

**Why Amanda and Kevin
are here.**

ABOUT YOUR INSTRUCTORS



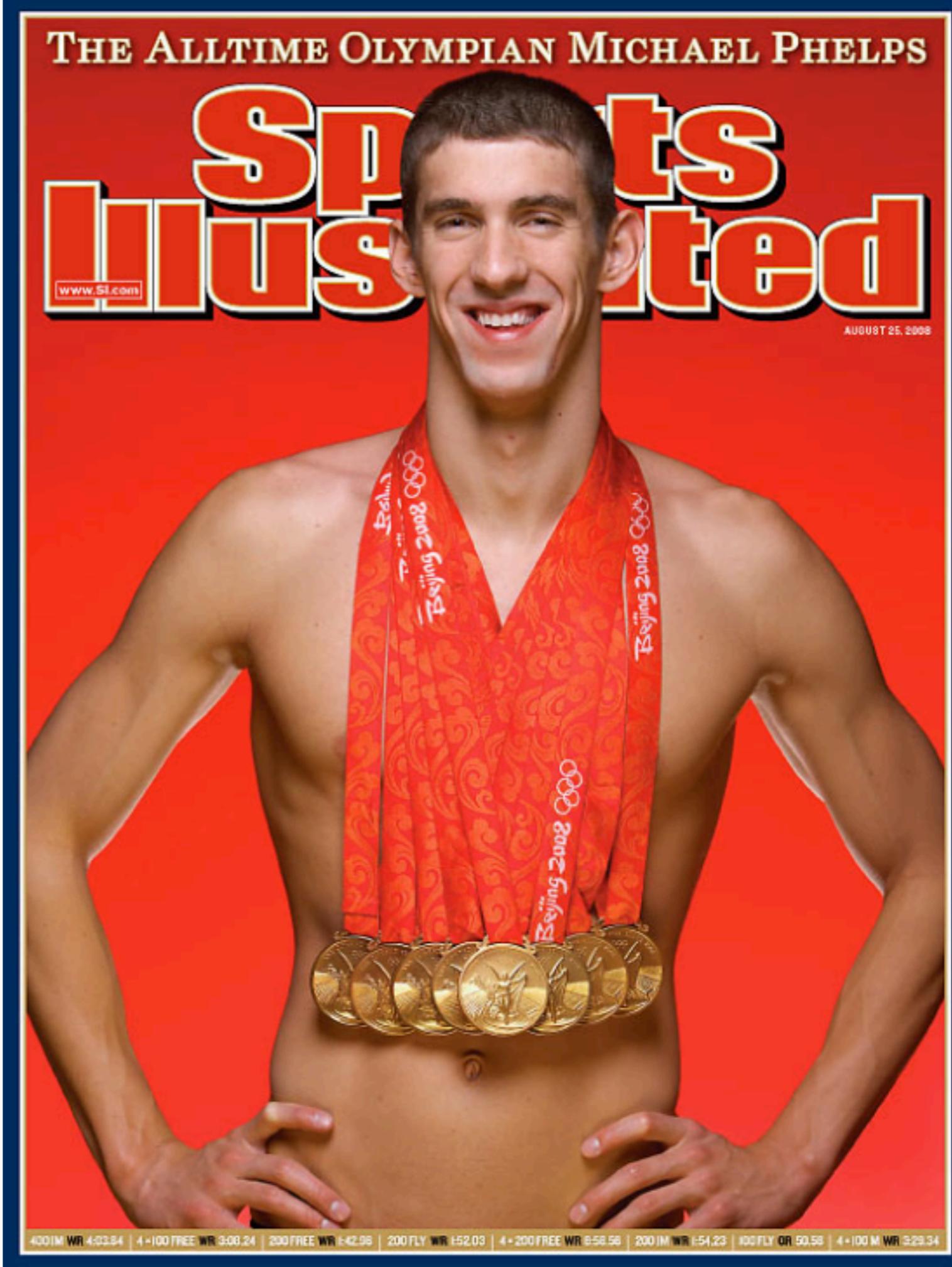
Amanda Cox

ABOUT YOUR INSTRUCTORS



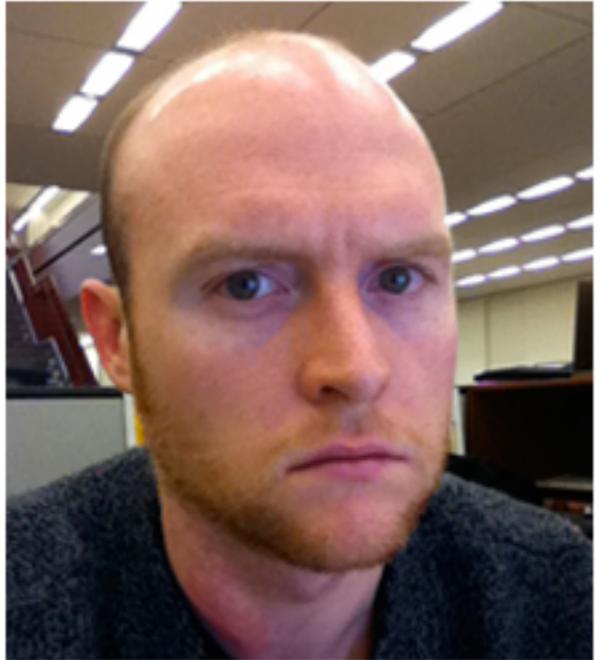
**Amanda
Cox**

=



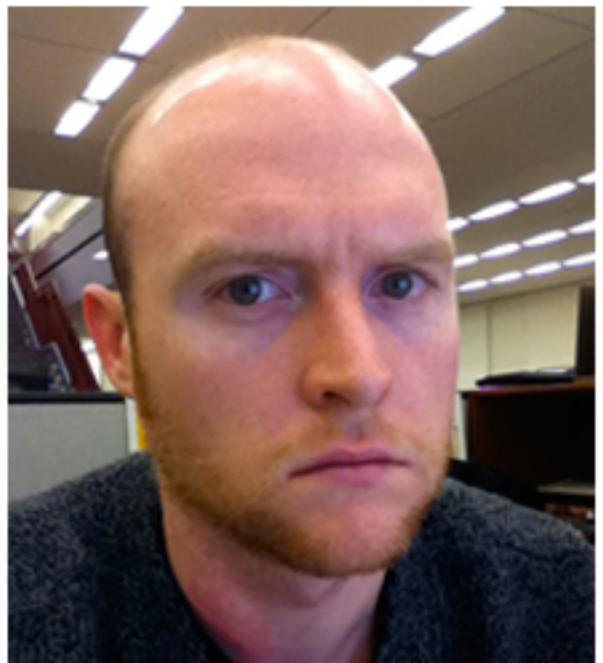
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ABOUT YOUR INSTRUCTORS



Kevin Quealy

ABOUT YOUR INSTRUCTORS



=



Kevin Quealy

You, hopefully.



IN WHICH WE JUSTIFY THE EXISTENCE OF THE CLASS

“The ability to collect, store, and manage data is increasing quickly, but our ability to understand it remains constant.”

– Ben Fry, creator of Processing

IN WHICH WE JUSTIFY THE EXISTENCE OF THE CLASS

“The ability to take data – to be able to understand it, to process it, to extract value from it, to visualize it, to communicate it is going to be a hugely important skill in the next decades...I think statisticians are part of it, but it's just a part. You also want to be able to visualize the data, communicate the data, and utilize it effectively.”

– Hal Varian, Google’s chief economist

IN WHICH WE JUSTIFY THE EXISTENCE OF THE CLASS

“If I was studying [journalism] today, I would go get a master’s in statistics, and maybe do a bunch of accounting courses and then write from that perspective. I think that’s the way to survive. The role of the generalist is diminishing. Journalism has to get smarter.”

– Malcolm Gladwell

Data skills: so hot right now.



