Sources for Comparison Cancer Data

NAACCR Hospital Registry Webinar: Data Quality and Data Use

5/8/2008

Shannon Vann, CTR

Cancer in North America (CINA)

- CINA – 4-volume monograph released by NAACCR
- CINA + Online
  - http://www.cancer-rates.info/naaccr/ OR
  - http://www.naaccr.org
    - Quick cancer statistics
  - Online database for public queries regarding cancer incidence
- CINA Deluxe
  - Discretionary research data set

NAACCR

NAACCR CINA+ Online - Windows Internet Explorer

http://www.cancer-rates.info/naaccr/

Google

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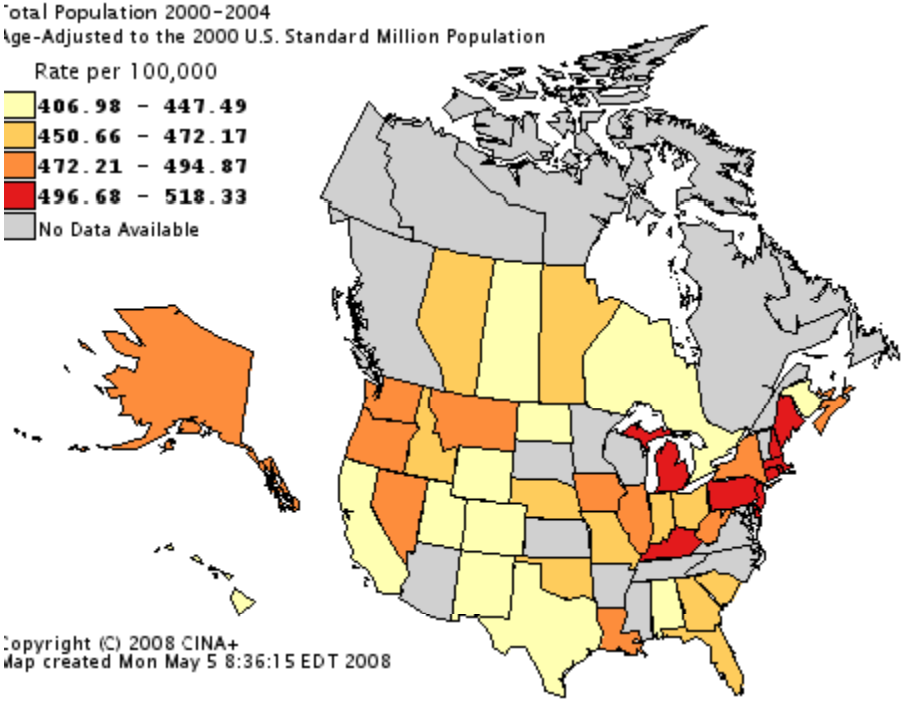
Search web... Maps Favorites PC Health Spaces (0) Allowed Form Fill

NAACCR CINA+ Online

Page Tools

Age-Adjusted Invasive Cancer Incidence Rates by State/Province in North America
All Sites, 2000-2004
Total Population 2000-2004
Age-Adjusted to the 2000 U.S. Standard Million Population



Copyright (C) 2008 CINA+
Map created Mon May 5 8:36:15 EDT 2008

Source: Data as of December 2006 reported by NAACCR as meeting high quality standards for 2000-2004 and include data from state and provincial cancer registries participating in SEER, NPCR, or both, in the US and the Canadian Cancer Registry in Canada.

Combined Data

To view regionwide trend data, click icon at left. To view all region data, click on white space outside of map. To view region specific trend data, click on region on map or on region

Help

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North American Association of Central Cancer Registries

CINA+ Online
Cancer in North America

Help

Specify Criteria for Map Display and Click Redraw.

Display Geography	North America
Cancer Site	All Sites
Years	Starting 2000 Ending 2004
Sex	All
Race/Ethnicity *	All
Standard	2000 U.S. Standard Million Population
Confidence Intervals	Off

Redraw

* Race/Ethnicity data only available for the United States.

http://www.naaccr.org/

Internet 100%

NAACCR CINA+ Online - Windows Internet Explorer

http://www.cancer-rates.info/naaccr/

Google

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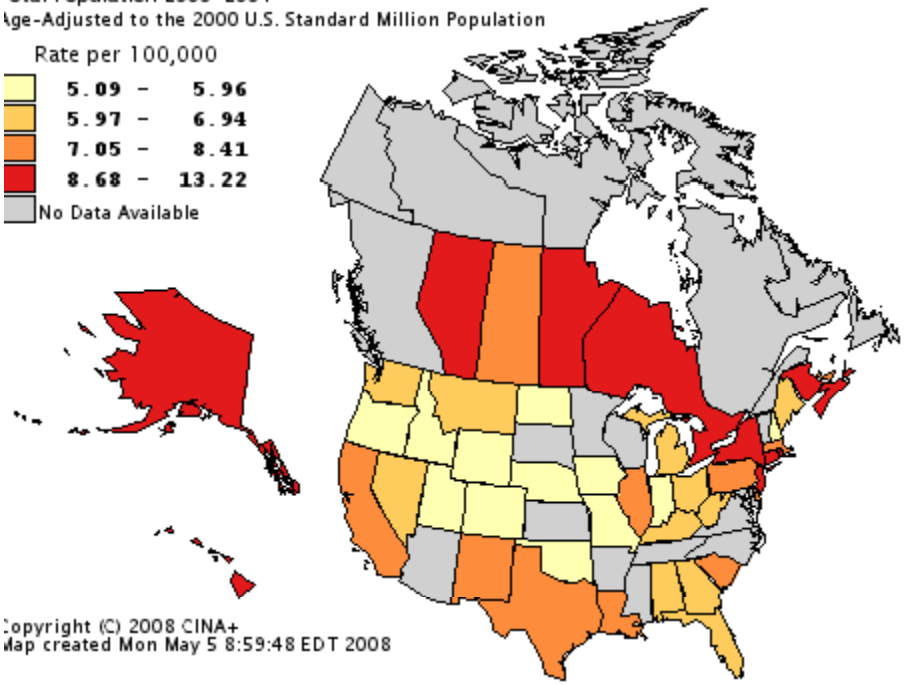
NAACCR CINA+ Online

Page Tools

Age-Adjusted Invasive Cancer Incidence Rates by State/Province in North America
Stomach, 2000-2004
Total Population 2000-2004
Age-Adjusted to the 2000 U.S. Standard Million Population



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Map created Mon May 5 8:59:48 EDT 2008

Source: Data as of December 2006 reported by NAACCR as meeting high quality standards for 2000-2004 and include data from state and provincial cancer registries participating in SEER, NPCR, or both, in the US and the Canadian Cancer Registry in Canada.

Combined Data

To view regionwide trend data, click icon at left. To view all region data, click on white space outside of map. To view region specific trend data, click on region on map or on region

Help

NAACCR
North American Association of Central Cancer Registries

CINA+ Online
Cancer in North America

Help

Specify Criteria for Map Display and Click Redraw.

Display Geography	North America
Cancer Site	--Stomach
Years	Starting 2000 Ending 2004
Sex	All
Race/Ethnicity *	All
Standard	2000 U.S. Standard Million Population
Confidence Intervals	Off

Redraw

* Race/Ethnicity data only available for the United States.

://cancer-rates.info/

Internet 100%

Cancer Control P.L.A.N.E.T.

- http://cancercontrolplanet.cancer.gov
  - Provides access to data and resources
  - Allows user to find information by cancer control topic

Cancer Control P.L.A.N.E.T.

