

Lab 03 - Merging Data

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Load the necessary packages and dataset.

```
##load data
library(Lahman)
```

Question 1

What is the average salary of a player on the Oakland A's in 2002?

\$1,482,000

A player on the Boston Red Sox that same year?

\$3,612,000

What is the total budget of each franchise in 2002? Oakland A's: \$40,004,167 Boston Red Sox: \$108,366,060

To answer the question, merge the Salaries and Teams datasets.

```
data( Master )
data( Teams )
data( Salaries )
dat.salaries.teams <- merge( Salaries, Teams )
OAK2002.salaries <- dat.salaries.teams$name == "Oakland Athletics" & dat.salaries.teams$yearID == "2002"
#mean( dat.salaries.teams$salary [OAK2002.salaries], na.rm=T )#produces weird values
summary(dat.salaries.teams$salary [OAK2002.salaries])
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 202000  398800  812500 1482000 1662000 7167000
```

```
#find players on Red Sox in 2002
#merge that with salary
#find average
```

```
BOS2002.salaries <- dat.salaries.teams$name == "Boston Red Sox" & dat.salaries.teams$yearID == "2002"
#mean( dat.salaries.teams$salary [BOS2002.salaries], na.rm=T )#produces weird values
summary(dat.salaries.teams$salary [BOS2002.salaries])
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 200000  412500 2288000 3612000 5750000 15460000
```

```
#find the franchises in 2002
#find the salaries for each one
#sum the salaries for each one
#print as a table
```

```
sum( dat.salaries.teams$salary [OAK2002.salaries] )
```

```
## [1] 40004167
```

```
sum( dat.salaries.teams$salary [BOS2002.salaries] )
```

```
## [1] 108366060
```

Question 2

2. Which variables are used for the default merge? Why would the following merge be problematic?

```
merge( Teams, Salaries, by.x="teamID", by.y="teamID" )
```

The variables being used are teamID from Teams and teamID from Salaries. * This uses Teams as the primary table. Any independent players whose salaries are not associated to a team, or with a teamID, will not appear in the merged dataset. * This assumes that teamID are the same uniqueID and are the appropriate variables to use * This merge will not include teams without salaries.

Question 3

3. Which city (birth city) has produced the most baseball hall-of-famers? Use the Master and HallOfFame datasets.

San Francisco, with 128 players

To check which variables will be used for the default merge: `intersect(names(HallOfFame), names(Master))`

```
library(Lahman)
data( Master )
data( HallOfFame )
intersect( names(HallOfFame), names(Master) )
```

```
## [1] "playerID"
```

```
ls(Master)
```

```
## [1] "bats"          "bbrefID"       "birthCity"     "birthCountry"
## [5] "birthDate"     "birthDay"      "birthMonth"    "birthState"
## [9] "birthYear"     "deathCity"     "deathCountry"  "deathDate"
## [13] "deathDay"      "deathMonth"    "deathState"    "deathYear"
## [17] "debut"         "finalGame"     "height"        "nameFirst"
## [21] "nameGiven"     "nameLast"      "playerID"      "retroID"
## [25] "throws"        "weight"
```

```
master.halloffame <- merge( Master, HallOfFame, by.x = "playerID", by.y = "playerID")
sort( table( master.halloffame$birthCity))
```

```
##
##      Aberdeen      Abington      Adrian
##           1           1           1
```