Data 101

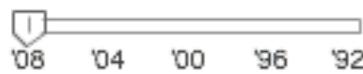
365 **Obama**
Electoral Votes
Projected Winner**0**
undecided**173****McCain**
Electoral Votes

Popular vote: 66,862,039

270 needed to win

Popular vote: 58,319,442

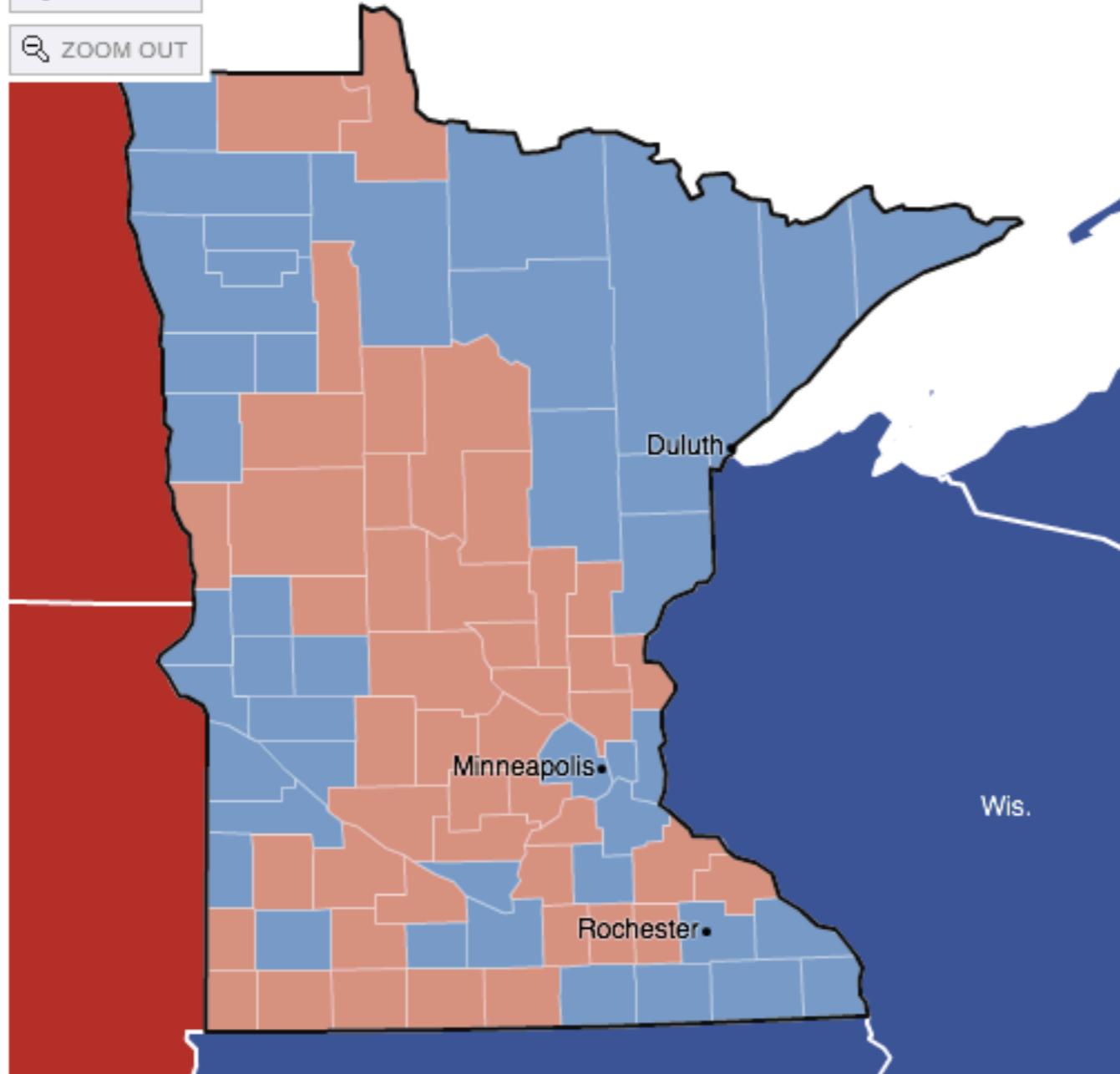
- State winners**
- [County bubbles](#)
- [County leaders](#)
- [Voting shifts](#)

Year**Map key****DEMOCRATS**

Lead Win

REPUBLICANS

Lead Win

[ZOOM IN](#) [ZOOM OUT](#)**Minnesota**

10 electoral votes

100% reporting

| Candidate | Votes | Pct. | party |
|------------------|-----------|-------|--------|
| ✓ Barack Obama | 1,573,323 | 54.2% | Dem. |
| John McCain | 1,275,400 | 44.0% | G.O.P. |
| Other Candidates | 52,080 | 1.8% | Other |

[• Full Minnesota results »](#)

365

Obama
 Electoral Votes
 Projected Winner

0
undecided**173**

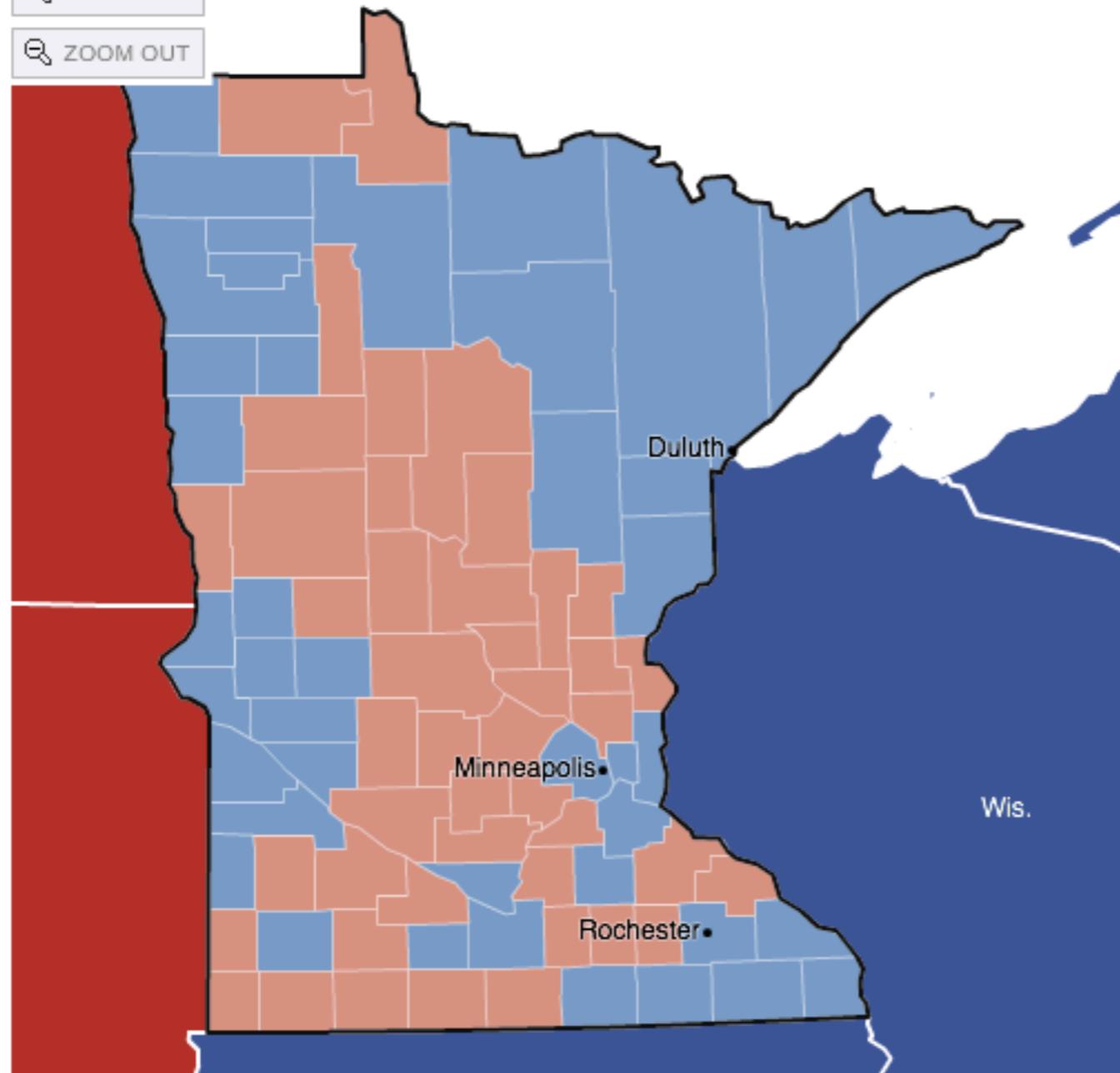
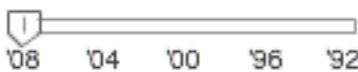
McCain
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[ZOOM IN](#)[ZOOM OUT](#)**Year****Map key****DEMOCRATS**

