	212,907	0.104	
NJ	CAMDEN CO	502,824	0.104	
CA	IMPERIAL CO	109,303	0.103	
CA	PLACER CO	172,796	0.103	
CA	SACRAMENTO CO	1,041,219	0.103	
CT	NEW HAVEN CO	804,219	0.103	
MD	ANNE ARUNDEL CO	427,239	0.103	
TX	TARRANT CO	1,170,103	0.103	
MD	HARFORD CO	182,132	0.102	
CT	FAIRFIELD CO	827,645	0.101	
NJ	MERCER CO	325,824	0.101	
PA	ALLEGHENY CO	1,336,449	0.101	
DE	NEW CASTLE CO	441,946	0.100	
GA	DE KALB CO	545,837	0.100	
IN	WARRICK CO	44,920	0.100	
NJ	OCEAN CO	433,203	0.100	
PA	BUCKS CO	541,174	0.1	
TX	DENTON CO	273,525	0.1	
CA	EL DORADO CO	125,995	0.098	
CA	MERCED CO	178,403	0.098	
CA	ORANGE CO	2,410,556	0.098	
CT	MIDDLESEX CO	143,196	0.098	
MD	CECIL CO	71,347	0.098	
DC	WASHINGTON	606,900	0.097	
GA	DOUGLAS CO	71,120	0.097	
IN	CLARK CO	87,777	0.097	
MD	BALTIMORE CO	692,134	0.097	
NJ	GLOUCESTER CO	230,082	0.097	
PA	PHILADELPHIA CO	1,585,577	0.097	
VA	ARLINGTON CO	170,936	0.097	
MD	PRINCE GEORGES CO	729,268	0.096	
NJ	HUDSON CO	553,099	0.096	
NJ	MORRIS CO	421,353	0.096	
WI	KENOSHA CO	128,181	0.096	
CA	CALAVERAS CO	31,998	0.095	

CA	MADERA CO	88,090	0.095		
MD	CARROLL CO	123,372	0.095		
PA	LANCASTER CO	422,822	0.095		
TN	JEFFERSON CO	33,016	0.095		
TN	SUMNER CO	103,281	0.095		
TX	COLLIN CO	264,036	0.095	population	counties
VA	FAIRFAX CO	818,584	0.095	40,772,699	56
CA	STANISLAUS CO	370,522	0.094		
IL	COOK CO	5,105,067	0.094		
IN	HAMILTON CO	108,936	0.094		
IN	VANDERBURGH CO	165,058	0.094		
MO	JEFFERSON CO	171,380	0.094		
NJ	CUMBERLAND CO	138,053	0.094		
NJ	HUNTERDON CO	107,776	0.094		
NY	RICHMOND CO	378,977	0.094		
NY	SUFFOLK CO	1,321,864	0.094		
OH	CLINTON CO	35,415	0.094		
OH	LAKE CO	215,499	0.094		
OH	WASHINGTON CO	62,254	0.094		
TX	DALLAS CO	1,852,810	0.094		
WI	OZAUKEE CO	72,831	0.094		
AL	SHELBY CO	99,358	0.093		
CT	HARTFORD CO	851,783	0.093		
CT	NEW LONDON CO	254,957	0.093		
CT	TOLLAND CO	128,699	0.093		
GA	GWINNETT CO	352,910	0.093		
IN	FLOYD CO	64,404	0.093		
IN	LA PORTE CO	107,066	0.093		
IN	MARION CO	797,159	0.093		
KY	KENTON CO	142,031	0.093		
ME	YORK CO	164,587	0.093		
NY	BRONX CO	1,203,789	0.093		
OH	WARREN CO	113,909	0.093		
PA	MONTGOMERY CO	678,111	0.093		
TX	GREGG CO	104,948	0.093		
TX	SMITH CO	151,309	0.093		
WV	CABELL CO	96,827	0.093		
CT	LITCHFIELD CO	174,092	0.092		
IN	MADISON CO	130,669	0.092		
MD	MONTGOMERY CO	757,027	0.092		
MI	ALLEGAN CO	90,509	0.092		
PA	DELAWARE CO	547,651	0.092		
PA	WASHINGTON CO	204,584	0.092		
TX	JEFFERSON CO	239,397	0.092		
VA	HANOVER CO	63,306	0.092		
IN	ALLEN CO	300,836	0.091		
LA	IBERVILLE PAR	31,049	0.091		
MA	WORCESTER CO	709,705	0.091		
MD	KENT CO	17,842	0.091		
MI	MASON CO	25,537	0.091		
MI	MUSKEGON CO	158,983	0.091		
NC	MECKLENBURG CO	511,433	0.091		
NC	ROWAN CO	110,605	0.091		
NJ	ATLANTIC CO	224,327	0.091		
NY	WESTCHESTER CO	874,866	0.091		

OH	BUTLER CO	291,479	0.091		
OH	CLERMONT CO	150,187	0.091		
OK	TULSA CO	503,341	0.091		
TN	BLOUNT CO	85,969	0.091		
TN	SULLIVAN CO	143,596	0.091		
TX	BRAZORIA CO	191,707	0.091		
WI	MANITOWOC CO	80,421	0.091	population	counties
WI	MILWAUKEE CO	959,275	0.091	63,769,381	112
CA	MARIPOSA CO	14,302	0.090		
IL	MADISON CO	249,238	0.090		
KY	HARDIN CO	89,240	0.090		
MA	HAMPDEN CO	456,310	0.090		
MA	HAMPSHIRE CO	146,568	0.090		
MA	MIDDLESEX CO	1,398,468	0.090		
MD	CHARLES CO	101,154	0.090		
MI	CASS CO	49,477	0.090		
MI	MACOMB CO	717,400	0.090		
MO	ST LOUIS CO	993,529	0.090		
NY	ORANGE CO	307,647	0.090		
OH	HAMILTON CO	866,228	0.090		
PA	NORTHAMPTON CO	247,105	0.09		
WV	WOOD CO	86,915	0.09		
AL	JEFFERSON CO	651,525	0.089		
CA	AMADOR CO	30,039	0.089		
IN	HANCOCK CO	45,527	0.089		
KY	JEFFERSON CO	664,937	0.089		
MA	BRISTOL CO	506,325	0.089		
MO	CLAY CO	153,411	0.089		
NC	GRANVILLE CO	38,345	0.089		
NY	KINGS CO	2,300,664	0.089		
NY	PUTNAM CO	83,941	0.089		
OH	CLARK CO	147,548	0.089		
OH	LUCAS CO	462,361	0.089		
OH	MONTGOMERY CO	573,809	0.089		
OH	SUMMIT CO	514,990	0.089		
PA	WESTMORELAND CO	370,321	0.089		
RI	PROVIDENCE CO	596,270	0.089		
TN	KNOX CO	335,749	0.089		
TN	SHELBY CO	826,330	0.089		
AZ	MARICOPA CO	2,122,101	0.088		
CA	ALAMEDA CO	1,279,182	0.088		
DE	KENT CO	110,993	0.088		
DE	SUSSEX CO	113,229	0.088		
IL	LAKE CO	516,418	0.088		
IN	PORTER CO	128,932	0.088		
KY	OLDHAM CO	33,263	0.088		
LA	ASCENSION PAR	58,214	0.088		
NC	GUILFORD CO	347,420	0.088		
NJ	MONMOUTH CO	553,124	0.088		
OH	ALLEN CO	109,755	0.088		
OH	MEDINA CO	122,354	0.088		
PA	BERKS CO	336,523	0.088		
PA	DAUPHIN CO	237,813	0.088		
RI	KENT CO	161,135	0.088		
TN	ANDERSON CO	68,250	0.088		

TN	HAMILTON CO	285,536	0.088		
VA	ALEXANDRIA	111,183	0.088		
VA	CHESTERFIELD CO	209,274	0.088		
VA	HENRICO CO	217,881	0.088		
WI	DOOR CO	25,690	0.088		
WI	RACINE CO	175,034	0.088		
LA	EAST BATON ROUGE PAR	380,105	0.087		
LA	LAFOURCHE PAR	85,860	0.087		
MA	BARNSTABLE CO	186,605	0.087		
ME	CUMBERLAND CO	243,135	0.087		
ME	SAGadahoc CO	33,535	0.087		
NC	LINCOLN CO	50,319	0.087		
NC	YANCEY CO	15,419	0.087		
NH	ROCKINGHAM CO	245,845	0.087		
NY	DUTCHESS CO	259,462	0.087		
OH	LOGAN CO	42,310	0.087		
OH	MADISON CO	37,068	0.087		
OH	STARK CO	367,585	0.087		
OH	TRUMBULL CO	227,813	0.087		
PA	ERIE CO	275,572	0.087		
SC	ANDERSON CO	145,196	0.087		
SC	RICHLAND CO	285,720	0.087		
VA	CHARLES CITY CO	6,282	0.087		
VA	PRINCE WILLIAM CO	215,686	0.087		
CA	SANTA BARBARA CO	369,608	0.086		
CA	TUOLUMNE CO	48,456	0.086		
IN	VIGO CO	106,107	0.086		
KY	BOYD CO	51,150	0.086		
KY	CAMPBELL CO	83,866	0.086		
KY	FAYETTE CO	225,366	0.086		
KY	MC LEAN CO	9,628	0.086		
LA	LAFAYETTE PAR	164,762	0.086		
MI	ST CLAIR CO	145,607	0.086		
NC	FORSYTH CO	265,878	0.086		
NC	ROCKINGHAM CO	86,064	0.086		
NJ	BERGEN CO	825,380	0.086		
NJ	UNION CO	493,819	0.086		
OH	ASHTABULA CO	99,821	0.086		
OH	JEFFERSON CO	80,298	0.086		
OH	LICKING CO	128,300	0.086		
OH	PORTAGE CO	142,585	0.086		
PA	BLAIR CO	130,542	0.086		
PA	LACKAWANNA CO	219,039	0.086		
PA	LUZERNE CO	328,149	0.086		
SC	YORK CO	131,497	0.086		
TN	DAVIDSON CO	510,784	0.086		
TN	SEVIER CO	51,043	0.086		
TX	BEXAR CO	1,185,394	0.086		
VA	SUFFOLK	52,141	0.086		
WI	KEWAUNEE CO	18,878	0.086		
CA	KINGS CO	101,469	0.085		
CA	TEHAMA CO	49,625	0.085		
GA	RICHMOND CO	189,719	0.085		
IN	LAKE CO	475,594	0.085		
KY	GREENUP CO	36,742	0.085		
KY	HANCOCK CO	7,864	0.085		

KY	LIVINGSTON CO	9,062	0.085		
KY	PIKE CO	72,583	0.085		
KY	SCOTT CO	23,867	0.085		
MI	WAYNE CO	2,111,687	0.085		
NC	FRANKLIN CO	36,414	0.085		
NC	JOHNSTON CO	81,306	0.085		
NC	WAKE CO	423,380	0.085		
OH	FRANKLIN CO	961,437	0.085		
OH	KNOX CO	47,473	0.085		
OH	LAWRENCE CO	61,834	0.085		
PA	MERCER CO	121,003	0.085		
PA	PERRY CO	41,172	0.085		
PA	YORK CO	339,574	0.085		
TN	WILLIAMSON CO	81,021	0.085		
TX	TRAVIS CO	576,407	0.085	Population	Counties
VA	CAROLINE CO	19,217	0.085	100,044,487	231
AR	CRITTENDEN CO	49,939	0.084		
CA	SANTA CLARA CO	1,497,577	0.084		
IN	ST JOSEPH CO	247,052	0.084		
IN	TIPPECANOE CO	130,598	0.084		
KY	BULLITT CO	47,567	0.084		
MA	ESSEX CO	670,080	0.084		
ME	KNOX CO	36,310	0.084		
MI	KENT CO	500,631	0.084		
MS	HANCOCK CO	31,760	0.084		
PA	LEHIGH CO	291,130	0.084		
TX	ORANGE CO	80,509	0.084		
VA	HAMPTON	133,793	0.084		
VA	STAFFORD CO	61,236	0.084		
AL	CLAY CO	13,252	0.083		
CA	NEVADA CO	78,510	0.083		
CA	SAN JOAQUIN CO	480,628	0.083		
CA	SUTTER CO	64,415	0.083		
GA	MUSCOGEE CO	179,278	0.083		
IN	ELKHART CO	156,198	0.083		
IN	KOSCIUSKO CO	65,294	0.083		
KY	HENDERSON CO	43,044	0.083		
KY	LAWRENCE CO	13,998	0.083		
LA	LIVINGSTON PAR	70,526	0.083		
LA	ST CHARLES PAR	42,437	0.083		
MI	BENZIE CO	12,200	0.083		
MI	BERRIEN CO	161,378	0.083		
MI	OTTAWA CO	187,768	0.083		
MO	PLATTE CO	57,867	0.083		
MS	DE SOTO CO	67,910	0.083		
NC	CUMBERLAND CO	274,566	0.083		
NC	DURHAM CO	181,835	0.083		
NC	PITT CO	107,924	0.083		
NH	HILLSBOROUGH CO	336,073	0.083		
NJ	ESSEX CO	778,206	0.083		
OH	MAHONING CO	264,806	0.083		
PA	BEAVER CO	186,093	0.083		
SC	CHESTER CO	32,170	0.083		
WV	GREENBRIER CO	34,693	0.083		
FL	ESCAMBIA CO	262,798	0.082		

KY	CHRISTIAN CO	68,941	0.082		
LA	CALCASIEU PAR	168,134	0.082		
LA	JEFFERSON PAR	448,306	0.082		
LA	ST JAMES PAR	20,879	0.082		
LA	ST JOHN THE BAPTIST P	AR 39,996	0.082		
LA	ST MARY PAR	58,086	0.082		
MI	LENAWEE CO	91,476	0.082		
MO	ST LOUIS	396,685	0.082		
NC	DAVIE CO	27,859	0.082		
NY	ALBANY CO	292,594	0.082		
NY	ESSEX CO	37,152	0.082		
NY	ULSTER CO	165,304	0.082		
OH	CUYAHOGA CO	1,412,140	0.082		
OK	OKLAHOMA CO	599,611	0.082		
PA	CAMBRIA CO	163,029	0.082		
SC	CHEROKEE CO	44,506	0.082		
SC	PICKENS CO	93,894	0.082		
SC	SPARTANBURG CO	226,800	0.082		
TN	DICKSON CO	35,061	0.082		
TN	DYER CO	34,854	0.082		
AL	ELMORE CO	49,210	0.081		
CA	COLUSA CO	16,275	0.081		
IL	JERSEY CO	20,539	0.081		
KY	BOONE CO	57,589	0.081		
KY	JESSAMINE CO	30,508	0.081		
LA	BOSSIER PAR	86,088	0.081		
LA	POINTE COUPEE PAR	22,540	0.081		
LA	ST BERNARD PAR	66,631	0.081		
MI	KALAMAZOO CO	223,411	0.081		
MI	OAKLAND CO	1,083,592	0.081		
NC	CHATHAM CO	38,759	0.081		
NC	NEW HANOVER CO	120,284	0.081		
NC	NORTHAMPTON CO	20,798	0.081		
NM	DONA ANA CO	135,510	0.081		
NY	CHAUTAUQUA CO	141,895	0.081		
NY	NIAGARA CO	220,756	0.081		
NY	QUEENS CO	1,951,598	0.081		
OH	PREBLE CO	40,113	0.081		
TX	NUECES CO	291,145	0.081		
UT	SALT LAKE CO	725,956	0.081		
VA	FAUQUIER CO	48,741	0.081		
VA	FREDERICK CO	45,723	0.081		
VA	MADISON CO	11,949	0.081		
VA	ROANOKE CO	79,332	0.081	Population	Counties
WV	HANCOCK CO	35,233	0.081	117,926,022	315
AL	COLBERT CO	51,666	0.080		
AL	MADISON CO	238,912	0.080		
CA	CONTRA COSTA CO	803,732	0.080		
CA	INYO CO	18,281	0.080		
CA	MONO CO	9,956	0.080		
IL	EFFINGHAM CO	31,704	0.080		
IL	MACOUPIN CO	47,679	0.080		
IL	PEORIA CO	182,827	0.080		
IL	RANDOLPH CO	34,583	0.080		
IL	ST CLAIR CO	262,852	0.080		
KY	DAVISS CO	87,189	0.080		

5 Exc

LA	CADDO PAR	248,253	0.080		
MI	HURON CO	34,951	0.080		
MI	INGHAM CO	281,912	0.080		
MO	MONROE CO	9,104	0.080		
MS	SHARKEY CO	7,066	0.080		
NC	CASWELL CO	20,693	0.080		
NY	JEFFERSON CO	110,943	0.080		
NY	WAYNE CO	89,123	0.080		
OH	LORAIN CO	271,126	0.080		
OH	TUSCARAWAS CO	84,090	0.08		
TN	BRADLEY CO	73,712	0.08		
TN	HAMLEN CO	50,480	0.08		
TN	HAYWOOD CO	19,437	0.08		
TX	VICTORIA CO	74,361	0.08		
AR	PULASKI CO	349,660	0.079		
AZ	PIMA CO	666,880	0.079		
CA	BUTTE CO	182,120	0.079		
CA	GLENN CO	24,798	0.079		
CO	JEFFERSON CO	438,430	0.079		
IL	CHAMPAIGN CO	173,025	0.079		
IL	SANGAMON CO	178,386	0.079		
IL	WILL CO	357,313	0.079		
KS	WYANDOTTE CO	161,993	0.079		
KY	PULASKI CO	49,489	0.079		
LA	GRANT PAR	17,526	0.079		
LA	OUACHITA PAR	142,191	0.079		
MA	PLYMOUTH CO	435,276	0.079		
NC	PERSON CO	30,180	0.079		
NV	CLARK CO	741,459	0.079		
OH	MIAMI CO	93,182	0.079		
SC	DARLINGTON CO	61,851	0.079		
TX	EL PASO CO	591,610	0.079		
WI	SHEBOYGAN CO	103,877	0.079		
AL	MONTGOMERY CO	209,085	0.078		
FL	DUVAL CO	672,971	0.078		
FL	HILLSBOROUGH CO	834,054	0.078		
FL	ORANGE CO	677,491	0.078		
IL	KANE CO	317,471	0.078		
IL	MC HENRY CO	183,241	0.078		
KY	SIMPSON CO	15,145	0.078		
LA	WEST BATON ROUGE PA	19,419	0.078		
MA	SUFFOLK CO	663,906	0.078		
NC	CALDWELL CO	70,709	0.078		
NC	CAMDEN CO	5,904	0.078		
NY	MADISON CO	69,120	0.078		
OK	CLEVELAND CO	174,253	0.078		
TN	MADISON CO	77,982	0.078		
VA	AUGUSTA CO	54,677	0.078		
VA	WYTHE CO	25,466	0.078		
VT	BENNINGTON CO	35,845	0.078		
WV	OHIO CO	50,871	0.078		
AL	LAWRENCE CO	31,513	0.077		
CA	SAN BENITO CO	36,697	0.077		
FL	SARASOTA CO	277,776	0.077		
IL	MACON CO	117,206	0.077		
ME	HANCOCK CO	46,948	0.077		

