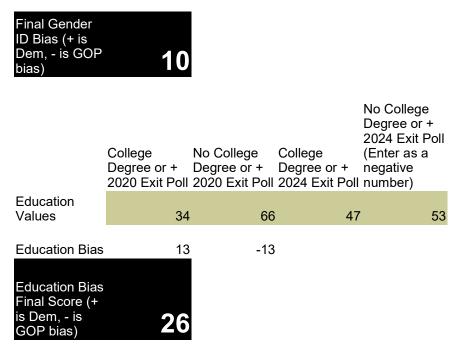
atlas intel, WI, 9/20-9/25

Poll Bias Score 285, severely biased, will adjust. POLL BIAS CACLULATOR

| | Party ID | Gender | Education | Region | | Age Demo |
|--------------------------------------------------------------|----------|--------|---------------------|--------------------------------------------|--------------------------|-------------|
| Bias Multiplier (Level of Bias Significance) | 10 | 6 | 6 | 3 | 5 | 4 |
| Bias by Cateogry | 70 | 60 | 156 | 0 | -5 | 4 |
| OVERALL 2024 POLL BIAS (+ is Dem, - is GOP bias) | | | MILD BIAS (0-50) | DEFINITE BIAS, EXCESSIVE (50-100) | SEVERE BIAS (100+) | |

Understanding the Overall Poll Bias Score – A perfect bias score as compared to the 2020 exit polls equals a 0 value. A positive score equals a Democratic bias. A negative score equals a Republican bias. The higher the value of the number, the worse the bias. I will adjust polls with this score in mind. Usually the adjustment is straightforward in that I can apply the proper party ID, gender ID, education ID to the party votes provided in the cross tabs. Sometimes pollsters hide the party ID, gender ID or education ID, but I have methods of inferring those. The calculators for inferring these party ID values can be found below. Regional bias usually can't be inferred, although if they provide how each region votes they can.

| | Dem 2020 Exit Poll | GOP 2020 Exit Poll | Dem 2024 Poll | GOP 2024 Poll | I | |
|--------------------------------------------------------|--------------------------|------------------------|-------------------|-----------------------|----|----|
| Party ID Values | 3 | 2 | 37 | 36 | 34 | 31 |
| Party ID Difference | | 4 | -3 | | | |
| Party ID Bias Score (+ is Dem, - is GOP bias) | 7 | 7 | | | | |
| | Female 2020 Exit Poll | Male 2020 Exit Poll | Female 20 Poll |)24 Male 2024 Poll | | |
| Gender ID Values | 5 | 0 | 50 | 55 | 45 | |
| Gender ID Bias | | 5 | -5 | | | |

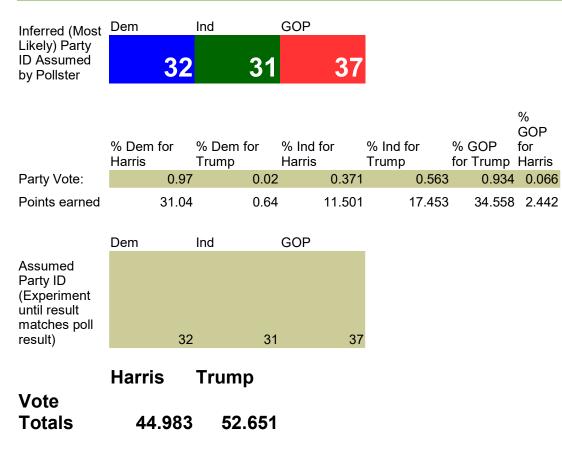


| | Northeast 2020 Exit Poll | South 2020 Exit Poll | Midwest 202 Exit Poll | 20 West 2020 Exit Poll | North- east 2024 Poll | South 2024 Poll | Midwest 2024 Poll | West 2024 Poll |
|--------------------------------------------------------|-----------------------------|-------------------------|--------------------------|---------------------------|-----------------------------|-----------------------|-------------------------|----------------------|
| Regional Values (national polls only) | | | | | | | | |
| Regional Bias (National Polls Only) | C | <u>)</u> | 0 | 0 | 0 | | | |
| Regional Bias Score (+ is Dem, - is GOP bias) | 0 | | | | | | | |

| | White 2020 Exit Poll | Black 2020 Exit Poll | Other 2020 Exit Poll | 2020 latino |) | White 2024 Exit Poll | Black 2024 Exit Poll | | oll I | |
|------------------------------------------------------|-------------------------|-------------------------|-------------------------|-------------|----|----------------------------|-------------------------------|---|-------|---|
| Racial ID percentage | 8 | 6 | 6 | 3 | 2 | . 8 | 7 | 6 | 4 | 3 |
| Racial Polling Sample Bias | | 1 | 0 | 1 | -1 | | | | | |
| Racial Bias Score (+ is GOP, - is Dem bias) | -1 | | | | | | | | | |