■ Lead ■ Win

REPUBLICANS

■ Lead ■ Win

Minnesota

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[• Full Minnesota results »](#)**Data**

```

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GOP 24 5 47
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365 **Obama**Electoral Votes
Projected Winner**0**

undecided

173 **McCain**

Electoral Votes

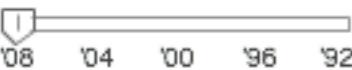
Popular vote: 66,862,039

270 needed to win

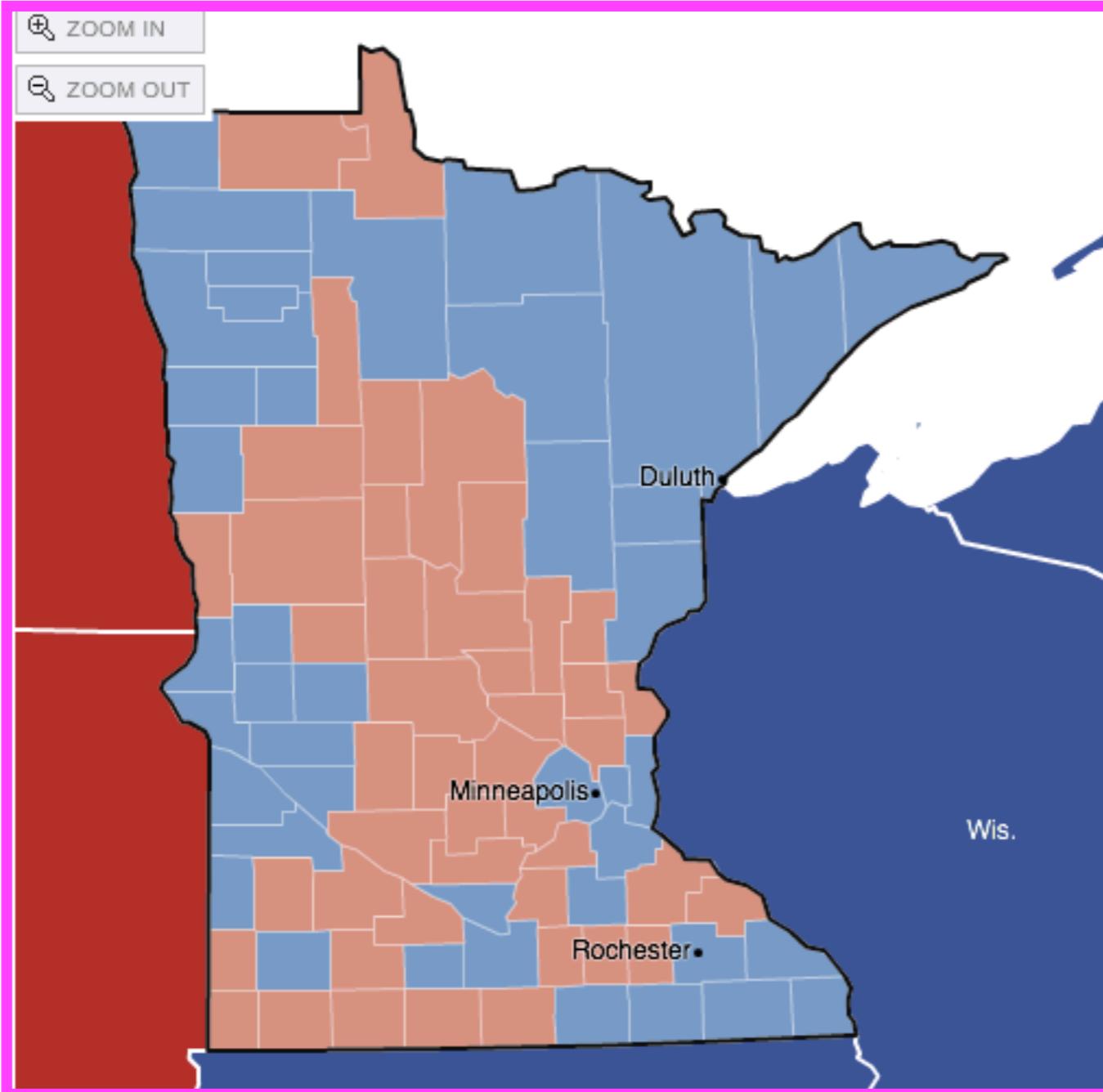
Popular vote: 58,319,442

Information

- State winners**
- [County bubbles](#)
- [County leaders](#)
- [Voting shifts](#)

Year**Map key**

| DEMOCRATS | |
|-------------|------|
| | Lead |
| REPUBLICANS | |
| | Win |

**Minnesota**

100% reporting

| Candidate | Votes | Pct. | party |
|------------------|-----------|-------|--------|
| ✓ Barack Obama | 1,573,323 | 54.2% | Dem. |
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| Other Candidates | 52,080 | 1.8% | Other |

[• Full Minnesota results »](#)

Knowledge



**Data is everywhere.
(Duh.)**



Kevin Quealy

Graphic Artist at New York Times Studied at University of Missouri Born on April 16, 1981 Add your hometown Add languages you know Edit Profile



Share: [Status](#) [Photo](#) [Link](#) [Video](#) [Question](#)

What's on your mind?



[Ben Poston](#)

Happy belated bday! Good catching up wit you

May 6, 2010 at 8:59pm via iPhone - Like · Comment · See Friendship



[Heather Petersen Berry](#)

This song says it all...



[Ween – Your Party](#)

[www.youtube.com](#)

La Cucaracha [2007]

April 25, 2010 at 3:27pm - Like · Comment · Share · See Friendship



[Heather Petersen Berry](#) Doh! I sent you the version without the verse about the firemen! My bad.

April 25, 2010 at 3:30pm - Like

Write a comment...

RECENT ACTIVITY

"Does Danny have the same..." on [신태호's status](#).

"WHERE is that goddamn helmet." on [Jennifer Daniel's photo](#).

"Headline: Mike Quealy Orders Salad..." on [Shannon Quealy's Wall](#). - See Friendship

Kevin and Sarah Oltmans are now friends. - Like · Comment

[John Duchneskie](#)

Happy birthday, Kevin! Stop trying to avoid a golf rematch.

April 16, 2010 at 11:19pm - Like · Comment · See Friendship

Wall

Info

Photos (20)

Notes

Friends

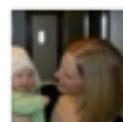
Friends (240)



[Elizabeth Nelson](#)
UVA



[Amanda Reiser](#)
Lillemoe



[Rhiannon](#)
Beckendorf
Littler Mendelso...



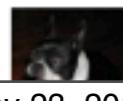
[Austin Dekker](#)
Imperial



[Isabelle Roughol](#)
Missouri (Mizzou)



[Colby Johnson](#)



[John Tierno](#)
The Philadelphia...

People You May Know

[See All](#)



[Corina Johnson](#)
8 mutual friends
[Add as friend](#)



[Cheryl Jensen](#)
[Add as friend](#)

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<https://graph.facebook.com/me>



Kevin Quealy

@KevinQ New York, NY

A graphics editor at the New York Times. Returned Peace Corps volunteer. Bald, Minnesotan, talks too much.

<http://kevinquealy.com>

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 - [Following](#)