- 5 steps to comprehensive cancer control
  1. Assess program priorities
  2. Identify potential partners
  3. Research reviews of different intervention approaches
  4. Find research-tested intervention programs & products
  5. Plan & evaluate your program

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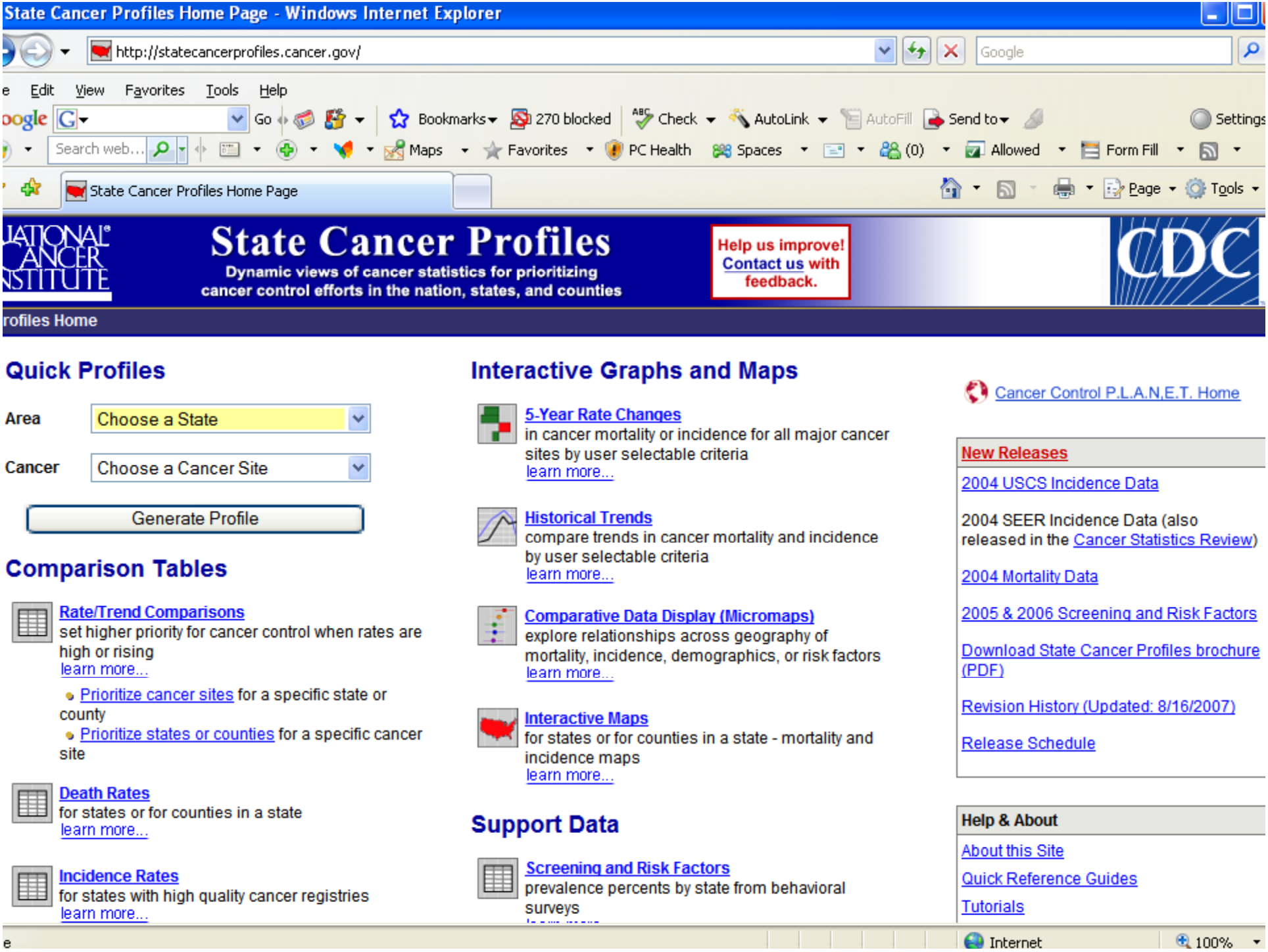
Cancer Control P.L.A.N.E.T.

- State Cancer Profiles
  - http://statecancerprofiles.cancer.gov
    - Quick profiles
    - Comparison tables
    - Interactive graphs & maps
    - Support data


State Cancer Profiles Home Page - Windows Internet Explorer
http://statecancerprofiles.cancer.gov/
Google
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Search web... Maps Favorites PC Health Spaces (0) Allowed Form Fill
State Cancer Profiles Home Page
Page Tools
NATIONAL CANCER INSTITUTE
State Cancer Profiles
Dynamic views of cancer statistics for prioritizing cancer control efforts in the nation, states, and counties
Help us improve! Contact us with feedback.
CDC
rofiles Home
Quick Profiles
Area
Choose a State
Cancer
Choose a Cancer Site
Generate Profile
Comparison Tables
Rate/Trend Comparisons
set higher priority for cancer control when rates are high or rising
learn more...
Prioritize cancer sites for a specific state or county
Prioritize states or counties for a specific cancer site
Death Rates
for states or for counties in a state
learn more...
Incidence Rates
for states with high quality cancer registries
learn more...
Interactive Graphs and Maps
5-Year Rate Changes
in cancer mortality or incidence for all major cancer sites by user selectable criteria
learn more...
Historical Trends
compare trends in cancer mortality and incidence by user selectable criteria
learn more...
Comparative Data Display (Micromaps)
explore relationships across geography of mortality, incidence, demographics, or risk factors
learn more...
Interactive Maps
for states or for counties in a state - mortality and incidence maps
learn more...
Support Data
Screening and Risk Factors
prevalence percents by state from behavioral surveys
Cancer Control P.L.A.N.E.T. Home
New Releases
2004 USCS Incidence Data
2004 SEER Incidence Data (also released in the Cancer Statistics Review)
2004 Mortality Data
2005 & 2006 Screening and Risk Factors
Download State Cancer Profiles brochure (PDF)
Revision History (Updated: 8/16/2007)
Release Schedule
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Quick Reference Guides
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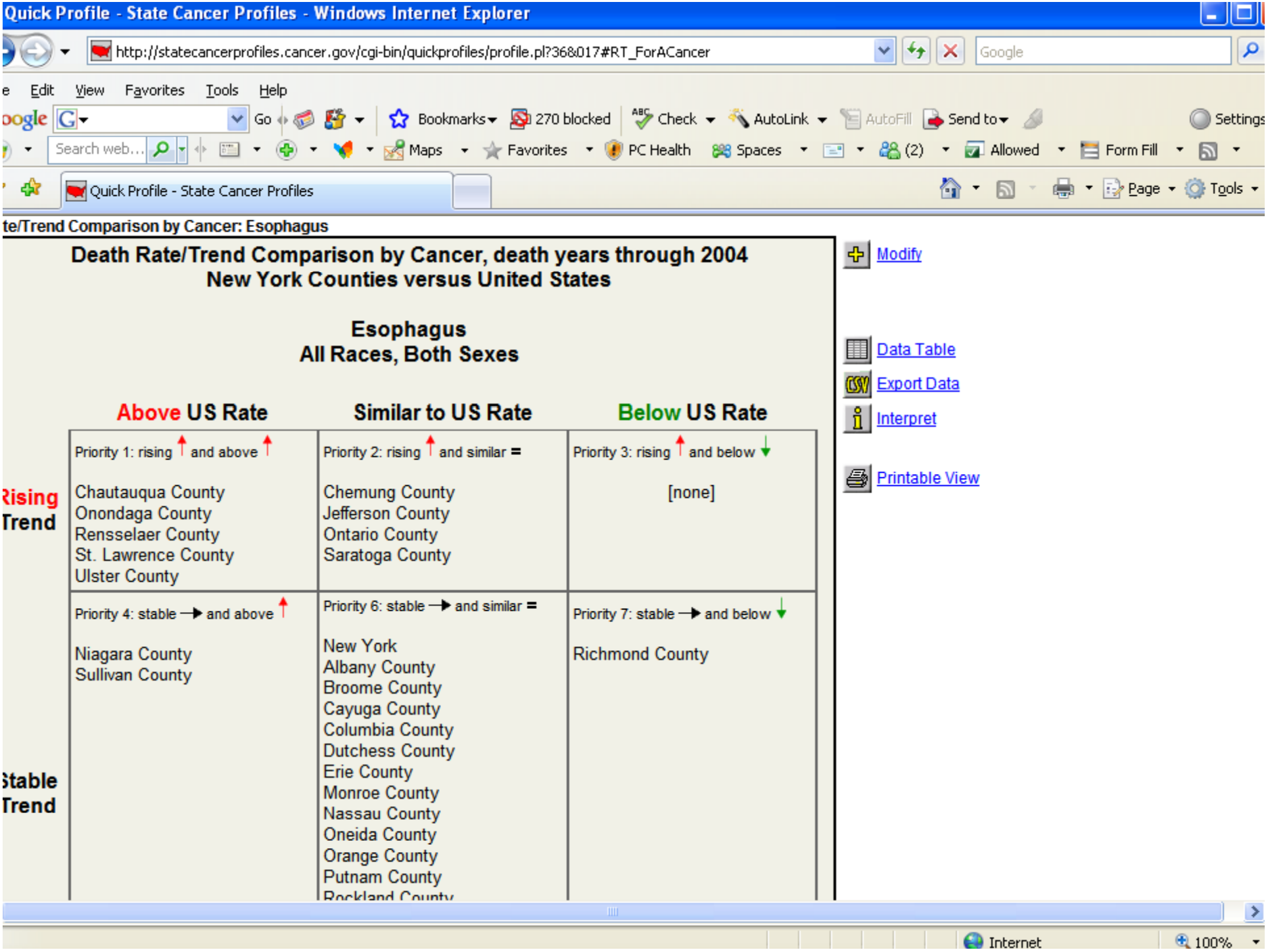
Quick Profile - State Cancer Profiles - Windows Internet Explorer
http://statecancerprofiles.cancer.gov/cgi-bin/quickprofiles/profile.pl?36&017#RT_ForACancer
Quick Profile - State Cancer Profiles
te/Trend Comparison by Cancer: Esophagus
Death Rate/Trend Comparison by Cancer, death years through 2004
New York Counties versus United States
Esophagus
All Races, Both Sexes
Above US Rate
Similar to US Rate
Below US Rate
Rising Trend
Priority 1: rising and above
Chautauqua County
Onondaga County
Rensselaer County
St. Lawrence County
Ulster County
Priority 2: rising and similar =
Chemung County
Jefferson County
Ontario County
Saratoga County
Priority 3: rising and below
[none]
Stable Trend
Priority 4: stable and above
Niagara County
Sullivan County
Priority 6: stable and similar =
New York
Albany County
Broome County
Cayuga County
Columbia County
Dutchess County
Erie County
Monroe County
Nassau County
Oneida County
Orange County
Putnam County
Rockland County
Priority 7: stable and below
Richmond County
Modify
Data Table
Export Data
Interpret
Printable View
Internet
100%