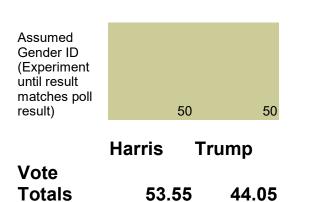
| | 18-29 Exit Poll | 30-44 Exit Poll 14 | 45-64 Exit Poll 21 | 65+ Exit Pc 39 | | 2024 | 45-64 2024 Poll | 65+ Poll 40 | 23 |
|-------------------------------|--------------------|--------------------------|--------------------------|--------------------|-----------------------|-----------------------|-----------------------|-------------------|----|
| Age ID Age Bias | | -1 | 2 | 1 | -3 | 5 Z | 5 | 40 | 23 |
| Age Bias Score | | 1 | Z | I | -5 | | | | |
| | 18-35 Exit Poll | 36-44 Exit Poll | 45+ Exit Po | oll n/a | 18-35 2024 | 36-44 2024 | 45+ 2024 | n/a | |
| Age ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Age Bias | | 0 | 0 | 0 | 0 | | | | |
| Age Bias Score | 18-35 Exit | 0 36-44 Exit | | | 18-35 | 26.44 | 45+ | | |
| | Poll | Poll | 45+ Exit Po | oll n/a | 2024 | 36-44 2024 | 40+ 2024 | n/a | |
| Age ID | | 0 | 0 | 0 | | | 0 | 0 | 0 |
| Age Bias | | 0 | 0 | 0 | 0 | | | | |
| Age Bias Score | 18-45 Exit | 0 45-64 Exit | | | 10.15 | 45.04 | | oc / | |
| | Poll | Poll | 65+ Exit Po | | 18-45 | 45-64 0 | | 65 n/a | 0 |
| Age ID Age Bias | | 0 | 0 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Age Bias Score | | 0 | | 0 | | | 50-64 | | |
| | 18-34 Exit Poll | 35-49 Exit Poll | 50-64 Exit Poll | 65+ Exit Po | 18-34 II 2024 poll | 2024 poll | 2024 poll | 2024 poll | 4 |
| Age ID | | 0 | 0 | 0 | | | 0 | 0 | 0 |
| Age Bias Age Bias Score | | 0 0 | 0 | 0 | 0 | | | | |
| | 18-29 Exit Poll | 30-39 Exit Poll | 40-49 Exit Poll | 50-64 Exit Poll | 65+ Exit Poll | 18-29 Exit Poll | 30-39 Exit P | oll Poll | |
| Age ID | | 14 | 14 | 14 | | | 4 | 9 | 16 |
| Age Bias Age Bias Score | _ | 10 0 n/a | -5 | 2 | 0 1 | 3 | | | |

PARTY ID CALULATOR

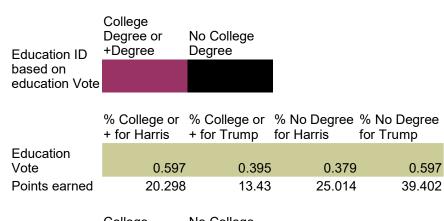


GENDER ID CALCULATOR

| Gender ID based on Gender Vote | Women | 50 | Men | 50 | | | | |
|--------------------------------------|--------|--------|-------|---------|---------|-------|-------|-------|
| | % Wome | on for | % Wor | oon for | % Mon f | or | % Men | for |
| | Harris | | Trump | | Harris | 01 | Trump | 101 |
| Gender Vote | | 0.53 | | 0.455 | | 0.541 | | 0.426 |
| Points earned | | 26.5 | | 22.75 | | 27.05 | | 21.3 |
| | | | | | | | | |
| | Women | | Men | | | | | |



