

07 — Social Data, Social Categories, and the State

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Data and the State

Load our libraries

```
library(here)      # manage file paths  
library(socviz)    # data and some useful functions  
library(tidyverse) # your friend and mine  
library(tidycensus) # Tidily interact with the US Census
```

Problem Set review

Grouping

```
library(palmerpenguins)
penguins
```

```
# A tibble: 344 × 8
```

	species	island	bill_length_mm	bill_depth_mm	flipper_length_mm	body_mass_g
	<fct>	<fct>	<dbl>	<dbl>	<int>	<int>
1	Adelie	Torgersen	39.1	18.7	181	3750
2	Adelie	Torgersen	39.5	17.4	186	3800
3	Adelie	Torgersen	40.3	18	195	3250
4	Adelie	Torgersen	NA	NA	NA	NA
5	Adelie	Torgersen	36.7	19.3	193	3450
6	Adelie	Torgersen	39.3	20.6	190	3650
7	Adelie	Torgersen	38.9	17.8	181	3625
8	Adelie	Torgersen	39.2	19.6	195	4675
9	Adelie	Torgersen	34.1	18.1	193	3475
10	Adelie	Torgersen	42	20.2	190	4250

```
# i 334 more rows
```

```
# i 2 more variables: sex <fct>, year <int>
```

Grouping

Always ask the question “What is a row in this table?”

Always ask the question “What do I want a row to be in the table I make”

Grouping

Always ask the question “What is a row in this table?”

Always ask the question “What do I want a row to be in the table I make”

```
penguins ▷  
  group_by(island) ▷  
  summarize(mean_bl_by_island = mean(bill_length_mm, na.rm = TRUE))
```

```
# A tibble: 3 × 2  
  island      mean_bl_by_island  
  <fct>          <dbl>  
1 Biscoe         45.3  
2 Dream          44.2  
3 Torgersen      39.0
```

Grouping

Always ask the question “What is a row in this table?”

Always ask the question “What do I want a row to be in the table I make”

```
penguins ▷  
  group_by(species) ▷  
  summarize(mean_bl_by_species = mean(bill_length_mm, na.rm = TRUE))
```

```
# A tibble: 3 × 2  
  species    mean_bl_by_species  
  <fct>          <dbl>  
1 Adelie          38.8  
2 Chinstrap       48.8  
3 Gentoo          47.5
```

Grouping

Always ask the question “What is a row in this table?”

Always ask the question “What do I want a row to be in the table I make”

```
penguins ▷  
  group_by(island) ▷  
  mutate(mean_bl_by_island = mean(bill_length_mm, na.rm = TRUE))
```

```
# A tibble: 344 × 9  
# Groups:   island [3]  
  species island    bill_length_mm bill_depth_mm flipper_length_mm body_mass_g  
  <fct>   <fct>         <dbl>         <dbl>           <int>         <int>  
1 Adelie  Torgersen         39.1          18.7             181           3750  
2 Adelie  Torgersen         39.5          17.4             186           3800  
3 Adelie  Torgersen         40.3           18              195           3250  
4 Adelie  Torgersen         NA            NA              NA            NA  
5 Adelie  Torgersen         36.7          19.3             193           3450  
6 Adelie  Torgersen         39.3          20.6             190           3650  
7 Adelie  Torgersen         38.9          17.8             181           3625  
8 Adelie  Torgersen         39.2          19.6             195           4675  
9 Adelie  Torgersen         34.1          18.1             193           3475  
10 Adelie Torgersen         42            20.2             190           4250  
# i 334 more rows  
# i 3 more variables: sex <fct>, year <int>, mean_bl_by_island <dbl>
```

Grouping and ranking

Always ask the question “What is a row in this table?”

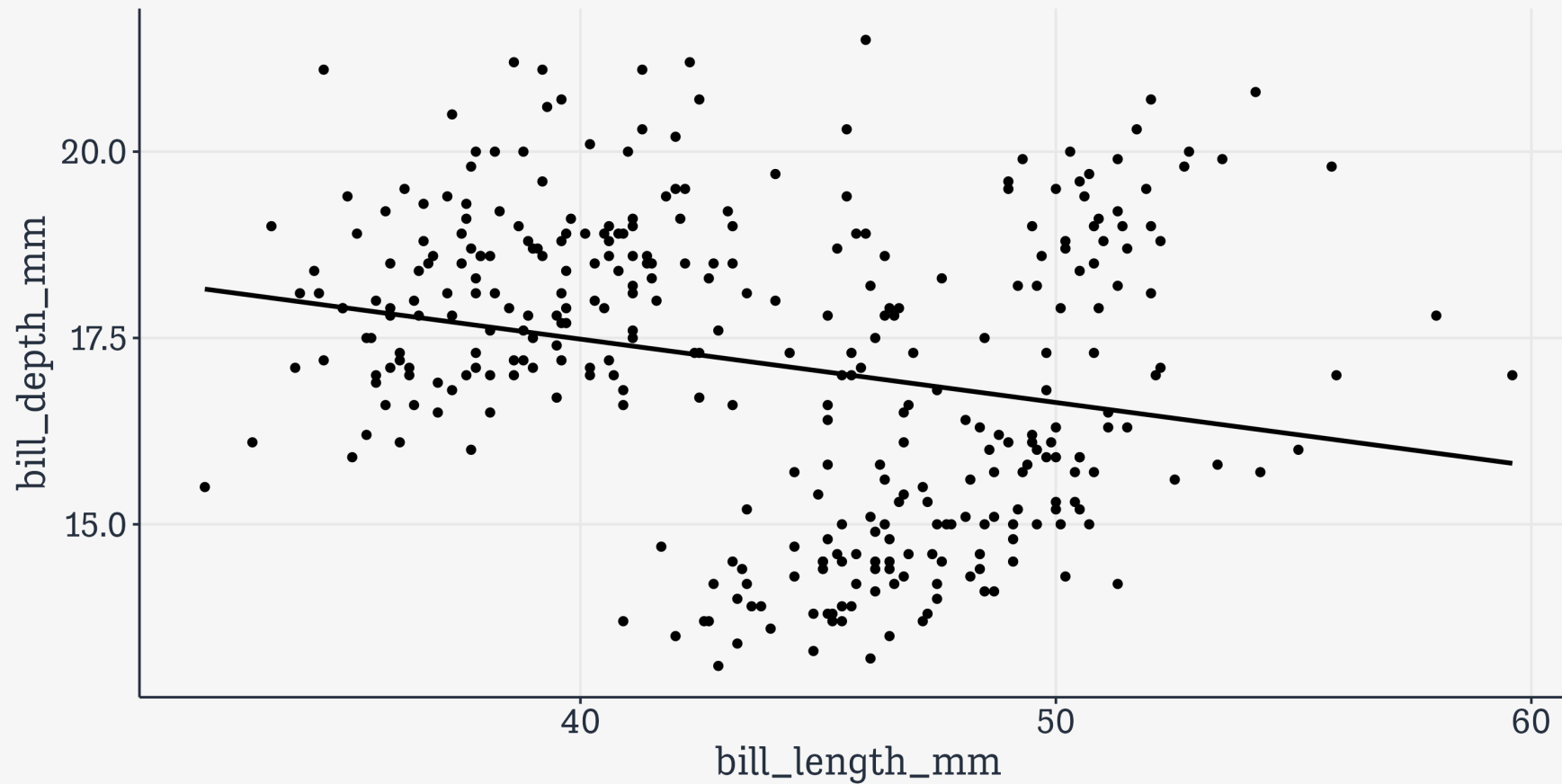
Always ask the question “What do I want a row to be in the table I make”

```
library(nycdogs)
nyc_license >
  group_by(borough, animal_name) >
  summarize(n_dogs = n()) >
  slice_max(n_dogs, n = 5)
```

```
# A tibble: 30 × 3
# Groups:   borough [6]
  borough animal_name n_dogs
  <chr>    <chr>      <int>
1 Bronx   Bella         777
2 Bronx   Max           688
3 Bronx   Rocky         504
4 Bronx   Princess      499
5 Bronx   Coco           481
6 Brooklyn Unknown     3417
7 Brooklyn Name       1494
8 Brooklyn Bella       1335
9 Brooklyn Max        1200
10 Brooklyn Name Not Provided 1074
# i 20 more rows
```

