

Miami, Ohio

| Year | Seed | Opponent | Seed | Score | Opp Score | W | L | OT | Round |
|------|------|--------------------|------|-------|-----------|---|----|----|----------------------|
| 1953 | | DePaul | | 72 | 74 | 0 | 1 | 0 | Round of 32 |
| 1955 | | Marquette | | 79 | 90 | 0 | 2 | 0 | Round of 32 |
| 1957 | | Notre Dame | | 77 | 89 | 0 | 3 | 0 | Round of 32 |
| 1958 | | Pittsburgh | | 82 | 77 | 1 | 3 | 0 | Round of 32 |
| | | Kentucky | | 70 | 94 | 1 | 4 | 0 | Sweet Sixteen |
| | | Indiana | | 91 | 98 | 1 | 5 | 0 | Regional Third Place |
| 1966 | | Dayton | | 51 | 58 | 1 | 6 | 0 | Round of 32 |
| 1969 | | Notre Dame | | 63 | 60 | 2 | 6 | 0 | Round of 32 |
| | | Purdue | | 71 | 91 | 2 | 7 | 0 | Sweet Sixteen |
| | | Kentucky | | 71 | 72 | 2 | 8 | 0 | Regional Third Place |
| 1971 | | Marquette | | 47 | 62 | 2 | 9 | 0 | Round of 32 |
| 1973 | | Marquette | | 62 | 77 | 2 | 10 | 0 | Round of 32 |
| 1978 | | Marquette | | 84 | 81 | 3 | 10 | 1 | Round of 32 |
| | | Kentucky | | 69 | 91 | 3 | 11 | 0 | Sweet Sixteen |
| 1984 | 8 | Southern Methodist | 9 | 69 | 83 | 3 | 12 | 0 | Round of 64 |
| 1985 | 12 | Maryland | 5 | 68 | 69 | 3 | 13 | 1 | Round of 64 |
| 1986 | 10 | Iowa State | 7 | 79 | 81 | 3 | 14 | 1 | Round of 64 |
| 1992 | 13 | North Carolina | 4 | 63 | 68 | 3 | 15 | 0 | Round of 64 |
| 1995 | 12 | Arizona | 5 | 71 | 62 | 4 | 15 | 0 | Round of 64 |
| | 12 | Virginia | 4 | 54 | 60 | 4 | 16 | 1 | Round of 32 |
| 1997 | 13 | Clemson | 4 | 56 | 68 | 4 | 17 | 0 | Round of 64 |
| 1999 | 10 | Washington | 7 | 59 | 58 | 5 | 17 | 0 | Round of 64 |
| | 10 | Utah | 2 | 66 | 58 | 6 | 17 | 0 | Round of 32 |
| | 10 | Kentucky | 3 | 43 | 58 | 6 | 18 | 0 | Sweet Sixteen |
| 2007 | 14 | Oregon | 3 | 56 | 58 | 6 | 19 | 0 | Round of 64 |