5-Year Rate Changes - State Cancer Profiles - Windows Internet Explorer

http://statecancerprofiles.cancer.gov/recenttrend/recenttrend.php?0&23&0&9599&001&999&00&2&0&0&2#graph

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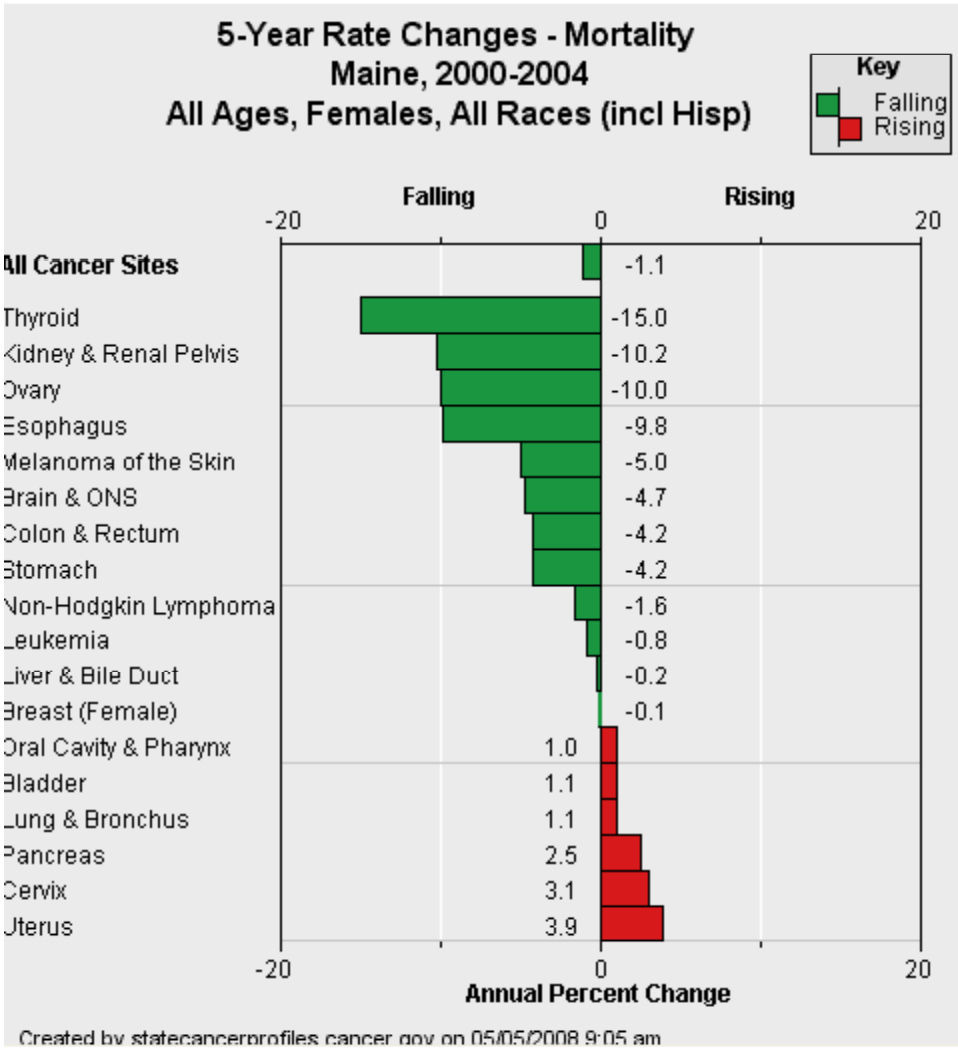
Search web... Maps Favorites PC Health Spaces (2) Allowed Form Fill

5-Year Rate Changes - State Cancer Profiles

Page Tools

5-Year Rate Changes - Mortality
Maine, 2000-2004
All Ages, Females, All Races (incl Hisp)



Created by statecancerprofiles.cancer.gov on 05/05/2008 9:05 am

Data Table
Export Data
Interpret
Save Graph
Printable View

Internet 100%

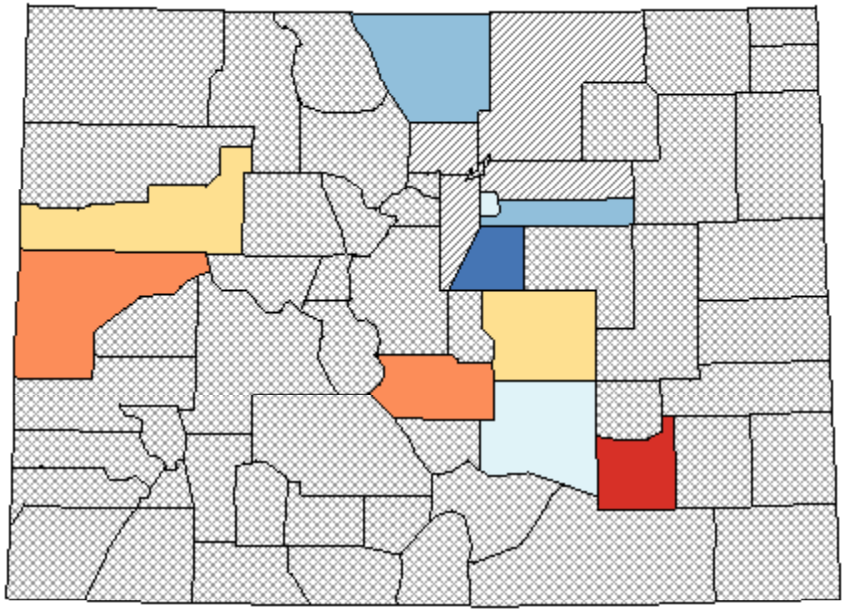
Map - State Cancer Profiles - Windows Internet Explorer

http://statecancerprofiles.cancer.gov/map/map.withimage.php?08&001&003&00&0&1&0&1&6&0#map

Edit View Favorites Tools Help

Map - State Cancer Profiles

Incidence Rates† for Colorado, 2001 - 2004
Oral Cavity & Pharynx
All Races (includes Hispanic), Both Sexes, All Ages



Age-Adjusted Annual Incidence Rate (Cases per 100,000)
Quantile Interval

- 12.6 to 17.9
- 10.4 to 12.5
- 9.4 to 10.3
- 9.0 to 9.3
- 7.3 to 8.9
- 7.2
- Suppressed * /**
- Data Not Available ◇

US (SEER + NPCR)	
Rate	(95% C.I.)
10.6	(10.5 - 10.7)

Colorado	
Rate	(95% C.I.)
9.0	(8.6 - 9.5)

Save Map Image
Data Table
Export Data
Interpret

Printable View

Action Notes

- Rollover a county with your mouse to see the rate (and 95% C.I.)
- Scroll to the top of the web page to change the parameters of the map

Created by statecancerprofiles.cancer.gov on 05/05/2008 9:07 am.