| | | | |
|----|----------------|---------------|------------------|
| ## | Aguada | Aguadilla | Alameda |
| ## | 1 | 1 | 1 |
| ## | Alexandria | Alger | Aliquippa |
| ## | 1 | 1 | 1 |
| ## | Amherst | Antioch | Appleton |
| ## | 1 | 1 | 1 |
| ## | Arcadia | Arkansas City | Arlington |
| ## | 1 | 1 | 1 |
| ## | Arno | Arroyo | Atkins |
| ## | 1 | 1 | 1 |
| ## | Avon Park | Bakersfield | Ballston Spa |
| ## | 1 | 1 | 1 |
| ## | Bancroft | Bani | Barceloneta |
| ## | 1 | 1 | 1 |
| ## | Batesville | Bay | Beaver Dam |
| ## | 1 | 1 | 1 |
| ## | Bellaire | Belleville | Bishop |
| ## | 1 | 1 | 1 |
| ## | Bloomington | Bonao | Boynton Beach |
| ## | 1 | 1 | 1 |
| ## | Bremerton | Brenham | Bridgeport |
| ## | 1 | 1 | 1 |
| ## | Brighton | Brooksville | Brunswick |
| ## | 1 | 1 | 1 |
| ## | Buena Vista | Burlingame | Burlington Flats |
| ## | 1 | 1 | 1 |
| ## | Cairo | Canaan | Cardenas |
| ## | 1 | 1 | 1 |
| ## | Caripito | Carolina | Casper |
| ## | 1 | 1 | 1 |
| ## | Cass City | Catano | Cecil County |
| ## | 1 | 1 | 1 |
| ## | Central Alava | Centralia | Charlestown |
| ## | 1 | 1 | 1 |
| ## | Chattanooga | Chestertown | Chicago Heights |
| ## | 1 | 1 | 1 |
| ## | Chico | Childersburg | Chouteau |
| ## | 1 | 1 | 1 |
| ## | Churuguara | Cienfuegos | Clairton |
| ## | 1 | 1 | 1 |
| ## | Clarksboro | Clearbrook | Clearwater |
| ## | 1 | 1 | 1 |
| ## | Cochecton | Coffeyville | Cohoes |
| ## | 1 | 1 | 1 |
| ## | Connellsville | Cordova | Corydon |
| ## | 1 | 1 | 1 |
| ## | Council Bluffs | Covina | Cushing |
| ## | 1 | 1 | 1 |
| ## | Dallas | Denton | Denver |
| ## | 1 | 1 | 1 |
| ## | Des Plaines | Dixon | Dorris |
| ## | 1 | 1 | 1 |
| ## | Dubuque | Eagle Pass | Earlsboro |
| ## | 1 | 1 | 1 |

| | | | |
|----|-----------------|---------------|------------------|
| ## | East Chicago | East Haddam | East Liverpool |
| ## | 1 | 1 | 1 |
| ## | East Providence | Eau Claire | Edgewater |
| ## | 1 | 1 | 1 |
| ## | Ehime | El Dorado | El Seibo |
| ## | 1 | 1 | 1 |
| ## | Elgin | Ellisville | Elmwood Place |
| ## | 1 | 1 | 1 |
| ## | Emlenton | Etna | Evergreen |
| ## | 1 | 1 | 1 |
| ## | Ewing | Exeter | Factoryville |
| ## | 1 | 1 | 1 |
| ## | Fall River | Fayetteville | Flat Rock |
| ## | 1 | 1 | 1 |
| ## | Flint | Floral Park | Florence |
| ## | 1 | 1 | 1 |
| ## | Fontana | Forrest City | Fort Gibson |
| ## | 1 | 1 | 1 |
| ## | Fort Pierce | Fort Rucker | Fort Worth |
| ## | 1 | 1 | 1 |
| ## | Fostoria | Franklinton | Fredericksburg |
| ## | 1 | 1 | 1 |
| ## | Fredericton | Freiburg | Fulton |
| ## | 1 | 1 | 1 |
| ## | Galena | Galesburg | Galveston |
| ## | 1 | 1 | 1 |
| ## | Gary | Gatun | Gause |
| ## | 1 | 1 | 1 |
| ## | Giddings | Glen Dale | Golden Valley |
| ## | 1 | 1 | 1 |
| ## | Goshen | Granada | Granard |
| ## | 1 | 1 | 1 |
| ## | Grand Rapids | Granite City | Greenfield |
| ## | 1 | 1 | 1 |
| ## | Gulfport | Haleburg | Hall Summit |
| ## | 1 | 1 | 1 |
| ## | Hamtramck | Hanford | Hanover |
| ## | 1 | 1 | 1 |
| ## | Hatboro | Haverhill | Havre de Grace |
| ## | 1 | 1 | 1 |
| ## | Hazleton | Hempstead | Henning |
| ## | 1 | 1 | 1 |
| ## | Herlong | Hickory Grove | Hillsboro |
| ## | 1 | 1 | 1 |
| ## | Holguin | Holly Hill | Hollywood |
| ## | 1 | 1 | 1 |
| ## | Homestead | Hoopeston | Hoyleton |
| ## | 1 | 1 | 1 |
| ## | Humboldt | Huntington | Huntington Beach |
| ## | 1 | 1 | 1 |
| ## | Independence | Inglewood | Jacksonville |
| ## | 1 | 1 | 1 |
| ## | Johnstown | Joliet | Joplin |
| ## | 1 | 1 | 1 |

