## New and Improved Power Ranking (NIPR)

*Nipr={all cats}; Bopper={run,hr,rbi,tb}; Pitchin={w,sv,k,era,whip}*

| Team | NIPR | NIPR Rank | | BOPPER | BOPPER Rank | | PITCHIN | PITCHIN Rank |
|---|---|---|---|---|---|---|---|---|
| Bay City Brawlers | 31 | 5 | | 56 | 4 | | 23 | 5 |
| Bayside Tigers | -27 | 10 | | -66 | 12 | | 20 | 6 |
| CRYOGENIC TEDS | 35 | 4 | | 31 | 6 | | 65 | 4 |
| jax suns | -49 | 13 | | -66 | 11 | | -69 | 13 |
| KGG 2013 | 15 | 6 | | -76 | 13 | | 93 | 3 |
| Killer Maltese | -38 | 11 | | -45 | 10 | | -46 | 9 |
| Naperville Lunchbox | 52 | 3 | | 51 | 5 | | 95 | 2 |
| Plainfield Shutouts | -44 | 12 | | -43 | 9 | | -57 | 12 |
| Plano Tiburon | 76 | 2 | | 62 | 3 | | 103 | 1 |
| RBI's all day | -120 | 14 | | -120 | 14 | | -131 | 14 |
| The Flying Penguins | -18 | 8 | | -35 | 8 | | -48 | 10 |
| The Hills Have RBIs | 7 | 7 | | 74 | 2 | | -50 | 11 |
| The Lazy Robot | 98 | 1 | | 204 | 1 | | 5 | 7 |
| Vatican City Popes | -19 | 9 | | -27 | 7 | | -4 | 8 |

## NIPR for Special Category Areas

*NIPR-1={all cats except your worst}; PQUAL={era,whip}; PQUAN={win,sv,k}*

| Team | NIPR-1 | NIPR-1 Rank | | PQUAL | PQUAL Rank | | PQUAN | PQUAN Rank |
|---|---|---|---|---|---|---|---|---|
| Bay City Brawlers | 41 | 5 | | 40 | 3 | | -33 | 9 |
| Bayside Tigers | -13 | 10 | | 151 | 2 | | -129 | 14 |
| CRYOGENIC TEDS | 50 | 4 | | 30 | 6 | | 65 | 5 |
| jax suns | -41 | 13 | | -23 | 8 | | -117 | 13 |
| KGG 2013 | 31 | 6 | | 35 | 4 | | 129 | 2 |
| Killer Maltese | -31 | 11 | | -47 | 10 | | -19 | 8 |
| Naperville Lunchbox | 76 | 3 | | 33 | 5 | | 183 | 1 |
| Plainfield Shutouts | -39 | 12 | | -55 | 11 | | -55 | 10 |
| Plano Tiburon | 87 | 2 | | 192 | 1 | | 79 | 4 |
| RBI's all day | -107 | 14 | | -132 | 13 | | -81 | 11 |
| The Flying Penguins | -6 | 8 | | -25 | 9 | | -115 | 12 |
| The Hills Have RBIs | 23 | 7 | | -135 | 14 | | 11 | 6 |
| The Lazy Robot | 119 | 1 | | -2 | 7 | | -2 | 7 |
| Vatican City Popes | -8 | 9 | | -61 | 12 | | 84 | 3 |

# NIPR Category Data

*Category Z-score \* 100. Average is 0. One stdev better than average is 100. And 1 stdev worse is -100.*

| Team | Run | Hr | Rbi | Sb | Tb | W | Sv | K | Era | Whip | NIPR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Bay City Brawlers | 166 | -64 | 6 | -33 | 114 | -41 | 102 | -26 | 38 | 43 | 31 |
| Bayside Tigers | -99 | 29 | -97 | -100 | -99 | -148 | 56 | -110 | 119 | 183 | -27 |
| CRYOGENIC TEDS | 44 | 6 | 42 | -95 | 31 | 74 | 137 | 57 | 36 | 24 | 35 |
| jax suns | 15 | -68 | -115 | 119 | -94 | -110 | -65 | -124 | 28 | -75 | -49 |
| KGG 2013 | -26 | -59 | -89 | -9 | -130 | 158 | 137 | 100 | 67 | 2 | 15 |
| Killer Maltese | -9 | -73 | -94 | 29 | -3 | -18 | -100 | -20 | -46 | -48 | -38 |
| Naperville Lunchbox | -58 | 149 | 90 | -157 | 24 | 143 | 44 | 223 | 66 | 1 | 52 |
| Plainfield Shutouts | -54 | -54 | -44 | 15 | -20 | -18 | -65 | -92 | -66 | -44 | -44 |
| Plano Tiburon | 48 | 10 | 87 | -4 | 104 | 66 | -25 | 92 | 220 | 163 | 76 |
| RBI's all day | -242 | -96 | -31 | -71 | -109 | -79 | -226 | -82 | -84 | -181 | -120 |
| The Flying Penguins | -5 | -82 | -73 | 205 | 22 | -125 | 39 | -104 | -37 | -13 | -18 |
| The Hills Have RBIs | 31 | 112 | 100 | 19 | 54 | 20 | -2 | 1 | -139 | -132 | 7 |
| The Lazy Robot | 138 | 236 | 234 | 138 | 208 | -41 | 33 | 38 | -89 | 85 | 98 |
| Vatican City Popes | 52 | -45 | -15 | -57 | -101 | 120 | -65 | 48 | -112 | -9 | -19 |

## NIPR Explanation
*May 2013*

The goal of the NIPR is to give a statistical measure of a team's performance, independent of head-to-head weekly competition. The NIPR measures a team's statistical performance in each category (cat) over the whole season.

For each cat, the NIPR is a team's Z-score for that cat times 100. I multiply by 100, so that the NIPR is a whole number. The Z-score is the number of standard deviations either better or worse than average for a cat. An average performance gives a NIPR of 0, no better or worse than average.

Example: Assume the league average is 9 homers per week and the stdev is 1.
If Team Z averages 9 homers per week, their NIPR is 0.
If team X averages 10 homers per week, then their NIPR for homers is 100.
If Team Y averages 11 homers per week, their NIPR is 200.
If Team DOP averages 8 homers per week, their NIPR is -100.

Other NIPR scores are simply the averages over multiple categories:
  NIPR = average(all cats)
  NIPR-1 = average( all cats except team's worst)
  BOPPER = average(run,hr,rbi,tb)
  PQUAN=average(win,k)
  PQUAL=average(era,whip)