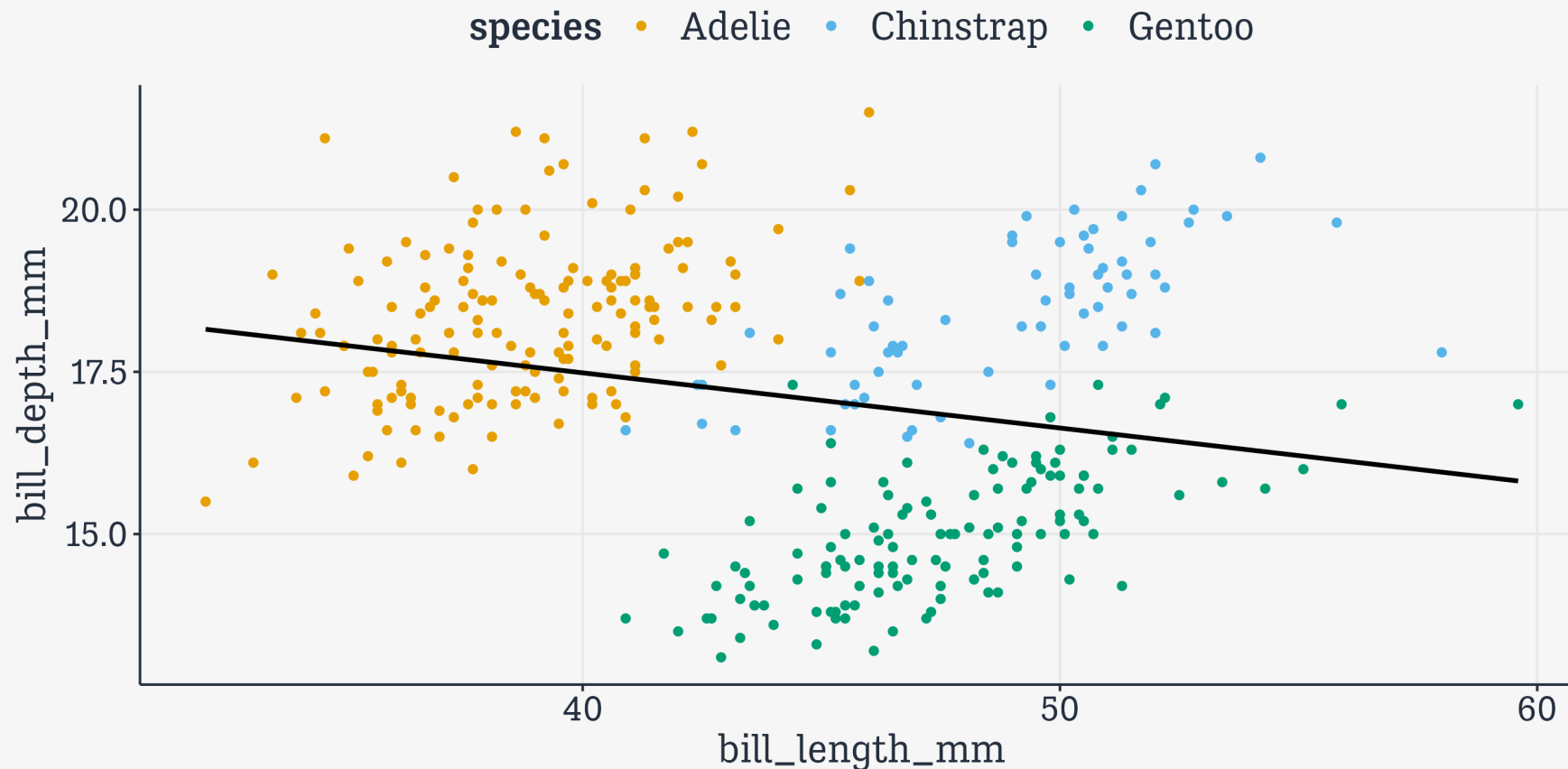
Groups and relationships

```
penguins >  
  ggplot(mapping = aes(x = bill_length_mm, y = bill_depth_mm)) +  
  geom_point() +  
  geom_smooth(method = "lm", color = "black", se = FALSE)
```



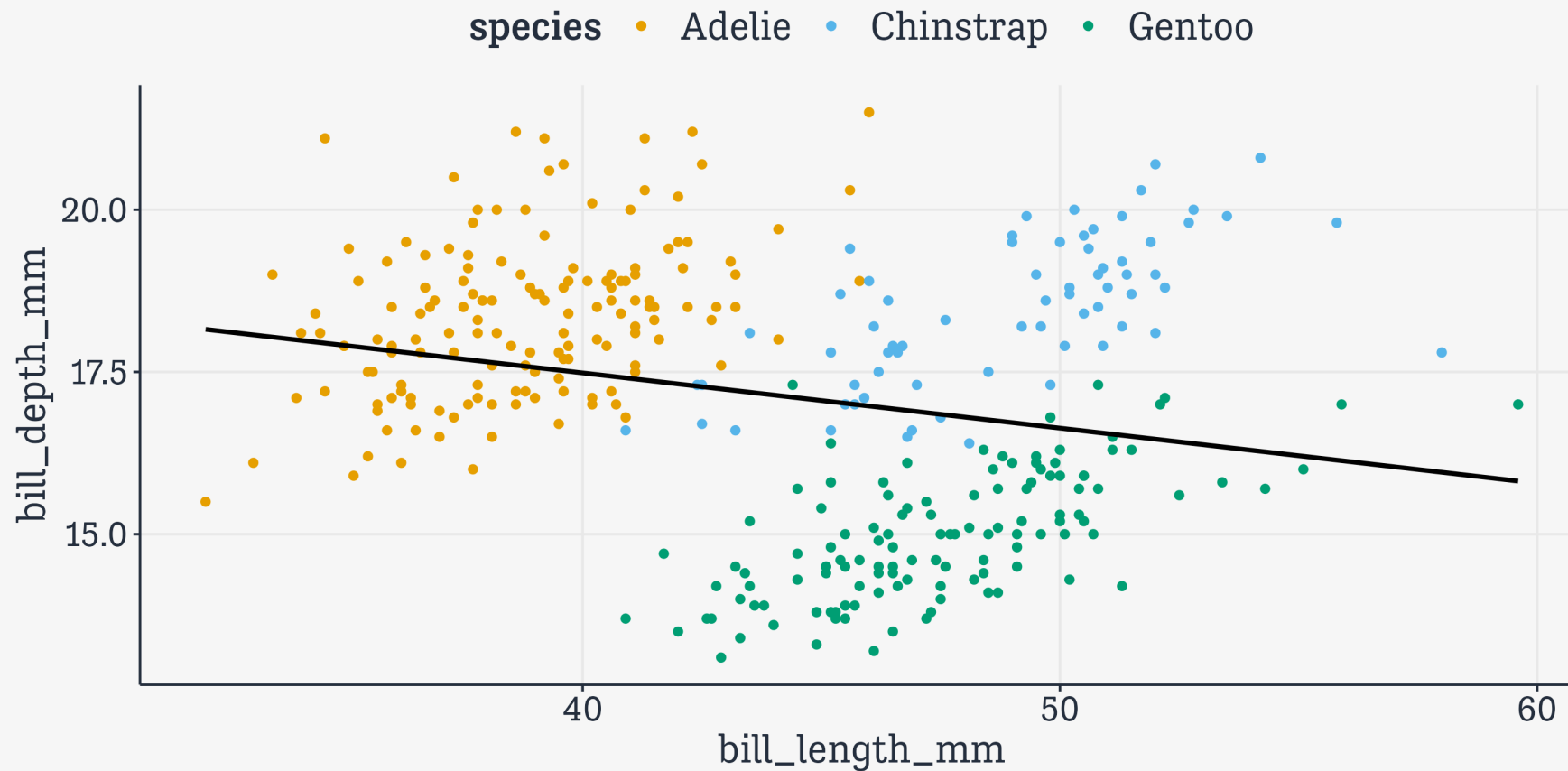
Groups and relationships

```
penguins >  
  ggplot(mapping = aes(x = bill_length_mm, y = bill_depth_mm)) +  
  geom_point(mapping = aes(color = species)) +  
  geom_smooth(method = "lm", color = "black", se = FALSE)
```