State Cancer Registries may provide more current or more local data

Internet 100%

United States Cancer Statistics

- http://apps.nccd.cdc.gov/uscs/index.aspx
  - 1999-2004 cancer incidence & mortality
    - Report
      - United State Cancer Statistics 2004 Incidence & Mortality
    - Graphs using U.S. and individual state data
      - Top 10 cancers
      - State vs. national comparisons
      - Selected cancer ranked by state

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United States Cancer Statistics

- http://apps.nccd.cdc.gov/uscs/index.aspx
  - 1999-2004 cancer incidence & mortality
    - Tables using U.S. and individual state data
      - U.S. cancer by type
      - Cancers graphed by state & region
      - Childhood cancer
      - Additional cancer data

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Cancer - NPCR - USCS - View Data Online - Windows Internet Explorer
http://apps.nccd.cdc.gov/uscs/index.aspx
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Cancer - NPCR - USCS - View Data Online
Page Tools
ome | About CDC | Press Room | A-Z Index | Contact Us
Department of Health and Human Services
Centers for Disease Control and Prevention
CDC en Español
Search: GO
National Program of Cancer Registries (NPCR)
E-mail this page
Printer-friendly version
Get E-mail updates
Cancer > NPCR Home
Options
USCS Home
Major Facts & Findings
About the Report
Download Data
Archive
Return to Cancer Registries
Contact Info
Centers for Disease Control and Prevention
Division of Cancer Prevention and Control
4770 Buford Hwy, NE
MS K-64
Atlanta, GA 30341-3717
Call: 1 (800) CDC-INFO
TTY: 1 (888) 232-6348
FAX: (770) 488-4760
United States Cancer Statistics (USCS)
1999–2004 Cancer Incidence and Mortality Data
This web based report includes the official federal statistics on cancer incidence from registries that have high-quality data and cancer mortality statistics for each year and 2002–2004 combined. It is produced by the Centers for Disease Control and Prevention (CDC) and the National Cancer Institute (NCI), in collaboration with the North American Association of Central Cancer Registries (NAACCR). Download the complete report for 2004 only (PDF-8.51 MB).
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Graphs
Top 10 cancers
State vs. national comparisons
Selected cancers ranked by state
Tables
U.S. cancers by type
Cancers grouped by state and region
Childhood cancer
Additional cancer data
State Cancer Data
Click on a state or use the dropdown menu to view cancer information or view a list of states.
Internet
100%

Cancer - United States Cancer Statistics (USCS) Data - 2004 Top 10 cancers by geographic area - Windows Internet Explorer

http://apps.nccd.cdc.gov/uscs/Table.aspx?Group=3f&Year=2004&Display=n

Edit View Favorites Tools Help

Cancer – United States Cancer Statistics (USCS) Data...

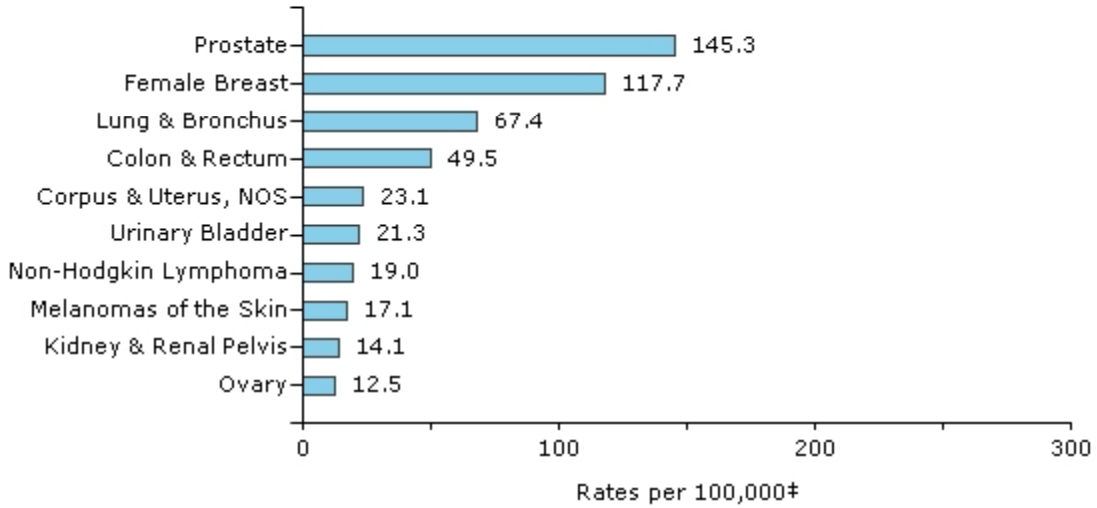
Age-Adjusted Invasive Cancer Incidence Rates for the 10 Primary Sites with the Highest Rates within Race- and Ethnic-Specific Categories (Table 4.1.MF1) *†

★ Rates are per 100,000 persons and are age-adjusted to the 2000 U.S. standard population (19 age groups – Census P25–1130).

All Races | White | Black | Asian/Pacific Islander | American Indian/Alaska Native | Hispanic

95% Confidence Interval : ◉ Hide ○ Show

Top 10 Cancer Sites: 2004, Male and Female, United States—All Races



View tabular data | Back to top

Done

Internet

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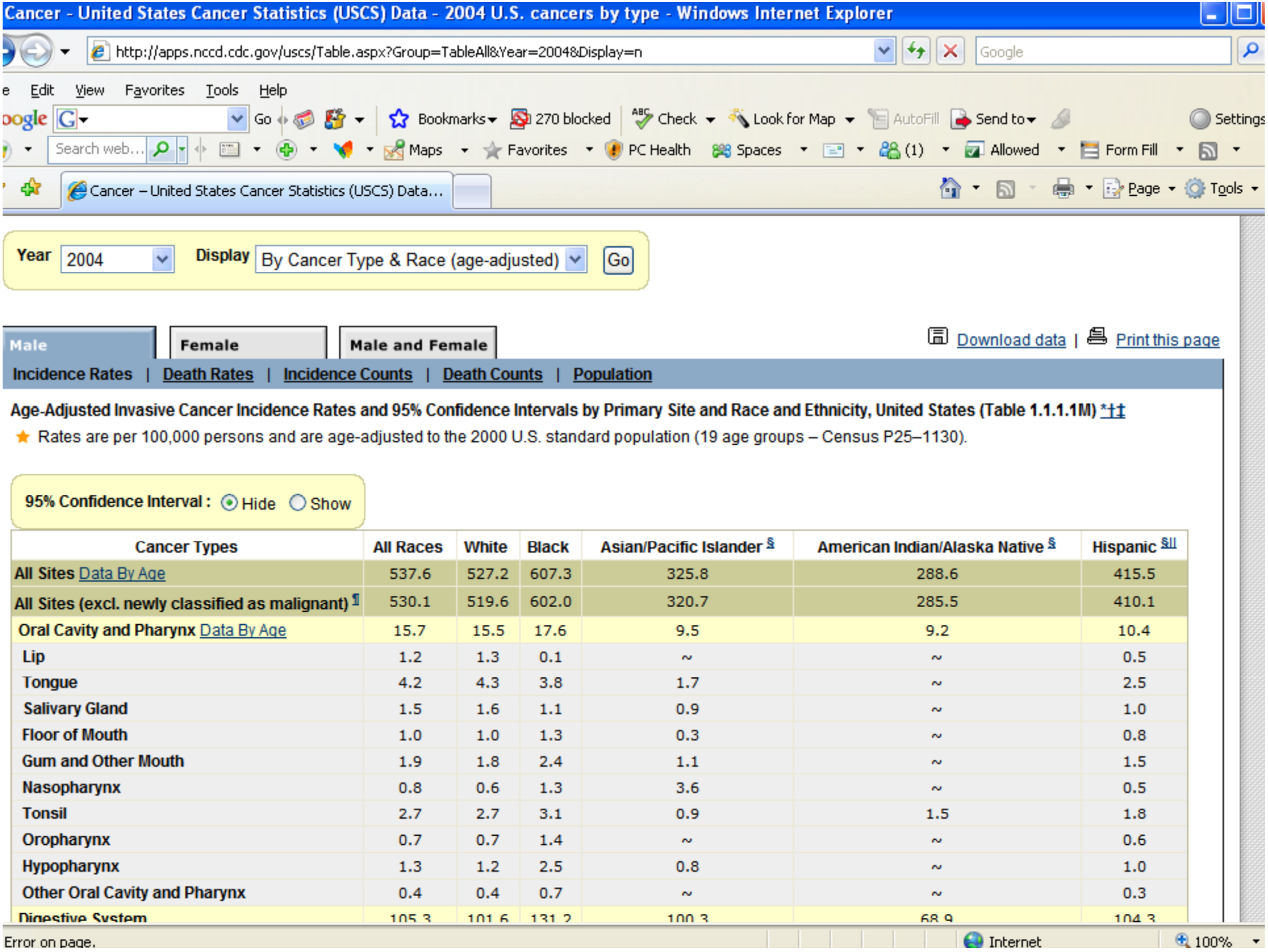
Cancer - United States Cancer Statistics (USCS) Data - 2004 U.S. cancers by type - Windows Internet Explorer
http://apps.nccd.cdc.gov/uscs/Table.aspx?Group=TableAll&Year=2004&Display=n
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Search web... Maps Favorites PC Health Spaces (1) Allowed Form Fill
Cancer – United States Cancer Statistics (USCS) Data...
Page Tools
Year 2004 Display By Cancer Type & Race (age-adjusted) Go
Male Female Male and Female
Download data | Print this page
Incidence Rates | Death Rates | Incidence Counts | Death Counts | Population
Age-Adjusted Invasive Cancer Incidence Rates and 95% Confidence Intervals by Primary Site and Race and Ethnicity, United States (Table 1.1.1.1M) *††
Rates are per 100,000 persons and are age-adjusted to the 2000 U.S. standard population (19 age groups – Census P25–1130).
95% Confidence Interval : Hide Show
Cancer Types | All Races | White | Black | Asian/Pacific Islander § | American Indian/Alaska Native § | Hispanic §ll
All Sites Data By Age | 537.6 | 527.2 | 607.3 | 325.8 | 288.6 | 415.5
All Sites (excl. newly classified as malignant) ¶ | 530.1 | 519.6 | 602.0 | 320.7 | 285.5 | 410.1
Oral Cavity and Pharynx Data By Age | 15.7 | 15.5 | 17.6 | 9.5 | 9.2 | 10.4
Lip | 1.2 | 1.3 | 0.1 | ~ | ~ | 0.5
Tongue | 4.2 | 4.3 | 3.8 | 1.7 | ~ | 2.5
Salivary Gland | 1.5 | 1.6 | 1.1 | 0.9 | ~ | 1.0
Floor of Mouth | 1.0 | 1.0 | 1.3 | 0.3 | ~ | 0.8
Gum and Other Mouth | 1.9 | 1.8 | 2.4 | 1.1 | ~ | 1.5
Nasopharynx | 0.8 | 0.6 | 1.3 | 3.6 | ~ | 0.5
Tonsil | 2.7 | 2.7 | 3.1 | 0.9 | 1.5 | 1.8
Oropharynx | 0.7 | 0.7 | 1.4 | ~ | ~ | 0.6
Hypopharynx | 1.3 | 1.2 | 2.5 | 0.8 | ~ | 1.0
Other Oral Cavity and Pharynx | 0.4 | 0.4 | 0.7 | ~ | ~ | 0.3
Digestive System | 105.3 | 101.6 | 131.2 | 100.3 | 68.9 | 104.3
Error on page.
Internet
100%