EDUCATION ID CALCULATOR



| | College Degree or + | No College Degree |) |
|--------------------------------------------------------------------------------|------------------------|----------------------|----|
| Assumed Gender ID (Experiment until result matches poll result) | 34 | 4 | 66 |
| | | _ | |

| | Harris | Trump |
|--------|--------|--------|
| Vote | | |
| Totals | 45.312 | 52.832 |

White

RACIAL DEMOS CALCULATOR

Racial ID based on Racial Vote

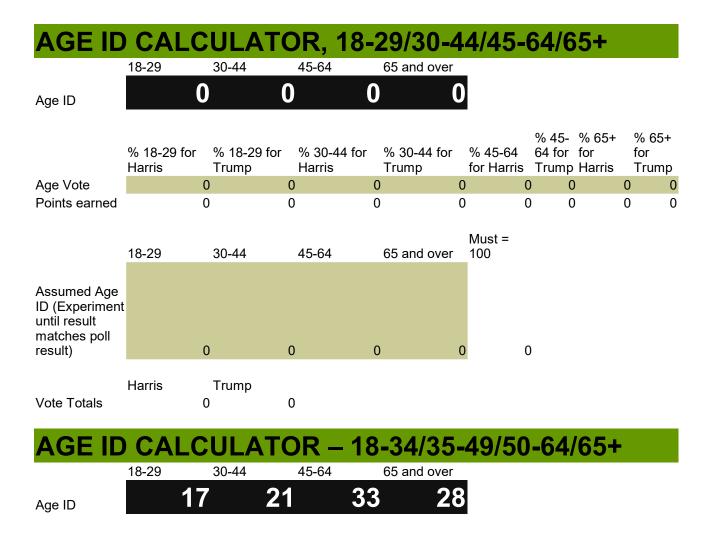
Black

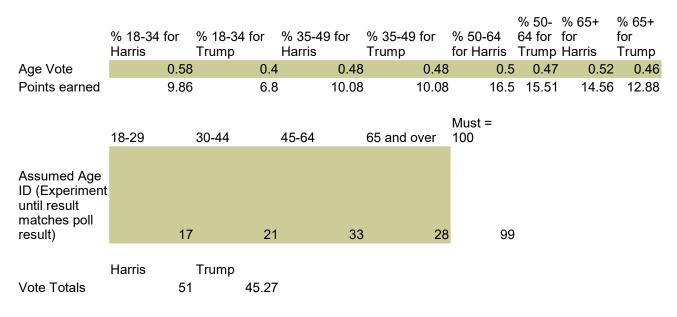
Latino

Asian

0.597

| | | | : | Sheet1 | | | | | |
|----------------------|-----------------------|---------------------|---------------------|---------------------|------|----------------------|--------------------------------|-----|---|
| | 86 | 5 | 6 | 8 | 0 | | | | |
| Racial Vote | % White for Harris | % White fo Trump | r % Black Harris | for % Blac Trump | | % Other or Harris | % Other for Trump n/a | n/a | |
| | 0.4 | .5 | 0.5 | 0.64 | 0.36 | 0.46 | 0.48 | | |
| Points earned | 38. | .7 | 43 | 3.84 | 2.16 | 3.68 | 3.84 | 0 | 0 |
| Assumed Racial ID | White | Black | other | n/a | | | | | |
| | 8 | 6 | 6 | 8 | | | | | |
| | Harris | Trump | | | | | | | |
| Vote Totals | 46.2 | 2 4 | 49 | | | | | | |





AGE ID CALCULATOR – 18-29/30-39/40-49/50-64/65+ 18-29 30-44 45-64 65 and over

| | 10 20 | 00 44 | 40.04 | | | | |
|--------------------------------------------------------------------------|--------------|--------------------|------------------|----------------------|--------------------|-------------------------------|----------------|
| Age ID | 1 | 4 ⁻ | 14 | 14 : | 32 | | |
| | 18-29 Harris | s 18-29 Tru | mp 30-39 Ha | rris 30-39 Tru | 40- mp 49Harris | 40-49 50-64 Trump Harris | 50-64 Trump |
| Age Vote | 0 | .6 | 0.37 | 0.51 | 0.43 0.43 | 3 0.48 0. | 4 0.56 |
| Points earned | 8 | .4 | 5.18 | 7.14 | 6.02 6.02 | 2 6.72 12. | 8 17.92 |
| | 18-29 | 30-39 Exit Poll | 40-49 Ex Poll | it 50-64 Exi Poll | t 65+ Exit Poll | | |
| Assumed Age ID (Experiment until result matches poll result) | | 14 | 14 | 14 | 32 20 | 6 | |
| Vote | Harris | Trump | | | | | |
| Totals | | 0 | 0 n/a | | | | |