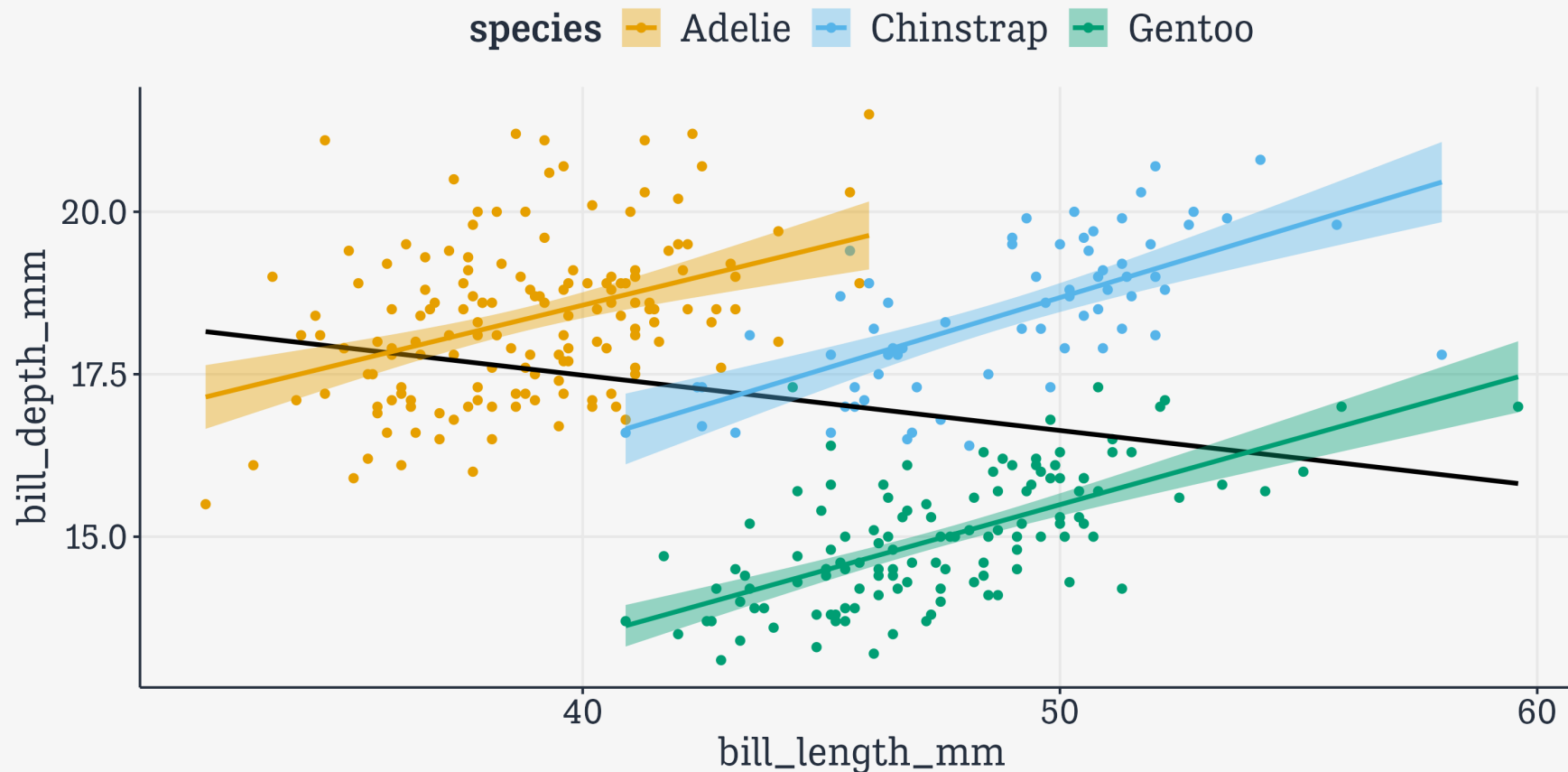
Groups and relationships

```
penguins >  
  ggplot(mapping = aes(x = bill_length_mm, y = bill_depth_mm)) +  
  geom_point(mapping = aes(color = species)) +  
  geom_smooth(method = "lm", color = "black", se = FALSE)
```



Groups and relationships

```
penguins >  
  ggplot(mapping = aes(x = bill_length_mm, y = bill_depth_mm)) +  
    geom_point(mapping = aes(color = species)) +  
    geom_smooth(method = "lm", color = "black", se = FALSE) +  
    geom_smooth(mapping = aes(color = species, fill = species),  
               method = "lm")
```



Simpson's Paradox

Aggregate trends or relationships between two variables, appear to reverse when broken out by category

Alternatively, a trend visible in various groups disappears or reverses when the groups are aggregated

What is data?

What is data?



A Trace
A Record
An Account

What is data?



**A Story
A Memory
A Promise**

What is data?



A Story
A Memory
A Promise

What is data?

An Action
A Device
A Resource

UNIVERSITY OF MINNESOTA - COMPTROLLER FORM 21	
DAY	
MO.	DAY
11	10
10	9
9	8
8	7
7	6
6	5
5	4
4	3
3	2
2	1
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45

DATE—April 27, 1927
Quarter—Third
Type—40 Invoice
Reference—Invoice No. 13624

HOLLERITH TABULATING CARD

Requisition No. 20792 (Open)
Sub-Act.—None
Fund—01 Support Fund
Budget—276 Bacteriology Supplies

Department—2102 Medical School—Bacteriology
Classification—4502 Chemicals
Amount—Debit \$17.45

What is data

1	2	3	4	CM	UM	Jp	Ch	Oc	In	20	50	80	Dv	Un	3	4	3	4	A	E	L	a	g
5	6	7	8	CL	UL	O	Mu	Qd	Mo	25	55	85	Wd	CY	1	2	1	2	B	F	M	b	h
1	2	3	4	CS	US	Mb	B	M	O	30	60	O	2	Mr	0	15	0	15	C	G	N	c	i
5	6	7	8	No	Hd	Wt	W	F	5	35	65	1	3	Sg	5	10	5	10	D	H	O	d	k
1	2	3	4	Fh	Ff	Fa	7	1	10	40	70	90	4	0	1	3	0	2	St	I	P	e	l
5	6	7	8	Hh	Hf	Hm	8	2	15	45	75	95	100	Un	2	4	1	3	4	K	Un	f	m
1	2	3	4	X	Un	Ft	9	3	i	e	X	R	L	E	A	6	0	US	Ir	So	US	Ir	So
5	6	7	8	Ot	En	Mt	10	4	k	d	Y	S	M	F	B	10	1	Gr	En	Wa	Gr	En	Wa
1	2	3	4	W	R	OK	11	5	l	e	Z	T	N	G	C	15	2	Sv	FC	EC	Sv	FC	EC
5	6	7	8	7	4	1	12	6	m	f	NG	U	O	H	D	Un	3	Nw	Bo	Hu	Nw	Bo	Hu
1	2	3	4	8	5	2	Oc	0	n	g	a	V	P	I	Al	Na	4	Dk	Fr	It	Dk	Fr	It
5	6	7	8	9	6	3	0	p	o	h	b	W	Q	X	Un	Pa	5	Ru	Ot	Un	Ru	Ot	Un

11015

What is data

1	2	3	4	CM	UM	Jp	Ch	Oc	In	20	50	80	Dv	Un	3	4	3	4	A	E	L	a	g			
5	6	7	8	C	F1	L	O	M	F3	d	Mo	25	55	85	V	F7	Y	1	F8	1	F9	B	F	M	b	h
1	2	3	4	CS	US	Mb	B	M	0	30	60	0	2	Mr	0	15	0	15	C	F10	N	c	F11			
5	6	7	8	No	Hd	Wf	W	F	5	F5	65	1	3	Sg	5	10	5	10	D	H	O	d	k			
1	2	3	4	Fh	F21	Fm	7	1	10	40	70	90	4	0	1	3	0	2	St	I	P	e	l			
5	6	7	8	Hh	Hm	8	2	15	45	75	95	100	Un	2	4	1	3	4	K	Un	f	m				
1	2	3	4	X	Un	Ft	9	3	i	c	X	R	L	E	A	6	0	US	Ir	Sc	US	Ir	Sc			
5	6	7	8	Ot	En	F20	10	4	k	d	Y	S	M	F	B	10	1	Gr	En	Wa	Gr	En	Wa			
1	2	3	4	W	R	OK	11	5	F17	Z	T	F16	G	C	F14	Sw	F13	EC	Sw	F12	EC					
5	6	7	8	7	F19	1	12	6	m	f	NG	U	O	H	D	Un	3	Nw	Bo	Hu	Nw	Bo	Hu			
1	2	3	4	8	5	2	Oc	0	n	g	a	V	P	I	Al	Na	4	Dk	Fr	It	Dk	Fr	It			
5	6	7	8	9	6	3	0	p	o	h	b	W	Q	K	U	F15	a	5	Ru	Ot	Un	Ru	Ot	Un		

11015

Example: The U.S. Census

The U.S. Census

[53]

NORTH-CAROLINA.

Halifax District.
Continued.