MS	JACKSON CO	115,243	0.077		
NC	DUPLIN CO	39,995	0.077		
OK	COMANCHE CO	111,486	0.077		
PA	LAWRENCE CO	96,246	0.077		
SC	BARNWELL CO	20,293	0.077		
SC	UNION CO	30,337	0.077		
TN	WILSON CO	67,675	0.077		
VA	WARREN CO	26,142	0.077		
WI	OUTAGAMIE CO	140,510	0.077		
WI	ROCK CO	139,510	0.077		
WI	WINNEBAGO CO	140,320	0.077		
WV	KANAWHA CO	207,619	0.077		
CA	YOLO CO	141,092	0.076		
FL	DADE CO	1,937,094	0.076		
MI	GENESEE CO	430,459	0.076		
MI	WASHTENAW CO	282,937	0.076		
NC	BURKE CO	75,744	0.076		
NC	HAYWOOD CO	46,942	0.076		
NY	ONONDAGA CO	468,973	0.076		
OK	MC CLAIN CO	22,795	0.076		
SC	ABBEVILLE CO	23,862	0.076		
SC	EDGEFIELD CO	18,375	0.076		
SC	WILLIAMSBURG CO	36,815	0.076		
WI	COLUMBIA CO	45,088	0.076		
WI	SAUK CO	46,975	0.076		
WI	WALWORTH CO	75,000	0.076		
WI	WASHINGTON CO	95,328	0.076		
WI	WAUKESHA CO	304,715	0.076		
CA	SHASTA CO	147,036	0.075		
CA	SOLANO CO	340,421	0.075		
LA	BEAUREGARD PAR	30,083	0.075		
ME	PENOBSCOT CO	146,601	0.075		
ME	WASHINGTON CO	35,308	0.075		
MI	CLINTON CO	57,883	0.075		
MO	GREENE CO	207,949	0.075		
MS	MADISON CO	53,794	0.075		
NY	ERIE CO	968,532	0.075		
NY	MONROE CO	713,968	0.075		
NY	SARATOGA CO	181,276	0.075		
SC	AIKEN CO	120,940	0.075		
SC	OCONEE CO	57,494	0.075		
TN	COFFEE CO	40,339	0.075		
TN	MAURY CO	54,812	0.075		
UT	WEBER CO	158,330	0.075		
WI	FOND DU LAC CO	90,083	0.075		
FL	MANATEE CO	211,707	0.074		
FL	SEMINOLE CO	287,529	0.074		
IA	SCOTT CO	150,979	0.074		
KY	MC CRACKEN CO	62,879	0.074		
MA	BERKSHIRE CO	139,352	0.074		
MN	WASHINGTON CO	145,896	0.074		
MO	JACKSON CO	633,232	0.074		
NC	ALEXANDER CO	27,544	0.074		
NC	MARTIN CO	25,078	0.074		
NH	CHESHIRE CO	70,121	0.074		
NM	SANDOVAL CO	63,319	0.074		

5 Exc

NY	SCHENECTADY CO	149,285	0.074		
UT	DAVIS CO	187,941	0.074		
VA	HENRY CO	56,942	0.074		
WI	JEFFERSON CO	67,783	0.074		
CA	SAN LUIS OBISPO CO	217,162	0.073		
FL	OSCEOLA CO	107,728	0.073		
FL	PASCO CO	281,131	0.073		
FL	POLK CO	405,382	0.073		
GA	FANNIN CO	15,992	0.073		
IL	WINNEBAGO CO	252,913	0.073		
KY	BELL CO	31,506	0.073		
KY	EDMONSON CO	10,357	0.073		
ME	KENNEBEC CO	115,904	0.073		
MS	ADAMS CO	35,356	0.073		
MS	FRANKLIN CO	8,377	0.073		
MS	WARREN CO	47,880	0.073		
NY	CHEMUNG CO	95,195	0.073		
SC	CHARLESTON CO	295,039	0.073		
VT	CHITTENDEN CO	131,761	0.073		
AL	MOBILE CO	378,643	0.072		
CO	DOUGLAS CO	60,391	0.072		
CO	LARIMER CO	186,136	0.072		
FL	PINELLAS CO	851,659	0.072		
FL	ST JOHNS CO	83,829	0.072		
KY	PERRY CO	30,283	0.072		
LA	ORLEANS PAR	496,938	0.072		
MN	ANOKA CO	243,641	0.072		
MS	LEE CO	65,581	0.072		
SC	BERKELEY CO	128,776	0.072		
TN	RUTHERFORD CO	118,570	0.072		
UT	UTAH CO	263,590	0.072		
WI	DODGE CO	76,559	0.072		
CO	BOULDER CO	225,339	0.071		
KS	SEDGWICK CO	403,662	0.071		
NY	HAMILTON CO	5,279	0.071		
WI	BROWN CO	194,594	0.071		
WI	DANE CO	367,085	0.071		
AR	NEWTON CO	7,666	0.070		
CO	ARAPAHOE CO	391,511	0.070		
FL	BREVARD CO	398,978	0.070		
GA	CHATHAM CO	216,935	0.070		
MS	HINDS CO	254,441	0.070		
NC	BUNCOMBE CO	174,821	0.070		
NM	BERNALILLO CO	480,577	0.070		
PA	LYCOMING CO	118,710	0.07		
FL	BROWARD CO	1,255,488	0.069		
FL	VOLUSIA CO	370,712	0.069		
MS	LAUDERDALE CO	75,555	0.069		
NH	MERRIMACK CO	120,005	0.069		
AL	GENEVA CO	23,647	0.068		
AR	MONTGOMERY CO	7,841	0.068		
CA	MONTEREY CO	355,660	0.068		
CA	NAPA CO	110,765	0.068		
CO	ADAMS CO	265,038	0.068		
FL	LEE CO	335,113	0.068		
IL	ADAMS CO	66,090	0.068		

5 Exc

IL	DU PAGE CO	781,666	0.068	
IL	ROCK ISLAND CO	148,723	0.068	
KY	GRAVES CO	33,550	0.068	
NH	SULLIVAN CO	38,592	0.068	
NV	WASHOE CO	254,667	0.068	
NV	WHITE PINE CO	9,264	0.068	
TX	CAMERON CO	260,120	0.068	
WA	PIERCE CO	586,203	0.068	
WI	MARATHON CO	115,400	0.068	
AL	SUMTER CO	16,174	0.067	
FL	PALM BEACH CO	863,518	0.067	
IA	VAN BUREN CO	7,676	0.067	
MN	LAKE CO	10,415	0.067	
NE	DOUGLAS CO	416,444	0.067	
NY	ONEIDA CO	250,836	0.067	
CO	WELD CO	131,821	0.066	
NV	DOUGLAS CO	27,637	0.066	
OR	CLACKAMAS CO	278,850	0.066	
OR	JACKSON CO	146,389	0.066	
WI	POLK CO	34,773	0.066	
AZ	COCONINO CO	96,591	0.065	
CA	SANTA CRUZ CO	229,734	0.065	
ME	PISCATAQUIS CO	18,653	0.065	
ME	SOMERSET CO	49,767	0.065	
MN	DAKOTA CO	275,227	0.065	
NY	HERKIMER CO	65,797	0.065	
WA	KING CO	1,507,319	0.065	
WI	VERNON CO	25,617	0.065	
IA	POLK CO	327,140	0.064	
NC	SWAIN CO	11,268	0.064	
NM	VALENCIA CO	45,235	0.064	
TX	BREWSTER CO	8,681	0.064	
WA	SPOKANE CO	361,364	0.064	
CA	LAKE CO	50,631	0.063	
CO	DENVER CO	467,610	0.063	
KS	SHERMAN CO	6,926	0.063	
UT	SAN JUAN CO	12,621	0.063	
WI	FLORENCE CO	4,590	0.063	
WI	ST CROIX CO	50,251	0.063	
CO	MONTEZUMA CO	18,672	0.062	
OR	LANE CO	282,912	0.062	
CA	SONOMA CO	388,222	0.061	
CO	EL PASO CO	397,014	0.061	
ID	BUTTE CO	2,918	0.061	
IA	LINN CO	168,767	0.060	
ME	OXFORD CO	52,602	0.060	
MN	KOOCHICHING CO	16,299	0.060	
WY	TETON CO	11,172	0.06	
OR	COLUMBIA CO	37,557	0.059	
WI	ONEIDA CO	31,679	0.059	
CA	SISKIYOU CO	43,531	0.058	
NE	LANCASTER CO	213,641	0.058	
WA	SNOHOMISH CO	465,642	0.058	
WA	CLARK CO	238,053	0.057	
ND	MC KENZIE CO	6,383	0.056	
ND	OLIVER CO	2,381	0.055	

5 Exc

ND	STEELE CO	2,420	0.055		
WA	WHATCOM CO	127,780	0.055		
CA	MARIN CO	230,096	0.053		
CA	MENDOCINO CO	80,345	0.053		
CA	SAN MATEO CO	649,623	0.053		
ND	MERCER CO	9,808	0.053		
AK	YUKON-KOYUKUK CA	8,478	0.049		
CA	DEL NORTE CO	23,460	0.049		
HI	HONOLULU CO	836,231	0.048		
CA	SAN FRANCISCO CO	723,959	0.043		
WA	CLALLAM CO	56,464	0.043		

2nd High

1993-95	COUNTY DESIGN VALUES	FOR PRIMARY		
			MAY 1996)	
		1990	C AVG 8H MX2	
STATE	COUNTY	POPULATIO	1993-95	
CA	SAN BERNARDINO CO	1,418,380	0.174	
CA	LOS ANGELES CO	8,863,164	0.165	
CA	RIVERSIDE CO	1,170,413	0.157	
CA	KERN CO	543,477	0.126	
TX	GALVESTON CO	217,399	0.126	
CA	VENTURA CO	669,016	0.124	
TX	HARRIS CO	2,818,199	0.123	
CT	FAIRFIELD CO	827,645	0.120	
MD	ANNE ARUNDEL CO	427,239	0.120	
MD	BALTIMORE	736,014	0.120	
CA	ORANGE CO	2,410,556	0.119	
CT	NEW HAVEN CO	804,219	0.119	
DE	NEW CASTLE CO	441,946	0.119	
NJ	MIDDLESEX CO	671,780	0.119	
CA	SAN DIEGO CO	2,498,016	0.117	
GA	DE KALB CO	545,837	0.117	
MD	HARFORD CO	182,132	0.117	
GA	FULTON CO	648,951	0.116	
PA	BUCKS CO	541,174	0.116	
CA	FRESNO CO	667,490	0.115	
GA	DOUGLAS CO	71,120	0.115	
GA	ROCKDALE CO	54,091	0.115	
MO	ST CHARLES CO	212,907	0.115	
NJ	CAMDEN CO	502,824	0.115	
NJ	OCEAN CO	433,203	0.115	
CA	IMPERIAL CO	109,303	0.114	
CA	SACRAMENTO CO	1,041,219	0.114	
CA	TULARE CO	311,921	0.114	
CT	MIDDLESEX CO	143,196	0.114	
CA	PLACER CO	172,796	0.113	
NJ	MERCER CO	325,824	0.113	
TX	TARRANT CO	1,170,103	0.113	
CT	TOLLAND CO	128,699	0.111	
DE	KENT CO	110,993	0.111	
MD	CECIL CO	71,347	0.111	
NY	BRONX CO	1,203,789	0.111	
PA	ALLEGHENY CO	1,336,449	0.111	
MD	PRINCE GEORGES CO	729,268	0.110	
ME	SAGADAHOC CO	33,535	0.110	
NY	SUFFOLK CO	1,321,864	0.110	
WI	KENOSHA CO	128,181	0.11	
MA	WORCESTER CO	709,705	0.109	
NJ	GLOUCESTER CO	230,082	0.109	
RI	KENT CO	161,135	0.109	
IN	CLARK CO	87,777	0.108	
NJ	MONMOUTH CO	553,124	0.108	
NJ	MORRIS CO	421,353	0.108	
TX	DENTON CO	273,525	0.108	
WI	OZAUKEE CO	72,831	0.108	
DC	WASHINGTON	606,900	0.107	

2nd High

MI	ALLEGAN CO	90,509	0.107		
NJ	HUDSON CO	553,099	0.107		
TN	BLOUNT CO	85,969	0.107		
CA	MERCED CO	178,403	0.106		
CT	HARTFORD CO	851,783	0.106		
MD	CARROLL CO	123,372	0.106		
MI	MACOMB CO	717,400	0.106		
PA	PHILADELPHIA CO	1,585,577	0.106		
AL	SHELBY CO	99,358	0.105		
MD	BALTIMORE CO	692,134	0.105		
MO	ST LOUIS CO	993,529	0.105		
CT	NEW LONDON CO	254,957	0.104		
MA	HAMPDEN CO	456,310	0.104		
MD	MONTGOMERY CO	757,027	0.104		
ME	YORK CO	164,587	0.104		
OH	WARREN CO	113,909	0.104		
RI	PROVIDENCE CO	596,270	0.104		
SC	ANDERSON CO	145,196	0.104		
TN	SUMNER CO	103,281	0.104		
TX	COLLIN CO	264,036	0.104		
TX	DALLAS CO	1,852,810	0.104		
VA	FAIRFAX CO	818,584	0.104		
WI	MILWAUKEE CO	959,275	0.104		
CA	EL DORADO CO	125,995	0.103		
CA	STANISLAUS CO	370,522	0.103		
GA	GWINNETT CO	352,910	0.103		
MA	HAMPSHIRE CO	146,568	0.103		
ME	KNOX CO	36,310	0.103		
NJ	CUMBERLAND CO	138,053	0.103		
NJ	HUNTERDON CO	107,776	0.103		
NY	ORANGE CO	307,647	0.103		
NY	RICHMOND CO	378,977	0.103		
OH	BUTLER CO	291,479	0.103		
OH	LAKE CO	215,499	0.103		
OH	WASHINGTON CO	62,254	0.103		
PA	LANCASTER CO	422,822	0.103		
VA	ARLINGTON CO	170,936	0.103		
WI	MANITOWOC CO	80,421	0.103		
CA	SANTA CLARA CO	1,497,577	0.102		
IN	LA PORTE CO	107,066	0.102		
KY	JEFFERSON CO	664,937	0.102		
MA	BARNSTABLE CO	186,605	0.102		
MD	CHARLES CO	101,154	0.102		
MI	MASON CO	25,537	0.102		
MI	MUSKEGON CO	158,983	0.102		
TX	BRAZORIA CO	191,707	0.102		
WV	CABELL CO	96,827	0.102		
CA	CALAVERAS CO	31,998	0.101		
CT	LITCHFIELD CO	174,092	0.101		
IL	LAKE CO	516,418	0.101		
MA	BRISTOL CO	506,325	0.101		
MD	KENT CO	17,842	0.101		
NC	ROWAN CO	110,605	0.101		
NY	KINGS CO	2,300,664	0.101		
NY	WESTCHESTER CO	874,866	0.101		
PA	DAUPHIN CO	237,813	0.101		

2nd High

PA	DELAWARE CO	547,651	0.101		
CA	MARIPOSA CO	14,302	0.100		
IN	WARRICK CO	44,920	0.100		
MA	MIDDLESEX CO	1,398,468	0.100		
MI	ST CLAIR CO	145,607	0.100		
NC	MECKLENBURG CO	511,433	0.100		
NH	ROCKINGHAM CO	245,845	0.100		
OH	CLINTON CO	35,415	0.100		
OH	LUCAS CO	462,361	0.100		
OH	MADISON CO	37,068	0.100		
PA	MONTGOMERY CO	678,111	0.1		
SC	YORK CO	131,497	0.1		
TN	JEFFERSON CO	33,016	0.1		
TX	JEFFERSON CO	239,397	0.1		
WI	RACINE CO	175,034	0.1		
CA	NEVADA CO	78,510	0.099		
IL	COOK CO	5,105,067	0.099		
LA	EAST BATON ROUGE PAR	380,105	0.099		
LA	IBERVILLE PAR	31,049	0.099		
ME	CUMBERLAND CO	243,135	0.099		
MI	KENT CO	500,631	0.099		
NC	CASWELL CO	20,693	0.099		
NY	DUTCHESS CO	259,462	0.099		
PA	WASHINGTON CO	204,584	0.099		
TN	HAMILTON CO	285,536	0.099		
TN	MADISON CO	77,982	0.099		
AR	CRITTENDEN CO	49,939	0.098		
CA	MADERA CO	88,090	0.098		
MA	ESSEX CO	670,080	0.098		
MO	JEFFERSON CO	171,380	0.098		
NY	PUTNAM CO	83,941	0.098		
OH	HAMILTON CO	866,228	0.098		
PA	NORTHAMPTON CO	247,105	0.098		
SC	CHESTER CO	32,170	0.098		
TN	DICKSON CO	35,061	0.098		
TN	SEVIER CO	51,043	0.098		
TN	SHELBY CO	826,330	0.098		
WI	DOOR CO	25,690	0.098		
WI	KEWAUNEE CO	18,878	0.098		
CA	SANTA BARBARA CO	369,608	0.097		
IN	HAMILTON CO	108,936	0.097		
IN	HANCOCK CO	45,527	0.097		
IN	MARION CO	797,159	0.097		
IN	VANDERBURGH CO	165,058	0.097		
KY	HARDIN CO	89,240	0.097		
KY	KENTON CO	142,031	0.097		
LA	ASCENSION PAR	58,214	0.097		
MI	WAYNE CO	2,111,687	0.097		
NC	GUILFORD CO	347,420	0.097		
NC	JOHNSTON CO	81,306	0.097		
NJ	ATLANTIC CO	224,327	0.097		
OH	CUYAHOGA CO	1,412,140	0.097		
OH	PORTAGE CO	142,585	0.097		
PA	LACKAWANNA CO	219,039	0.097		
PA	WESTMORELAND CO	370,321	0.097		