CDC WONDER

- Online databases utilizing an ad hoc query system for analysis of public health data
  - http://wonder.cdc.gov/welcome.html
    - Under WONDER online databases, click on National Program of Cancer Registries OR
  - http://wonder.cdc.gov/cancer.html

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CDC WONDER

- Request form
  1. Organize table layout
     - Group results by up to 5 variables: leading cancer sites, cancer sites, childhood cancer, age group, sex, MSA, race, state, year
  2. Select location & years
     - All, 1999 - 2002

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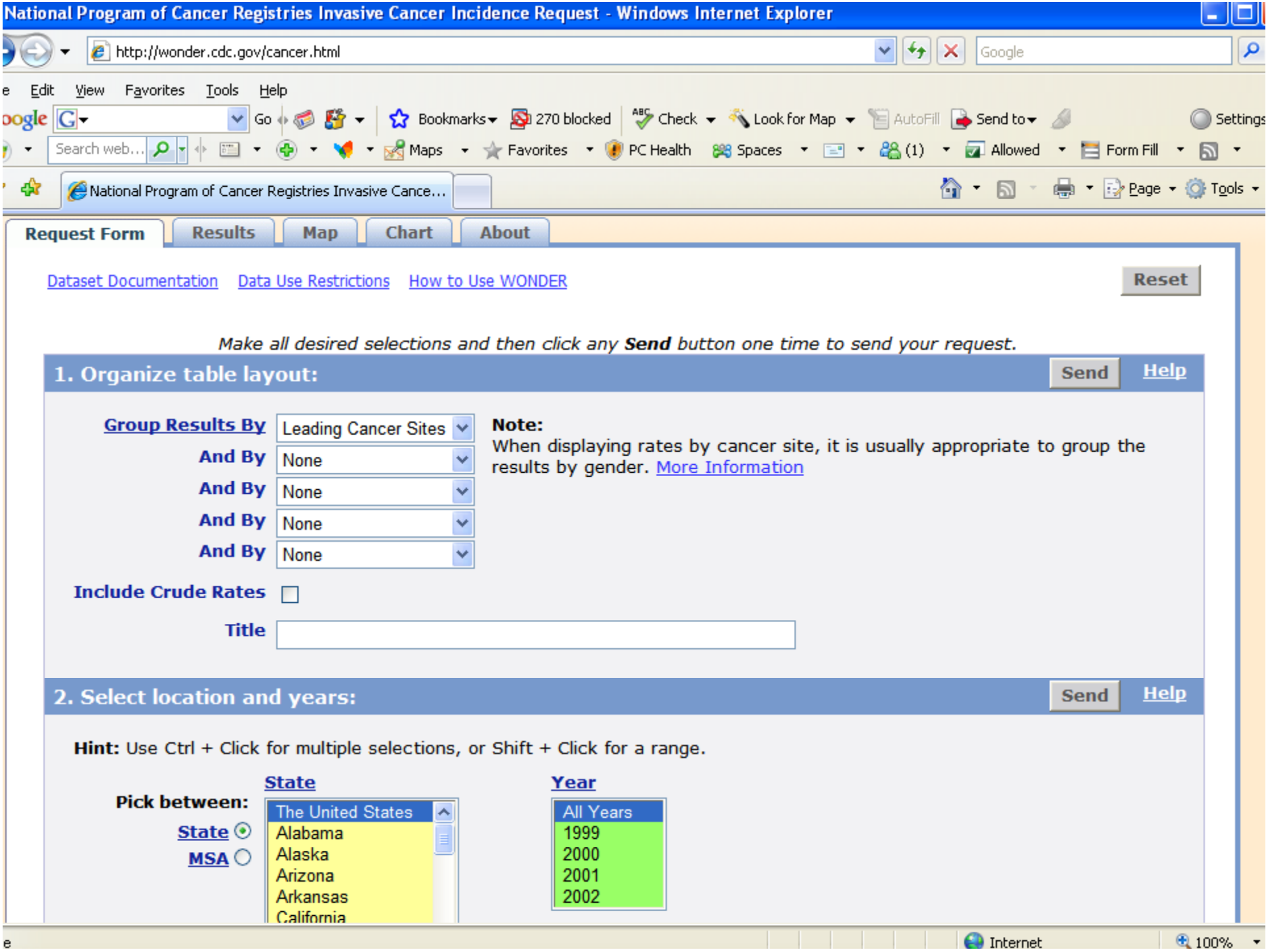
CDC WONDER

- Request form
  3. Select demographics
     - Age group, race, sex
  4. Select cancers of interest
     - All sites, all sites combined, specific site
  5. Other options