	Number of towns of less than 1000 miles.	Free white Males of 16 years and upwards.	Free white Males under 16 years.	Free white Females.	All other free Persons.	Slaves.	Total of free Persons of every description.	Total of every description of persons.
<i>Counties</i> { Franklin	809	1089	1400	2316	37	2717	4841	7559
{ Nash	854	1143	1426	2617	188	2009	5384	7393
{ Edgecomb	1360	1659	1879	3495	70	3142	7103	10255
{ Martin	795	1064	1009	2022	96	1889	4191	6088
<i>Hillsborough District.</i>								64630
{ Orange, includ.	1749	2433	2709	4913	101	2560	10156	12216
{ Hillsborough	1165	1581	1873	3050	315	4163	6810	10982
{ Granville	1322	1801	2110	3377	72	2736	7360	10096
{ Caswell	1394	1772	2089	3688	180	2463	7729	10192
{ Wake	1269	1756	2160	3664	9	1632	7589	9221
{ Chatham	1163	1582	1952	3266	24	451	6824	7176
<i>Salisbury District.</i>								59983
{ Rowan, includ.	2492	3288	3837	6864	97	1742	14086	15828
{ Salisbury	1741	2378	2573	4771	70	1603	9792	11395
{ Mecklenburgh	770	1118	1217	2219	3	838	4577	5435
{ Iredell	707	967	1111	1798	5	834	3891	4725
{ Montgomery	1093	1607	1709	3242	27	510	6674	7101
{ Guilford	844	1173	1413	2491	10	110	5087	6187
{ Rockingham	1076	1531	1762	3183	17	698	6493	7191
{ Surry	1329	1840	2104	3778	13	787	7741	8528
<i>Morgan District.</i>								66480
{ Burke	1257	1716	2111	3685	11	595	7523	8118
{ Wilks	1277	1614	2252	3726	2	549	7594	8143
{ Rutherford	1182	1584	2145	3463	2	614	7194	7808
{ Lincoln	1405	2058	2294	3937		935	8289	9224
<i>Total,</i>	52989	69988	77506	140710	49751	100371	203180	393751

The Marshal begs leave to observe that the Affiants having not returned the numbers of the different Towns separate from the Counties in which they were situated, renders it out of his power to make a distinct Return of them, but is satisfied that not one town in North-Carolina contains more than 2000 inhabitants.

JOHN SKINNER,
Marshal for North-Carolina District.

1790 Census record, North Carolina

The U.S. Census

1790

- Number of free white males aged under 16 years
- Number of free white males aged 16 years and upward
- Number of free white females
- Number of other free persons
- Number of slaves

The U.S. Census

1790

- Number of free white males aged under 16 years
- Number of free white males aged 16 years and upward
- Number of free white females
- Number of other free persons
- Number of slaves

1820

- The number of free White males and females
 - The number of male and female slaves
- The number of free colored males and females
 - Number of foreigners not naturalized

The U.S. Census

1830

- The number of slaves and free colored persons of each sex
- Number of foreigners not naturalized

The U.S. Census

1830

- The number of slaves and free colored persons of each sex
- Number of foreigners not naturalized

1850

- Free Inhabitants Questionnaire
- Slave Inhabitants Questionnaire
- Individual enslaved people listed by owner and assigned a number; names not recorded

The U.S. Census

1860

- “Color” Question, recorded as White, Black, Mulatto, Chinese, Indian

The U.S. Census

1860

- “Color” Question, recorded as White, Black, Mulatto, Chinese, Indian

1890

- “Race”, recorded as White, Black, Mulatto, Quadroon, Octoroon, Chinese, Japanese, or Indian.

The U.S. Census

1900

- “Color or Race”, recorded as White, Black, Chinese, Japanese, Indian

The U.S. Census

1900

- “Color or Race”, recorded as White, Black, Chinese, Japanese, Indian

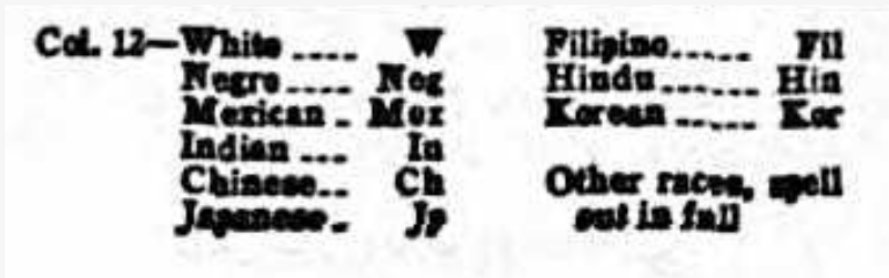
1910

- White, Black, Mulatto, Chinese, Japanese, Indian, Other

The U.S. Census

1930

“Mexican” a racial category



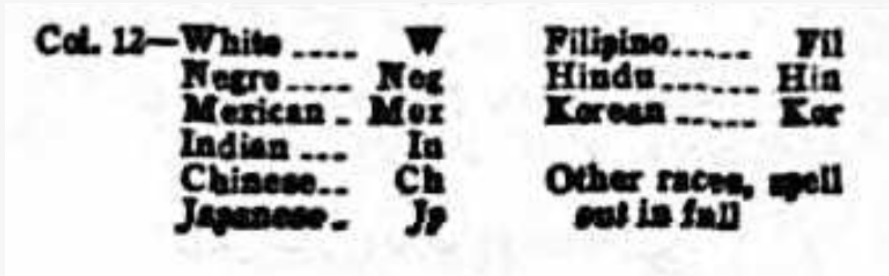
Col. 12—White	W	Filipino.....	Fil
Negro.....	Neg	Hindu.....	Hin
Mexican ..	Mex	Korean	Kor
Indian ...	In		
Chinese..	Ch	Other races, spell	
Japanese..	Jp	out in full	

“Mexican” category

The U.S. Census

1930

“Mexican” a racial category



A photograph of a document showing racial categories for the 1930 U.S. Census. It lists various groups with their corresponding symbols: White (W), Negro (Neg), Mexican (Mex), Indian (In), Chinese (Ch), Japanese (Jp), Filipino (Fil), Hindu (Hin), Korean (Kor), and a note for other races to be spelled out in full.

Col. 12—White	W	Filipino.....	Fil
Negro	Neg	Hindu.....	Hin
Mexican	Mex	Korean	Kor
Indian ...	In		
Chinese..	Ch	Other races, spell	
Japanese..	Jp	out in full	

“Mexican” category

1940

Personal Description

44. **Column 9. Sex.**—Write “*M*” for male and “*F*” for female.

45. **Column 10. Color or race.**—For symbols to be entered in this column, see the note at the bottom of the schedule. Any mixtures of white and nonwhite blood should be recorded according to the race of the nonwhite parent. A person of mixed Negro and Indian blood should be reported as Negro unless the Indian blood greatly predominates and he is universally accepted in the community as an *Indian*. Other mixtures of nonwhite parentage should be reported according to the race of the father. Mexicans are to be returned as *white*, unless definitely of Indian or other nonwhite race.

201738°—40—2

1940 race questions

The U.S. Census

1970

4. COLOR OR RACE		
<i>Fill one circle.</i> <i>If "Indian (American)," <u>also</u> give tribe.</i> <i>If "Other," <u>also</u> give race.</i>		
☐ White	☐ Japanese	☐ Hawaiian
☐ Negro or Black	☐ Chinese	☐ Korean
☐ Indian (Amer.)	☐ Filipino	☐ Other— <i>Print race</i>
<i>Print tribe</i> →		

The U.S. Census

1980

Race and Ethnicity

4. Is this person — <i>Fill one circle.</i>	<table><tr><td>☐ White</td><td>☐ Asian Indian</td></tr><tr><td>☐ Black or Negro</td><td>☐ Hawaiian</td></tr><tr><td>☐ Japanese</td><td>☐ Guamanian</td></tr><tr><td>☐ Chinese</td><td>☒ Samoan</td></tr><tr><td>☐ Filipino</td><td>☐ Eskimo</td></tr><tr><td>☐ Korean</td><td>☐ Aleut</td></tr><tr><td>☐ Vietnamese</td><td>☐ Other — <i>Specify</i> </td></tr><tr><td>☐ Indian (Amer.) <i>Print tribe</i> </td><td></td></tr></table>	☐ White	☐ Asian Indian	☐ Black or Negro	☐ Hawaiian	☐ Japanese	☐ Guamanian	☐ Chinese	☒ Samoan	☐ Filipino	☐ Eskimo	☐ Korean	☐ Aleut	☐ Vietnamese	☐ Other — <i>Specify</i> 	☐ Indian (Amer.) <i>Print tribe</i> 	
☐ White	☐ Asian Indian																
☐ Black or Negro	☐ Hawaiian																
☐ Japanese	☐ Guamanian																
☐ Chinese	☒ Samoan																
☐ Filipino	☐ Eskimo																
☐ Korean	☐ Aleut																
☐ Vietnamese	☐ Other — <i>Specify</i> 																
☐ Indian (Amer.) <i>Print tribe</i> 																	

7. Is this person of Spanish/Hispanic origin or descent? <i>Fill one circle.</i>	<table><tr><td>☐ No (not Spanish/Hispanic)</td></tr><tr><td>☐ Yes, Mexican, Mexican-Amer., Chicano</td></tr><tr><td>☐ Yes, Puerto Rican</td></tr><tr><td>☐ Yes, Cuban </td></tr><tr><td>☐ Yes, other Spanish/Hispanic</td></tr></table>	☐ No (not Spanish/Hispanic)	☐ Yes, Mexican, Mexican-Amer., Chicano	☐ Yes, Puerto Rican	☐ Yes, Cuban 	☐ Yes, other Spanish/Hispanic
☐ No (not Spanish/Hispanic)						
☐ Yes, Mexican, Mexican-Amer., Chicano						
☐ Yes, Puerto Rican						
☐ Yes, Cuban 						
☐ Yes, other Spanish/Hispanic						

The U.S. Census

1990

4. **Race**
Fill ONE circle for the race that the person considers himself/herself to be.