2nd High

TX	GREGG CO	104,948	0.097		
TX	SMITH CO	151,309	0.097		
VA	CHESTERFIELD CO	209,274	0.097		
WV	WOOD CO	86,915	0.097		
AL	JEFFERSON CO	651,525	0.096		
CA	ALAMEDA CO	1,279,182	0.096		
IN	FLOYD CO	64,404	0.096		
IN	MADISON CO	130,669	0.096		
KY	BOYD CO	51,150	0.096		
MO	CLAY CO	153,411	0.096		
NJ	BERGEN CO	825,380	0.096		
NJ	UNION CO	493,819	0.096		
OH	CLERMONT CO	150,187	0.096		
OH	MEDINA CO	122,354	0.096		
OH	MONTGOMERY CO	573,809	0.096		
OK	TULSA CO	503,341	0.096		
PA	BERKS CO	336,523	0.096		
PA	YORK CO	339,574	0.096		
TN	KNOX CO	335,749	0.096		
VA	HANOVER CO	63,306	0.096		
CA	SAN JOAQUIN CO	480,628	0.095		
DE	SUSSEX CO	113,229	0.095		
IL	MADISON CO	249,238	0.095		
IN	ALLEN CO	300,836	0.095		
KY	GREENUP CO	36,742	0.095		
MI	OTTAWA CO	187,768	0.095		
NC	FORSYTH CO	265,878	0.095		
NH	HILLSBOROUGH CO	336,073	0.095		
OH	ALLEN CO	109,755	0.095		
OH	CLARK CO	147,548	0.095		
OH	STARK CO	367,585	0.095		
OH	TRUMBULL CO	227,813	0.095		
PA	BLAIR CO	130,542	0.095		
PA	PERRY CO	41,172	0.095		
SC	SPARTANBURG CO	226,800	0.095	Population	Counties
TN	ANDERSON CO	68,250	0.095	94,952,769	197
CA	AMADOR CO	30,039	0.094		
CA	CONTRA COSTA CO	803,732	0.094		
FL	ESCAMBIA CO	262,798	0.094		
KY	MC LEAN CO	9,628	0.094		
KY	PIKE CO	72,583	0.094		
LA	ST BERNARD PAR	66,631	0.094		
LA	ST JOHN THE BAPTIST P AR	39,996	0.094		
MI	CASS CO	49,477	0.094		
NC	LINCOLN CO	50,319	0.094		
NC	YANCEY CO	15,419	0.094		
NM	DONA ANA CO	135,510	0.094		
NY	QUEENS CO	1,951,598	0.094		
OH	KNOX CO	47,473	0.094		
OH	LOGAN CO	42,310	0.094		
OH	SUMMIT CO	514,990	0.094		
PA	ERIE CO	275,572	0.094		
PA	LUZERNE CO	328,149	0.094		
TN	SULLIVAN CO	143,596	0.094		
TX	BEXAR CO	1,185,394	0.094		

2nd High

TX	NUECES CO	291,145	0.094		
VA	ALEXANDRIA	111,183	0.094		
VA	CHARLES CITY CO	6,282	0.094		
VA	HAMPTON	133,793	0.094		
VA	HENRICO CO	217,881	0.094		
VA	PRINCE WILLIAM CO	215,686	0.094		
AL	MADISON CO	238,912	0.093		
GA	RICHMOND CO	189,719	0.093		
KY	SCOTT CO	23,867	0.093		
LA	CALCASIEU PAR	168,134	0.093		
LA	LIVINGSTON PAR	70,526	0.093		
MS	DE SOTO CO	67,910	0.093		
NJ	ESSEX CO	778,206	0.093		
OH	FRANKLIN CO	961,437	0.093		
PA	MERCER CO	121,003	0.093		
SC	RICHLAND CO	285,720	0.093		
VA	STAFFORD CO	61,236	0.093		
AZ	MARICOPA CO	2,122,101	0.092		
CA	SUTTER CO	64,415	0.092		
CA	TUOLUMNE CO	48,456	0.092		
IN	LAKE CO	475,594	0.092		
KY	CAMPBELL CO	83,866	0.092		
KY	DAVIESS CO	87,189	0.092		
KY	HANCOCK CO	7,864	0.092		
KY	OLDHAM CO	33,263	0.092		
LA	LAFOURCHE PAR	85,860	0.092		
MI	BENZIE CO	12,200	0.092		
MI	BERRIEN CO	161,378	0.092		
NC	GRANVILLE CO	38,345	0.092		
NY	ESSEX CO	37,152	0.092		
NY	JEFFERSON CO	110,943	0.092		
OH	ASHTABULA CO	99,821	0.092		
OH	JEFFERSON CO	80,298	0.092		
SC	PICKENS CO	93,894	0.092		
WI	ROCK CO	139,510	0.092		
CA	TEHAMA CO	49,625	0.091		
IL	KANE CO	317,471	0.091		
IL	MC HENRY CO	183,241	0.091		
IN	PORTER CO	128,932	0.091		
IN	ST JOSEPH CO	247,052	0.091		
KY	BULLITT CO	47,567	0.091		
KY	FAYETTE CO	225,366	0.091		
KY	LIVINGSTON CO	9,062	0.091		
LA	WEST BATON ROUGE PA	19,419	0.091		
MS	HANCOCK CO	31,760	0.091		
NC	CUMBERLAND CO	274,566	0.091		
NC	WAKE CO	423,380	0.091		
OH	LAWRENCE CO	61,834	0.091		
OH	LICKING CO	128,300	0.091		
PA	BEAVER CO	186,093	0.091		
PA	LEHIGH CO	291,130	0.091		
TN	DYER CO	34,854	0.091		
TN	WILLIAMSON CO	81,021	0.091		
TX	EL PASO CO	591,610	0.091		
UT	SALT LAKE CO	725,956	0.091		
VA	SUFFOLK	52,141	0.091	Population	Counties

2nd High

WI	SHEBOYGAN CO	103,877	0.091	112,877,033	273
AL	CLAY CO	13,252	0.090		
IL	WILL CO	357,313	0.090		
IN	TIPPECANOE CO	130,598	0.090		
KY	CHRISTIAN CO	68,941	0.090		
KY	HENDERSON CO	43,044	0.090		
LA	LAFAYETTE PAR	164,762	0.090		
LA	POINTE COUPEE PAR	22,540	0.090		
MI	HURON CO	34,951	0.090		
MI	KALAMAZOO CO	223,411	0.090		
NC	FRANKLIN CO	36,414	0.090		
NC	NEW HANOVER CO	120,284	0.090		
NY	ULSTER CO	165,304	0.090		
OH	LORAIN CO	271,126	0.090		
OK	OKLAHOMA CO	599,611	0.09		
TN	HAYWOOD CO	19,437	0.09		
TN	WILSON CO	67,675	0.09		
TX	ORANGE CO	80,509	0.09		
WI	OUTAGAMIE CO	140,510	0.09		
WV	GREENBRIER CO	34,693	0.09		
CA	KINGS CO	101,469	0.089		
IN	ELKHART CO	156,198	0.089		
KY	JESSAMINE CO	30,508	0.089		
KY	PULASKI CO	49,489	0.089		
LA	ST JAMES PAR	20,879	0.089		
MI	LENAWEE CO	91,476	0.089		
MI	OAKLAND CO	1,083,592	0.089		
MI	WASHTENAW CO	282,937	0.089		
MO	PLATTE CO	57,867	0.089		
MO	ST LOUIS	396,685	0.089		
NY	NIAGARA CO	220,756	0.089		
NY	WAYNE CO	89,123	0.089		
PA	LAWRENCE CO	96,246	0.089		
SC	CHEROKEE CO	44,506	0.089		
TN	BRADLEY CO	73,712	0.089		
TN	DAVIDSON CO	510,784	0.089		
TN	HAMBLEN CO	50,480	0.089		
VA	CAROLINE CO	19,217	0.089		
VA	FAUQUIER CO	48,741	0.089		
VA	FREDERICK CO	45,723	0.089		
VA	MADISON CO	11,949	0.089		
CA	INYO CO	18,281	0.088		
CA	MONO CO	9,956	0.088		
IL	MACOUPIN CO	47,679	0.088		
IN	KOSCIUSKO CO	65,294	0.088		
IN	VIGO CO	106,107	0.088		
KY	LAWRENCE CO	13,998	0.088		
LA	GRANT PAR	17,526	0.088		
LA	ST CHARLES PAR	42,437	0.088		
MA	BERKSHIRE CO	139,352	0.088		
MA	PLYMOUTH CO	435,276	0.088		
ME	HANCOCK CO	46,948	0.088		
MI	INGHAM CO	281,912	0.088		
NC	CHATHAM CO	38,759	0.088		
NC	DURHAM CO	181,835	0.088		

2nd High

NY	ALBANY CO	292,594	0.088		
NY	CHAUTAUQUA CO	141,895	0.088		
OH	MAHONING CO	264,806	0.088		
PA	CAMBRIA CO	163,029	0.088		
SC	OCONEE CO	57,494	0.088		
SC	UNION CO	30,337	0.088		
TX	TRAVIS CO	576,407	0.088		
TX	VICTORIA CO	74,361	0.088		
WA	KING CO	1,507,319	0.088		
AL	ELMORE CO	49,210	0.087		
FL	DADE CO	1,937,094	0.087		
IL	JERSEY CO	20,539	0.087		
IL	SANGAMON CO	178,386	0.087		
LA	JEFFERSON PAR	448,306	0.087		
NC	BURKE CO	75,744	0.087		
NC	HAYWOOD CO	46,942	0.087		
NC	NORTHAMPTON CO	20,798	0.087		
NC	ROCKINGHAM CO	86,064	0.087		
NY	ONONDAGA CO	468,973	0.087		
OH	PREBLE CO	40,113	0.087		
VA	ROANOKE CO	79,332	0.087		
VA	WYTHE CO	25,466	0.087		
VT	BENNINGTON CO	35,845	0.087		
WI	SAUK CO	46,975	0.087		
WI	WALWORTH CO	75,000	0.087		
WV	HANCOCK CO	35,233	0.087		
AR	PULASKI CO	349,660	0.086		
CA	COLUSA CO	16,275	0.086		
CO	JEFFERSON CO	438,430	0.086		
GA	MUSCOGEE CO	179,278	0.086		
LA	BOSSIER PAR	86,088	0.086		
ME	WASHINGTON CO	35,308	0.086		
MS	SHARKEY CO	7,066	0.086		
NC	PITT CO	107,924	0.086		
OH	TUSCARAWAS CO	84,090	0.086		
SC	DARLINGTON CO	61,851	0.086		
AL	COLBERT CO	51,666	0.085		
CA	SOLANO CO	340,421	0.085		
FL	DUVAL CO	672,971	0.085		
IL	ST CLAIR CO	262,852	0.085		
KY	BOONE CO	57,589	0.085		
LA	CADDO PAR	248,253	0.085		
MA	SUFFOLK CO	663,906	0.085		
NC	CAMDEN CO	5,904	0.085		
NY	MONROE CO	713,968	0.085		
SC	BARNWELL CO	20,293	0.085		
WI	BROWN CO	194,594	0.085	Population	Counties
WV	OHIO CO	50,871	0.085	131,826,625	375
AL	MONTGOMERY CO	209,085	0.084		
AZ	PIMA CO	666,880	0.084		
CA	GLENN CO	24,798	0.084		
CA	YOLO CO	141,092	0.084		
FL	HILLSBOROUGH CO	834,054	0.084		
FL	ORANGE CO	677,491	0.084		
GA	FANNIN CO	15,992	0.084		
IL	EFFINGHAM CO	31,704	0.084		

2nd High

IL	WINNEBAGO CO	252,913	0.084		
KY	SIMPSON CO	15,145	0.084		
ME	PENOBSCOT CO	146,601	0.084		
MI	GENESEE CO	430,459	0.084		
NC	PERSON CO	30,180	0.084		
NV	CLARK CO	741,459	0.084		
NY	ERIE CO	968,532	0.084		
SC	ABBEVILLE CO	23,862	0.084		
SC	EDGEFIELD CO	18,375	0.084		
VA	HENRY CO	56,942	0.084		
VA	WARREN CO	26,142	0.084		
WI	DODGE CO	76,559	0.084		
AL	LAWRENCE CO	31,513	0.083		
FL	BROWARD CO	1,255,488	0.083		
FL	SARASOTA CO	277,776	0.083		
IA	SCOTT CO	150,979	0.083		
IL	MACON CO	117,206	0.083		
IL	PEORIA CO	182,827	0.083		
MI	CLINTON CO	57,883	0.083		
NY	MADISON CO	69,120	0.083		
NY	SARATOGA CO	181,276	0.083		
NY	SCHENECTADY CO	149,285	0.083		
OH	MIAMI CO	93,182	0.083		
SC	CHARLESTON CO	295,039	0.083		
UT	DAVIS CO	187,941	0.083		
WA	PIERCE CO	586,203	0.083		
WI	JEFFERSON CO	67,783	0.083		
WI	WASHINGTON CO	95,328	0.083		
WI	WAUKESHA CO	304,715	0.083		
WI	WINNEBAGO CO	140,320	0.083		
KY	MC CRACKEN CO	62,879	0.082		
LA	BEAUREGARD PAR	30,083	0.082		
LA	ORLEANS PAR	496,938	0.082		
LA	OUACHITA PAR	142,191	0.082		
LA	ST MARY PAR	58,086	0.082		
ME	KENNEBEC CO	115,904	0.082		
MN	WASHINGTON CO	145,896	0.082		
MO	MONROE CO	9,104	0.082		
MS	JACKSON CO	115,243	0.082		
MS	MADISON CO	53,794	0.082		
NH	CHESHIRE CO	70,121	0.082		
SC	AIKEN CO	120,940	0.082		
TN	MAURY CO	54,812	0.082		
UT	WEBER CO	158,330	0.082		
CA	BUTTE CO	182,120	0.081		
CA	SAN BENITO CO	36,697	0.081		
FL	SEMINOLE CO	287,529	0.081		
IL	CHAMPAIGN CO	173,025	0.081		
IL	RANDOLPH CO	34,583	0.081		
KS	WYANDOTTE CO	161,993	0.081		
KY	BELL CO	31,506	0.081		
MS	FRANKLIN CO	8,377	0.081		
NC	ALEXANDER CO	27,544	0.081		
NC	CALDWELL CO	70,709	0.081		
NC	DUPLIN CO	39,995	0.081		
NM	SANDOVAL CO	63,319	0.081		

2nd High

VA	AUGUSTA CO	54,677	0.081		
WI	COLUMBIA CO	45,088	0.081	Population	Counties
WI	FOND DU LAC CO	90,083	0.081	144,400,320	442
CA	NAPA CO	110,765	0.080		
CA	SAN LUIS OBISPO CO	217,162	0.080		
FL	POLK CO	405,382	0.080		
IA	POLK CO	327,140	0.080		
KY	PERRY CO	30,283	0.080		
MO	GREENE CO	207,949	0.080		
MS	ADAMS CO	35,356	0.080		
MS	WARREN CO	47,880	0.080		
NC	DAVIE CO	27,859	0.080		
NH	MERRIMACK CO	120,005	0.080		
NY	HAMILTON CO	5,279	0.080		
OK	COMANCHE CO	111,486	0.08		
SC	BERKELEY CO	128,776	0.08		
SC	WILLIAMSBURG CO	36,815	0.08		
TN	RUTHERFORD CO	118,570	0.08		
VT	CHITTENDEN CO	131,761	0.08		
ME	SOMERSET CO	49,767	0.079		
NY	CHEMUNG CO	95,195	0.079		
NY	ONEIDA CO	250,836	0.079		
OK	MC CLAIN CO	22,795	0.079		
TN	COFFEE CO	40,339	0.079		
WI	DANE CO	367,085	0.079		
WV	KANAWHA CO	207,619	0.079		
FL	MANATEE CO	211,707	0.078		
FL	OSCEOLA CO	107,728	0.078		
FL	PALM BEACH CO	863,518	0.078		
FL	ST JOHNS CO	83,829	0.078		
KY	EDMONSON CO	10,357	0.078		
KY	GRAVES CO	33,550	0.078		
MN	ANOKA CO	243,641	0.078		
OK	CLEVELAND CO	174,253	0.078		
UT	UTAH CO	263,590	0.078		
AL	MOBILE CO	378,643	0.077		
CO	DOUGLAS CO	60,391	0.077		
CO	LARIMER CO	186,136	0.077		
FL	BREVARD CO	398,978	0.077		
MS	LEE CO	65,581	0.077		
NC	MARTIN CO	25,078	0.077		
OR	CLACKAMAS CO	278,850	0.077		
CO	ARAPAHOE CO	391,511	0.076		
CO	BOULDER CO	225,339	0.076		
FL	LEE CO	335,113	0.076		
FL	PASCO CO	281,131	0.076		
GA	CHATHAM CO	216,935	0.076		
IL	DU PAGE CO	781,666	0.076		
PA	LYCOMING CO	118,710	0.076		
WI	MARATHON CO	115,400	0.076		
CA	MONTEREY CO	355,660	0.075		
CA	SANTA CRUZ CO	229,734	0.075		
CA	SHASTA CO	147,036	0.075		
FL	VOLUSIA CO	370,712	0.075		
ME	PISCATAQUIS CO	18,653	0.075		
MO	JACKSON CO	633,232	0.075		