| | | | |
|----|---------------|----------------|------------------|
| ## | Junction City | Justiceburg | Kearny |
| ## | 1 | 1 | 1 |
| ## | Kensington | Key West | Keytesville |
| ## | 1 | 1 | 1 |
| ## | Killorglin | La Mesa | Lacoochee |
| ## | 1 | 1 | 1 |
| ## | Lakeland | Las Villas | Lebanon |
| ## | 1 | 1 | 1 |
| ## | Leipsic | Lenoir | Lexington |
| ## | 1 | 1 | 1 |
| ## | Little Rock | Livermore | Lockney |
| ## | 1 | 1 | 1 |
| ## | Lompoc | Longview | Los Molinos |
| ## | 1 | 1 | 1 |
| ## | Lowell | Magnolia | Manoguayabo |
| ## | 1 | 1 | 1 |
| ## | Marion | Marlborough | Marshall |
| ## | 1 | 1 | 1 |
| ## | Martins Ferry | Martinsville | Maryland Heights |
| ## | 1 | 1 | 1 |
| ## | McKeesport | Media | Melville |
| ## | 1 | 1 | 1 |
| ## | Methuen | Miami Beach | Midland |
| ## | 1 | 1 | 1 |
| ## | Milford | Millville | Minneapolis |
| ## | 1 | 1 | 1 |
| ## | Modesto | Monte Cristi | Montgomery |
| ## | 1 | 1 | 1 |
| ## | Monticello | Montreal | Montrose |
| ## | 1 | 1 | 1 |
| ## | Montville | Moosup | Morgan City |
| ## | 1 | 1 | 1 |
| ## | Mount Morris | Muskegon | Narrows |
| ## | 1 | 1 | 1 |
| ## | New Athens | New Brighton | New Brunswick |
| ## | 1 | 1 | 1 |
| ## | New Castle | New Ulm | Newton |
| ## | 1 | 1 | 1 |
| ## | Ney | Niles | Norwood |
| ## | 1 | 1 | 1 |
| ## | Oak Grove | Oaxaca | Ocumare del Tuy |
| ## | 1 | 1 | 1 |
| ## | Olyphant | Opelika | Osaka |
| ## | 1 | 1 | 1 |
| ## | Oxford | Oxnard | Palatka |
| ## | 1 | 1 | 1 |
| ## | Panola | Pascagoula | Pasco |
| ## | 1 | 1 | 1 |
| ## | Passaic | Pelican Rapids | Pendleton |
| ## | 1 | 1 | 1 |
| ## | Pensacola | Perry | Perryton |
| ## | 1 | 1 | 1 |
| ## | Perryville | Phoenix | Pittsburg |
| ## | 1 | 1 | 1 |