If **Indian (Amer.)**, print the name of the enrolled or principal tribe. _____

If **Other Asian or Pacific Islander (API)**, print one group, for example: Hmong, Fijian, Laotian, Thai, Tongan, Pakistani, Cambodian, and so on. _____

If **Other race**, print race. _____

☐ White
☐ Black or Negro
☐ Indian (Amer.) (Print the name of the enrolled or principal tribe.) _____
☐ Eskimo
☐ Aleut
☐ Asian or Pacific Islander (API)
☐ Chinese
☐ Filipino
☐ Hawaiian
☐ Korean
☐ Vietnamese
☐ Japanese
☐ Asian Indian
☐ Samoan
☐ Guamanian
☐ Other API _____
☐ Other race (Print race) _____

7. **Is this person of Spanish/Hispanic origin?**
Fill ONE circle for each person.

If **Yes, other Spanish/Hispanic**, print one group. _____

☐ No (not Spanish/Hispanic)
☐ Yes, Mexican, Mexican-Am., Chicano
☐ Yes, Puerto Rican
☐ Yes, Cuban
☐ Yes, other Spanish/Hispanic (Print one group, for example: Argentinean, Colombian, Dominican, Nicaraguan, Salvadoran, Spaniard, and so on.) _____

2000

7. Is Person 1 Spanish/Hispanic/Latino? Mark ☒ the "No" box if **not** Spanish/Hispanic/Latino.

2010

8. Is Person 1 of Hispanic, Latino, or Spanish origin?

- ☐ **No**, not of Hispanic, Latino, or Spanish origin
- ☐ Yes, Mexican, Mexican Am., Chicano
- ☐ Yes, Puerto Rican
- ☐ Yes, Cuban
- ☐ Yes, another Hispanic, Latino, or Spanish origin — *Print origin, for example, Argentinean, Colombian, Dominican, Nicaraguan, Salvadoran, Spaniard, and so on.* ↴

[illegible]

☐ White

☐ Black, African Am., or Negro

☐ American Indian or Alaska Native — *Print name of enrolled or principal tribe.* [7](#)

[illegible]

- | | | |
|---|-------------------------------------|--|
| ☐ Asian Indian | ☐ Japanese | ☐ Native Hawaiian |
| ☐ Chinese | ☐ Korean | ☐ Guamanian or Chamorro |
| ☐ Filipino | ☐ Vietnamese | ☐ Samoan |
| ☐ Other Asian — <i>Print race, for example, Hmong, Laotian, Thai, Pakistani, Cambodian, and so on.</i> ↴ | | ☐ Other Pacific Islander — <i>Print race, for example, Fijian, Tongan, and so on.</i> ↴ |

[illegible]

- Some other race — *Print race.*

[illegible]

The U.S. Census

2020

9. What is Person 1's race?

Mark ☒ one or more boxes **AND** print origins.

- ☐ White – Print, for example, German, Irish, English, Italian, Lebanese, Egyptian, etc. ↴

- ☐ Black or African Am. – Print, for example, African American, Jamaican, Haitian, Nigerian, Ethiopian, Somali, etc. ↴

- ☐ American Indian or Alaska Native – Print name of enrolled or principal tribe(s), for example, Navajo Nation, Blackfeet Tribe, Mayan, Aztec, Native Village of Barrow Inupiat Traditional Government, Nome Eskimo Community, etc. ↴

- | | | |
|--|---|--|
| ☐ Chinese | ☐ Vietnamese | ☐ Native Hawaiian |
| ☐ Filipino | ☐ Korean | ☐ Samoan |
| ☐ Asian Indian | ☐ Japanese | ☐ Chamorro |
| ☐ Other Asian – Print, for example, Pakistani, Cambodian. | ☐ Other Pacific Islander – Print, for example, Tongan, Fijian. | |

→ NOTE: Please answer BOTH Question 8 about Hispanic origin and Question 9 about race. For this census, Hispanic origins are not races.

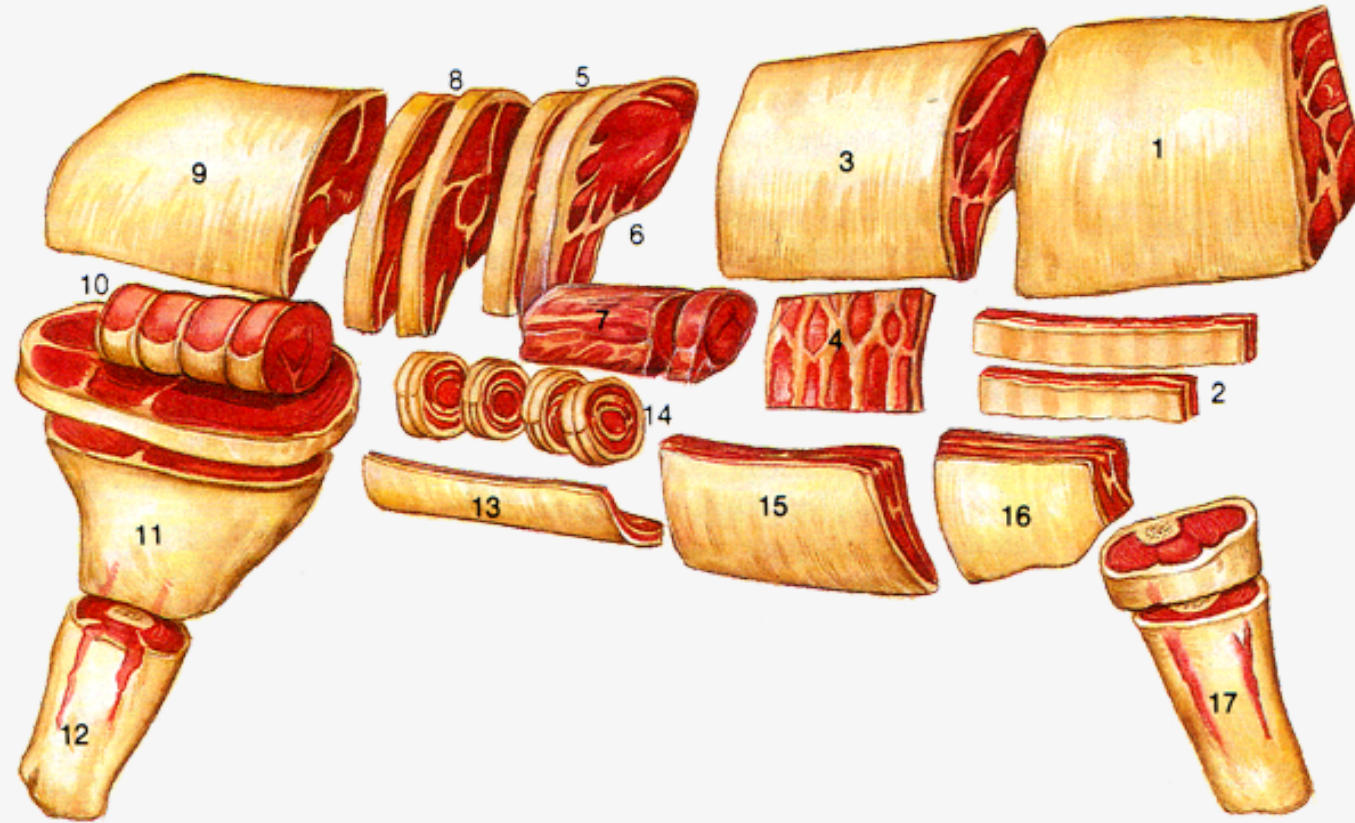
8. Is Person 1 of Hispanic, Latino, or Spanish origin?