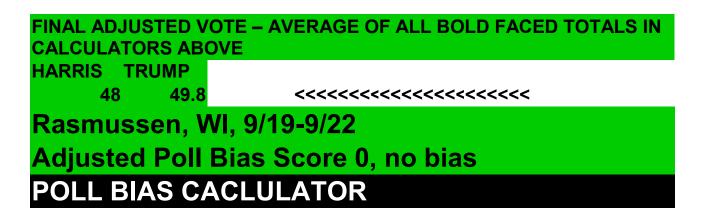
FIVE CATEGORIES TO TWO – EDUCATION ID CALCULATOR



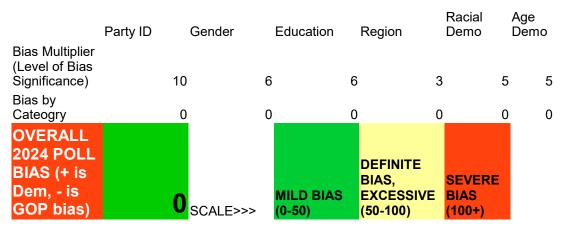
| | No HS Harris | No HS Trump | HS Harris | | Some Coll Harris | Some Coll Trump | BA Harris | BA Trump |
|----------------------------|--------------|-------------|-----------|------|---------------------|-----------------------|--------------|-------------|
| Age Vote | 0.33 | 0.67 | 0.42 | 0.50 | 0.34 | 0.59 | 0.43 | 0.49 |
| Points earned | 1.0 | 2.0 | 10.9 | 13.0 | 8.2 | 14.2 | 9.5 | 10.8 |
| Corrected Points Earned | 1.2 | 2.4 | 13.1 | 15.6 | 9.8 | 17.0 | 7.6 | 8.6 |

| | No HS | HS | Some C | oll BA | BA+ | | | on BA E otal 1 | 3A+ Total |
|------------------------------------------------|-------|------|--------|--------|------|------|-------|-------------------|--------------|
| % of each education category included | | 3.0 | 26.0 | 24.0 | 22.0 | 25.0 | 100.0 | 50.0 | 50.0 |
| % of total | | 0.06 | 0.52 | 0.48 | 0.44 | 0.50 | | | |
| Corrected total per education category | | 3.6 | 31.2 | 28.8 | 17.6 | 20.0 | | | |

| | Harris | Trump | |
|-------------|--------|-------|------|
| Vote Totals | | 41.8 | 51.5 |
| Corrected | | | |
| Vote | | | |
| Toals | | 0.0 | 0.0 |







Understanding the Overall Poll Bias Score – A perfect bias score as compared to the 2020 exit polls equals a 0 value. A positive score equals a Democratic bias. A negative score equals a Republican bias. The higher the value of the number, the worse the bias. I will adjust polls with this score in mind. Usually the adjustment is straightforward in that I can apply the proper party ID, gender ID, education ID to the party votes provided in the cross tabs. Sometimes pollsters hide the party ID, gender ID or education ID, but I have methods of inferring those. The calculators for inferring these party ID values can be found below. Regional bias usually can't be inferred, although if they provide how each region votes they can.

| | Dem 2020 Exit Poll | GOP 2020 Exit Poll | | Dem 2024 Poll | | GOP 2024 Poll | I |
|---------------------------------------------------------|-----------------------------------------|------------------------|----|-------------------|----|------------------------------------------------------------------------------|-----------|
| Party ID Values | 32 | 2 | 37 | , | 32 | 2 | 37 |
| Party ID Difference | (|) | C |) | | | |
| Party ID Bias Score (+ is Dem, - is GOP bias) | 0 | | | | | | |
| | Female 2020 Exit Poll | Male 2020 Exit Poll | | Female 20 Poll | 24 | Male 2024 Poll | |
| Gender ID Values | 50 |) | 50 |) | 50 |) | 50 |
| Gender ID Bias | (|) | C |) | | | |
| Final Gender ID Bias (+ is Dem, - is GOP bias) | 0 | | | | | | |
| | College Degree or + 2020 Exit Pol | | + | | | No College Degree or 2024 Exit F (Enter as a negative number) | + Poll |