| | | | |
|----|---------------|----------------|---------------|
| ## | Plainfield | Plateau | Pontiac |
| ## | 1 | 1 | 1 |
| ## | Port Huron | Prescott | Providence |
| ## | 1 | 1 | 1 |
| ## | Pueblo Nuevo | Pueblo Viejo | Qualls |
| ## | 1 | 1 | 1 |
| ## | Quincy | Ramer | Ramon Santana |
| ## | 1 | 1 | 1 |
| ## | Refugio | Remington | Ridgeway |
| ## | 1 | 1 | 1 |
| ## | Rio Piedras | Rock Hill | Rocky Mount |
| ## | 1 | 1 | 1 |
| ## | Rowes Run | Russellton | Rybnik |
| ## | 1 | 1 | 1 |
| ## | Salinas | Salt Lake City | San Angelo |
| ## | 1 | 1 | 1 |
| ## | San Fernando | San Gabriel | San Mateo |
| ## | 1 | 1 | 1 |
| ## | San Pedro | Sandcut | Sandy Lake |
| ## | 1 | 1 | 1 |
| ## | Santa Barbara | Santa Paula | Schenectady |
| ## | 1 | 1 | 1 |
| ## | Sebring | Seguin | Seneca Falls |
| ## | 1 | 1 | 1 |
| ## | Shinnston | Silver Spring | Sissonville |
| ## | 1 | 1 | 1 |
| ## | Snow Hill | South Gate | Southampton |
| ## | 1 | 1 | 1 |
| ## | Spavinaw | St. Cloud | St. George |
| ## | 1 | 1 | 1 |
| ## | Staten Island | Staunton | Stockton |
| ## | 1 | 1 | 1 |
| ## | Story City | Sunnyside | Swansea |
| ## | 1 | 1 | 1 |
| ## | Sydney | Tarzana | Tiburon |
| ## | 1 | 1 | 1 |
| ## | Tiskilwa | Toronto | Torrance |
| ## | 1 | 1 | 1 |
| ## | Tulare | Tulsa | Tuolumne |
| ## | 1 | 1 | 1 |
| ## | Tuskegee | Tuxedo | Union City |
| ## | 1 | 1 | 1 |
| ## | Uniontown | Vallejo | Van Meter |
| ## | 1 | 1 | 1 |
| ## | Vancouver | Venice | Vicksburg |
| ## | 1 | 1 | 1 |
| ## | Vienna | Vinita | Waterbury |
| ## | 1 | 1 | 1 |
| ## | Wawaka | Wellston | West Bradford |
| ## | 1 | 1 | 1 |
| ## | West Chester | Westfield | Willingboro |
| ## | 1 | 1 | 1 |
| ## | Winter Haven | Wolf Point | Wyandotte |
| ## | 1 | 1 | 1 |

| | | | |
|----|----------------|---------------|------------------|
| ## | Yabucoa | Albany | Arnot |
| ## | 1 | 2 | 2 |
| ## | Bedford | Bellefonte | Bellows Falls |
| ## | 2 | 2 | 2 |
| ## | Bethpage | Boyceville | Breckenridge |
| ## | 2 | 2 | 2 |
| ## | Byron | Calvert | Caney Springs |
| ## | 2 | 2 | 2 |
| ## | Caroleen | Carrick | Cassville |
| ## | 2 | 2 | 2 |
| ## | Charleston | Charlotte | Chartiers |
| ## | 2 | 2 | 2 |
| ## | Clanton | Clinton | Concord |
| ## | 2 | 2 | 2 |
| ## | Covington | Crestline | East Brookfield |
| ## | 2 | 2 | 2 |
| ## | East St. Louis | Egypt | El Cajon |
| ## | 2 | 2 | 2 |
| ## | Euclid | Frederiksted | French Creek |
| ## | 2 | 2 | 2 |
| ## | Graham | Grants Pass | Hackensack |
| ## | 2 | 2 | 2 |
| ## | Hazel Park | Helena | Highland Park |
| ## | 2 | 2 | 2 |
| ## | Hollis | Hubbard | Jackson |
| ## | 2 | 2 | 2 |
| ## | Jefferson City | Kingston | Long Island City |
| ## | 2 | 2 | 2 |
| ## | Los Gatos | Louisville | Lynn |
| ## | 2 | 2 | 2 |
| ## | Lynwood | Macon | Marshalltown |
| ## | 2 | 2 | 2 |
| ## | Massena | Merced | Meriden |
| ## | 2 | 2 | 2 |
| ## | Milledgeville | Mineral | Monroe |
| ## | 2 | 2 | 2 |
| ## | Mount Vernon | Navojoa | Nelliston |
| ## | 2 | 2 | 2 |
| ## | Newport | Niagara Falls | Norwalk |
| ## | 2 | 2 | 2 |
| ## | Omaha | Orange | Orlando |
| ## | 2 | 2 | 2 |
| ## | Pasadena | Paterson | Phillipsburg |
| ## | 2 | 2 | 2 |
| ## | Pickens County | Pine City | Pryor |
| ## | 2 | 2 | 2 |
| ## | Ragland | San Antonio | Savannah |
| ## | 2 | 2 | 2 |
| ## | Sheffield | Sheridan | St. Charles |
| ## | 2 | 2 | 2 |
| ## | St. Mary | Starkville | Steubenville |
| ## | 2 | 2 | 2 |
| ## | Sylvan Lake | Tacoma | Takoma Park |
| ## | 2 | 2 | 2 |