- ☐ No, not of Hispanic, Latino, or Spanish origin
- ☐ Yes, Mexican, Mexican Am., Chicano
- ☐ Yes, Puerto Rican
- ☐ Yes, Cuban
- ☐ Yes, another Hispanic, Latino, or Spanish origin – Print, for example, Salvadoran, Dominican, Colombian, Guatemalan, Spaniard, Ecuadorian, etc. ↴

Social Classification

Categories and Classes

AMERICAN BEEF CUTS



American Beef Cuts

Categories and Classes

FRENCH BEEF CUTS



French Beef Cuts

Categories and Classes

The Table of CAS

The Years of our Lord		1647	1648	1649	1650	1651	1652	1653	1654	1655	1656	1657	1658	1659	1660	1661	1662
Above and Still-born	335	329	327	351	359	381	381	384	433	483	419	463	467	467	467	467	467
Age and Fever	316	383	389	596	706	834	804	874	743	792	869	899	1176	1176	1176	1176	1176
Apoplex and Suddeny	1450	884	711	970	1038	1113	1113	1118	86	92	102	113	138	138	138	138	138
Bleach	8	74	4	5	2	2	2	2	2	2	2	2	2	2	2	2	2
Blasted	4	1	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Bleeding	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Bloudy Flux, Scouring and Flux	155	176	802	289	833	762	200	386	168	362	233	233	233	233	233	233	233
Burnt and Scalded	3	6	10	1	11	8	1	1	7	10	5	7	4	7	4	7	4
Calculus	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Cancer, Gangrene and Fistula	26	29	31	19	31	53	36	37	73	31	24	35	35	35	35	35	35
Cat of the Stomach	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Choke, Sore-mouth and Thrush	66	18	54	42	68	51	53	72	44	81	19	27	27	27	27	27	27
Cholera	151	164	711	970	1038	1113	1113	1118	86	92	102	113	138	138	138	138	138
Chronics and Infants	1399	1254	1055	992	1237	1280	1280	1343	1089	1393	1162	1162	1162	1162	1162	1162	1162
Cold and Wind	103	71	85	82	70	102	80	101	85	120	113	113	113	113	113	113	113
Cold and Consumption	223	2200	2388	1889	2390	2410	2410	2868	2868	2868	2868	2868	2868	2868	2868	2868	2868
Convulsion	1864	491	530	499	599	653	669	709	709	709	709	709	709	709	709	709	709
Cramp	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Cut of the Stomach	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Dropsie and Tympany	185	434	431	508	444	533	617	704	660	709	631	631	631	631	631	631	631
Drowned	47	40	30	27	49	50	53	30	43	49	63	63	63	63	63	63	63
Excessive drinking	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Executed	8	17	29	43	24	12	19	21	19	22	20	18	18	18	18	18	18
Fainted in a Bath	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Falling-Sickness	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Flux and small Pox	139	400	1100	184	325	1279	139	812	1594	833	835	835	835	835	835	835	835
Found dead in the Streets	6	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
French-Pox	18	29	15	18	21	20	20	20	20	23	23	23	23	23	23	23	23
Frigid	4	4	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Gout	9	5	12	9	7	7	5	6	8	7	8	7	8	7	8	7	8
Grind	12	13	16	7	17	14	11	17	10	13	10	12	10	12	10	12	10
Hanged, and made-away themselves	11	10	13	14	9	14	15	9	14	10	14	24	18	24	18	24	18
Hem-Ach	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Jaundice	57	35	30	49	41	43	57	71	61	41	46	77	41	46	77	41	46
Ja-waln	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Impostume	75	76	65	59	80	105	79	99	99	122	86	134	134	134	134	134	134
Itch	27	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Killed by several Accidents	27	29	39	94	47	45	57	58	52	43	52	47	52	47	52	47	52
King's Evil	27	20	22	19	22	20	20	26	27	24	23	28	28	28	28	28	28
Leprosy	3	4	2	4	4	4	3	10	9	4	6	2	6	2	6	2	6
Liverrone	13	46	56	59	65	72	67	65	62	50	38	51	38	51	38	51	38
Liverrone and Spleen and Rickets	12	18	6	11	2	20	30	42	34	27	13	13	13	13	13	13	13
Megren	12	13	6	5	8	6	6	14	3	6	7	6	7	6	7	6	7
Mengles	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Molher	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Murdered	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Overlad and Starved at Nurse	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Palise	27	21	19	20	23	20	20	18	23	20	20	20	20	20	20	20	20
Plague	3597	641	97	11	23	110	32	12	87	315	646	16	16	16	16	16	16
Plague in the Guts	30	26	13	22	23	19	17	25	10	9	17	16	16	16	16	16	16
Poisoned	30	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Purples and Spotted Fever	145	47	43	61	54	60	76	59	56	52	56	52	56	52	56	52	56
Quintise and Sorethorax	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14
Rickets	150	224	216	100	260	230	272	247	438	317	476	317	476	317	476	317	476
Mother, rising of the Lights	96	115	124	115	124	115	124	115	124	115	124	115	124	115	124	115	124
Rupture	16	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
Said head	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Scurvey	33	20	21	21	29	43	41	44	103	71	82	82	82	82	82	82	82
Smothered and stifed	15	17	17	16	26	33	25	33	23	34	40	47	47	47	47	47	47
Sore, sicorn, broken and bruised	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Shot	12	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
Spleen	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Stingles	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Starved	4	8	7	1	2	1	1	1	2	1	3	1	3	1	3	1	3
Stitch	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Stone and Strangury	45	42	29	28	50	41	44	38	49	57	72	69	72	69	72	69	72
Stopping of the Stomach	19	39	30	31	55	67	66	107	94	145	139	277	277	277	277	277	277
Swine-Pox	17	137	136	124	104	177	116	116	116	116	116	116	116	116	116	116	116
Tenth and Worms	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Tissac	70	57	57	540	598	799	995	691	1131	805	1198	878	1036	878	1036	878	1036
Tursh	1	6	3	7	4	6	3	14	7	27	57	16	16	16	16	16	16
Tumour	147	1	107	105	61	85	86	53	1	1	1	1	1	1	1	1	1
Wen	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Worms	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Suddeny	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

1 Probably a name for confluent small pox

Figure 1.3

The table of casualties, England in the seventeenth century.

Source: I. Graunt 1662.

The table of casualties, England in the seventeenth century.

Source: J. Graunt 1662.

Categories and Classes

The Table of CAS

The Years of our Lord	1647	1648	1649	1650	1651	1652	1653	1654	1655	1656	1657	1658
Abortive and Stil-born	335	329	327	351	389	381	384	433	483	419	463	467
Aged	916	835	889	696	780	834	864	974	743	892	869	1176
Ague and Fever	1260	884	751	970	1038	1212	282	1371	689	875	999	1800
Apoplex and Suddenly	68	74	64	74	106	111	118	86	92	102	113	138
Bleach			1	3	7	2				1		
Blasted	4	1			6	6			4		5	5
Bleeding	3	2	5	1	3	4	3	2	7	3	5	4
Bloody Flux, Scouring and Flux	155	176	802	289	833	762	200	386	168	368	362	233
Burnt and Scalded	3	6	10	5	11	8	5	7	10	5	7	4
Calenture	1			1		2	1	1			3	
Cancer, Gangrene and Fistula	26	29	31	19	31	53	36	37	73	31	24	35
Wolf				8								
Canker, Sore-mouth and Thrush	66	28	54	42	68	51	53	72	44	81	19	27
Child-bed	161	106	114	117	206	213	158	192	177	201	236	225
Chrisoms and Infants	1369	1254	1065	990	1237	1280	1050	1343	1089	1393	1162	1144
Colick and Wind	103	71	85	82	76	102	80	101	85	120	113	179
Cold and Cough						41	36	21	58	30	31	
Consumption and Cough	2423	2200	2388	1988	2350	2410	2286	2868	2606	3184	2757	3610
Convulsion	684	491	530	493	569	653	606	828	702	1027	807	841
Cramp			1									
Cut of the Stone		2	1	3		1	1	2	4	1	3	5
Dropsie and Tympany	185	434	421	508	444	556	617	704	660	706	631	931
Drowned	47	40	30	27	49	50	53	30	43	49	63	60
Excessive drinking			2									
Executed	8	17	29	43	24	12	19	21	19	22	20	18
Fainted in a Bath					1							
Falling-Sickness	3	2	2	3		3	4	1	4	3	1	
Flox ¹ and small Pox	139	400	1190	184	525	1279	139	812	1294	823	835	409
Found dead in the Streets	6	6	9	8	7	9	14	4	3	4	9	11
French-Pox	18	29	15	18	21	20	20	20	29	25	25	53
Frighted	4	4	1		3		2		1	1		
Gout	9	5	12	9	7	7	5	6	8	7	8	13
Grief	12	13	16	7	17	14	11	17	10	13	10	12
Hanged, and made-away themselves	11	10	13	14	9	14	15	9	14	16	24	18
Head-Ach		1	11	2		2	6	6	5	3	4	5