2nd High

TX	CAMERON CO	260,120	0.075		
AL	SUMTER CO	16,174	0.074		
FL	PINELLAS CO	851,659	0.074		
KS	SEDGWICK CO	403,662	0.074		
NH	SULLIVAN CO	38,592	0.074		
NM	BERNALILLO CO	480,577	0.074		
NY	HERKIMER CO	65,797	0.074		
IL	ADAMS CO	66,090	0.073		
IL	ROCK ISLAND CO	148,723	0.073		
ME	OXFORD CO	52,602	0.073		
MS	HINDS CO	254,441	0.073		
MS	LAUDERDALE CO	75,555	0.073		
NC	BUNCOMBE CO	174,821	0.073		
WA	CLARK CO	238,053	0.073		
AR	NEWTON CO	7,666	0.072		
CO	WELD CO	131,821	0.072		
IA	VAN BUREN CO	7,676	0.072		
NV	WHITE PINE CO	9,264	0.072		
WI	FLORENCE CO	4,590	0.072		
AL	GENEVA CO	23,647	0.071		
CO	ADAMS CO	265,038	0.071		
NV	WASHOE CO	254,667	0.071		
OR	JACKSON CO	146,389	0.071		
WI	ST CROIX CO	50,251	0.071		
WI	VERNON CO	25,617	0.071		
MN	LAKE CO	10,415	0.070		
NV	DOUGLAS CO	27,637	0.070		
OR	LANE CO	282,912	0.07		
TX	BREWSTER CO	8,681	0.07		
WI	ONEIDA CO	31,679	0.07		
WI	POLK CO	34,773	0.07		
NC	SWAIN CO	11,268	0.069		
CA	SAN MATEO CO	649,623	0.068		
CA	SONOMA CO	388,222	0.068		
KS	SHERMAN CO	6,926	0.068		
MN	DAKOTA CO	275,227	0.068		
OR	COLUMBIA CO	37,557	0.068		
WA	SNOHOMISH CO	465,642	0.068		
WA	SPOKANE CO	361,364	0.068		
AR	MONTGOMERY CO	7,841	0.067		
AZ	COCONINO CO	96,591	0.067		
CO	DENVER CO	467,610	0.067		
MN	KOOCHICHING CO	16,299	0.067		
CA	LAKE CO	50,631	0.066		
NE	DOUGLAS CO	416,444	0.066		
UT	SAN JUAN CO	12,621	0.066		
WA	WHATCOM CO	127,780	0.066		
ND	STEELE CO	2,420	0.065		
CO	MONTEZUMA CO	18,672	0.064		
IA	LINN CO	168,767	0.064		
NM	VALENCIA CO	45,235	0.064		
CO	EL PASO CO	397,014	0.063		
ID	BUTTE CO	2,918	0.063		
CA	MENDOCINO CO	80,345	0.062		
CA	SISKIYOU CO	43,531	0.061		
CA	MARIN CO	230,096	0.060		

2nd High

ND	MC KENZIE CO	6,383	0.060		
NE	LANCASTER CO	213,641	0.060		
WY	TETON CO	11,172	0.059		
ND	MERCER CO	9,808	0.057		
ND	OLIVER CO	2,381	0.057		
WA	CLALLAM CO	56,464	0.053		
AK	YUKON-KOYUKUK CA	8,478	0.052		
CA	DEL NORTE CO	23,460	0.052		
CA	SAN FRANCISCO CO	723,959	0.051		
HI	HONOLULU CO	836,231	0.051		

Summary

Summary

	With Rounding Population	(Current convention) Counties	Without Rounding Population	Counties
Current Standard	74,469,913	104	84,874,035	143
Diff	0	0	0	0
.08, 5th high	95,440,215	250	106,871,254	331
Diff	20,970,302	146	21,997,219	188
.09, 5th high	33,816,811	64	59,893,813	126
Diff	-40,653,102	-40	-24,980,222	-17
.08, 5 exc	100,044,487	231	117,926,022	315
Diff	25,574,574	127	33,051,987	172
.09, 5 exc	40,772,699	56	63,769,381	112
Diff	-33,697,214	-48	-21,104,654	-31
.08, 3rd high	121,974,636	335	--	--
Diff	47,504,723	231	--	--
.08, 2nd high	131,826,625	375	144,400,320	442
Diff	57,356,712	271	59,526,285	299
.09, 2nd high	94,952,769	197	112,877,033	273
Diff	20,482,856	93	28,002,998	130

AL	JEFFERSON CO	651,525	0.127	
AL	SHELBY CO	99,358	0.125	
AZ	MARICOPA CO	2,122,101	0.129	
CA	ALAMEDA CO	1,279,182	0.138	
CA	CALAVERAS CO	31,998	0.121	X
CA	CONTRA COSTA CO	803,732	0.130	
CA	EL DORADO CO	125,995	0.124	X
CA	FRESNO CO	667,490	0.144	
CA	IMPERIAL CO	109,303	0.205	
CA	KERN CO	543,477	0.165	
CA	LOS ANGELES CO	8,863,164	0.250	
CA	MADERA CO	88,090	0.130	
CA	MERCED CO	178,403	0.125	
CA	ORANGE CO	2,410,556	0.170	
CA	PLACER CO	172,796	0.134	
CA	RIVERSIDE CO	1,170,413	0.220	
CA	SACRAMENTO CO	1,041,219	0.145	
CA	SAN BERNARDINO C	1,418,380	0.234	
CA	SAN DIEGO CO	2,498,016	0.146	
CA	SAN JOAQUIN CO	480,628	0.124	X
CA	SANTA BARBARA C	369,608	0.126	
CA	SANTA CLARA CO	1,497,577	0.130	
CA	STANISLAUS CO	370,522	0.130	
CA	TULARE CO	311,921	0.150	
CA	VENTURA CO	669,016	0.157	
CT	FAIRFIELD CO	827,645	0.165	
CT	HARTFORD CO	851,783	0.141	
CT	LITCHFIELD CO	174,092	0.128	
CT	MIDDLESEX CO	143,196	0.153	
CT	NEW HAVEN CO	804,219	0.149	
CT	NEW LONDON CO	254,957	0.132	
CT	TOLLAND CO	128,699	0.130	
DC	WASHINGTON	606,900	0.135	
DE	KENT CO	110,993	0.137	
DE	NEW CASTLE CO	441,946	0.139	
GA	DE KALB CO	545,837	0.147	
GA	DOUGLAS CO	71,120	0.140	
GA	FULTON CO	648,951	0.149	
GA	GWINNETT CO	352,910	0.123	X
GA	ROCKDALE CO	54,091	0.141	
IL	COOK CO	5,105,067	0.133	
IL	MADISON CO	249,238	0.125	
IN	CLARK CO	87,777	0.133	
IN	LA PORTE CO	107,066	0.131	
IN	WARRICK CO	44,920	0.131	
KY	BOYD CO	51,150	0.123	X
KY	GREENUP CO	36,742	0.121	X
KY	JEFFERSON CO	664,937	0.123	X
LA	ASCENSION PAR	58,214	0.126	

LA	CALCASIEU PAR	168,134	0.123	X
LA	EAST BATON ROUG	380,105	0.139	
LA	IBERVILLE PAR	31,049	0.125	
LA	LAFOURCHE PAR	85,860	0.127	
MA	BARNSTABLE CO	186,605	0.124	X
MA	BRISTOL CO	506,325	0.122	
MA	HAMPDEN CO	456,310	0.130	
MA	HAMPSHIRE CO	146,568	0.131	
MA	MIDDLESEX CO	1,398,468	0.125	
MA	WORCESTER CO	709,705	0.130	
MD	ANNE ARUNDEL CO	427,239	0.151	
MD	BALTIMORE	736,014	0.140	
MD	BALTIMORE CO	692,134	0.137	
MD	CARROLL CO	123,372	0.121	
MD	CECIL CO	71,347	0.146	
MD	CHARLES CO	101,154	0.122	
MD	HARFORD CO	182,132	0.141	
MD	KENT CO	17,842	0.122	
MD	MONTGOMERY CO	757,027	0.121	
MD	PRINCE GEORGES C	729,268	0.131	
ME	CUMBERLAND CO	243,135	0.122	
ME	KNOX CO	36,310	0.123	
ME	SAGadahoc CO	33,535	0.139	
ME	YORK CO	164,587	0.129	
MI	ALLEGAN CO	90,509	0.135	
MI	MACOMB CO	717,400	0.129	
MI	MASON CO	25,537	0.125	
MI	MUSKEGON CO	158,983	0.141	
MI	ST CLAIR CO	145,607	0.129	
MI	WAYNE CO	2,111,687	0.124	
MO	CLAY CO	153,411	0.128	
MO	JEFFERSON CO	171,380	0.125	
MO	ST CHARLES CO	212,907	0.147	
MO	ST LOUIS CO	993,529	0.129	
NH	ROCKINGHAM CO	245,845	0.130	
NJ	BERGEN CO	825,380	0.121	
NJ	CAMDEN CO	502,824	0.138	
NJ	CUMBERLAND CO	138,053	0.121	
NJ	GLOUCESTER CO	230,082	0.127	
NJ	HUDSON CO	553,099	0.129	
NJ	MERCER CO	325,824	0.135	
NJ	MIDDLESEX CO	671,780	0.150	
NJ	MONMOUTH CO	553,124	0.138	
NJ	MORRIS CO	421,353	0.124	
NJ	OCEAN CO	433,203	0.139	
NJ	UNION CO	493,819	0.122	
NM	DONA ANA CO	135,510	0.136	
NY	KINGS CO	2,300,664	0.131	
NY	PUTNAM CO	83,941	0.127	

NY	QUEENS CO	1,951,598	0.125	
NY	RICHMOND CO	378,977	0.125	
NY	SUFFOLK CO	1,321,864	0.138	
NY	WESTCHESTER CO	874,866	0.126	
OH	BUTLER CO	291,479	0.124	
OH	CLARK CO	147,548	0.122	

CEA Spreadsheet from EPA Crane
 Draft RIA Appendix (March)
 Sheet1

		Reductions					
Costs							
Source Category	Control Measure	VOC	NOx	VOC	NOx	VOC	NOx
Atlanta, GA							
Area Source Industrial NG Comb	RACT to small sources	0	40	0	68,692		1,717
Cement Manufacturing - Dry	LNB	0	141.1	0	118,154		837
Cement Manufacturing - Dry	SCR	0	169.3	0	1,980,056		11,696
Cement Manufacturing - Dry	SNCR - Urea based	0	141.1	0	181,642		1,287
Glass Manufacturing - Container	LNB	0	339.2	0	814,003		2,400
Glass Manufacturing - Container	Oxy-Firing	0	84.8	0	2,819,334		33,247
Glass Manufacturing - Container	SCR	0	298.8	0	1,141,514		3,846
Industrial Boiler - Distillate Oil	LNB	0	18.2	0	22,570		1,393
Industrial Boiler - Distillate Oil	LNB + FGR	0	4.5	0	44,896		9,977
Industrial Boiler - Distillate Oil	SCR	0	9.1	0	95,822		10,530
Industrial Boiler - Natural Gas	LNB	0	78.1	0	69,300		911
Industrial Boiler - Natural Gas	LNB + FGR	0	38.1	0	237,338		6,229
Industrial Boiler - Natural Gas	SCR	0	78.2	0	702,239		9,216
Industrial Boiler - PC	LNB	0	229.5	0	369,572		1,610
Industrial Boiler - PC	SCR	0	68.9	0	1,770,659		25,699
Industrial Boiler - PC	SNCR	0	45.9	0	569,962		12,417
Industrial Boiler - Residual Oil	LNB	0	175.3	0	129,287		738
Industrial Boiler - Residual Oil	LNB + FGR	0	38.3	0	209,562		5,472
Industrial Boiler - Residual Oil	SCR	0	76.6	0	545,406		7,120
Motor Vehicles	California Reform	-715	14,570.60	0	75,035,816	0	5,150
Motor Vehicles	Enhanced I/M (w/49 State	4,867.60	3,819.70	952,657	1,905,313	196	499
Motor Vehicles	Federal Reform	9,600.30	2,839.10	78,262,901	0	8,152	0
Motor Vehicles	Reform Diesel	0	520.4	0	27,274,484		52,411
Nonroad Diesels	CARB Stds for > 175 HP	0	328.6	0	2,664,317		8,158
Nonroad gasoline	Reformulated gasoline	286.4	0	1,432,000	0	5,000	
Open Burning	Episodic Ban	2,436.90	462.1	0	0	0	0
Utility Boiler - Oil-Gas/Tangential	SCR	0	3.4	0	2,423,615		712,828
	Total	16,476.20	24,608.90	80,647,558	121,193,553	4,895	4,925
Aerosols	CARB Tier 2 Standards -	42.3	0	105,864	0	2,503	
Aerosols	SCAQMD Standards - Ref	42.3	0	423,456	0	10,011	
Automobile refinishing	CARB BARCT limits	18.8	0	69,071	0	3,874	
Automobile refinishing	FIP Rule (VOC Content &	71.7	0	1,292,122	0	18,021	
marine surface coating	Add-on control levels	31.3	0	722,827	0	23,094	
Metal product surface coating	VOC content limits & impr	7.7	0	845	0	110	
Miscellaneous surface coating	Add-on control levels	3.8	0	221,789	0	58,366	
Motor Vehicles	California Reform	166.3	1,274.40	0	6,071,805	0	4,764
Nonroad gasoline	Reformulated gasoline	25.9	0	129,500	0	5,000	
Open Burning	Episodic Ban	243.5	46.2	0	0	0	0
Pesticide Application	Reformulation - FIP rule	6.7	0	62,831	0	9,378	
Point Sources	RE improvements	139.4	0	278,860	0	2,000	
Recreational vehicles	CARB standards	40.2	0	21,229	0	528	
Service stations - stage I-truck un	Vapor balance & P-V valve	321.6	0	8,040	0	25	
Wood furniture surface coating	Reformulation	8.6	0	10,454	0	1,216	
Wood product surface coating	Reformulation	0.4	0	21	0	53	
	Total	1,170.50	1,320.60	3,346,909	6,071,805	2,859	4,598
						58,366	712,828
						23,094	52,411
Bakersfield, CA							
Aerosols	CARB Tier 2 Standards -	0	0	0	0		
Aerosols	SCAQMD Standards - Ref	0	0	0	0		
Aircraft surface coating	Add-on control levels	0	0	0	0		
Automobile refinishing	CARB BARCT limits	0	0	0	0		
Automobile refinishing	FIP Rule (VOC Content &	0	0	0	0		
Metal product surface coating	VOC content limits & impr	0	0	0	0		
Miscellaneous surface coating	Add-on control levels	0	0	0	0		
Miscellaneous surface coating	MACT level of control	0	0	0	0		
Nonroad gasoline	Reformulated gasoline	0	0	0	0		

Open Burning	Episodic Ban	0	0	0	0		
Pesticide Application	Reformulation - FIP rule	0	0	0	0		
Point Sources	RE Improvements	0	0	0	0		
Recreational vehicles	CARB standards	0	0	0	0		
Service stations - stage I-truck un	Vapor balance & P-V valve	0	0	0	0		
Wood furniture surface coating	Reformulation	0	0	0	0		
Wood product surface coating	Reformulation	0.7	0	16	0	23	
	Total	0.7	0	16	0	23	
Baltimore-Washington, DC							
Adhesives - Industrial	RACT	2.9	0	7,333	0	2,529	
Aerosols	CARB Tier 2 Standards -	838.8	0	2,096,568	0	2,499	
Aerosols	SCAQMD Standards - Ref	838.9	0	8,386,272	0	9,997	
Aircraft surface coating	Add-on control levels	20.3	0	727,841	0	35,854	
Automobile refinishing	CARB BARCT limits	441.1	0	1,622,379	0	3,678	
Automobile refinishing	FIP Rule (VOC Content &	1,683.90	0	30,350,042	0	18,024	
Cutback Asphalt	Switch to emulsified asph	11.6	0	0	0	0	
marine surface coating	Add-on control levels	116.2	0	1,679,127	0	14,450	
Metal product surface coating	VOC content limits & impr	600.4	0	26,412	0	44	
Miscellaneous surface coating	Add-on control levels	260.3	0	5,369,000	0	20,626	
Miscellaneous surface coating	MACT level of control	131.2	0	327,585	0	2,497	
Motor Vehicles	Enhanced I/M (w/49 State	4,219.60	4,304.60	1,004,762	2,009,525	238	467
Motor Vehicles	Federal Reform	449.5	131	3,989,469	0	8,875	0
Nonroad gasoline	Reformulated gasoline	541.9	0	2,709,500	0	5,000	
Open Burning	Episodic Ban	829.7	158.1	0	0	0	0
Paper surface coating	Add-on control levels	40	0	2,915,609	0	72,890	
Pesticide Application	Reformulation - FIP rule	272.8	0	2,535,796	0	9,295	
Point Source Ind. Surface Coating	Add-on Control Levels	147.5	0	2,713,264	0	18,395	
Point Source Metal Surface Coating	FIP VOC Limits	824.2	0	0	0	0	
Point Source Wood Product Coating	FIP VOC Limits	7.3	0	183	0	25	
Point Sources	RE Improvements	5,980.00	0	11,960,320	0	2,000	
Recreational vehicles	CARB standards	785.1	0	416,107	0	530	
Service stations - stage I-truck un	Vapor balance & P-V valve	2,761.00	0	80,261	0	29	
Web Offset Lithography	New CTG (carbon adsorb	0.4	0	-45	0	-113	
Wood furniture surface coating	Reformulation	1,033.90	0	395,887	0	383	
Wood product surface coating	Reformulation	18.6	0	602	0	32	
	Total	22,857.10	4,593.70	79,314,274	2,009,525	3,470	437
						72,890	467
						35,854	0
Baton Rouge, LA							
Aerosols	CARB Tier 2 Standards -	5.3	0	13,278	0	2,505	
Aerosols	SCAQMD Standards - Ref	91.6	0	916,440	0	10,005	
Automobile refinishing	CARB BARCT limits	0.3	0	1,078	0	3,593	
Automobile refinishing	FIP Rule (VOC Content &	84.7	0	1,526,835	0	18,026	
marine surface coating	Add-on control levels	20.4	0	295,101	0	14,466	
Metal product surface coating	VOC content limits & impr	45.7	0	1,419	0	31	
Miscellaneous surface coating	Add-on control levels	2.3	0	160,685	0	69,863	
Miscellaneous surface coating	MACT level of control	1.8	0	4,378	0	2,432	
Motor Vehicles	Federal Reform	1,260.20	385.9	10,568,265	0	8,386	0
Nonroad gasoline	Reformulated gasoline	5	0	25,000	0	5,000	
Open burning	Seasonal/episodic ban	42.5	8.1	0	0	0	0
Paper surface coating	Add-on control levels	4.5	0	467,671	0	103,927	
Pesticide Application	Reformulation - FIP rule	36.9	0	343,654	0	9,313	
Point Sources	RE Improvements	902.3	0	1,804,560	0	2,000	
Recreational vehicles	CARB standards	23.1	0	12,266	0	531	
Service stations - stage I-truck un	Vapor balance & P-V valve	11.4	0	286	0	25	
Wood furniture surface coating	Reformulation	0	0	0	0		
Wood product surface coating	Reformulation	0	0	0	0		
	Total	2,538.00	394	16,140,916	0	6,360	0
						103,927	0
						69,863	