| | | | |
|----|-----------------|------------------|------------------|
| ## | Tarboro | Topeka | Victoria |
| ## | 2 | 2 | 2 |
| ## | Vinton | Walnut Creek | Ware |
| ## | 2 | 2 | 2 |
| ## | West Palm Beach | Westminster | Whittier |
| ## | 2 | 2 | 2 |
| ## | Youngstown | Zerbe | Austin |
| ## | 2 | 2 | 3 |
| ## | Bajos de Haina | Beaumont | Burlington |
| ## | 3 | 3 | 3 |
| ## | Caracas | Caseyville | Chatham |
| ## | 3 | 3 | 3 |
| ## | Colon | Danville | Donora |
| ## | 3 | 3 | 3 |
| ## | Dublin | Elba | Flat |
| ## | 3 | 3 | 3 |
| ## | Gilmore | Hertford | Hoagland |
| ## | 3 | 3 | 3 |
| ## | Honolulu | Laguna Verde | Marietta |
| ## | 3 | 3 | 3 |
| ## | Meadville | New Bethlehem | North Brookfield |
| ## | 3 | 3 | 3 |
| ## | Pittsfield | Richmond | San Cristobal |
| ## | 3 | 3 | 3 |
| ## | Santa Maria | Santo Domingo | Santurce |
| ## | 3 | 3 | 3 |
| ## | Smithtown | Spokane | Sumter |
| ## | 3 | 3 | 3 |
| ## | Toms River | Upper Chanceford | Waukegan |
| ## | 3 | 3 | 3 |
| ## | West Lebanon | Williamsport | Winston-Salem |
| ## | 3 | 3 | 3 |
| ## | Witherbee | Woodsfield | Anchorage |
| ## | 3 | 3 | 4 |
| ## | Arecibo | Bellflower | Berwyn |
| ## | 4 | 4 | 4 |
| ## | Billings | Binghamton | Burbank |
| ## | 4 | 4 | 4 |
| ## | Carthage | Decatur | Du Bois |
| ## | 4 | 4 | 4 |
| ## | Durham | Fitchburg | Fullerton |
| ## | 4 | 4 | 4 |
| ## | Greenville | Gretna | Hannibal |
| ## | 4 | 4 | 4 |
| ## | Mansfield | Matanzas | Millerton |
| ## | 4 | 4 | 4 |
| ## | Montclair | Newark | Ontario |
| ## | 4 | 4 | 4 |
| ## | Pageland | Payette | Peoria |
| ## | 4 | 4 | 4 |
| ## | Portsmouth | Red Oak | Rural Retreat |
| ## | 4 | 4 | 4 |
| ## | San Juan | Santa Ana | Scranton |
| ## | 4 | 4 | 4 |