 - [Followers](#)
 - [Lists](#) ▾
-
-  **KevinQ** Kevin Quealy
"It's as if the great advances of human civilization [...] have all crescendoed with the Crunchwrap Supreme."
<http://buswk.co/jXXOy8>
12 hours ago
-
-  **DLeonhardt** David Leonhardt  by KevinQ
Pawlenty 101, which has a new post-Mitch relevance, via Time:
<http://tinyurl.com/4y5hzwp>
15 hours ago
-
-  **KevinQ** Kevin Quealy
@sergio_pecanha Call or email me if you can soon, please. At work.
18 hours ago
-
-  **KevinQ** Kevin Quealy
Blackpool's relegation battle is as exciting as any cup final.
21 hours ago
-
-  **KevinQ** Kevin Quealy
@hamman I'm going for the Cubano. You know where.
21 May
-
-  **KevinQ** Kevin Quealy
Good luck to everyone doing the Brooklyn Half tomorrow. First time all year my legs are exposed to natural light. #sorry
20 May

About @KevinQ

772 Tweets 142 Following 461 Followers 40 Listed

Following 142



Followers 461



Similar to you · [view all](#)



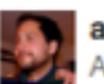
amandacox

Amanda Cox



xocasgv

Xaquín G.V.



andrewkueneman

Andrew Kueneman



davidherzog

David Herzog

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[Businesses](#) [Media](#) [Developers](#) [Resources](#) © 2011 Twitter

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Data journalism is not new.

4th edition

PRECISION JOURNALISM

Reporter's Introduction to
Social Science Methods

**What to do
with data**

Collect it

Store it

Retrieve it

Analyze it

Reduce it

Communicate it

-Philip Meyer, 1967



**This class is based
on 3 core concepts:**

**This class is based
on 3 core concepts:**

Getting data

**This class is based
on 3 core concepts:**

Getting data

Analyzing data

**This class is based
on 3 core concepts:**

Getting data

Analyzing data

**Publishing and sharing
results**

**How it's going to work:
Every class will be the same.**

**How it's going to work:
Every class will be the same.**

Critiques (5-10min)

**How it's going to work:
Every class will be the same.**

Critiques (5-10min)

Lectures (45 min - 1 hr.)

**How it's going to work:
Every class will be the same.**

Critiques (5-10min)

Lectures (45 min - 1 hr.)

Lab sessions (1 hr - 1:30)

**How it's going to work:
Every class will be the same.**

Critiques (5-10min)

Lectures (45 min - 1 hr.)

Lab sessions (1 hr - 1:30)

Homework

**What we know the
class will not be.**

How I got into this.



“Hurricane Andrew did not ravage all neighborhoods equally.”

– Miami Herald, Dec. 20, 1992





SW 152 ST.

SW 139 AVE.





shep-class-survey

HOW TO USE THIS CHART

| Subdivision number on map | Coordinates on map | Housing units in subdivision | % of homes deemed uninhabitable |
|--|--------------------|------------------------------|---------------------------------|
| 1 Naranja Lakes Condo 3, L-6 | 451 | 82% | 100% 1972 \$25,600 |
| 2 Country Walk Condo 5-8, D-6 | 208 | 81% | 100% 1987 \$48,900 |
| 3 Country Walk 2, D-5 | 184 | 80% | 100% 1980 \$72,800 |
| 4 Meadow Wood Manor 9, K-8 | 167 | 89% | 100% 1989 \$67,800 |