Categories and Classes

Flox ¹ and small Pox	139	400	1190	184	525	1279	139	812	1294	823	835	409
Found dead in the Streets	6	6	9	8	7	9	14	4	3	4	9	11
French-Pox	18	29	15	18	21	20	20	20	29	23	25	53
Frighted	4	4	1		3		2		1	1		
Gout	9	5	12	9	7	7	5	6	8	7	8	13
Grief	12	13	16	7	17	14	11	17	10	13	10	12
Hanged, and made-away themselves	11	10	13	14	9	14	15	9	14	16	24	18
Head-Ach		1	11	2		2	6	6	5	3	4	5
Jaundice	57	35	39	49	41	43	57	71	61	41	46	77
Jaw-faln	1	1			3			2	2		3	1
Impostume	75	61	65	59	80	105	79	90	92	122	80	134
Itch		1										
Killed by several Accidents	27	57	39	94	47	45	57	58	52	43	52	47
King's Evil	27	26	22	19	22	20	26	26	27	24	23	28
Lethargy	3	4	2	4	4	4	3	10	9	4	6	2
Leprosie			1									1
Liver-grown, Spleen and Rickets	53	46	56	59	65	72	67	65	52	50	38	51
Lunatick	12	18	6	11	7	11	9	12	6	7	13	5
Meagrom	12	13		5	8	6	6	14	3	6	7	6
Measles	5	92	3	33	33	62	8	52	11	153	15	80
Mother	2					1	1	2	2	3		3
Murdered	3	2	7	5	4	3	3	3	9	6	5	7
Overlaid and Starved at Nurse	25	22	36	28	28	29	30	36	58	53	44	50
Palsie	27	21	19	20	23	20	29	18	22	23	20	22
→ Plague	3597	611	67	15	23	16	6	16	9	6	4	14
Plague in the Guts				1		110	32		87	315	446	
Pleurisie	30	26	13	20	23	19	17	25	10	9	17	16
Poisoned		3		7								
Purples and Spotted Fever	145	47	43	65	54	60	75	89	56	52	56	126
Quinsie and Sore-throat	14	11	12	17	24	20	18	9	15	13	7	10
Rickets	150	224	216	190	260	329	229	372	347	458	317	476
Mother, rising of the Lights	150	92	115	120	134	138	135	178	166	212	203	228
Rupture	16	7	7	6	7	16	7	15	11	20	19	18
Scal'd head	2				1				2			
Scurvy	32	20	21	21	29	43	41	44	103	71	82	82
Smothered and stifled			2									
Sores, ulcers, broken and bruised	15	17	17	16	26	32	25	32	23	34	40	47
Shot (Limbs)												
Spleen	12	17					13	13		6	2	5
Shingles												
Starved		4	8	7	1	2	1	1	3	1	3	6
Stitch				1								
Stone and Strangury												
Sciatica	45	42	29	28	50	41	44	38	49	57	72	69

Categories and Classes

Murdered	3	2	7	5	4	3	3	3	9	6	5	7
Overlaid and Starved at Nurse	25	22	36	28	28	29	30	36	58	53	44	50
Palsie	27	21	19	20	23	20	29	18	22	23	20	22
→ Plague	3597	611	67	15	23	16	6	16	9	6	4	14
Plague in the Guts				1		110	32	87	315	446		
Pleurisie	30	26	13	20	23	19	17	21	10	9	17	16
Poisoned		3		7								
Purples and Spotted Fever	145	47	43	65	54	60	75	89	56	52	56	126
Quinsie and Sore-throat	14	11	12	17	24	20	18	9	15	13	7	10
Rickets	150	224	216	190	260	329	229	372	347	458	317	476
Mother, rising of the Lights	150	92	115	120	134	138	135	178	166	212	203	228
Rupture	16	7	7	6	7	16	7	15	11	20	19	18
Scal'd head	2				1				2			
Scurvy	32	20	21	21	29	43	41	44	103	71	82	82
Smothered and stifled			2									
Sores, ulcers, broken and bruised	15	17	17	16	26	32	25	32	23	34	40	47
Shot (Limbs)												
Spleen	12	17					13	13		6	2	5
Shingles												
Starved		4	8	7	1	2	1	1	3	1	3	6
Stitch				1								
Stone and Strangury	45	42	29	28	50	41	44	38	49	57	72	69
Sciatica												
Stopping of the Stomach	29	29	30	33	55	67	66	107	94	145	129	277
Surfet	217	137	136	123	104	177	178	212	128	161	137	218
Swine-Pox	4	4	3				1	4	2	1	1	1
Teeth and Worms	767	597	540	598	709	905	691	1131	803	1198	878	1036
Tissick	62	47										
Thrush											57	66
Vomiting	1	6	3	7	4	6	3	14	7	27	16	19
Worms	147	107	105	65	85	86	53					
Wen	1		1		2	2			1		1	2
Suddenly												

¹ Probably a name for confluent small p

ICD Codes

TABULAR LIST

XII.—OLD AGE.

154. Senility.

This title includes:

Age (70y+)	Progressive asthenia (70y+)
Asthenia (70y+)	weakness (70y+)
Atony (70y+)	Prostration (70y+)
Atrophy (70y+)	Senectus
of old age	Senile asthenia
Cachexia (70y+)	atrophy
of old age	cachexia
Debility (70y+)	debility
of old age	decay
Decline (70y+)	degeneration
Degeneration (70y+)	dementia
Dementia of old age	exhaustion
Euthanasia (70y+)	fibrosis
Exhaustion (70y+)	heart
of old age	imbecility
General atrophy (70y+)	insanity
breaking down (70y+)	mania
debility (70y+)	marasmus
decline (70y+)	melancholia
marasmus (70y+)	paresis
senile failure	prostration
weakness (70y+)	psychosis
Gradual decline (70y+)	softening
Imbecility of old age	vascular degeneration
Inanition (from disease, 70y+)	weakness
Infirmity (70y+)	Senility
Malassimilation (70y+)	Vital degeneration (70y+)
Malnutrition (70y+)	Want of vitality (70y+)
Marasmus (70y+)	Wasting (70y+)
of old age	Weakness (70y+)
Morbus senilis	Worn out (70y+)
Old age	

This title does not include: Senile gangrene (142).—Senile paralysis (66).

Figure 2.4a

In 1913 it was still possible to die of being worn out.

Source: Department of Commerce, Bureau of the Census, *Manual of the International List of Causes of Death*, Department of Commerce, US Bureau of the Census, Washington, DC: Government Printing Office, 1913: 131.

ICD Codes

ERRORS IN TERMINOLOGY

247

Waldenström's disease	23512-911	Osteochondritis of capital epiphysis of femur
Wardrop's disease	173-100	Onychia
Wegener's disease	402-931	Essential polyangiitis
Wegner's disease	2...2-147.5	Osteochondritis with separation of epiphysis due to syphilis
Welch's disease	461-147	Syphilitic aortitis
Werner's disease	014-797	Progeria
White's disease	111-097	Keratosis follicularis
Widal-Abrami disease	501-9x0	Normocytic anemia, cause unknown
Wilkie's disease	4614-021	Displacement of abdominal aorta, prolapse
Wilks's disease	110-123	Tuberculosis luposa
Wilson's disease	110-966	Dermatitis exfoliativa
Wishart's syndrome	910-8453	Neurofibromatosis of meningeal and of perineural tissue
Witt's disease	501-736.x	Anemia, hypochromic microcytic, due to insufficient intake, absorption, or metabolism of iron
Wyatt's disease	930-997	Tuberous sclerosis

List of Terms to be Avoided

The following list includes nonacceptable terms which have been referred to the authors for assistance in classification and coding. Not any of these should ever be recorded as a diagnosis on a patient's chart. No attempt is made to list all such terms.

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TEXTBOOK AND GUIDE TO STANDARD NOMENCLATURE

Arteriosclerotic peripheral vascular disease	Hepatic flexure syndrome
Athlete's foot	Hobnail liver
August fever	Hydrocephalus, external
Barber's itch	Hydrocephalus, internal
Blue baby	Hydrocephalus, primary
Bed sores	Hydrocephalus, secondary
Blighted ovum	Housewife's dermatitis
Brittle nails	Hydrops fetalis
Burst belly	Hypersplenism
Carcinoid	Hypertensive crisis
Cardiac asthma	Hyperventilation
Cardiac cirrhosis	Hypotensive syndrome
Cardiovascular renal disease	Icterus neonatorum
Catarrhal jaundice	Indigestion
Cerebral accident	Infantile colic
Cervical occipital syndrome	Intervertebral disc syndrome
Chicleros disease	Intracranial tumor
Combat fatigue	Iron-storage disease
Consumption	Jeep disease
Coronary infarction	Jitter legs
Coughing disease	Jockey itch
Cow-horn stomach	Kissing spine
Deer-fly fever	La grippe
Desert rheumatism	Lice infestation
Devil's grippe	Lipoid nephrosis
Dhobie itch	Lipping spine
Diver's paralysis	Liver spots
Dust consumption	Lockjaw
Dysinsulinism	Louping ill
Dyskeratosis	Low leg syndrome
Engorged breasts	Low reserve kidney
Epicondylitis	Lumbar disc syndrome
Epidemic summer disease	Lumpy jaw
Fetal distress	Miner's nystagmus
Fetal erythroblastosis	Mazoplasia
Field fever	Milk leg
	Miner's asthma