CDC WONDER

- Results
- Map
- Chart
- About


National Program of Cancer Registries Invasive Cancer Incidence Request - Windows Internet Explorer
http://wonder.cdc.gov/cancer.html
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Search web... Maps Favorites PC Health Spaces (1) Allowed Form Fill
National Program of Cancer Registries Invasive Cance...
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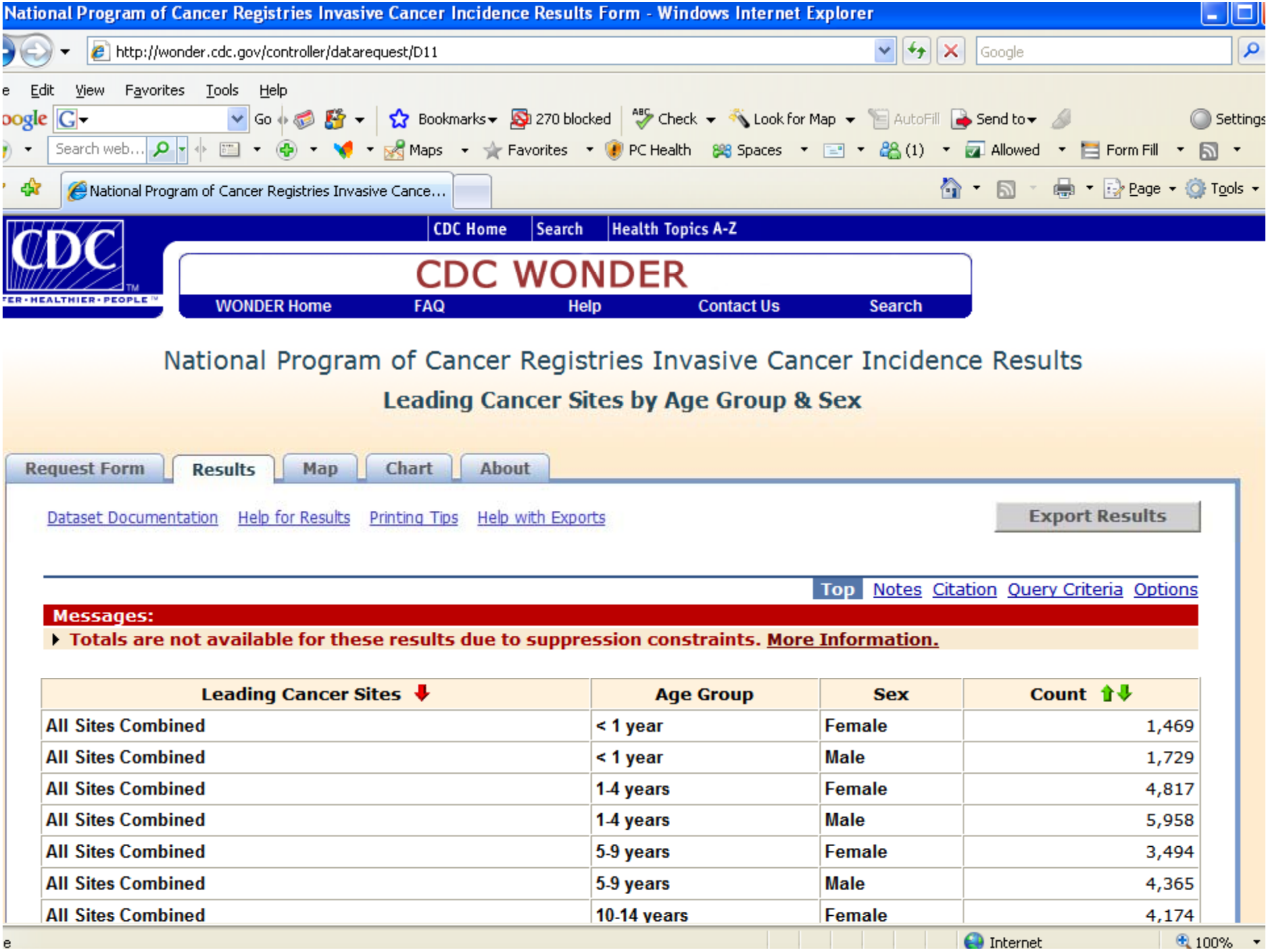
Request Form
Results
Map
Chart
About
Dataset Documentation
Data Use Restrictions
How to Use WONDER
Reset
Make all desired selections and then click any Send button one time to send your request.
1. Organize table layout:
Send
Help
Group Results By
Leading Cancer Sites
And By
None
And By
None
And By
None
And By
None
Note:
When displaying rates by cancer site, it is usually appropriate to group the results by gender. More Information
Include Crude Rates
Title
2. Select location and years:
Send
Help
Hint: Use Ctrl + Click for multiple selections, or Shift + Click for a range.
Pick between:
State
MSA
State
The United States
Alabama
Alaska
Arizona
Arkansas
California
Year
All Years
1999
2000
2001
2002
Internet
100%


National Program of Cancer Registries Invasive Cancer Incidence Results Form - Windows Internet Explorer
http://wonder.cdc.gov/controller/datarequest/D11
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Bookmarks 270 blocked Check Look for Map AutoFill Send to Settings
Search web... Maps Favorites PC Health Spaces (1) Allowed Form Fill
National Program of Cancer Registries Invasive Cance...
Page Tools
CDC Home Search Health Topics A-Z
CDC WONDER
WONDER Home FAQ Help Contact Us Search
National Program of Cancer Registries Invasive Cancer Incidence Results
Leading Cancer Sites by Age Group & Sex
Request Form Results Map Chart About
Dataset Documentation Help for Results Printing Tips Help with Exports
Export Results
Top Notes Citation Query Criteria Options
Messages:
Totals are not available for these results due to suppression constraints. More Information.
Leading Cancer Sites
Age Group
Sex
Count
All Sites Combined | < 1 year | Female | 1,469
All Sites Combined | < 1 year | Male | 1,729
All Sites Combined | 1-4 years | Female | 4,817
All Sites Combined | 1-4 years | Male | 5,958
All Sites Combined | 5-9 years | Female | 3,494
All Sites Combined | 5-9 years | Male | 4,365
All Sites Combined | 10-14 years | Female | 4,174
Internet
100%

SEER Comparison Data

- http://seer.cancer.gov
  - Finding cancer statistics
    - Cancer stat fact sheets
      - Statistical summaries for common cancer types

SEER Stat Fact Sheets - Cancer of the Colon and Rectum - Windows Internet Explorer
http://seer.cancer.gov/statfacts/html/colorect.html
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SEER Stat Fact Sheets - Cancer of the Colon and Rec...
Page Tools

Statistics Review
- Fast Stats
- State Cancer Profiles
- Cancer Query Systems

Help

- Glossary of Statistical Terms
- What type of cancer statistic do you need?

die of cancer of the colon and rectum in 2008[1].

The following information is based on NCI's SEER Cancer Statistics Review[2].

Incidence & Mortality

SEER Incidence

From 2001-2005, the median age at diagnosis for cancer of the colon and rectum was 71 years of age[3]. Approximately 0.1% were diagnosed under age 20; 1.0% between 20 and 34; 3.7% between 35 and 44; 11.6% between 45 and 54; 18.3% between 55 and 64; 25.1% between 65 and 74; 28.2% between 75 and 84; and 12.2% 85+ years of age.

The age-adjusted incidence rate was 50.6 per 100,000 men and women per year. These rates are based on cases diagnosed in 2001-2005 from 17 SEER geographic areas.

Incidence Rates by Race

Race/Ethnicity	Male	Female
All Races	59.2 per 100,000 men	43.8 per 100,000 women
White	58.9 per 100,000 men	43.2 per 100,000 women
Black	71.2 per 100,000 men	54.5 per 100,000 women
Asian/Pacific Islander	48.0 per 100,000 men	35.4 per 100,000 women
American Indian/Alaska Native [a]	46.0 per 100,000 men	41.2 per 100,000 women
Hispanic [b]	47.3 per 100,000 men	32.8 per 100,000 women

US Mortality

From 2001-2005, the median age at death for cancer of the colon and rectum was 75 years of age[4]. Approximately 0.0% died under age

Done
Internet
100%

SEER Comparison Data

- http://seer.cancer.gov
  - Finding cancer statistics
    - Fast stats
      - By cancer site
      - By race/ethnicity
      - By gender
      - By race and gender
      - By age at diagnosis/death
      - By data type