| 5 Kings Grove, E-5 | 151 | 83% | 100% 1989 \$141,600 |
| 6 Country Walk Condo 1-4, D-6 | 136 | 37% | 100% 1985 \$48,700 |
| 7 Meadow Wood Manor 7, K-7 | 135 | 86% | 100% 1987 \$63,200 |
| 8 Country Walk 8, D-8 | 118 | 91% | 100% 1988 \$129,300 |
| 9 Cutler Hammock, F-12 | 101 | 66% | 100% 1975 \$183,300 |
| 10 Country Walk 5, D-6 | 97 | 60% | 100% 1987 \$103,400 |
| 11 American Homes 1st Add, E-6 | 95 | 72% | 100% 1991 \$59,600 |
| 12 Princeton Lakes, K-3 | 82 | 70% | 100% 1977 \$51,700 |
| 13 Villas of Naranja Condo, K-6 | 80 | 29% | 100% 1988 \$27,400 |
| 14 Meadow Wood Manor 18, L-8 | 81 | 24% | 100% 1980 \$61,100 |
| 15 Cutler Landing, L-8 | 80 | 86% | 100% 1988 \$75,200 |
| 16 River Bend, D-5 | 79 | 81% | 100% 1991 \$103,700 |
| 17 Westberry Estates, N-1 | 77 | 31% | 100% 1987 \$105,400 |
| 18 Country Walk 9 & 10, D-6 | 73 | 42% | 100% 1990 \$92,300 |
| 19 Meadow Wood Manor 6, K-7 | 73 | 47% | 100% 1986 \$61,800 |
| 20 Deerwood Village Condo 3, D-8 | 63 | 100% | 100% 1988 \$45,500 |
| 21 Old Cutler Shores, F-12 | 61 | 84% | 100% 1981 \$205,200 |
| 22 Cutler Landings Reglat, L-8 | 61 | 77% | 100% 1988 \$76,100 |
| 23 Del-Mar Estates, F-13 | 54 | 82% | 100% 1972 \$164,700 |
| 24 Country Walk Patio Homes East, D-6 | 53 | 91% | 100% 1989 \$87,900 |
| 25 Waterside Townhomes 1, M-6 | 51 | 55% | 100% 1985 \$45,000 |
| 26 Hallmark Heights Estates Add 7, C-13 | 49 | 27% | 100% 1962 \$163,100 |
| 27 Bell Aire 22, F-12 | 48 | 52% | 100% 1979 \$160,800 |
| 28 Point Royale, I, G-10 | 44 | 96% | 100% 1965 \$67,900 |
| 29 Cutler Heights Estates, F-12 | 43 | 88% | 100% 1985 \$217,000 |
| 30 Generations Acres, M-2 | 43 | 47% | 100% 1968 \$86,800 |
| 31 Waterside Townhomes 4, M-6 | 42 | 52% | 100% 1989 \$45,800 |
| 32 Deerwood Village Condo 1, D-8 | 40 | 85% | 100% 1986 \$44,600 |
| 33 Silver Palm Estates Part 1, J-5 | 39 | 62% | 100% 1975 \$124,700 |
| 34 Roger Homes, E-6 | 38 | 63% | 100% 1990 \$74,000 |
| 35 Comfort Villas, N-4 | 38 | 74% | 100% 1984 \$52,600 |
| 36 Country Walk Lake Patio Homes, D-5 | 33 | 100% | 100% 1989 \$98,900 |
| 37 River Bend, D-5 | 30 | 93% | 100% 1991 \$133,100 |
| 38 Greenwood Villas, H-4 | 28 | 82% | 100% 1988 \$49,900 |
| 39 Princeton Lakes, K-5 | 25 | 92% | 100% 1979 \$51,100 |
| 40 Waterside Townhomes 3, M-6 | 25 | 64% | 100% 1987 \$44,900 |
| 41 Beaspines, M-5 | 270 | 56% | 99% 1978 \$30,100 |
| 42 Cutler Landings 1st Add, L-8 | 220 | 81% | 99% 1990 \$65,300 |
| 43 Country Walk 5, D-5 | 213 | 69% | 99% 1981 \$112,700 |
| 44 Meadow Wood Manor 8, K-7 | 122 | 77% | 99% 1988 \$63,600 |
| 45 Mediterranea, E-6 | 111 | 96% | 99% 1990 \$103,500 |
| 46 Mallorsook, F-12 | 101 | 82% | 99% 1969 \$110,100 |
| 47 Pinewood Estates 3rd Add, F-12 | 91 | 98% | 99% 1979 \$111,000 |
| 48 Princeton Lakes 1, K-6 | 101 | 87% | 94% 1975 \$50,100 |
| 49 Meadow Wood Manor 6, K-7 | 91 | 36% | 97% 1986 \$82,300 |
| 50 Old Cutler Cove, H-11 | 71 | 45% | 97% 1976 \$75,200 |
| 51 Waterside Shores Meadows 1, E-5 | 64 | 48% | 97% 1984 \$101,300 |