| | | | |
|----|-------------------|---------------|--------------|
| ## | Stefurov | Truxton | Tuscaloosa |
| ## | 4 | 4 | 4 |
| ## | Villa Rica | Waynesboro | Beach Haven |
| ## | 4 | 4 | 5 |
| ## | Blaine | Bonham | Caton |
| ## | 5 | 5 | 5 |
| ## | Clio | Columbia | Commerce |
| ## | 5 | 5 | 5 |
| ## | Easton | Franklin | Georgetown |
| ## | 5 | 5 | 5 |
| ## | Hartford | Lawrence | Le Grand |
| ## | 5 | 5 | 5 |
| ## | Lewiston | Long Beach | Martinez |
| ## | 5 | 5 | 5 |
| ## | Mount Ida | New Haven | Norristown |
| ## | 5 | 5 | 5 |
| ## | North Adams | Oklahoma City | Pomeroy |
| ## | 5 | 5 | 5 |
| ## | Pottstown | Poway | Santa Monica |
| ## | 5 | 5 | 5 |
| ## | Shinglehouse | Shreveport | South Wales |
| ## | 5 | 5 | 5 |
| ## | Stony Creek Mills | Streetman | Texarkana |
| ## | 5 | 5 | 5 |
| ## | Trenton | Waco | Williamston |
| ## | 5 | 5 | 5 |
| ## | Wilmington | Winters | Ash Flat |
| ## | 5 | 5 | 6 |
| ## | Birmingham | Cedar Rapids | Culver City |
| ## | 6 | 6 | 6 |
| ## | Greensboro | Lonaconing | Malden |
| ## | 6 | 6 | 6 |
| ## | Manchester | Maple Ridge | Maracaibo |
| ## | 6 | 6 | 6 |
| ## | Mobile | Nashville | Syracuse |
| ## | 6 | 6 | 6 |
| ## | Uvalda | Whistler | Auburn |
| ## | 6 | 6 | 7 |
| ## | Bell Station | Bolton | Broken Bow |
| ## | 7 | 7 | 7 |
| ## | Crabapple | Cranston | Gettysburg |
| ## | 7 | 7 | 7 |
| ## | Gordonsville | Hinckley | Linden |
| ## | 7 | 7 | 7 |
| ## | Meridian | Minooka | Mishawaka |
| ## | 7 | 7 | 7 |
| ## | Mooreville | Pittston | Toledo |
| ## | 7 | 7 | 7 |
| ## | Tuscumbia | Bridgewater | Camden |
| ## | 7 | 8 | 8 |
| ## | Clarendon | Clear Creek | Collinsville |
| ## | 8 | 8 | 8 |
| ## | Cornwall | Dayton | Elkhart |
| ## | 8 | 8 | 8 |

| | | | |
|----|----------------------|---------------|------------------|
| ## | Fowlerville | Gloucester | High Point |
| ## | 8 | 8 | 8 |
| ## | Huntersville | Muscotah | New Orleans |
| ## | 8 | 8 | 8 |
| ## | Penacook | Sudlersville | Utica |
| ## | 8 | 8 | 8 |
| ## | Vernon | Wahoo | Winterset |
| ## | 8 | 8 | 8 |
| ## | Woodland | Bearsville | Boston |
| ## | 8 | 9 | 9 |
| ## | Bradford | Camaguey | Colorado Springs |
| ## | 9 | 9 | 9 |
| ## | Framingham | Harvard | Kennett Square |
| ## | 9 | 9 | 9 |
| ## | Lafayette | Mahanoy City | McSherrystown |
| ## | 9 | 9 | 9 |
| ## | Nyesville | Plains | Silver Creek |
| ## | 9 | 9 | 9 |
| ## | Snohomish | Wooster | Havana |
| ## | 9 | 9 | 10 |
| ## | Huntsville | Massillon | Medway |
| ## | 10 | 10 | 10 |
| ## | New Albany | Pomona | Salem |
| ## | 10 | 10 | 10 |
| ## | San Pedro de Macoris | Sanford | York |
| ## | 10 | 10 | 10 |
| ## | Bronx | Carteret | Lake Charles |
| ## | 11 | 11 | 11 |
| ## | Lucas | Port Jervis | Troy |
| ## | 11 | 11 | 11 |
| ## | Wilkinsburg | Archie | Bastrop |
| ## | 11 | 12 | 12 |
| ## | Harvey | Miami | Sacramento |
| ## | 12 | 12 | 12 |
| ## | Shamokin | Titus | Van Nuys |
| ## | 12 | 12 | 12 |
| ## | Baltimore | Beemer | Clayton |
| ## | 13 | 13 | 13 |
| ## | Harrisville | Hartsville | Oglesby |
| ## | 13 | 13 | 13 |
| ## | San Jose | Trappe | Waldo |
| ## | 13 | 13 | 13 |
| ## | Atherton | Bluffton | Cambridge |
| ## | 14 | 14 | 14 |
| ## | Clifty | Demorest | Lancaster |
| ## | 14 | 14 | 14 |
| ## | Morocco | Prospect Park | Richburg |
| ## | 14 | 14 | 14 |
| ## | San Diego | Wadena | Wampum |
| ## | 14 | 14 | 14 |
| ## | Zeist | Argo | Bethany |
| ## | 14 | 15 | 15 |
| ## | Emerald | Fresno | Glasgow |
| ## | 15 | 15 | 15 |