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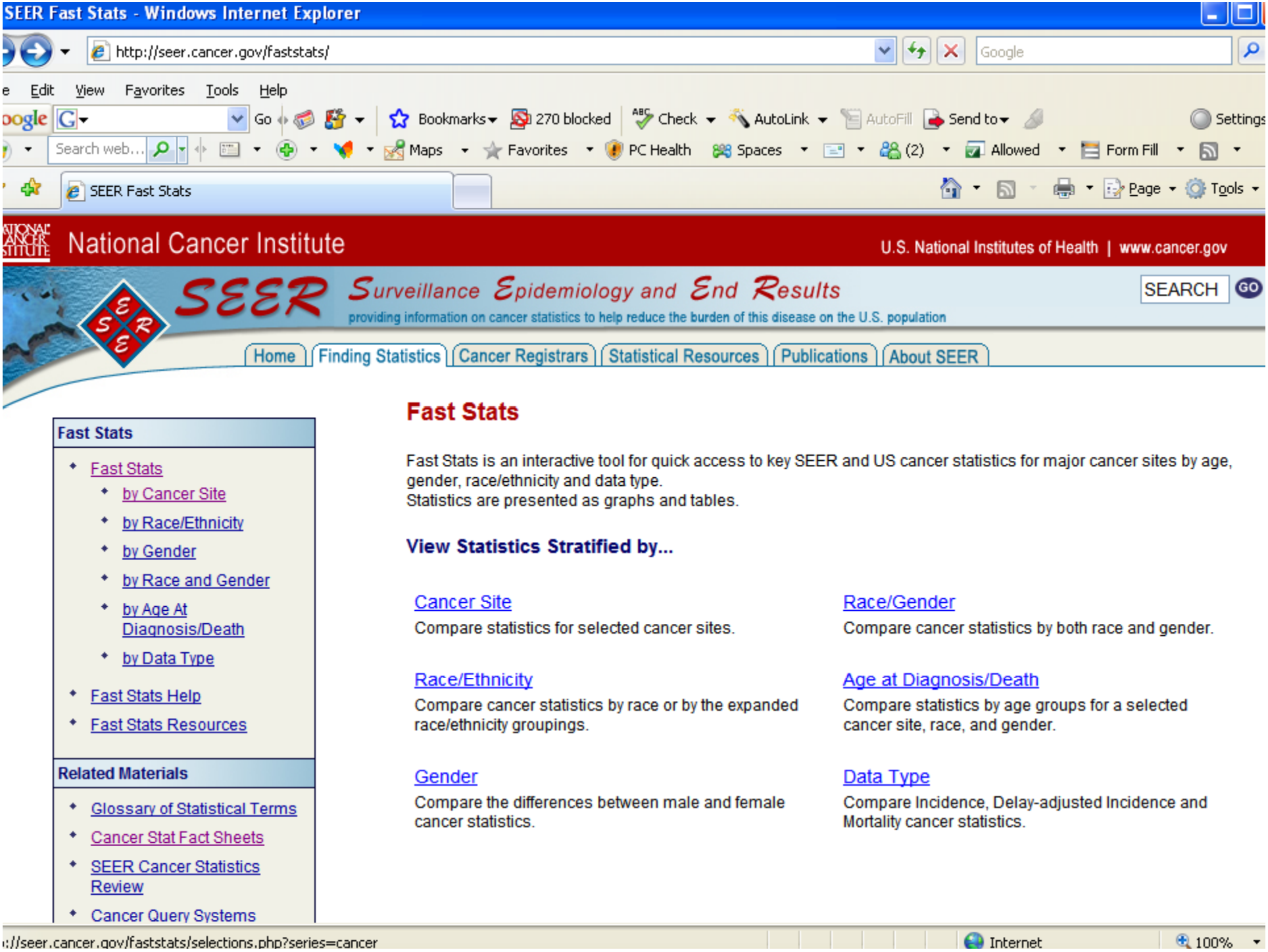
SEER Fast Stats - Windows Internet Explorer
http://seer.cancer.gov/faststats/
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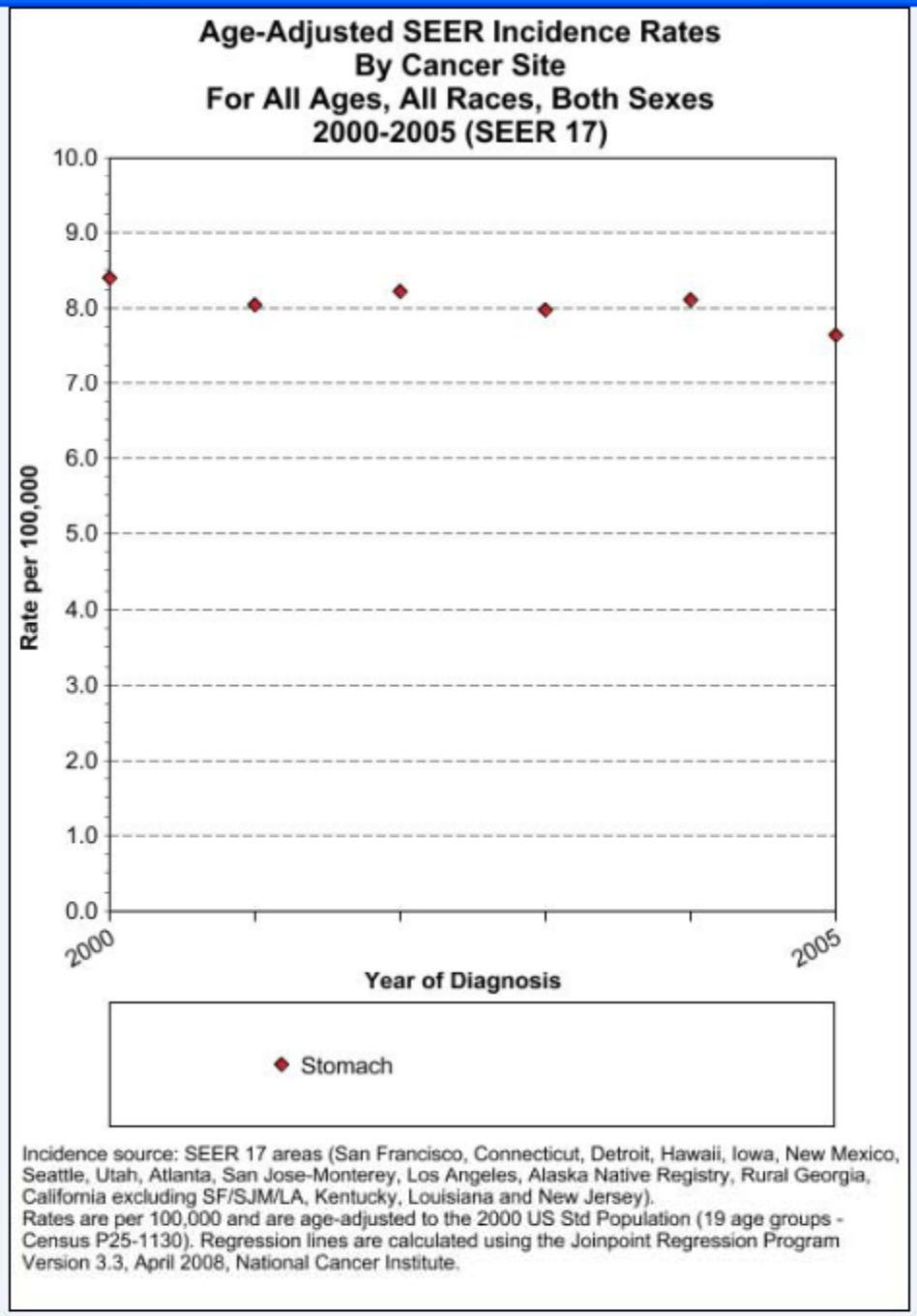
Bookmarks 270 blocked Check AutoLink AutoFill Send to Settings
Search web... Maps Favorites PC Health Spaces (2) Allowed Form Fill
SEER Fast Stats
Page Tools
National Cancer Institute
U.S. National Institutes of Health | www.cancer.gov
SEER Surveillance Epidemiology and End Results
providing information on cancer statistics to help reduce the burden of this disease on the U.S. population
SEARCH GO
Home Finding Statistics Cancer Registrars Statistical Resources Publications About SEER
Fast Stats
Fast Stats
by Cancer Site
by Race/Ethnicity
by Gender
by Race and Gender
by Age At Diagnosis/Death
by Data Type
Fast Stats Help
Fast Stats Resources
Related Materials
Glossary of Statistical Terms
Cancer Stat Fact Sheets
SEER Cancer Statistics Review
Cancer Query Systems
Fast Stats
Fast Stats is an interactive tool for quick access to key SEER and US cancer statistics for major cancer sites by age, gender, race/ethnicity and data type.
Statistics are presented as graphs and tables.
View Statistics Stratified by...
Cancer Site
Compare statistics for selected cancer sites.
Race/Gender
Compare cancer statistics by both race and gender.
Race/Ethnicity
Compare cancer statistics by race or by the expanded race/ethnicity groupings.
Age at Diagnosis/Death
Compare statistics by age groups for a selected cancer site, race, and gender.
Gender
Compare the differences between male and female cancer statistics.
Data Type
Compare Incidence, Delay-adjusted Incidence and Mortality cancer statistics.
://seer.cancer.gov/faststats/selections.php?series=cancer
Internet
100%

ststats[1] - Windows Picture and Fax Viewer



SEER Comparison Data

- http://seer.cancer.gov
  - Finding cancer statistics
    - State cancer profiles
    - Help finding cancer stats
      - Statistical tables
      - Graphs & maps
      - Reports on cancer
      - Research tools
      - Data sources