| 52 Deerwood Villas 3 Reglat, D-8 | 45 | 73% | 97% 1991 \$56,800 |
| 53 Chante-Clare, K-7 | 35 | 89% | 97% 1990 \$70,300 |
| 54 Chamberlain Courts, H-8 | 34 | 91% | 97% 1984 \$60,000 |
| 55 King's Grand East, E-5 | 292 | 75% | 98% 1986 \$96,700 |
| 56 Meadow Wood Manor 1, K-7 | 117 | 86% | 98% 1975 \$53,000 |
| 57 Princeton Lakes, K-6 | 70 | 83% | 98% 1990 \$58,000 |
| 58 Chelsea, N-4 | 38 | 90% | 94% 1974 \$49,300 |
| 59 Meadow Wood Manor 2, K-8 | 171 | 84% | 93% 1976 \$55,000 |
| 60 Waterside Shores Meadows, E-5 | 143 | 39% | 93% 1984 \$96,500 |
| 61 Briar Bay T'house Exte. 3rd Add, C-11 | 63 | 94% | 93% 1980 \$77,100 |
| 62 Villa Malaga, E-11 | 62 | 71% | 93% 1976 \$77,200 |
| 63 Redlands Edge, N-4 | 59 | 71% | 93% 1990 \$82,800 |
| 64 Country Star 1, M-7 | 46 | 87% | 93% 1986 \$59,600 |
| 65 Waterside Shores Meadows 2, E-5 | 92 | 70% | 92% 1984 \$97,000 |
| 66 Richmond Meadows, E-10 | 40 | 98% | 92% 1977 \$60,100 |
| 67 Country Walk 4, D-6 | 98 | 78% | 91% 1981 \$73,100 |
| 68 Princeton Lakes, K-7 | 85 | 74% | 91% 1976 \$51,200 |
| 69 Naranja Lakes Condo 3, L-6 | 429 | 48% | 90% 1971 \$36,900 |
| 70 American Homes, E-6 | 184 | 83% | 89% 1990 \$76,000 |
| 71 Benson Park 1st Add, E-11 | 51 | 92% | 89% 1958 \$77,800 |
| 72 South Landings Estates, E-5 | 103 | 81% | 88% 1990 \$87,600 |
| 73 Hartford Plaza, M-6 | 98 | 84% | 88% 1991 \$65,500 |
| 74 Bell Aire 23, G-11 | 128 | 31% | 87% 1978 \$94,400 |
| 75 Naranja Park Hwy, L-6 | 118 | 64% | 87% 1955 \$41,200 |
| 76 Green Homes 2, N-6 | 107 | 79% | 87% 1973 \$42,500 |
| 77 Redlands Mansions 1st Add, M-4 | 45 | 51% | 87% 1989 \$95,300 |
| 78 Linwood Grove, E-6 | 123 | 89% | 86% 1990 \$95,200 |
| 79 R. J. Katz Subdivision, E-5 | 97 | 88% | 86% 1984 \$74,000 |
| 80 Cutler Ridge Manor Estates, G-10 | 95 | 48% | 85% 1965 \$59,700 |
| 81 Pine Del Rio, N-4 | 40 | 85% | 85% 1984 \$49,500 |
| 82 Kings Subdivision, N-4 | 40 | 83% | 85% 1985 \$54,700 |
| 83 Centennial 3, H-12 | 31 | 42% | 85% 1990 \$95,700 |
| 84 Sunny Day Homes, L-7 | 25 | 80% | 85% 1984 \$51,100 |
| 85 Overwood Part 1, D-7 | 154 | 32% | 84% 1984 \$91,300 |
| 86 Pine Tree Manor 4, G-11 | 98 | 45% | 84% 1958 \$53,200 |
| 87 Biscayne Villas Homes 1, M-7 | 57 | 97% | 84% 1984 \$53,300 |
| 88 Naranja Park 1st Add, L-5 | 36 | 89% | 84% 1956 \$38,200 |
| 89 21st Century Homes 3, N-5 | 109 | 43% | 83% 1973 \$45,300 |
| 90 Cutler Creek Point, E-10 | 97 | 62% | 83% 1991 \$50,500 |
| 91 Monaco Estates, E-5 | 42 | 83% | 83% 1991 \$77,400 |
| 92 Forest View, F-7 | 138 | 91% | 81% 1991 \$87,800 |
| 93 Centennial 2, H-12 | 80 | 39% | 81% 1989 \$100,300 |
| 94 Redlands Mansions, M-4 | 36 | 72% | 81% 1987 \$101,800 |
| 95 Naranja Lakes Condo 1, L-5 | 450 | 66% | 80% 1971 \$28,600 |
| 96 Hamilton Estates, M-6 | 39 | 90% | 80% 1976 \$53,500 |
| 97 Oak Ridge Estates 2, B-13 | 31 | 32% | 80% 1954 \$279,400 |
| 98 Comfort Villas 1st Add, N-4 | 50 | 64% | 78% 1987 \$43,000 |
| 99 Maran Estates 2, F-11 | 32 | 100% | 78% 1966 \$113,800 |
| 100 Bell Aire 2, G-10 | 214 | 64% | 77% 1963 \$69,200 |
| 101 South Miami Heights 5, G-9 | 140 | 66% | 77% 1970 \$50,100 |