Beaumont, TX							
Metal product surface coating	VOC content limits & impr	43.3	0	1,746	0	40	
Open Burning	Episodic Ban	313.4	59.3	0	0	0	0
Point Source Metal Surface Coating	FIP VOC Limits	22.6	0	0	0	0	
Point Sources	RE Improvements	96,693.20	0	193,366,490	0	2,000	
Recreational vehicles	CARB standards	69.9	0	36,998	0	529	
Service stations - stage I-truck un	Vapor balance & P-V valve	220	0	5,502	0	25	
Wood furniture surface coating	Reformulation	6.7	0	9,574	0	1,429	
Wood product surface coating	Reformulation	0.8	0	27	0	34	
	Total	97,369.90	59.3	193,440,337	0	1,987	0
						2,000	
Chicago, IL							
Adhesives - industrial	RACT	17.5	0	43,823	0	2,504	
Aerosols	CARB Tier 2 Standards -	1,188.10	0	2,969,826	0	2,500	
Aerosols	SCAQMD Standards - Ref	1,188.10	0	11,879,304	0	9,999	
Aircraft surface coating	Add-on control levels	8.5	0	288,264	0	33,913	
Automobile refinishing	CARB BARCT limits	662.6	0	2,436,920	0	3,678	
Automobile refinishing	FIP Rule (VOC Content &	2,529.60	0	45,587,801	0	18,022	
Bulk Terminals	RACT	89	0	148,271	0	1,666	
Cutback Asphalt	Switch to emulsified asph	27.3	0	0	0	0	
marine surface coating	Add-on control levels	99.5	0	1,440,735	0	14,480	
Metal product surface coating	VOC content limits & impr	3,362.50	0	119,678	0	36	
Miscellaneous surface coating	Add-on control levels	1,416.80	0	36,920,959	0	26,059	
Miscellaneous surface coating	MACT level of control	1,271.30	0	3,177,986	0	2,500	
Motor Vehicles	California Reform	3,819.60	21,388.40	0	110,921,385	0	5,186
Motor Vehicles	Enhanced I/M (w/49 State	357.5	304.4	75,325	150,650	211	495
Motor Vehicles	Federal Reform	70.8	24.8	679,832	0	9,602	0
Nonroad gasoline	Reformulated gasoline	567.8	0	2,839,000	0	5,000	
Open Burning	Episodic Ban	2,378.80	451.4	0	0	0	0
Paper surface coating	Add-on control levels	25.4	0	2,636,415	0	103,796	
Pesticide Application	Reformulation - FIP rule	314.4	0	2,923,605	0	9,299	
Point Source Ind. Surface Coating	Add-on Control Levels	3,315.70	0	81,008,144	0	18,400	
Point Source Metal Surface Coating	FIP VOC Limits	6,953.00	0	0	0	0	
Point Source Wood Product Coating	FIP VOC Limits	78.8	0	1,971	0	25	
Point Sources	RE Improvements	9,246.90	0	18,493,820	0	2,000	
Recreational vehicles	CARB standards	1,358.20	0	719,732	0	530	
Service stations - stage I-truck un	Vapor balance & P-V valve	3,158.00	0	139,715	0	44	
Web Offset Lithography	New CTG (carbon adsorb	2.6	0	-326	0	-125	
Wood furniture surface coating	Reformulation	1,097.10	0	1,485,499	0	1,354	
Wood product surface coating	Reformulation	25.3	0	650	0	26	
	Total	44,630.70	22,169.00	196,016,949	111,072,035	4,392	5,010
						103,796	5,186
						33,913	
Cincinnati, OH							
Adhesives - industrial	RACT	79.4	0	198,526	0	2,500	
Aerosols	CARB Tier 2 Standards -	270.2	0	675,798	0	2,501	
Aerosols	SCAQMD Standards - Ref	270.2	0	2,703,192	0	10,004	
Aircraft surface coating	Add-on control levels	51.8	0	1,873,198	0	36,162	
Automobile refinishing	CARB BARCT limits	100.6	0	370,237	0	3,680	
Automobile refinishing	FIP Rule (VOC Content &	384.2	0	6,926,038	0	18,027	
Bulk Terminals	RACT	134.5	0	224,072	0	1,666	
Cutback Asphalt	Switch to emulsified asph	70	0	0	0	0	
marine surface coating	Add-on control levels	9.9	0	143,004	0	14,445	
Metal product surface coating	VOC content limits & impr	233.8	0	6,817	0	29	
Miscellaneous surface coating	Add-on control levels	323.3	0	11,922,127	0	36,876	
Miscellaneous surface coating	MACT level of control	42.5	0	106,099	0	2,496	
Motor Vehicles	California Reform	955.8	6,134.80	0	30,656,109	0	4,997
Motor Vehicles	Enhanced I/M (w/49 State	18,368.90	13,119.30	675,395	1,350,789	37	103
Motor Vehicles	Federal Reform	3,876.30	938.1	26,812,203	0	6,917	0
Nonroad gasoline	Reformulated gasoline	138.6	0	693,000	0	5,000	

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Open Burning	Episodic Ban	1,973.10	375.1	0	0	0	0
Paper surface coating	Add-on control levels	43	0	3,019,753	0	70,227	
Pesticide Application	Reformulation - FIP rule	95.9	0	890,829	0	9,289	
Point Source Ind. Surface Coating	Add-on Control Levels	155.1	0	2,854,300	0	18,403	
Point Source Metal Surface Coating	FIP VOC Limits	455.9	0	0	0	0	
Point Sources	RE Improvements	857.1	0	1,714,040	0	2,000	
Recreational vehicles	CARB standards	202.5	0	107,319	0	530	
Service stations - stage I-truck un	Vapor balance & P-V valve	852.4	0	119,528	0	140	
Web Offset Lithography	New CTG (carbon adsorb	8	0	-989	0	-124	
Wood furniture surface coating	Reformulation	748.9	0	315,871	0	423	
Wood product surface coating	Reformulation	8.7	0	228	0	28	
	Total	30,708.60	20,567.30	62,350,583	32,008,898	2,030	1,556
						70,227	4,997
						36,878	
Dallas, TX							
Adhesives - industrial	RACT	208.5	0	516,108	0	2,499	
Aerosols	CARB Tier 2 Standards -	569.3	0	1,423,242	0	2,500	
Aerosols	SCAQMD Standards - Ref	569.2	0	5,692,968	0	10,002	
Aircraft surface coating	Add-on control levels	10.9	0	344,747	0	31,628	
Automobile refinishing	CARB BARCT limits	275.8	0	1,014,479	0	3,678	
Automobile refinishing	FIP Rule (VOC Content &	1,053.20	0	18,977,998	0	18,019	
Bulk Terminals	RACT	443.3	0	738,704	0	1,666	
Cutback Asphalt	Switch to emulsified asph	348.1	0	0	0	0	
marine surface coating	Add-on control levels	15.1	0	218,518	0	14,471	
Metal product surface coating	VOC content limits & impr	1,160.40	0	41,375	0	36	
Miscellaneous surface coating	Add-on control levels	738	0	17,418,524	0	23,602	
Miscellaneous surface coating	MACT level of control	836.2	0	2,090,260	0	2,500	
Motor Vehicles	Enhanced I/M (w/49 State	32,776.90	29,743.00	2,029,995	4,059,989	62	137
Motor Vehicles	Federal Reform	1,320.50	283.2	7,756,926	0	5,874	0
Nonroad gasoline	Reformulated gasoline	478.5	0	2,392,500	0	5,000	
Oil and natural gas production fiel	RACT (equipment/mainten	34.9	0	13,809	0	396	
Open Burning	Episodic Ban	2,152.80	408.2	0	0	0	0
Paper surface coating	Add-on control levels	69.3	0	6,065,109	0	87,520	
Pesticide Application	Reformulation - FIP rule	153.4	0	1,426,100	0	9,297	
Petroleum refinery fugitives	RACT	167.1	0	-75,186	0	-450	
Pharmaceutical manufacture	RACT	1.3	0	417	0	321	
Point Source Ind. Surface Coating	Add-on Control Levels	4,042.70	0	74,386,416	0	18,400	
Point Source Metal Surface Coating	FIP VOC Limits	204	0	0	0	0	
Point Source Open Burning	Episodic Ban	9.1	0	0	0	0	
Point Source Wood Product Coating	FIP VOC Limits	208	0	5,202	0	25	
Point Sources	RE Improvements	14,125.20	0	28,250,270	0	2,000	
Recreational vehicles	CARB standards	781.1	0	403,346	0	530	
Service stations - stage I-truck un	Vapor balance & P-V valve	2,505.10	0	592,835	0	237	
SOCMI batch reactor processes	New CTG	1.7	0	7,007	0	4,122	
SOCMI fugitives	RACT	1	0	141	0	141	
Web Offset Lithography	New CTG (carbon adsorb	30.3	0	-3,789	0	-125	
Wood furniture surface coating	Reformulation ;	695	0	586,526	0	844	
Wood product surface coating	Reformulation	15	0	857	0	57	
	Total	65,978.90	30,434.40	172,315,404	4,059,989	2,612	133
						87,520	
						31,628	
Eugene, OR							
Adhesives - industrial	RACT	398.9	0	997,164	0	2,500	
Aerosols	CARB Tier 2 Standards -	67.3	0	168,276	0	2,500	
Automobile refinishing	CARB BARCT limits	27.4	0	100,653	0	3,673	
Bulk Terminals	RACT	173.6	0	289,200	0	1,666	
Cutback Asphalt	Switch to emulsified asph	351.5	0	0	0	0	
Metal product surface coating	VOC content limits & impr	92.8	0	2,314	0	25	
Miscellaneous surface coating	MACT level of control	49.2	0	122,853	0	2,497	
Motor Vehicles	Enhanced I/M	2,659.90	2,365.10	951,535	1,903,069	358	805
Nonroad gasoline	Reformulated gasoline	34.8	0	174,000	0	5,000	
Oil and natural gas production fiel	RACT (equipment/mainten	1.2	0	470	0	392	

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Open Burning	Episodic Ban	473.9	89.9	0	0	0	0
Recreational vehicles	CARB standards	75.8	0	40,095	0	529	
Service stations - stage I-truck un	Vapor balance & P-V valve	358.9	0	186,182	0	519	
Web Offset Lithography	New CTG (carbon adsorb	67.8	0	-8,447	0	-125	
Wood furniture surface coating	Reformulation	114.8	0	43,029	0	375	
Wood product surface coating	Reformulation	58.6	0	1,464	0	25	
	Total	5,006.20	2,455.00	3,068,788	1,903,069	613	775
						5,000	
Fairfield, CT							
Aerosols	CARB Tier 2 Standards -	104.9	0	262,200	0	2,500	
Aerosols	SCAQMD Standards - Ref	104.9	0	1,048,800	0	9,998	
Automobile refinishing	FIP Rule (VOC Content &	173.8	0	5,062,064	0	29,126	
Metal product surface coating	VOC content limits & Impr	82.5	0	11,089	0	134	
Miscellaneous surface coating	Add-on control levels	45	0	2,937,767	0	65,284	
Motor Vehicles	California Reform	414.2	2,580.70	0	14,343,658	0	5,558
Nonroad gasoline	Reformulated gasoline	71.6	0	358,000	0	5,000	
Paper surface coating	Add-on control levels	3.1	0	313,572	0	101,152	
Pesticide Application	Reformulation - FIP rule	1	0	8,816	0	8,816	
Point Source Ind. Surface Coating	Add-on Control Levels	39.4	0	725,328	0	18,409	
Recreational vehicles	CARB standards	218	0	115,514	0	530	
Service stations - stage I-truck un	Vapor balance & P-V valve	349.8	0	8,745	0	25	
Wood furniture surface coating	Reformulation	23.6	0	37,782	0	1,601	
Wood product surface coating	Reformulation	3.1	0	80	0	26	
	Total	1,634.90	2,580.70	10,889,757	14,343,658	6,661	5,558
						101,152	5,558
						65,284	
Fresno, CA							
Adhesives - industrial	RACT	14.2	0	35,444	0	2,496	
Aerosols	CARB Tier 2 Standards -	119.6	0	298,638	0	2,497	
Aerosols	SCAQMD Standards - Ref	119.6	0	1,194,552	0	9,988	
Automobile refinishing	CARB BARCT limits	58.9	0	217,170	0	3,687	
Automobile refinishing	FIP Rule (VOC Content &	225.5	0	4,062,635	0	18,016	
Bulk Terminals	RACT	57.2	0	95,380	0	1,667	
Cutback Asphalt	Switch to emulsified asph	57	0	0	0	0	
marine surface coating	Add-on control levels	11.1	0	160,048	0	14,419	
Metal product surface coating	VOC content limits & Impr	77.5	0	1,931	0	25	
Miscellaneous surface coating	Add-on control levels	93.8	0	1,460,681	0	15,606	
Miscellaneous surface coating	MACT level of control	27.8	0	69,321	0	2,494	
Motor Vehicles	Enhanced I/M	750.9	1,264.00	298,651	597,301	398	473
Nonroad gasoline	Reformulated gasoline	63	0	315,000	0	5,000	
Open Burning	Episodic Ban	276.4	52.4	0	0	0	0
Paper surface coating	Add-on control levels	4.5	0	298,193	0	66,265	
Pesticide Application	Reformulation - FIP rule	742.3	0	6,903,465	0	9,300	
Point Source Metal Surface Coating	FIP VOC Limits	52.8	0	0	0	0	
Point Sources	RE Improvements	3,519.30	0	7,038,660	0	2,000	
Recreational vehicles	CARB standards	60.8	0	32,225	0	530	
Service stations - stage I-truck un	Vapor balance & P-V valve	454.2	0	103,431	0	228	
Web Offset Lithography	New CTG (carbon adsorb	4.1	0	-508	0	-124	
Wood furniture surface coating	Reformulation	102.1	0	38,279	0	375	
Wood product surface coating	Reformulation	6.2	0	154	0	25	
	Total	6,898.40	1,316.40	22,623,350	597,301	3,280	454
						66,265	473
						18,016	
Grand Rapids, MI							
Adhesives - industrial	RACT	130.6	0	326,390	0	2,499	
Aerosols	CARB Tier 2 Standards -	102.6	0	256,368	0	2,499	
Aerosols	SCAQMD Standards - Ref	102.6	0	1,025,472	0	9,995	
Aircraft surface coating	Add-on control levels	3.7	0	132,865	0	35,909	
Automobile refinishing	CARB BARCT limits	62.2	0	228,904	0	3,680	
Automobile refinishing	FIP Rule (VOC Content &	237.6	0	4,282,146	0	18,023	

Cutback Asphalt	Switch to emulsified asph	85.3	0	0	0	0	
marine surface coating	Add-on control levels	68.1	0	985,510	0	14,472	
Metal product surface coating	VOC content limits & impr	199.1	0	4,981	0	25	
Miscellaneous surface coating	Add-on control levels	1,366.50	0	31,117,326	0	22,772	
Motor Vehicles	California Reform	364.8	2,984.10	0	13,408,026	0	4,493
Motor Vehicles	Enhanced I/M (w/49 State	8,035.80	5,841.00	409,302	818,603	51	140
Motor Vehicles	Federal Reform	1,844.40	488.6	13,996,171	0	7,588	0
Nonroad gasoline	Reformulated gasoline	101.6	0	508,000	0	5,000	
Oil and natural gas production fiel	RACT (equipment/mainten	37.2	0	14,770	0	397	
Open Burning	Episodic Ban	648.1	122.9	0	0	0	0
Paper surface coating	Add-on control levels	22.2	0	1,402,309	0	63,167	
Pesticide Application	Reformulation - FIP rule	72.5	0	673,506	0	9,290	
Pharmaceutical manufacture	RACT	138.2	0	46,285	0	335	
Point Sources	RE Improvements	6,025.10	0	12,050,110	0	2,000	
Recreational vehicles	CARB standards	548.1	0	290,468	0	530	
Service stations - stage I-truck un	Vapor balance & P-V valve	292.2	0	7,305	0	25	
Web Offset Lithography	New CTG (carbon adsorb	8.5	0	-1,067	0	-126	
Wood furniture surface coating	Reformulation	4,967.90	0	1,862,987	0	375	
Wood product surface coating	Reformulation	6.5	0	298	0	46	
	Total	25,471.20	9,436.60	69,620,406	14,226,629	2,733	1,508
						63,167	4,493
						35,909	
Hartford, CT							
Aerosols	CARB Tier 2 Standards -	159	0	397,518	0	2,500	
Aerosols	SCAQMD Standards - Ref	159.1	0	1,590,072	0	9,994	
Aircraft surface coating	Add-on control levels	116.4	0	6,094,635	0	52,359	
Automobile refinishing	FIP Rule (VOC Content &	298.6	0	8,697,450	0	29,127	
Metal product surface coating	VOC content limits & impr	103.8	0	13,957	0	134	
Miscellaneous surface coating	Add-on control levels	88.4	0	6,479,450	0	73,297	
Motor Vehicles	California Reform	708	4,400.20	0	22,365,569	0	5,083
Nonroad gasoline	Reformulated gasoline	112.5	0	562,500	0	5,000	
Open Burning	Episodic Ban	890.4	168.9	0	0	0	0
Paper surface coating	Add-on control levels	22.7	0	2,278,121	0	100,358	
Pesticide Application	Reformulation - FIP rule	15.3	0	141,676	0	9,260	
Point Source Ind. Surface Coating	Add-on Control Levels	5.8	0	107,456	0	18,527	
Point Source Metal Surface Coating	FIP VOC Limits	102.9	0	0	0	0	
Recreational vehicles	CARB standards	342	0	181,179	0	530	
Service stations - stage I-truck un	Vapor balance & P-V valve	508.9	0	12,723	0	25	
Wood furniture surface coating	Reformulation	92	0	146,938	0	1,597	
Wood product surface coating	Reformulation	5.5	0	136	0	25	
	Total	3,731.30	4,569.10	26,703,811	22,365,569	7,157	4,895
						100,358	5,083
						73,297	
Houston, TX							
Adhesives - industrial	RACT	27.2	0	68,115	0	2,504	
Aerosols	CARB Tier 2 Standards -	17.9	0	44,754	0	2,500	
Aerosols	SCAQMD Standards - Ref	17.8	0	179,016	0	10,057	
Automobile refinishing	CARB BARCT limits	2.7	0	10,196	0	3,776	
Automobile refinishing	FIP Rule (VOC Content &	10.6	0	190,748	0	17,995	
Bulk Terminals	RACT	203.7	0	339,507	0	1,667	
Cutback Asphalt	Switch to emulsified asph	112.6	0	0	0	0	
marine surface coating	Add-on control levels	0	0	0	0		
Metal product surface coating	VOC content limits & impr	5.1	0	129	0	25	
Miscellaneous surface coating	Add-on control levels	2.6	0	46,902	0	18,039	
Miscellaneous surface coating	MACT level of control	2.2	0	5,479	0	2,490	
Motor Vehicles	Enhanced I/M (w/49 State	1,635.50	1,168.20	291,551	583,101	178	499
Motor Vehicles	Federal Reform	456.6	99	2,622,337	0	5,743	0
Nonroad gasoline	Reformulated gasoline	13.7	0	68,500	0	5,000	
Oil and natural gas production fiel	RACT (equipment/mainten	11.8	0	4,674	0	396	
Open burning	Seasonal/episodic ban	73.7	13.8	0	0	0	0
Paper surface coating	Add-on control levels	0	0	0	0		
Pesticide Application	Reformulation - FIP rule	105.6	0	981,616	0	9,296	

