

Xavier, Ohio

| Year | Seed | Opponent | Seed | Score | Opp Score | OT | W | L | Round |
|------|------|-------------------|------|-------|-----------|----|----|----|-------------------|
| 1961 | | Morehead State | | 66 | 71 | 0 | 0 | 1 | Round of 32 |
| 1983 | 12 | Alcorn State | 12 | 75 | 81 | 0 | 0 | 2 | Preliminary Round |
| 1986 | 12 | Alabama | 5 | 80 | 97 | 0 | 0 | 3 | Round of 64 |
| 1987 | 13 | Missouri | 4 | 70 | 69 | 0 | 1 | 3 | Round of 64 |
| | 13 | Duke | 5 | 60 | 65 | 0 | 1 | 4 | Round of 32 |
| 1988 | 11 | Kansas | 6 | 72 | 85 | 0 | 1 | 5 | Round of 64 |
| 1989 | 14 | Michigan | 3 | 87 | 92 | 0 | 1 | 6 | Round of 64 |
| 1990 | 6 | Kansas State | 11 | 87 | 79 | 0 | 2 | 6 | Round of 64 |
| | 6 | Georgetown | 3 | 74 | 71 | 0 | 3 | 6 | Round of 32 |
| | 6 | Texas | 10 | 89 | 102 | 0 | 3 | 7 | Sweet Sixteen |
| 1991 | 14 | Nebraska | 3 | 89 | 84 | 0 | 4 | 7 | Round of 64 |
| | 14 | Connecticut | 11 | 50 | 66 | 0 | 4 | 8 | Round of 32 |
| 1993 | 9 | New Orleans | 8 | 73 | 55 | 0 | 5 | 8 | Round of 64 |
| | 9 | Indiana | 1 | 70 | 73 | 0 | 5 | 9 | Round of 32 |
| 1995 | 11 | Georgetown | 6 | 63 | 68 | 0 | 5 | 10 | Round of 64 |
| 1997 | 7 | Vanderbilt | 10 | 80 | 68 | 0 | 6 | 10 | Round of 64 |
| | 7 | UCLA | 2 | 83 | 96 | 0 | 6 | 11 | Round of 32 |
| 1998 | 6 | Washington | 11 | 68 | 69 | 0 | 6 | 12 | Round of 64 |
| 2001 | 11 | Notre Dame | 6 | 71 | 83 | 0 | 6 | 13 | Round of 64 |
| 2002 | 7 | Hawaii | 10 | 70 | 58 | 0 | 7 | 13 | Round of 64 |
| | 7 | Oklahoma | 2 | 65 | 78 | 0 | 7 | 14 | Round of 32 |
| 2003 | 3 | Troy | 14 | 71 | 59 | 0 | 8 | 14 | Round of 64 |
| | 3 | Maryland | 6 | 64 | 77 | 0 | 8 | 15 | Round of 32 |
| 2004 | 7 | Louisville | 10 | 80 | 70 | 0 | 9 | 15 | Round of 64 |
| | 7 | Mississippi State | 2 | 89 | 74 | 0 | 10 | 15 | Round of 32 |
| | 7 | Texas | 3 | 79 | 71 | 0 | 11 | 15 | Sweet Sixteen |
| | 7 | Duke | 1 | 63 | 66 | 0 | 11 | 16 | Elite Eight |
| 2006 | 14 | Gonzaga | 3 | 75 | 79 | 0 | 11 | 17 | Round of 64 |
| 2007 | 9 | Brigham Young | 8 | 79 | 77 | 0 | 12 | 17 | Round of 64 |
| | 9 | Ohio State | 1 | 71 | 78 | 1 | 12 | 18 | Round of 32 |