| 102 Green Homes 3, N-6 | 125 | 85% | 77% 1974 \$45,400 |
| 103 Universal Estates South Add, L-4 | 55 | 71% | 77% 1972 \$76,700 |
| 104 Park Estates 2, G-7 | 45 | 67% | 77% 1984 \$84,400 |
| 105 Centennial 1, H-12 | 39 | 58% | 77% 1986 \$94,300 |
| 106 Meadow Wood Manor 3, L-6 | 224 | 71% | 76% 1978 \$54,300 |
| 107 Newton Heights, N-4 | 128 | 88% | 76% 1973 \$44,500 |
| 108 Mowry Drive Estates, O-1 | 28 | 89% | 76% 1970 \$48,500 |
| 109 Paradise Pines, M-4 | 41 | 59% | 75% 1979 \$74,800 |
| 110 Bell Aire 3, G-10 | 301 | 61% | 74% 1965 \$70,100 |
| 111 Sunny Gardens Estates 1, E-8 | 114 | 68% | 74% 1984 \$49,800 |
| 112 Deerwood Villas 1, D-8 | 107 | 36% | 74% 1989 \$75,100 |
| 113 School House Subdivision, N-4 | 59 | 78% | 74% 1973 \$44,900 |
| 114 Bell Aire, G-11 | 145 | 77% | 72% 1973 \$71,800 |
| 115 Bell Aire, G-11 | 60 | 100% | 72% 1970 \$72,000 |

HOW HOMES FAARED

This map indicates the level of damage found by county inspectors in each of 420 subdivisions or developments in South Dade.

A subdivision is included if it contains at least 25 homes and at least 25 percent of them had been inspected as of mid-November. The color code shows the percentage of all inspected homes in a subdivision that were declared "uninhabitable," whether repairable or not.

Not surprisingly, subdivisions nearest the highest wind zone showed heavy damage. But there are many instances of high-damage subdivisions right next to low-damage ones, which may indicate differences in construction quality. The wind zones are based on a preliminary damage analysis performed by NOAA scientists.

PERCENT OF INSPECTED HOMES DECLARED UNINHABITABLE

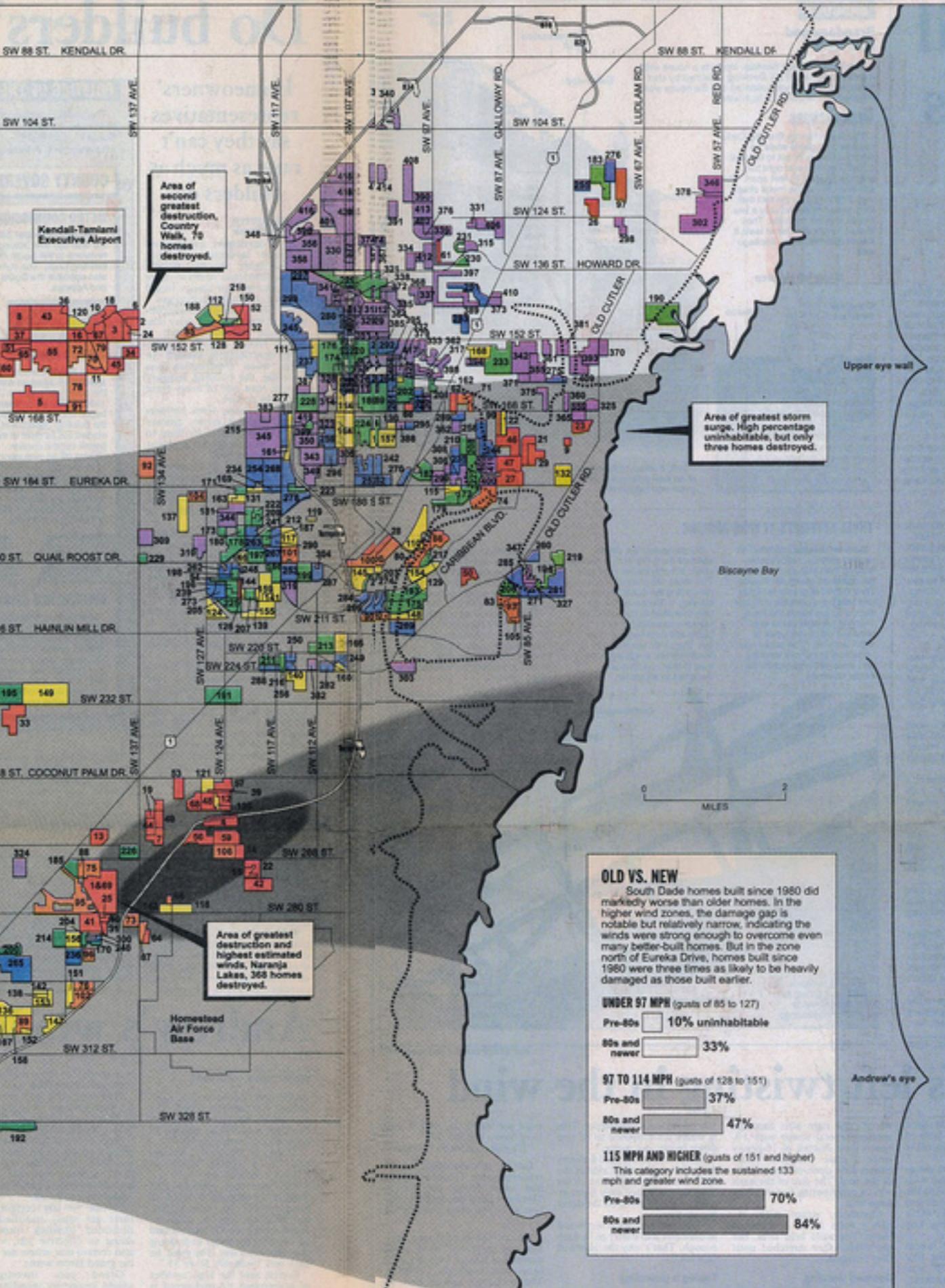
| | |
|--------------------------|-----------|
| 90 to 100% uninhabitable | 25 to 50% |
| 75 to 90% | 10 to 25% |
| 50 to 75% | 0 to 10% |
| 25 to 50% uninhabitable | 0 to 10% |

WIND SPEEDS

| |
|--|
| Sustained winds under 97 mph (peak gusts of 65 to 127 mph) |
| Sustained winds of 97 to 114 mph (peak gusts of 128 to 151 mph) |
| Sustained winds of 115 to 132 mph (peak gusts of 151 to 175 mph) |
| Sustained winds in excess of 133 mph (peak gusts of 176 mph and higher) |

STORM SURGE

----- Extent of storm surge



SOURCE: Herald analysis of county data; NOAA

| |
| --- |
| Lincoln Park Apartments |

<tbl_r cells="1" ix="3" maxcspan="1" maxrspan

HIGH WINDS, LOW PRESSURE

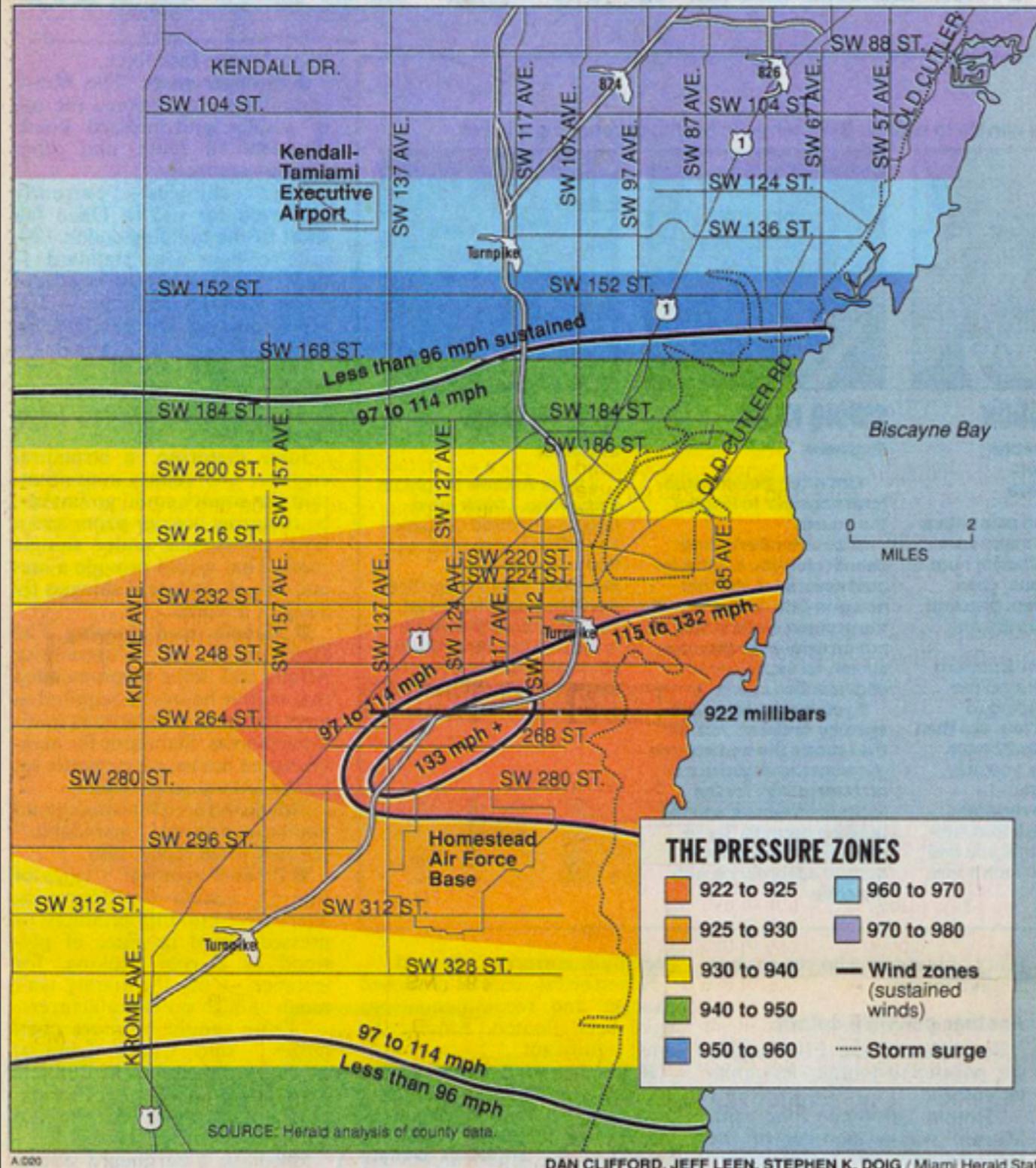
This map charts the intensity of Hurricane Andrew by displaying the wind and barometric pressure conditions that existed as the storm came ashore. The barometric pressure gradients — called isobars — are based on unofficial readings from amateur meteorologists that have been analyzed by meteorologist Edward Rappoport, of the National Hurricane Center in Coral Gables.

Pressure is considered the most accurate measure of hurricane strength, with the lowest

pressures indicating the strongest storms. The 922 millibar reading, centered near Naranja Lakes, secures Andrew's position as the third-strongest hurricane to hit the continental United States this century.