Point Source Ind. Surface Coating	Add-on Control Levels	85	0	1,564,828	0	18,410	
Point Source Metal Surface Coating	FIP VOC Limits	0	0	0	0		
Point Source Wood Product Coating	FIP VOC Limits	62.8	0	1,570	0	25	
Point Sources	RE Improvements	0	0	0	0		
Recreational vehicles	CARB standards	21.5	0	11,363	0	529	
Service stations - stage I-truck un	Vapor balance & P-V valve	260.9	0	195,467	0	749	
Web Offset Lithography	New CTG (carbon adsorb	10.5	0	-1,319	0	-126	
Wood furniture surface coating	Reformulation	12.1	0	4,536	0	375	
Wood product surface coating	Reformulation	1.5	0	38	0	25	
	Total	3,153.80	1,281.00	6,630,007	583,101	2,102	455
						18,410	499
						18,039	
Huntington, WV							
Adhesives - Industrial	RACT	23.8	0	59,522	0	2,501	
Aerosols	CARB Tier 2 Standards -	51.1	0	127,602	0	2,497	
Aerosols	SCAQMD Standards - Ref	51.1	0	510,408	0	9,988	
Automobile refinishing	CARB BARCT limits	12.6	0	46,575	0	3,696	
Automobile refinishing	FIP Rule (VOC Content &	48.4	0	871,265	0	18,001	
Bulk Terminals	RACT	36.6	0	60,913	0	1,664	
Cutback Asphalt	Switch to emulsified asph	77.5	0	0	0	0	
marine surface coating	Add-on control levels	5.7	0	82,393	0	14,455	
Metal product surface coating	VOC content limits & impr	43.3	0	1,721	0	40	
Miscellaneous surface coating	Add-on control levels	10	0	164,121	0	16,412	
Miscellaneous surface coating	MACT level of control	13.7	0	34,223	0	2,498	
Motor Vehicles	California Reform	145.1	1,267.40	0	5,466,889	0	4,313
Motor Vehicles	Enhanced I/M (w/49 State	3,256.80	2,435.50	263,196	526,392	81	216
Motor Vehicles	Federal Reform	729.3	205.3	5,708,990	0	7,828	0
Nonroad gasoline	Reformulated gasoline	23.7	0	118,500	0	5,000	
Oil and natural gas production fiel	RACT (equipment/mainten	0.5	0	188	0	376	
Open Burning	Episodic Ban	443	83.6	0	0	0	0
Paper surface coating	Add-on control levels	0.5	0	38,060	0	76,120	
Pesticide Application	Reformulation - FIP rule	4.3	0	39,618	0	9,213	
Point Source Ind. Surface Coating	Add-on Control Levels	12.4	0	228,344	0	18,415	
Point Sources	RE Improvements	6,281.00	0	12,561,840	0	2,000	
Recreational vehicles	CARB standards	34	0	18,019	0	530	
Service stations - stage I-truck un	Vapor balance & P-V valve	241.6	0	93,577	0	387	
SOCMI batch reactor processes	New CTG	105.1	0	426,152	0	4,055	
SOCMI fugitives	RACT	61.3	0	8,345	0	136	
Web Offset Lithography	New CTG (carbon adsorb	8.7	0	-1,087	0	-125	
Wood furniture surface coating	Reformulation	26.8	0	10,523	0	393	
	Total	11,747.90	3,991.80	21,473,008	5,993,281	1,828	1,501
						76,120	4,313
						18,415	216
Knoxville, TN							
Adhesives - industrial	RACT	329.4	0	823,688	0	2,501	
Aerosols	CARB Tier 2 Standards -	108.5	0	271,524	0	2,503	
Aerosols	SCAQMD Standards - Ref	108.5	0	1,086,096	0	10,010	
Aircraft surface coating	Add-on control levels	4	0	125,719	0	31,430	
Area Source Industrial Coal Comb	RACT to small sources	0	22.7	0	88,259		3,888
Area Source Industrial Oil Comb	RACT to small sources	0	0.8	0	1,758		2,198
Automobile refinishing	CARB BARCT limits	33.1	0	121,990	0	3,685	
Automobile refinishing	FIP Rule (VOC Content &	126.6	0	2,282,141	0	18,026	
Cement Manufacturing - Dry	LNB	0	262.9	0	210,670		801
Cement Manufacturing - Dry	SCR	0	315.5	0	3,530,444		11,190
Cement Manufacturing - Dry	SNCR - Urea based	0	262.9	0	323,865		1,232
Commercial Marine Vessels	Emission Fees	0	33.2	0	331,535		9,986
Cutback Asphalt	Switch to emulsified asph	280.6	0	0	0	0	
Industrial Boiler - Distillate Oil	LNB	0	2.2	0	3,080		1,400
Industrial Boiler - Distillate Oil	LNB + FGR	0	0.5	0	4,283		8,566
Industrial Boiler - Distillate Oil	SCR	0	0.9	0	9,136		10,151
Industrial Boiler - Natural Gas	LNB	0	31.2	0	28,823		924
Industrial Boiler - Natural Gas	LNB + FGR	0	6.2	0	38,107		6,146

Industrial Boiler - Natural Gas	SCR	0	12.6	0	112,742		8,948
Industrial Boiler - PC	LNB	0	884.5	0	1,421,744		1,607
Industrial Boiler - PC	SCR	0	265.4	0	6,811,724		25,666
Industrial Boiler - PC	SNCR	0	176.9	0	2,192,644		12,395
Industrial Boiler - Residual Oil	LNB	0	16.2	0	12,168		751
Industrial Boiler - Residual Oil	LNB + FGR	0	6.2	0	34,572		5,576
Industrial Boiler - Residual Oil	SCR	0	12.6	0	89,980		7,141
Industrial Boiler - Stoker	SCR	0	90.9	0	905,202		9,958
Industrial Boiler - Stoker	SNCR	0	113.6	0	244,779		2,155
marine surface coating	Add-on control levels	122.4	0	1,771,300	0	14,471	
Metal product surface coating	VOC content limits & Impr	167.1	0	8,216	0	49	
Miscellaneous surface coating	Add-on control levels	179.3	0	8,570,343	0	47,799	
Miscellaneous surface coating	MACT level of control	32.9	0	82,138	0	2,497	
Motor Vehicles	California Reform	-113.2	3,111.80	0	14,082,175	0	4,525
Motor Vehicles	Enhanced I/M (w/49 State	8,942.20	6,407.40	1,648,631	3,297,263	184	515
Motor Vehicles	Federal Reform	1,943.40	541.8	14,703,239	0	7,566	0
Motor Vehicles	Reform Diesel	0	131	0	6,648,656		50,753
Nonroad Diesels	CARB Stds for > 175 HP	0	67.8	0	553,880		8,169
Nonroad gasoline	Reformulated gasoline	58.7	0	293,500	0	5,000	
Open Burning	Episodic Ban	938.2	177.9	0	0	0	0
Paper surface coating	Add-on control levels	13.5	0	308,857	0	22,878	
Pesticide Application	Reformulation - FIP rule	9.3	0	86,601	0	9,312	
Point Source Ind. Surface Coating	Add-on Control Levels	864	0	15,896,772	0	18,399	
Process Heaters - Natural Gas	LNB + SCR	0	10.9	0	304,598		27,945
Process Heaters - Natural Gas	ULNB	0	62.7	0	40,020		638
Recreational vehicles	CARB standards	42.8	0	22,703	0	530	
Service stations - stage I-truck un	Vapor balance & P-V valve	358.2	0	8,956	0	25	
Web Offset Lithography	New CTG (carbon adsorb	79.9	0	-9,997	0	-125	
Wood furniture surface coating	Reformulation	284.6	0	106,743	0	375	
Wood product surface coating	Reformulation	2.1	0	135	0	64	
	Total	14,916.10	13,029.20	48,209,295	41,322,107	3,232	3,171
						76,120	50,753
						47,799	27,945
Los Angeles, CA							
Aerosols	CARB Tier 2 Standards -	0	0	0	0		
Aerosols	SCAQMD Standards - Ref	0	0	0	0		
Aircraft surface coating	Add-on control levels	0	0	0	0		
Automobile refinishing	CARB BARCT limits	0	0	0	0		
Automobile refinishing	FIP Rule (VOC Content &	0	0	0	0		
marine surface coating	Add-on control levels	0	0	0	0		
Metal product surface coating	VOC content limits & Impr	0	0	0	0		
Miscellaneous surface coating	Add-on control levels	0	0	0	0		
Miscellaneous surface coating	MACT level of control	0	0	0	0		
Nonroad gasoline	Reformulated gasoline	0	0	0	0		
Open Burning	Episodic Ban	0	0	0	0		
Paper surface-coating	Add-on control levels	0	0	0	0		
Pesticide Application	Reformulation - FIP rule	0	0	0	0		
Point Source Ind. Surface Coating	Add-on Control Levels	0	0	0	0		
Point Source Metal Surface Coating	FIP VOC Limits	0	0	0	0		
Point Source Wood Product Coating	FIP VOC Limits	0	0	0	0		
Point Sources	RE Improvements	0	0	0	0		
Recreational vehicles	CARB standards	0	0	0	0		
Service stations - stage I-truck un	Vapor balance & P-V valve	0	0	0	0		
Wood furniture surface coating	Reformulation	0	0	0	0		
Wood product surface coating	Reformulation	0	0	0	0		
	Total	0	0	0	0		
Manitowoc, WI							
Aerosols	CARB Tier 2 Standards -	19.9	0	49,596	0	2,492	
Aerosols	SCAQMD Standards - Ref	19.9	0	198,384	0	9,969	
Automobile refinishing	CARB BARCT limits	8.1	0	29,881	0	3,689	

Automobile refinishing	FIP Rule (VOC Content &	31	0	558,983	0	18,032	
marine surface coating	Add-on control levels	96.5	0	1,395,871	0	14,465	
Metal product surface coating	VOC content limits & impr	34.7	0	865	0	25	
Miscellaneous surface coating	Add-on control levels	31.5	0	547,300	0	17,375	
Miscellaneous surface coating	MACT level of control	56.8	0	142,041	0	2,501	
Motor Vehicles	California Reform	56.6	580.5	0	2,299,274	0	3,961
Motor Vehicles	Enhanced I/M (w/49 State	1,274.40	1,030.20	91,780	183,560	72	178
Motor Vehicles	Federal Reform	304.4	88.5	2,403,498	0	7,896	0
Nonroad gasoline	Reformulated gasoline	15.4	0	77,000	0	5,000	
Open Burning	Episodic Ban	163.5	30.9	0	0	0	0
Paper surface coating	Add-on control levels	1.1	0	75,421	0	68,565	
Pesticide Application	Reformulation - FIP rule	34.9	0	324,459	0	9,297	
Point Source Ind. Surface Coating	Add-on Control Levels	104.4	0	1,920,776	0	18,398	
Point Source Metal Surface Coating	FIP VOC Limits	16.4	0	0	0	0	
Point Source Wood Product Coating	FIP VOC Limits	17.9	0	447	0	25	
Recreational vehicles	CARB standards	40.7	0	21,584	0	530	
Service stations - stage I-truck un	Vapor balance & P-V valve	48.6	0	1,220	0	25	
Web Offset Lithography	New CTG (carbon adsorb	2.5	0	-312	0	-125	
Wood furniture surface coating	Reformulation	116.4	0	43,659	0	375	
Wood product surface coating	Reformulation	2	0	50	0	25	
	Total	2,497.60	1,730.10	7,882,503	2,482,834	3,156	1,435
						68,565	3,961
						18,398	
Modesto, CA							
Aerosols	CARB Tier 2 Standards -	46.7	0	116,760	0	2,500	
Aerosols	SCAQMD Standards - Ref	46.7	0	467,040	0	10,001	
Automobile refinishing	CARB BARCT limits	30	0	110,381	0	3,679	
Automobile refinishing	FIP Rule (VOC Content &	114.6	0	2,064,926	0	18,019	
Metal product surface coating	VOC content limits & impr	352.8	0	8,725	0	25	
Miscellaneous surface coating	Add-on control levels	64.2	0	1,006,908	0	15,684	
Miscellaneous surface coating	MACT level of control	17.1	0	42,760	0	2,501	
Nonroad gasoline	Reformulated gasoline	25.1	0	125,500	0	5,000	
Open Burning	Episodic Ban	97.6	18.5	0	0	0	0
Paper surface coating	Add-on control levels	9.4	0	632,619	0	67,300	
Pesticide Application	Reformulation - FIP rule	108.9	0	1,012,621	0	9,299	
Point Source Ind. Surface Coating	Add-on Control Levels	74.1	0	1,363,348	0	18,399	
Point Source Metal Surface Coating	FIP VOC Limits	61	0	0	0	0	
Recreational vehicles	CARB standards	24.4	0	12,907	0	529	
Service stations - stage I-truck un	Vapor balance & P-V valve	131.9	0	3,297	0	25	
Wood furniture surface coating	Reformulation	78.4	0	29,408	0	375	
Wood product surface coating	Reformulation	2.5	0	63	0	25	
	Total	1,285.40	18.5	6,997,263	0	5,444	0
						67,300	
						18,399	
Muskegon, MI							
Aerosols	CARB Tier 2 Standards -	22.1	0	55,344	0	2,504	
Aerosols	SCAQMD Standards - Ref	22.1	0	221,376	0	10,017	
Aircraft surface coating	Add-on control levels	1.9	0	67,602	0	35,580	
Automobile refinishing	CARB BARCT limits	11.9	0	43,723	0	3,674	
Automobile refinishing	FIP Rule (VOC Content &	45.4	0	817,916	0	18,016	
Miscellaneous surface coating	Add-on control levels	98.5	0	3,018,808	0	30,648	
Motor Vehicles	California Reform	60.2	608.9	0	2,717,140	0	4,462
Motor Vehicles	Enhanced I/M (w/49 State	1,589.50	1,175.30	47,591	95,182	30	81
Motor Vehicles	Federal Reform	350.5	99.1	2,836,015	0	8,091	0
Nonroad gasoline	Reformulated gasoline	20.9	0	104,500	0	5,000	
Open Burning	Episodic Ban	190.1	35.9	0	0	0	0
Paper surface coating	Add-on control levels	6.2	0	414,248	0	66,814	
Pesticide Application	Reformulation - FIP rule	8.6	0	79,850	0	9,285	
Recreational vehicles	CARB standards	111.9	0	59,310	0	530	
Service stations - stage I-truck un	Vapor balance & P-V valve	63.7	0	1,594	0	25	
Wood furniture surface coating	Reformulation	406.8	0	152,532	0	375	
	Total	3,010.30	1,919.20	7,920,409	2,812,322	2,631	1,465