| | | | |
|----|---------------------|------------------|------------------|
| ## | Grenada | Hibbing | Marianao |
| ## | 15 | 15 | 15 |
| ## | Michigan City | Milwaukee | Nitro |
| ## | 15 | 15 | 15 |
| ## | Ocumare de la Costa | Pebworth | Princeton |
| ## | 15 | 15 | 15 |
| ## | Rochester | San Bernardino | Santa Rita |
| ## | 15 | 15 | 15 |
| ## | Stephentown | Temple | Tipton |
| ## | 15 | 15 | 15 |
| ## | West Allis | Zeeland | Berkeley |
| ## | 15 | 15 | 16 |
| ## | Comanche | Crow Wing County | Evansville |
| ## | 16 | 16 | 16 |
| ## | Garden Grove | Germantown | Jamestown |
| ## | 16 | 16 | 16 |
| ## | Liberty | Marcus Hook | Pinar del Rio |
| ## | 16 | 16 | 16 |
| ## | Riverside | Rodeo | Roxboro |
| ## | 16 | 16 | 16 |
| ## | Sioux City | Southgate | St. Thomas |
| ## | 16 | 16 | 16 |
| ## | Swifton | Tilden | Woonsocket |
| ## | 16 | 16 | 16 |
| ## | Cascade | Ekron | Ellwood City |
| ## | 17 | 17 | 17 |
| ## | Hamilton | Middletown | Orient |
| ## | 17 | 17 | 17 |
| ## | Pittsburgh | St. Paul | Culpeper |
| ## | 17 | 17 | 18 |
| ## | Granville | Harrah | Harvel |
| ## | 18 | 18 | 18 |
| ## | Houston | Memphis | Seattle |
| ## | 18 | 18 | 19 |
| ## | Shiner | Washington | West Springfield |
| ## | 19 | 19 | 19 |
| ## | Akron | Oakland City | Ponce |
| ## | 20 | 20 | 20 |
| ## | Columbus | Indianapolis | Atlanta |
| ## | 21 | 21 | 22 |
| ## | Anderson | Wheeling | Madison |
| ## | 24 | 24 | 25 |
| ## | Buffalo | Detroit | Cincinnati |
| ## | 26 | 29 | 32 |
| ## | Oakland | Portland | Springfield |
| ## | 32 | 32 | 32 |
| ## | Kansas City | La Habana | Terre Haute |
| ## | 33 | 37 | 41 |
| ## | Tampa | Cleveland | New York |
| ## | 42 | 45 | 58 |
| ## | Los Angeles | Philadelphia | St. Louis |
| ## | 63 | 69 | 72 |
| ## | Chicago | Brooklyn | San Francisco |
| ## | 74 | 79 | 128 |