The dotted line that meanders near the coast is the extent of the tidal surge of seawater.

The wind zone areas are based on preliminary estimates of sustained wind strength by NOAA scientist Peter Black.



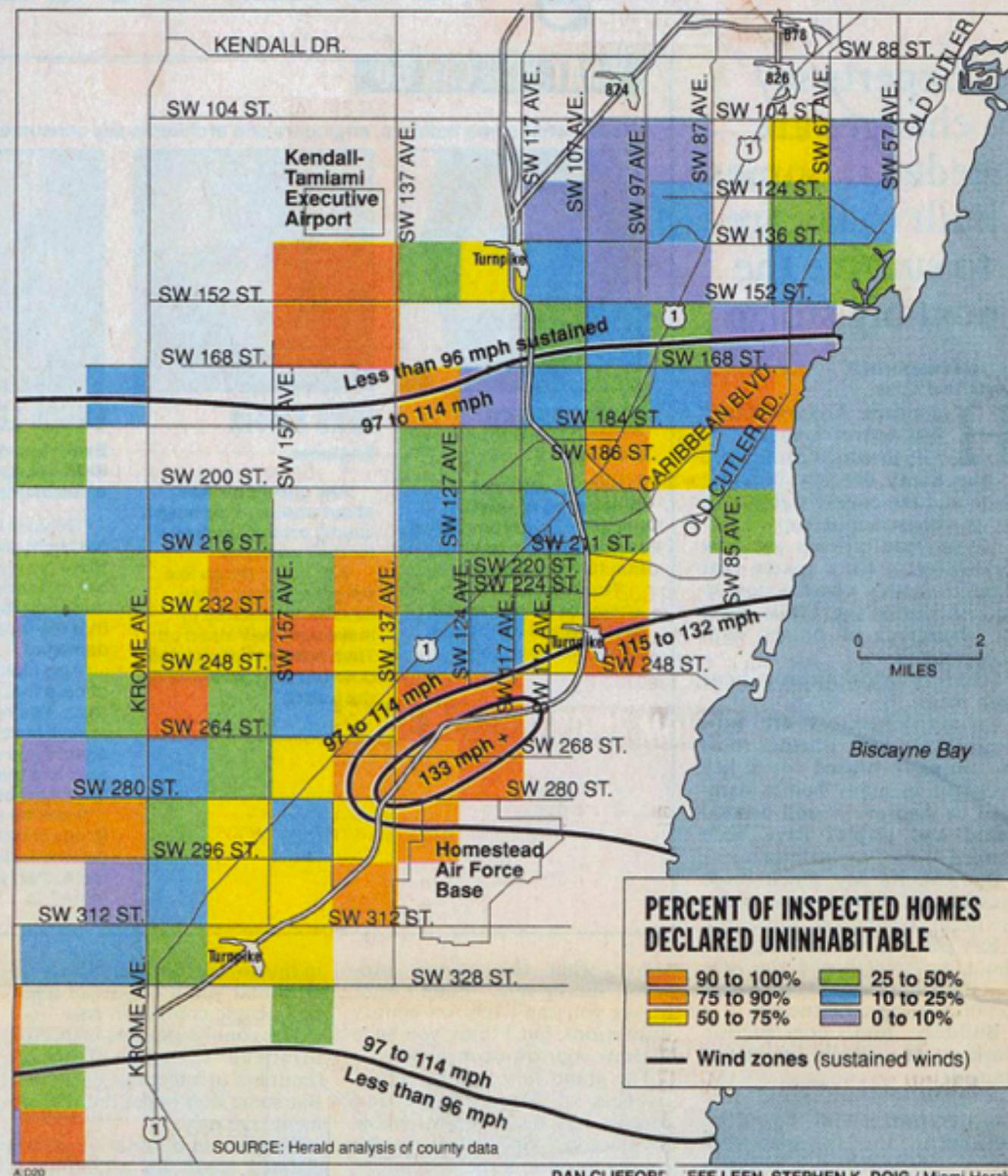
DAN CLIFFORD, JEFF LEEN, STEPHEN K. DOIG / Miami Herald Staff

PATCHWORK OF DESTRUCTION

This map shows the percentage of all the homes inspected in each square mile of South Dade that have been declared uninhabitable, whether repairable or not.

A square mile is shaded only if at least 10 percent of the housing units there had been inspected and there are at least 25 homes.

Predictably, high-damage squares are clustered around the zone of peak wind



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UNINHABITABLE HOMES

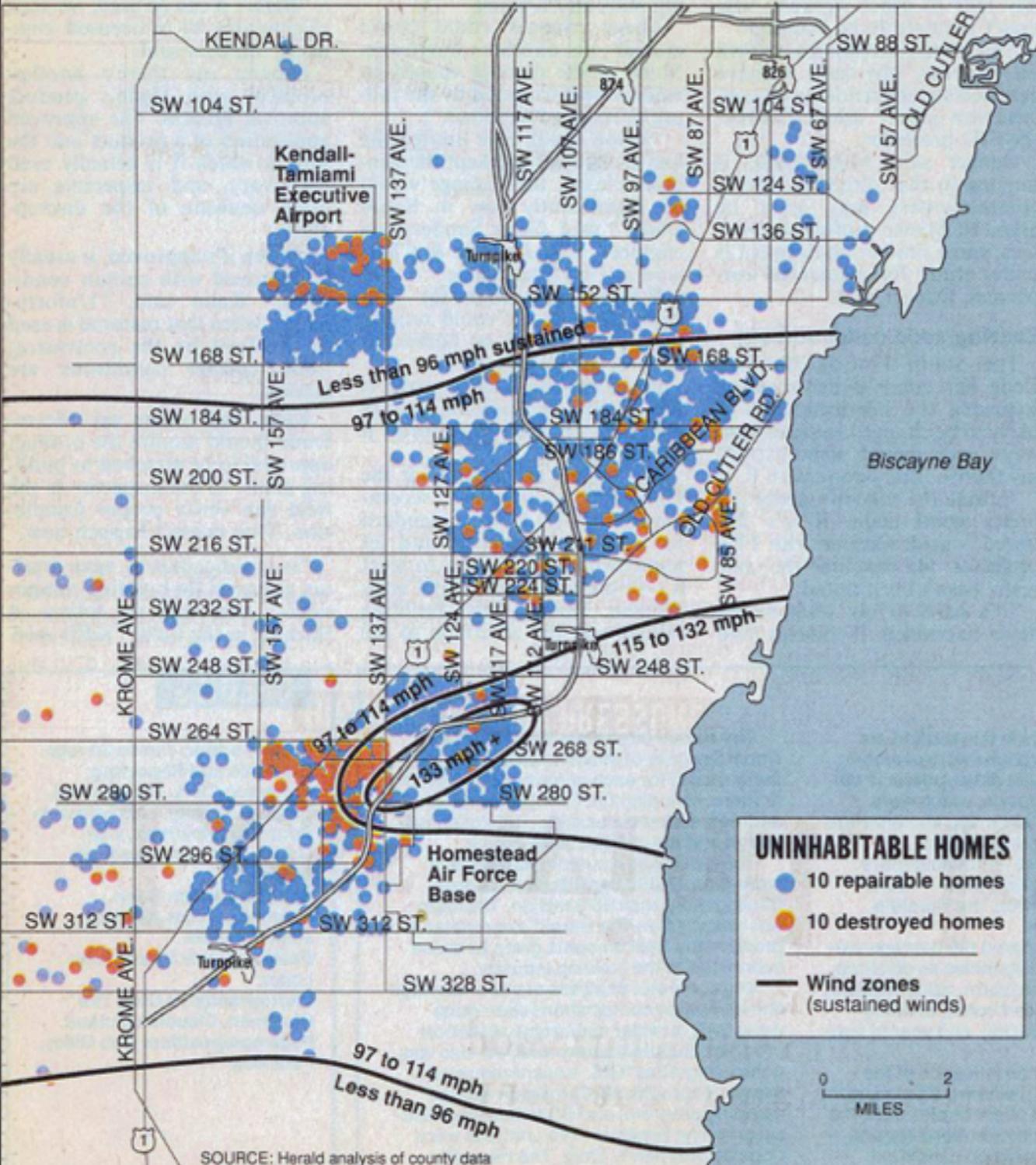
This dot-density map indicates the number and approximate location of nearly 15,000 homes south of Kendall Drive declared "uninhabitable" by county inspectors in the weeks following Andrew.

The blue dots represent uninhabitable homes that were deemed "repairable." The red dots represent homes damaged so badly that they need to be demolished.

Notice the dot patterns in relationship to the wind

zones on the map. For instance, in the area around the worst wind zone, the oval just north of Homestead Air Force Base, there is a heavy pattern of destruction, as would be expected.

But there also is heavy damage in the zone north of SW 168th St., an area where hurricane scientists believe the sustained winds stayed below 96 mph., well below the maximum winds specified in the South Florida Building Code.



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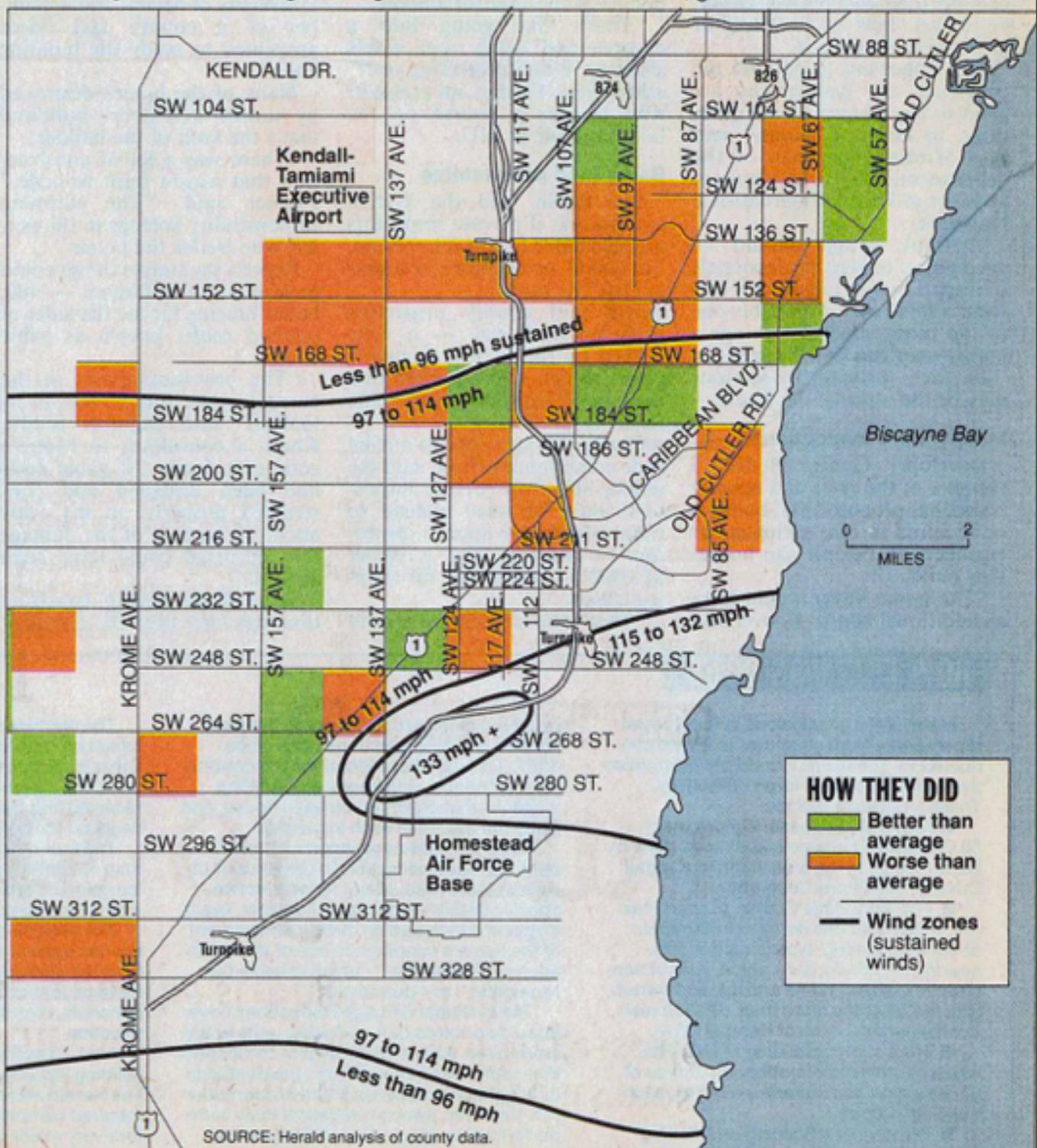
SOME BETTER, SOME WORSE

If homes built since 1980 were constructed like those built earlier, the average level of damage for both should be approximately the same. What this map shows is where homes built since 1980 were damaged to a significantly greater or lesser extent than those nearby.

A square is colored red if the average damage to homes built since 1980 was at least 50 percent higher than average damage to all homes. A square is colored green if the average damage was at least

50 percent less than the average.

For instance, if there are a thousand homes in a specific square mile — including 400 built since 1980 — and half of all homes were uninhabitable, then 200 built since 1980 should be uninhabitable. This map shows only those square miles where the damage difference is at least 50 percent greater or 50 percent less. The square in this example would be red if 300 or more homes were uninhabitable, green if there were 100 or fewer.



DAN CLIFFORD, JEFF LEEN, STEPHEN K. DOIG / Miami Herald Staff

1993 Pulitzer for Public Service

“For coverage that not only helped readers cope with Hurricane Andrew's devastation but also showed how lax zoning, inspection and building codes had contributed to the destruction.”