Sheet1

						66,814	4,462
						35,580	
Nashville, TN							
Area Source Industrial Coal Comb	RACT to small sources	0	27.7	0	107,750		3,890
Area Source Industrial Oil Comb	RACT to small sources	0	0.5	0	1,073		2,146
Commercial Marine Vessels	Emission Fees	0	27.6	0	274,516		9,946
Gas Turbines - Natural Gas	SCR + STEAM INJECTIO	0	37.3	0	801,585		21,490
Gas Turbines - Oil	SCR + WATER INJECTIO	0	246.5	0	5,652,452		22,931
IC Engines - Natural Gas	NSCR	0	491.3	0	1,241,469		2,527
Industrial Boiler - Distillate Oil	LNB + FGR	0	6.3	0	64,698		10,270
Industrial Boiler - Distillate Oil	SCR	0	12.6	0	138,075		10,958
Industrial Boiler - Natural Gas	LNB	0	8.8	0	6,100		897
Industrial Boiler - Natural Gas	LNB + FGR	0	69	0	438,362		6,353
Industrial Boiler - Natural Gas	SCR	0	138	0	1,297,032		9,399
Industrial Boiler - PC	SCR	0	66.6	0	1,794,222		26,940
Industrial Boiler - PC	SNCR	0	44.4	0	577,548		13,008
Industrial Boiler - Residual Oil	LNB + FGR	0	1.7	0	9,893		5,819
Industrial Boiler - Residual Oil	SCR	0	3.5	0	25,747		7,356
Industrial Boiler - Stoker	SCR	0	39.7	0	413,030		10,404
Motor Vehicles	California Reform	-162.8	4,007.30	0	20,150,267	0	5,028
Motor Vehicles	Enhanced I/M (w/49 State	11,604.10	8,719.20	567,807	1,135,614	49	130
Motor Vehicles	Federal Reform	2,630.30	768.2	21,020,978	0	7,992	0
Motor Vehicles	Reform Diesel	0	152.3	0	7,739,306		50,816
Municipal Waste Combustors	SNCR	0	131.6	0	439,269		3,338
Nonroad Diesels	CARB Stds for > 175 HP	0	104.6	0	852,643		8,151
Nonroad gasoline	Reformulated gasoline	91.6	0	458,000	0	5,000	
Open Burning	Episodic Ban	746.4	141.4	0	0	0	0
Process Heaters - Distillate Oil	LNB + SCR	0	0	0	1,637		
Process Heaters - Natural Gas	LNB + SCR	0	5.4	0	170,509		31,576
Process Heaters - Natural Gas	ULNB	0	5.9	0	3,734		633
	Total	14,909.60	15,255.40	22,046,785	43,336,531	1,479	2,841
						7,992	50,816
							31,576
New London, CT							
Aerosols	CARB Tier 2 Standards -	158.8	0	396,912	0	2,499	
Aerosols	SCAQMD Standards - Ref	158.8	0	1,587,648	0	9,998	
Aircraft surface coating	Add-on control levels	13.4	0	704,628	0	52,584	
Automobile refinishing	CARB BARCT limits	6.5	0	24,006	0	3,693	
Automobile refinishing	FIP Rule (VOC Content &	238.2	0	6,660,863	0	27,963	
marine surface coating	Add-on control levels	2.9	0	41,886	0	14,443	
Metal product surface coating	VOC content limits & impr	283.2	0	16,501	0	58	
Miscellaneous surface coating	Add-on control levels	71.7	0	6,276,407	0	87,537	
Miscellaneous surface coating	MACT level of control	19.7	0	49,140	0	2,494	
Motor Vehicles	California Reform	630.1	3,961.20	0	20,401,080	0	5,150
Nonroad gasoline	Reformulated gasoline	164.1	0	820,500	0	5,000	
Open Burning	Episodic Ban	849.4	161.1	0	0	0	0
Paper surface coating	Add-on control levels	24.2	0	2,346,314	0	96,955	
Pesticide Application	Reformulation - FIP rule	10.1	0	93,725	0	9,280	
Point Source Ind. Surface Coating	Add-on Control Levels	97.8	0	1,799,888	0	18,404	
Point Sources	RE Improvements	1,007.70	0	2,015,530	0	2,000	
Recreational vehicles	CARB standards	604.1	0	320,133	0	530	
Service stations - stage I-truck un	Vapor balance & P-V valve	460.7	0	11,517	0	25	
Wood furniture surface coating	Reformulation	77.4	0	122,710	0	1,585	
Wood product surface coating	Reformulation	5.3	0	130	0	25	
	Total	4,884.10	4,122.30	23,288,438	20,401,080	4,768	4,949
						96,955	5,150
						87,537	
New Orleans, LA							
Cutback Asphalt	Switch to emulsified asph	1,068.40	0	0	0	0	
Metal product surface coating	VOC content limits & impr	277.9	0	9,701	0	35	
Motor Vehicles	Enhanced I/M (w/49 State	11,508.40	6,549.10	1,773,573	3,547,145	154	542

Oil and natural gas production field	RACT (equipment/mainten	268.9	0	106,656	0	397	
Open Burning	Episodic Ban	1,167.10	221.5	0	0	0	0
Pharmaceutical manufacture	RACT	5.7	0	1,878	0	329	
Point Source Metal Surface Coating	FIP VOC Limits	20.4	0	0	0	0	
Service stations - stage I-truck un	Vapor balance & P-V valve	598.5	0	14,963	0	25	
Web Offset Lithography	New CTG (carbon adsorb	115.6	0	-14,447	0	-125	
Wood product surface coating	Reformulation	1.4	0	89	0	64	
	Total	15,032.30	6,770.60	1,892,413	3,547,145	126	524
						397	542
New York, NY							
Aerosols	CARB Tier 2 Standards -	0	0	0	0		
Aerosols	SCAQMD Standards - Ref	0	0	0	0		
Aircraft surface coating	Add-on control levels	0	0	0	0		
Automobile refinishing	CARB BARCT limits	0	0	0	0		
Automobile refinishing	FIP Rule (VOC Content &	0	0	0	0		
marine surface coating	Add-on control levels	0	0	0	0		
Metal product surface coating	VOC content limits & impr	0	0	0	0		
Miscellaneous surface coating	Add-on control levels	0	0	0	0		
Miscellaneous surface coating	MACT level of control	0	0	0	0		
Motor Vehicles	California Reform	0	0	0	0		
Nonroad gasoline	Reformulated gasoline	0	0	0	0		
Open Burning	Episodic Ban	0	0	0	0		
Paper surface coating	Add-on control levels	0	0	0	0		
Pesticide Application	Reformulation - FIP rule	0	0	0	0		
Point Source Ind. Surface Coating	Add-on Control Levels	0	0	0	0		
Point Source Metal Surface Coating	FIP VOC Limits	0	0	0	0		
Point Source Wood Product Coating	FIP VOC Limits	0	0	0	0		
Point Sources	RE Improvements	0	0	0	0		
Recreational vehicles	CARB standards	0	0	0	0		
Service stations - stage I-truck un	Vapor balance & P-V valve	0	0	0	0		
Wood furniture surface coating	Reformulation	0	0	0	0		
Wood product surface coating	Reformulation	0	0	0	0		
	Total	0	0	0	0		
Philadelphia, PA							
Aerosols	CARB Tier 2 Standards -	849.5	0	2,124,030	0	2,500	
Aerosols	SCAQMD Standards - Ref	849.6	0	8,496,120	0	10,000	
Aircraft surface coating	Add-on control levels	28	0	1,012,040	0	36,144	
Automobile refinishing	CARB BARCT limits	550.3	0	2,023,964	0	3,678	
Automobile refinishing	FIP Rule (VOC Content &	2,101.00	0	37,862,493	0	18,021	
marine surface coating	Add-on control levels	138.1	0	2,413,661	0	17,478	
Metal product-surface coating	VOC content limits & impr	661.9	0	23,283	0	35	
Miscellaneous surface coating	Add-on control levels	369.8	0	19,157,461	0	51,805	
Miscellaneous surface coating	MACT level of control	49	0	122,400	0	2,498	
Motor Vehicles	California Reform	2,768.40	16,305.20	0	83,136,982	0	5,099
Nonroad gasoline	Reformulated gasoline	516.8	0	2,584,000	0	5,000	
Open Burning	Episodic Ban	2,582.60	489.7	0	0	0	0
Paper surface coating	Add-on control levels	68.2	0	5,050,766	0	74,058	
Pesticide Application	Reformulation - FIP rule	122.7	0	1,140,144	0	9,292	
Point Source Ind. Surface Coating	Add-on Control Levels	5,061.80	0	93,137,488	0	18,400	
Point Source Metal Surface Coating	FIP VOC Limits	366.2	0	0	0	0	
Point Source Wood Product Coating	FIP VOC Limits	97.1	0	2,427	0	25	
Point Sources	RE Improvements	30,474.20	0	60,948,430	0	2,000	
Recreational vehicles	CARB standards	799.6	0	423,651	0	530	
Service stations - stage I-truck un	Vapor balance & P-V valve	2,028.70	0	50,721	0	25	
Wood furniture surface coating	Reformulation	841.2	0	884,447	0	1,051	
Wood product surface coating	Reformulation	13.2	0	477	0	36	
	Total	51,337.90	16,794.90	237,458,003	83,136,982	4,625	4,950
						74,058	5,099

51,805

Phoenix, AZ							
Adhesives - industrial	RACT	39.2	0	98,028	0	2,501	
Aerosols	CARB Tier 2 Standards -	402	0	1,004,856	0	2,500	
Automobile refinishing	CARB BARCT limits	182.8	0	671,796	0	3,679	
Bulk Terminals	RACT	115.1	0	191,712	0	1,666	
Cutback Asphalt	Switch to emulsified asph	109.7	0	0	0	0	
Metal product surface coating	VOC content limits & impr	521.8	0	12,988	0	25	
Miscellaneous surface coating	MACT level of control	417.7	0	1,044,188	0	2,500	
Motor Vehicles	Enhanced I/M	21,094.90	12,639.60	1,199,840	2,399,679	57	190
Motor Vehicles	Federal Reform	36,455.70	3,002.30	47,793,100	0	1,311	0
Nonroad gasoline	Reformulated gasoline	306.9	0	1,534,500	0	5,000	
Open Burning	Episodic Ban	1,589.90	303.4	0	0	0	0
Recreational vehicles	CARB standards	318.8	0	168,875	0	530	
Service stations - stage I-truck un	Vapor balance & P-V valve	1,131.70	0	212,983	0	188	
Web Offset Lithography	New CTG (carbon adsorb	6.4	0	-795	0	-124	
Wood furniture surface coating	Reformulation	891	0	334,128	0	375	
Wood product surface coating	Reformulation	23.1	0	576	0	25	
	Total	63,606.10	15,945.30	54,268,773	2,399,679	853	150
						5,000	
Portland, ME							
Area Source Industrial Coal Comb	RACT to small sources	0	0.1	0	235		2,350
Area Source Industrial NG Comb	RACT to small sources	0	1.6	0	2,349		1,468
Area Source Industrial Oil Comb	RACT to small sources	0	3.7	0	7,486		2,023
Commercial Marine Vessels	Emission Fees	0	90.8	0	907,683		9,997
Industrial Boiler - Distillate Oil	LNB + FGR	0	2.9	0	29,602		10,208
Industrial Boiler - Distillate Oil	SCR	0	5.8	0	63,175		10,892
Industrial Boiler - Natural Gas	LNB + FGR	0	0.9	0	5,706		6,340
Industrial Boiler - Natural Gas	SCR	0	1.8	0	16,880		9,378
Industrial Boiler - Residual Oil	LNB + FGR	0	66.3	0	379,442		5,723
Industrial Boiler - Residual Oil	SCR	0	132.5	0	987,553		7,453
Motor Vehicles	California Reform	208.9	1,844.30	0	7,957,384	0	4,315
Motor Vehicles	Reform Diesel	0	81.5	0	4,121,838		50,575
Nonroad Diesels	CARB Stds for > 175 HP	0	4	0	33,035		8,259
Nonroad gasoline	Reformulated gasoline	23.3	0	117,000	0	5,021	
Open Burning	Episodic Ban	801.7	152.3	0	0	0	0
Residential NG Consumption	LNB Space heaters	0	12.5	0	20,258		1,621
Utility Boiler - Oil-Gas/Tangential	LNB + FGR + OFA	0	58.2	0	977,858		16,802
Utility Boiler - Oil-Gas/Tangential	SCR	0	181.7	0	2,235,995		12,306
	Total	1,033.90	2,640.90	117,000	17,746,479	113	6,720
						5,021	50,575
							16,802
Portland, OR							
Bulk Terminals	RACT	364.1	0	606,885	0	1,667	
Cutback Asphalt	Switch to emulsified asph	320.2	0	0	0	0	
Metal product surface coating	VOC content limits & impr	406.7	0	10,136	0	25	
Motor Vehicles	Enhanced I/M	11,068.20	10,483.50	1,747,796	3,495,591	158	333
Open Burning	Episodic Ban	2,265.50	429.5	0	0	0	0
Pharmaceutical manufacture	RACT	4.2	0	1,408	0	335	
Point Source Metal Surface Coating	FIP VOC Limits	139.8	0	0	0	0	
Point Source Wood Product Coating	FIP VOC Limits	217.2	0	5,429	0	25	
Point Sources	RE Improvements	19,187.00	0	38,373,910	0	2,000	
Recreational vehicles	CARB standards	403.8	0	214,057	0	530	
Service stations - stage I-truck un	Vapor balance & P-V valve	1,432.70	0	562,989	0	393	
SOCMI fugitives	RACT	12.7	0	1,729	0	136	
Web Offset Lithography	New CTG (carbon adsorb	259.3	0	-32,399	0	-125	
Wood furniture surface coating	Reformulation	487.7	0	182,937	0	375	
Wood product surface coating	Reformulation	43.4	0	1,779	0	41	
	Total	36,612.50	10,913.00	41,876,656	3,495,591	1,138	320
						2,000	333

Providence, RI							
Aerosols	CARB Tier 2 Standards -	133.1	0	332,580	0	2,499	
Aerosols	SCAQMD Standards - Ref	133.1	0	1,330,320	0	9,995	
Aircraft surface coating	Add-on control levels	0.2	0	4,764	0	23,820	
Automobile refinishing	CARB BARCT limits	83.6	0	307,511	0	3,678	
Automobile refinishing	FIP Rule (VOC Content &	319.2	0	5,752,666	0	18,022	
marine surface coating	Add-on control levels	131.6	0	1,905,058	0	14,476	
Metal product surface coating	VOC content limits & impr	285.3	0	7,100	0	25	
Miscellaneous surface coating	Add-on control levels	193.3	0	3,130,460	0	18,195	
Miscellaneous surface coating	MACT level of control	129.2	0	323,006	0	2,500	
Motor Vehicles	California Reform	410.5	2,548.70	0	13,834,606	0	5,428
Nonroad gasoline	Reformulated gasoline	101.8	0	509,000	0	5,000	
Open Burning	Episodic Ban	510.9	97.1	0	0	0	0
Paper surface coating	Add-on control levels	0.8	0	50,406	0	63,008	
Pesticide Application	Reformulation - FIP rule	1.6	0	15,196	0	9,498	
Point Source Ind. Surface Coating	Add-on Control Levels	177.8	0	3,270,692	0	18,395	
Point Source Metal Surface Coating	FIP VOC Limits	129.6	0	0	0	0	
Point Sources	RE Improvements	2,381.30	0	4,762,520	0	2,000	
Recreational vehicles	CARB standards	545.9	0	289,257	0	530	
Service stations - stage I-truck un	Vapor balance & P-V valve	313	0	7,823	0	25	
Wood furniture surface coating	Reformulation	402.2	0	150,805	0	375	
Wood product surface coating	Reformulation	5.1	0	130	0	25	
	Total	6,389.10	2,645.80	22,149,294	13,834,606	3,467	5,229
						63,008	5,428
						23,820	
Redding, CA							
Adhesives - industrial	RACT	97	0	242,361	0	2,499	
Aerosols	CARB Tier 2 Standards -	26.1	0	65,190	0	2,498	
Aerosols	SCAQMD Standards - Ref	26.1	0	260,760	0	9,991	
Automobile refinishing	CARB BARCT limits	12.7	0	46,813	0	3,686	
Automobile refinishing	FIP Rule (VOC Content &	48.6	0	875,746	0	18,019	
Bulk Terminals	RACT	303.5	0	505,794	0	1,667	
Cutback Asphalt	Switch to emulsified asph	180.7	0	0	0	0	
marine surface coating	Add-on control levels	6.4	0	93,094	0	14,546	
Metal product surface coating	VOC content limits & impr	18.8	0	468	0	25	
Miscellaneous surface coating	Add-on control levels	8.6	0	133,220	0	15,491	
Miscellaneous surface coating	MACT level of control	3.7	0	9,223	0	2,493	
Motor Vehicles	Enhanced I/M	2,316.30	3,420.10	841,481	1,682,962	363	492
Nonroad gasoline	Reformulated gasoline	13.7	0	68,500	0	5,000	
Open Burning	Episodic Ban	15.6	3	0	0	0	0
Paper surface coating	Add-on control levels	64.3	0	774,483	0	12,045	
Pesticide Application	Reformulation - FIP rule	24.2	0	225,693	0	9,326	
Recreational vehicles	CARB standards	12.8	0	6,824	0	533	
Service stations - stage I-truck un	Vapor balance & P-V valve	731	0	547,670	0	749	
Web Offset Lithography	New CTG (carbon adsorb	14.3	0	-1,791	0	-125	
Wood furniture surface coating	Reformulation	7.4	0	2,761	0	373	
Wood product surface coating	Reformulation	8.3	0	208	0	25	
	Total	3,940.10	3,423.10	4,698,498	1,682,962	1,192	492
						18,019	492
						15,491	
Reno, NV							
Aerosols	CARB Tier 2 Standards -	44.1	0	110,244	0	2,500	
Automobile refinishing	CARB BARCT limits	30.8	0	113,240	0	3,677	
Metal product surface coating	VOC content limits & impr	37.5	0	934	0	25	
Miscellaneous surface coating	MACT level of control	30.7	0	76,867	0	2,504	
Motor Vehicles	Enhanced I/M	1,537.10	1,483.50	94,145	188,291	61	127
Motor Vehicles	Federal Reform	1,919.70	357.6	5,606,016	0	2,920	0
Nonroad gasoline	Reformulated gasoline	39.8	0	199,000	0	5,000	
Open Burning	Episodic Ban	82.3	15.6	0	0	0	0
Recreational vehicles	CARB standards	118.5	0	62,805	0	530	