ICD Codes

I50

Heart failure

Excludes: complicating:

- abortion or ectopic or molar pregnancy (O00–O07, O08.8)
- obstetric surgery and procedures (O75.4) due to hypertension (I11.0)
- with renal disease (I13.–) following cardiac surgery or due to presence of cardiac prosthesis (I97.1)
- neonatal cardiac failure (P29.0)

I50.0

Congestive heart failure

Congestive heart disease

Right ventricular failure (secondary to left heart failure)

I50.1

Left ventricular failure

Acute oedema of lung	}	with mention of heart disease NOS or heart failure
Acute pulmonary oedema		
Cardiac asthma		
Left heart failure		

I50.9

Heart failure, unspecified

Biventricular failure

Cardiac, heart or myocardial failure NOS

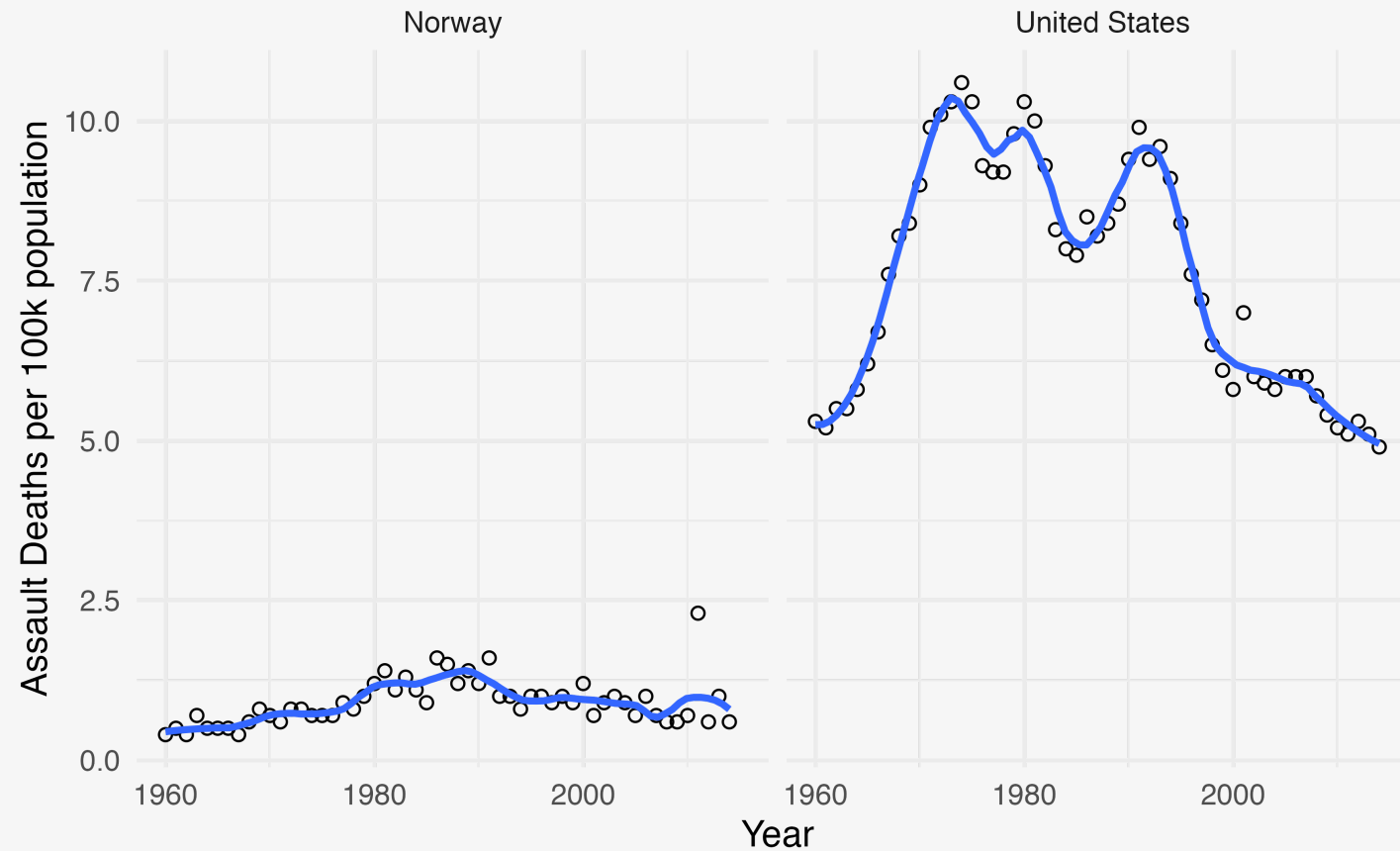
Figure 2.1

Heart failure as specified in the ICD-10.

Source: ICD 10, 1: 494.

ICD Codes

Assault Death Rates in Norway and the United States



ICD Codes

National Center for Health Statistics

CDC > NCHS > Classification of Diseases, Functioning, and Disability

 Classification of Diseases,
Functioning, and Disability

ICD-10-CM International
Classification of Diseases,
Tenth Revision, Clinical
Modification (ICD-10-CM)

ICD-9

ICD-10 (Mortality)

ICD-9-CM

ICD-10-CM/PCS Transition

Coordination and
Maintenance Committee
Main

ICF

**Classification of Death
and Injury Resulting
from Terrorism**

Appendix I

Classification of Death and Injury Resulting from Terrorism

[Print](#)

Introduction

The events of September 11 have had many repercussions especially in the health area. The Centers for Disease Control and Prevention (CDC) responded to the emergency with a number of immediate actions [\(1\)](#). For health data, the September 11 events present challenges, in particular, the urgent need for a classification that can be used to characterize and statistically classify, report, and analyze injuries, sequelae of injuries, and deaths associated with those events.

Categories of codes specifically for terrorism are absent from the two major classification systems used for mortality and morbidity statistics in the United States, respectively the World Health Organization's (WHO) International Classification of Diseases (ICD) and the United States' Clinical Modification of the ICD, Ninth Revision (ICD-9-CM). Without these additional codes, injuries and deaths associated with terrorism cannot be separately identified, making statistical assessment extremely difficult.

The National Center for Health Statistics (NCHS), the Department

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ICD Codes

X85-Y09, Y87.1, *U01-*U02 Assault (homicide)

*U01 Terrorism

Includes: Assault-related injuries resulting from the unlawful use of force or violence against persons or property to intimidate or coerce a Government, the civilian population, or any segment thereof, in furtherance of political or social objectives

*U01.0 Terrorism involving explosion of marine weapons

- Depth-charge
- Marine mine
- Mine NOS, at sea or in harbor
- Sea-based artillery shell
- Torpedo
- Underwater blast

*U01.1 Terrorism involving destruction of aircraft

Includes: Aircraft used as a weapon

- Aircraft:
 - Burned
 - Exploded
 - Shot down
 - Crushed by falling aircraft

*U01.2 Terrorism involving other explosions and fragments

- Antipersonnel bomb (fragments)
- Blast NOS
- Explosion (of):
 - NOS
 - artillery shell
 - breech-block

CDC WONDER



WONDER Search

WONDER Info

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CDC WONDER

WONDER online databases utilize a rich ad-hoc query system for the analysis of public health data. Reports and other query systems are also available.

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WONDER Online Databases

- ▶ [AIDS Public Use Data](#)
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Deaths:

All Ages:

- ▶ [Underlying Cause of Death](#)
- ▶ [Multiple Cause of Death \(Provisional\)](#)
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- ▶ [U.S. - Mexico Border Area Mortality](#)
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Environment:

- ▶ [Heat Wave Days May-September](#)
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- ▶ [Daily Land Surface Temperatures](#)
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- ▶ [Online Tuberculosis Information System](#)

Population:

- ▶ [Bridged-Race Population \(from NCHS\)](#)
- ▶ [Single-Race Population \(from Census\)](#)
- ▶ [Population Projections \(from Census\)](#)
- ▶ [Sexually Transmitted Disease Morbidity](#)
- ▶ [Vaccine Adverse Event Reporting](#)

▶ Denotes numerical data available to query or download

National Notifiable Conditions

- ▶ [NNDSS Annual Summary Data Query](#)
- ▶ [NNDSS Annual Tables](#)
- ▶ [NNDSS Weekly Tables](#)

Reports and References

- [Prevention Guidelines \(Archive\)](#)
- [Scientific Data and Documentation \(Archive\)](#)

Other Query Systems

- ▶ [Healthy People 2010 \(Archive\)](#)
- ▶ [122 Cities Weekly Mortality \(Archive\)](#)