Education Values 0 0 0 0 Education Bias Final Score (+ is Dem, - is GOP bias) 0 0 0

| | Northeast 2020 Exit Pol | South 2020 I Exit Poll | Midwest 202 Exit Poll | 20 West 2020 Exit Poll | North- east 2024 Poll | South 2024 Poll | Midwest 2024 Poll | West 2024 Poll |
|--------------------------------------------------------|----------------------------|---------------------------|--------------------------|---------------------------|-----------------------------|-----------------------|-------------------------|----------------------|
| Regional Values (national polls only) | | | | | | | | |
| Regional Bias (National Polls Only) | (|) | 0 | 0 | 0 | | | |
| Regional Bias Score (+ is Dem, - is GOP bias) | C | | | | | | | |

| | White 2020 Exit Poll | Black 2020 Exit Poll | Other 2020 Exit Poll | 2020 latino | | White 2024 Exit Poll | Black 2024 Exit Poll | | oll na | |
|------------------------------------------------------|-------------------------|-------------------------|-------------------------|-------------|---|----------------------------|-------------------------------|---|--------|---|
| Racial ID percentage | 8 | 6 | 6 | 8 | 0 | 8 | 6 | 6 | 8 | 0 |
| Racial Polling Sample Bias | | 0 | 0 | 0 | 0 | | | | | |
| Racial Bias Score (+ is GOP, - is Dem bias) | | | | | | | | | | |

| | 18-29 Exit Poll | 30-44 Exit Poll | 45-64 Exit Poll | 65+ Exit Pol | 18-29 I 2024 Poll | 2024 | 4 45-64 2024 Poll | 65+ Poll | |
|-------------------|--------------------|--------------------|--------------------|--------------|----------------------|------|-------------------------|-------------|---|
| Age ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Age Bias | | 0 | 0 | 0 | 0 | | | | |
| Age Bias Score | | 0 | | | | | | | |

| | | | She | eet1 | | | | | |
|-------------------------------|--------------------|------------------------|--------------------|--------------------|------------------|-----------------------|------------------|--------------------------|----|
| | 18-35 Exit Poll | 36-44 Exit Poll | 45+ Exit Po | ll n/a | 18-35 2024 | 36-44 2024 | | n/a | |
| Age ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Age Bias | | 0 | 0 | 0 | 0 | | | | |
| Age Bias Score | | 0 | | | | | | | |
| | 18-35 Exit Poll | 36-44 Exit Poll | 45+ Exit Po | ll n/a | 18-35 2024 | 36-44 2024 | | n/a | |
| Age ID | | 0 | 0 | 0 | 0 | | 0 | 0 | 0 |
| Age Bias | | 0 | 0 | 0 | 0 | | | | |
| Age Bias Score | | 0 | | | | | | | |
| | 18-45 Exit Poll | 45-64 Exit Poll | 65+ Exit Po | ll n/a | 18-45 | 45-64 | | 65 n/a | |
| Age ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Age Bias | | 0 | 0 | 0 | 0 | | | | |
| Age Bias Score | 18-34 Exit | 0 35-49 Exit | 50-64 Exit | | 18-34 | 2024 | 50-64 2024 | 65+ 2024 | Ļ |
| | Poll | Poll | Poll | 65+ Exit Po | | | poll | poll | • |
| Age ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Age Bias Age Bias Score | | 0 | 0 | 0 | 0 | | | | |
| | 18-29 Exit Poll | 30-39 Exit Poll | 40-49 Exit Poll | 50-64 Exit Poll | 65+ Exit Poll | 18-29 Exit Poll | 30-39 Exit Po | 40-4 Exit oll Poll | - |
| Age ID | | 14 | | | | 26 1 | 4 | 14 | 14 |
| Age Bias | | 0 | 0 | 0 | 0 | 0 | | | |
| Age Bias Score | | 0 | | | | | | | |

50-64 Exit Poll 32

39

| 65+ Harris | 65+ Trump |
|------------|-----------|
| 0.46 | 0.52 |
| 11.96 | 6 13.52 |

| BA+ Harris 0.49 12.3 9.8 | 0.46 11.5 |
|-----------------------------------|------------------------|
| Corrected Non BA total | Corrected BA+ total |
| | |
| 60.0 | 40.0 |
| 60.0 | 40.0 |
| 60.0 | 40.0 |
| 60.0 | 40.0 |



50-64 Exit Poll 32

26