Service stations - stage I-truck un	Vapor balance & P-V valve	153.1	0	3,845	0	25	
Web Offset Lithography	New CTG (carbon adsorb	97	0	-12,130	0	-125	
Wood furniture surface coating	Reformulation	68.8	0	25,794	0	375	
Wood product surface coating	Reformulation	2	0	50	0	25	
	Total	4,161.40	1,856.70	6,280,810	188,291	1,509	101
						5,000	127
Sacramento, CA							
Adhesives - industrial	RACT	34.5	0	86,360	0	2,503	
Aerosols	CARB Tier 2 Standards -	201.3	0	503,034	0	2,499	
Aerosols	SCAQMD Standards - Ref	201.2	0	2,012,138	0	10,001	
Automobile refinishing	CARB BARCT limits	127.1	0	487,563	0	3,879	
Automobile refinishing	FIP Rule (VOC Content &	485.3	0	8,746,744	0	18,023	
Bulk Terminals	RACT	12.8	0	21,347	0	1,668	
Cutback Asphalt	Switch to emulsified asph	72.2	0	0	0	0	
marine surface coating	Add-on control levels	4.2	0	60,687	0	14,449	
Metal product surface coating	VOC content limits & impr	236.7	0	5,867	0	25	
Miscellaneous surface coating	Add-on control levels	119.5	0	1,938,485	0	18,222	
Miscellaneous surface coating	MACT level of control	105.2	0	262,951	0	2,500	
Motor Vehicles	Enhanced I/M	828.8	1,377.30	326,808	653,615	394	475
Nonroad gasoline	Reformulated gasoline	106.5	0	532,500	0	5,000	
Open Burning	Episodic Ban	444	84	0	0	0	0
Paper surface coating	Add-on control levels	3.1	0	206,239	0	68,529	
Pesticide Application	Reformulation - FIP rule	114.2	0	1,062,488	0	9,304	
Point Source Ind. Surface Coating	Add-on Control Levels	361.7	0	6,655,556	0	18,401	
Point Source Metal Surface Coating	FIP VOC Limits	313.9	0	0	0	0	
Point Sources	RE Improvements	40.5	0	81,030	0	2,001	
Recreational vehicles	CARB standards	102.4	0	54,329	0	531	
Service stations - stage I-truck un	Vapor balance & P-V valve	799	0	130,285	0	163	
Web Offset Lithography	New CTG (carbon adsorb	6.6	0	-825	0	-125	
Wood furniture surface coating	Reformulation	252.5	0	94,698	0	375	
Wood product surface coating	Reformulation	16	0	399	0	25	
	Total	4,989.20	1,461.30	23,248,681	653,615	4,660	447
						66,529	475
						18,401	
San Diego, CA							
Aerosols	CARB Tier 2 Standards -	0	0	0	0		
Aerosols	SCAQMD Standards - Ref	0	0	0	0		
Automobile refinishing	CARB BARCT limits	0	0	0	0		
Automobile refinishing	FIP Rule (VOC Content &	0	0	0	0		
Metal product surface coating	VOC content limits & impr	0	0	0	0		
Miscellaneous surface coating	Add-on control levels	0	0	0	0		
Miscellaneous surface coating	MACT level of control	0	0	0	0		
Nonroad gasoline	Reformulated gasoline	0	0	0	0		
Open Burning	Episodic Ban	0	0	0	0		
Paper surface coating	Add-on control levels	0	0	0	0		
Pesticide Application	Reformulation - FIP rule	0	0	0	0		
Point Source Ind. Surface Coating	Add-on Control Levels	0	0	0	0		
Point Sources	RE Improvements	0	0	0	0		
Recreational vehicles	CARB standards	0	0	0	0		
Service stations - stage I-truck un	Vapor balance & P-V valve	0	0	0	0		
Wood furniture surface coating	Reformulation	0	0	0	0		
Wood product surface coating	Reformulation	0	0	0	0		
	Total	0	0	0	0		
Santa Barbara, CA							
Aerosols	CARB Tier 2 Standards -	50.1	0	125,256	0	2,500	
Aerosols	SCAQMD Standards - Ref	50.1	0	501,024	0	10,000	
Aircraft surface coating	Add-on control levels	10.5	0	330,223	0	31,450	
Automobile refinishing	CARB BARCT limits	25.1	0	92,413	0	3,682	

Sheet1

Automobile refinishing	FIP Rule (VOC Content &	95.9	0	1,728,785	0	18,027	
Metal product surface coating	VOC content limits & impr	44	0	1,098	0	25	
Miscellaneous surface coating	Add-on control levels	18.2	0	303,110	0	16,654	
Miscellaneous surface coating	MACT level of control	45.7	0	114,149	0	2,498	
Motor Vehicles	Enhanced I/M	1,827.60	2,680.20	108,112	212,224	58	79
Nonroad gasoline	Reformulated gasoline	28	0	130,000	0	5,000	
Open Burning	Episodic Ban	134.4	25.5	0	0	0	0
Paper surface coating	Add-on control levels	1.3	0	84,224	0	64,788	
Pesticide Application	Reformulation - FIP rule	34.8	0	323,156	0	9,286	
Point Sources	RE Improvements	91.6	0	183,230	0	2,000	
Recreational vehicles	CARB standards	5.8	0	3,072	0	530	
Service stations - stage I-truck un	Vapor balance & P-V valve	196	0	4,901	0	25	
Wood furniture surface coating	Reformulation	52.3	0	19,616	0	375	
Wood product surface coating	Reformulation	1.6	0	40	0	25	
	Total	2,711.00	2,705.70	4,050,409	212,224	1,494	78
						64,788	79
						31,450	
Seattle, WA							
Adhesives - industrial	RACT	105.8	0	264,172	0	2,497	
Aerosols	CARB Tier 2 Standards -	467.2	0	1,167,756	0	2,499	
Aerosols	SCAQMD Standards - Ref	467	0	4,671,024	0	10,002	
Automobile refinishing	CARB BARCT limits	250.9	0	922,119	0	3,675	
Bulk Terminals	RACT	248.4	0	413,881	0	1,666	
Cutback Asphalt	Switch to emulsified asph	454.5	0	0	0	0	
Metal product surface coating	VOC content limits & impr	578.7	0	14,445	0	25	
Miscellaneous surface coating	MACT level of control	240.4	0	601,215	0	2,501	
Motor Vehicles	California LEV	8,992.70	15,879.00	12,434,797	12,434,797	1,383	783
Motor Vehicles	California Reform	1,615.10	4,241.60	0	65,175,421	0	15,366
Motor Vehicles	Enhanced I/M	4,292.70	3,491.00	1,372,151	2,744,303	320	786
Motor Vehicles	Federal Reform	11,865.00	3,331.60	67,981,645	0	5,730	0
Nonroad gasoline	Reformulated gasoline	292.5	0	1,462,500	0	5,000	
Open Burning	Episodic Ban	1,232.70	233.9	0	0	0	0
Pesticide Application	Reformulation - FIP rule	71.3	0	662,233	0	9,288	
Point Source Metal Surface Coating	FIP VOC Limits	8.8	0	0	0	0	
Point Source Wood Product Coating	FIP VOC Limits	93.1	0	2,327	0	25	
Recreational vehicles	CARB standards	628.9	0	333,244	0	530	
Service stations - stage I-truck un	Vapor balance & P-V valve	2,104.60	0	699,089	0	332	
Web Offset Lithography	New CTG (carbon adsorb	532.5	0	-66,548	0	-125	
Wood furniture surface coating	Reformulation	989.4	0	371,013	0	375	
Wood product surface coating	Reformulation	22.6	0	1,182	0	52	
	Total	35,554.80	27,177.10	93,308,245	80,354,520	2,624	2,957
						10,002	15,366
St. Louis, MO							
Adhesives - industrial	RACT	18.4	0	45,877	0	2,493	
Aerosols	CARB Tier 2 Standards -	364.1	0	910,368	0	2,500	
Aerosols	SCAQMD Standards - Ref	364.1	0	3,641,472	0	10,001	
Aircraft surface coating	Add-on control levels	120.4	0	3,790,114	0	31,479	
Automobile refinishing	CARB BARCT limits	183.9	0	676,359	0	3,678	
Automobile refinishing	FIP Rule (VOC Content &	702.2	0	12,652,662	0	18,019	
Cutback Asphalt	Switch to emulsified asph	48.5	0	0	0	0	
marine surface coating	Add-on control levels	17.2	0	249,014	0	14,478	
Metal product surface coating	VOC content limits & impr	836.5	0	35,843	0	43	
Miscellaneous surface coating	Add-on control levels	241.9	0	15,971,880	0	66,027	
Miscellaneous surface coating	MACT level of control	176	0	440,252	0	2,501	
Motor Vehicles	California Reform	24.8	8,761.50	0	45,829,827	0	5,231
Motor Vehicles	Enhanced I/M (w/49 State	26,691.50	19,604.60	948,486	1,896,971	36	97
Motor Vehicles	Federal Reform	6,064.00	1,717.00	47,795,117	0	7,882	0
Nonroad gasoline	Reformulated gasoline	151.4	0	757,000	0	5,000	
Oil and natural gas production fiel	RACT (equipment/mainten	4.2	0	1,690	0	402	
Open Burning	Episodic Ban	1,607.90	304.9	0	0	0	0
Paper surface coating	Add-on control levels	23.6	0	2,442,361	0	103,490	

Pesticide Application	Reformulation - FIP rule	217.1	0	2,019,308	0	9,301	
Point Source Ind. Surface Coating	Add-on Control Levels	7,192.00	0	132,332,064	0	18,400	
Point Source Metal Surface Coating	FIP VOC Limits	874.2	0	0	0	0	
Point Sources	RE Improvements	3,298.80	0	6,597,740	0	2,000	
Recreational vehicles	CARB standards	253	0	133,902	0	529	
Service stations - stage I-truck un	Vapor balance & P-V valve	1,235.80	0	30,896	0	25	
Web Offset Lithography	New CTG (carbon adsorb	2.2	0	-281	0	-128	
Wood furniture surface coating	Reformulation	335.3	0	482,482	0	1,439	
Wood product surface coating	Reformulation	6.8	0	168	0	25	
	Total	51,055.80	30,388.00	231,954,774	47,726,798	4,543	1,571
						103,490	5,231
						66,027	
Stockton, CA							
Aerosols	CARB Tier 2 Standards -	63.9	0	159,828	0	2,501	
Aerosols	SCAQMD Standards - Ref	63.9	0	639,312	0	10,005	
Automobile refinishing	CARB BARCT limits	30.9	0	113,829	0	3,684	
Automobile refinishing	FIP Rule (VOC Content &	118.2	0	2,129,416	0	18,015	
marine surface coating	Add-on control levels	2.6	0	37,680	0	14,492	
Metal product surface coating	VOC content limits & impr	315.6	0	7,806	0	25	
Miscellaneous surface coating	Add-on control levels	86.9	0	1,429,779	0	16,453	
Miscellaneous surface coating	MACT level of control	38	0	94,975	0	2,499	
Nonroad gasoline	Reformulated gasoline	32.9	0	164,500	0	5,000	
Open Burning	Episodic Ban	146.1	27.8	0	0	0	0
Paper surface coating	Add-on control levels	5.3	0	358,421	0	67,627	
Pesticide Application	Reformulation - FIP rule	162.5	0	1,510,952	0	9,298	
Point Source Wood Product Coating	FIP VOC Limits	138	0	3,449	0	25	
Recreational vehicles	CARB standards	31.5	0	16,720	0	531	
Service stations - stage I-truck un	Vapor balance & P-V valve	184.4	0	4,610	0	25	
Wood furniture surface coating	Reformulation	214	0	80,240	0	375	
	Total	1,634.70	27.8	6,751,517	0	4,130	0
						67,627	
						18,015	
Tell City (IN-KY)							
Cutback Asphalt	Switch to emulsified asph	40.9	0	0	0	0	
Metal product surface coating	VOC content limits & impr	9.8	0	323	0	33	
Motor Vehicles	Enhanced I/M (w/49 State	626.6	531	130,727	261,453	209	492
Oil and natural gas production fiel	RACT (equipment/mainten	2.2	0	840	0	382	
Open Burning	Episodic Ban	73.8	13.9	0	0	0	0
Petroleum refinery fugitives	RACT	52.5	0	-23,622	0	-450	
Point Source Metal Surface Coating	FIP VOC Limits	220.4	0	0	0	0	
Web Offset Lithography	New CTG (carbon adsorb	14.8	0	-1,846	0	-125	
Wood furniture surface coating	Reformulation	118.8	0	44,537	0	375	
	Total	1,159.80	544.9	150,959	261,453	130	480
						382	492
Visalia, CA							
Aerosols	CARB Tier 2 Standards -	42.6	0	106,380	0	2,497	
Aerosols	SCAQMD Standards - Ref	42.6	0	425,520	0	9,989	
Automobile refinishing	CARB BARCT limits	11.2	0	41,327	0	3,690	
Automobile refinishing	FIP Rule (VOC Content &	42.9	0	773,106	0	18,021	
Metal product surface coating	VOC content limits & impr	49.9	0	1,238	0	25	
Miscellaneous surface coating	Add-on control levels	22	0	333,737	0	15,170	
Miscellaneous surface coating	MACT level of control	19.7	0	49,270	0	2,501	
Nonroad gasoline	Reformulated gasoline	23.1	0	115,500	0	5,000	
Open Burning	Episodic Ban	93.7	17.7	0	0	0	0
Pesticide Application	Reformulation - FIP rule	250.4	0	2,329,073	0	9,301	
Recreational vehicles	CARB standards	22.4	0	11,867	0	530	
Service stations - stage I-truck un	Vapor balance & P-V valve	110.8	0	2,770	0	25	
Wood furniture surface coating	Reformulation	8.2	0	3,088	0	377	
Wood product surface coating	Reformulation	2.7	0	67	0	25	

Sheet1

	Total	742.2	17.7	4,192,943	0	5,649	0
						18,021	

2/10 RFF conference

any new studies on linking ozone to mortality

10:30 → The Costs & Benefits of EPA's Proposed New Standards

Speaker #1 Rob Brenner Office of Policy Analysis & Review - EPA

Initial Benefits 2007 (1990 \$)

monetized ~~38 billion~~ → 120 58 - 120 billion benefits
6.6 - 8.5 billion costs

costs / benefits { reduced cancer, protection of natural parks, better tree seedlings... etc. } why are these non-monetized?

costs may be overstated - early analysis done in 1990
benefits may be understated. → Technological progress not included

Historically → Costs are generally a lot higher } when forecasting out
benefits too low

10 - 20,000 deaths per year for PM avoided

↓
While acid rain was being analyzed in the 80's, there were 10 - 20,000 deaths occurring each year. They (EPA)

non monetized benefits are treated as zero

m-f board refuses estimates

utilities → SO₂ tradable permits started thinking of that \$600 - \$1,000. Truly today at under \$100.

"scrubber technology will probably improve more than we can imagine" $\Rightarrow$ paraphrase.

Who benefits + who pays?

It may be better to spend 2 billion to reduce 1.5 billion of ill effects
 $\Rightarrow$ what about the distribution of costs + benefits?

Steve Ziman - Staff Scientist - Chevron

based these estimates

① S.F. Bay Area - ^{previous} modeling available
own generated ozone

② Chicago - Lower Lake Michigan
again - ^{previous} modeling available

$\Rightarrow$ go towards the one hour standard

② attainment of one hour standard projected for 2007 ^{1200 PPB}
post 2007 - 8 hour standard 80 PPB

additional 90% reduction over 1 hour standard to get 8 hour standard

costs

up to \$10,000/ton
10-20,000
30,000+

} different specific controls considered

costs 15.5 - 14 billion / year

- controls only up to \$35,000 / ton
- market programs could get in ~~above~~ additional reductions

benefits & costs - estimates

higher benefit for 37 billion / year [expenditure]

cost 2.5 - 7 billion / year

① VOC controls are most effective

20% additional controls to achieve proposed standards (may be like San Antonio)

lower bound
since SF bay area was done with SF was in attainment, not any more)
easy to attain the standard

\$43 million / year cost to attain 80 ppb

are Hall are low 90 ppb

C State \$5 million / year benefit

applicability of finding to other areas

at least 13 other areas like ② in design value

* realistic background ozone may be 65-70 ppb
(areas well away from man-made emissions)

near site

Sierra; Charles River Associates

Day 2

Jeff

Richard Klimick - VP American Automobile Manufacturers Assoc.

Ozone - mortality

are we moving from an ozone problem to a PM problem
⇒ as we move towards using electricity instead of gasoline (i.e. cars that are electrically powered)

Alan Krugnick - RFF

What do we learn from these CB analyses

Ozone - we probably can't get to proposed standards
and probably won't want to

PM fine - we can't get to proposed standards but
may want to start the trip

EPA deserves credit for admitting Benefits < costs
for ozone

Should we believe ozone analyses?

- not peer reviewed
- lots of questionable calls & assumptions (LIA
use of RIM vs. UAM)

Should be standard {
- API - uncertainty analysis on benefits
- RFA - no uncertainty analysis
- RIA - poor documentation

- Unreasonable findings?

- API - 2.3 billion costs for 4-state Great Lakes region ^{Lower Lake Michigan}

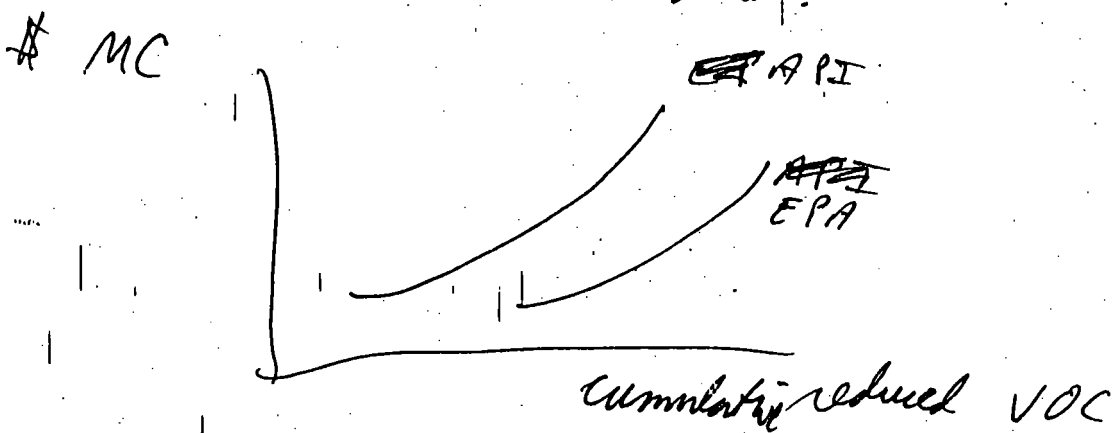
EPA - 2.5 billion costs for the nation

What is going on?

3rd Parcel -

EPA: Chicago attains current standard (.12) and gets down to new standard in 2007 w/ no further controls

API - Great Lakes region needs significant controls to meet standard.



Biasing Assumptions:

EPA: 75% of target defense attainment

Should we believe the PM RIA?

- no peer review,
- questionable assumptions

- areas in violation unknown
- undocumented PM modeling
- questionable values for mortality risk reduction

Recom.

- incorporate tech change
- ~~inc~~ "some econ. incentive approaches"
- estimate costs & benefits of attainment
- document fully/fairly/peer review

⇒ *integrate ozone + PM analysis but don't bundle results.

How do we ~~tech~~ model technical change into B+C analysis?

Alan K. * Technology change occurs in response to econ. incentives.

* overhead will be available on RFF web site.

total
shunting
ee-to face

AOV - area of violation

AOT - area of influence

RAMP - every state would have to be a member (Reg)

1 - Size of subnational groups.

Co-dependency (i.e. EPA and the industry/private sector against EPA)
one man noted that what all this new Clean Air Act debate revolves around is regulatory uncertainty. By having regulatory uncertainty, people typically get nothing done. Will regulatory uncertainty develop even stronger co-dependency?