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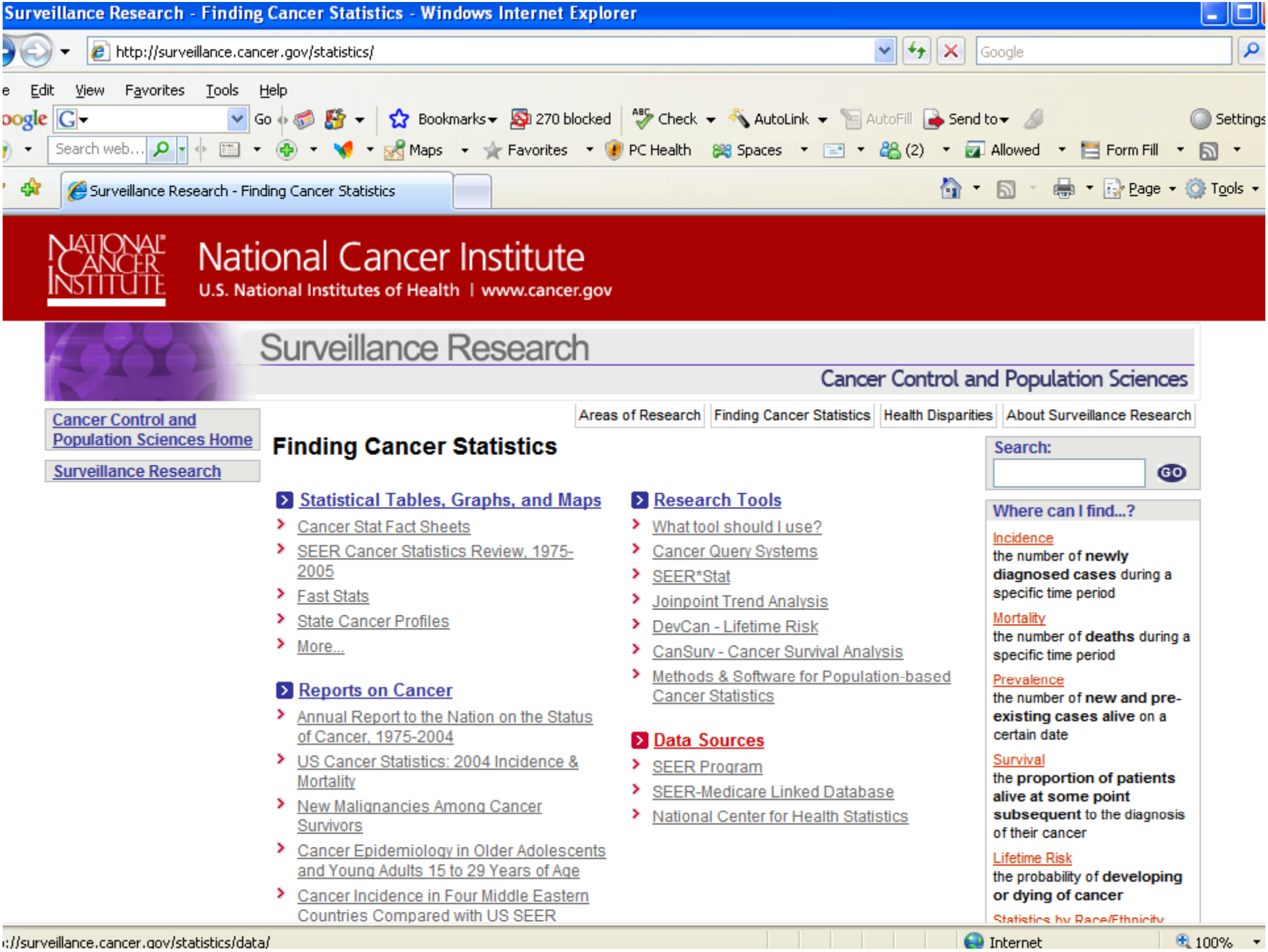
Surveillance Research - Finding Cancer Statistics - Windows Internet Explorer
http://surveillance.cancer.gov/statistics/
Google
Edit View Favorites Tools Help
Bookmarks 270 blocked Check AutoLink AutoFill Send to Settings
Search web... Maps Favorites PC Health Spaces (2) Allowed Form Fill
Surveillance Research - Finding Cancer Statistics
Page Tools
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U.S. National Institutes of Health | www.cancer.gov
Surveillance Research
Cancer Control and Population Sciences
Cancer Control and Population Sciences Home
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Health Disparities
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Cancer Stat Fact Sheets
SEER Cancer Statistics Review, 1975-2005
Fast Stats
State Cancer Profiles
More...
Reports on Cancer
Annual Report to the Nation on the Status of Cancer, 1975-2004
US Cancer Statistics: 2004 Incidence & Mortality
New Malignancies Among Cancer Survivors
Cancer Epidemiology in Older Adolescents and Young Adults 15 to 29 Years of Age
Cancer Incidence in Four Middle Eastern Countries Compared with US SEER
Research Tools
What tool should I use?
Cancer Query Systems
SEER*Stat
Joinpoint Trend Analysis
DevCan - Lifetime Risk
CanSurv - Cancer Survival Analysis
Methods & Software for Population-based Cancer Statistics
Data Sources
SEER Program
SEER-Medicare Linked Database
National Center for Health Statistics
Where can I find...?
Incidence
the number of newly diagnosed cases during a specific time period
Mortality
the number of deaths during a specific time period
Prevalence
the number of new and pre-existing cases alive on a certain date
Survival
the proportion of patients alive at some point subsequent to the diagnosis of their cancer
Lifetime Risk
the probability of developing or dying of cancer
Statistics by Race/Ethnicity
://surveillance.cancer.gov/statistics/data/
Internet
100%

State Data

- State cancer profiles
- Access to state website from NAACCR database
  - State-specific monograph or report
  - Aggregate data
  - Public use data file

Thank You!

Our next Hospital Registry Webinar will be: "Hospital Webinar: Abstracting Upper Gastrointestinal Tract Cancer Incidence & Treatment Data "

7/10/08

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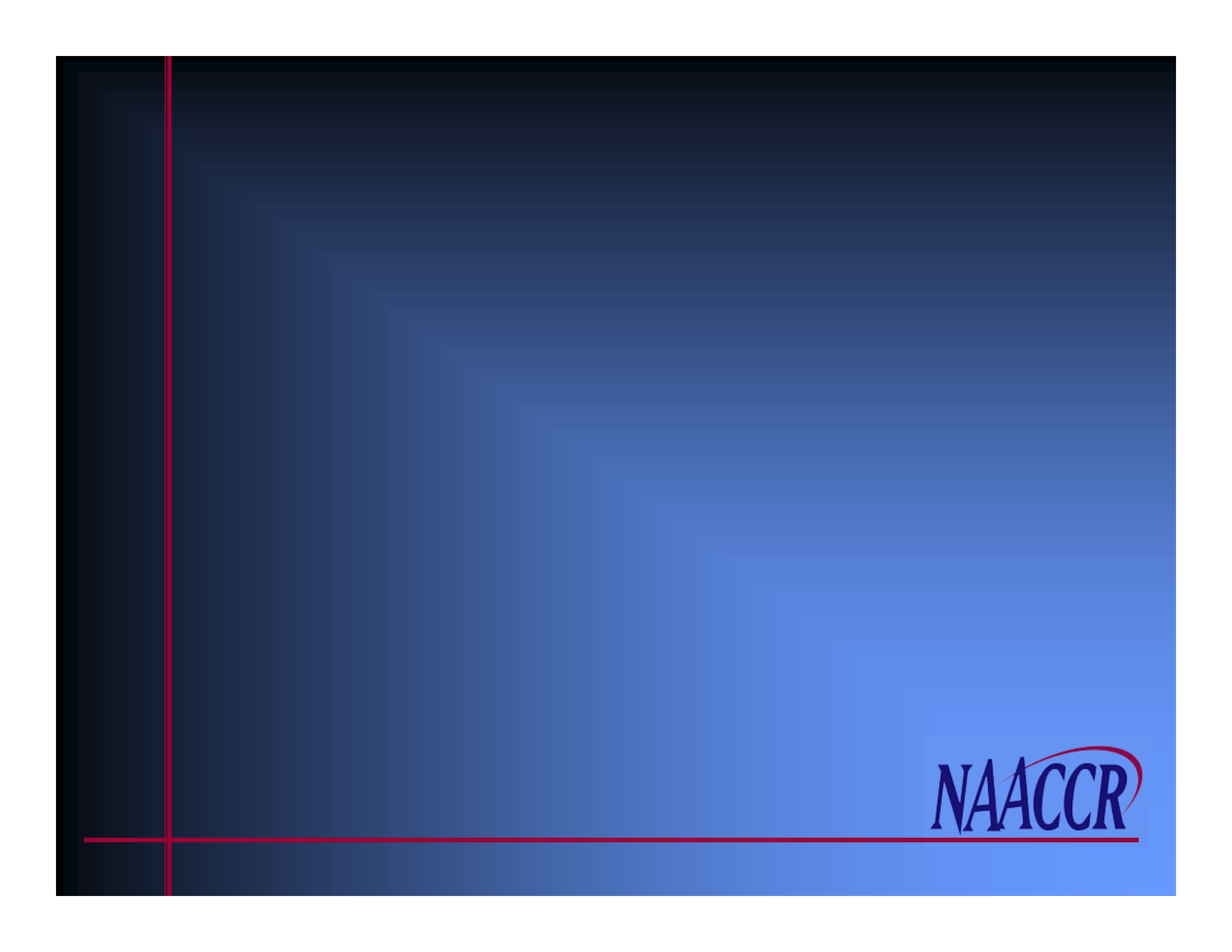
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