

Idaho State

| Year | Seed | Opponent | Seed | Score | Opp Score | W | L | OT | Round |
|------|------|------------------------|------|-------|-----------|---|----|----|----------------------|
| 1953 | | Seattle | | 77 | 88 | 0 | 1 | 0 | Round of 32 |
| 1954 | | Seattle | | 77 | 75 | 1 | 1 | 1 | Round of 32 |
| | | Southern California | | 59 | 73 | 1 | 2 | 0 | Sweet Sixteen |
| | | Colorado State | | 62 | 57 | 2 | 2 | 0 | Regional Third Place |
| 1955 | | Seattle | | 63 | 80 | 2 | 3 | 0 | Round of 32 |
| 1956 | | Seattle | | 66 | 68 | 2 | 4 | 0 | Round of 32 |
| 1957 | | Hardin-Simmons | | 68 | 57 | 3 | 4 | 0 | Round of 32 |
| | | San Francisco | | 51 | 66 | 3 | 5 | 0 | Sweet Sixteen |
| | | Brigham Young | | 54 | 65 | 3 | 6 | 0 | Regional Third Place |
| 1958 | | Arizona State | | 72 | 68 | 4 | 6 | 0 | Round of 32 |
| | | California | | 43 | 54 | 4 | 7 | 0 | Sweet Sixteen |
| | | San Francisco | | 51 | 57 | 4 | 8 | 0 | Regional Third Place |
| 1959 | | New Mexico State | | 62 | 61 | 5 | 8 | 0 | Round of 32 |
| | | St. Mary's, California | | 71 | 80 | 5 | 9 | 0 | Sweet Sixteen |
| | | Utah | | 71 | 65 | 6 | 9 | 0 | Regional Third Place |
| 1960 | | California | | 44 | 71 | 6 | 10 | 0 | Round of 32 |
| 1974 | | New Mexico | | 65 | 73 | 6 | 11 | 0 | Round of 32 |
| 1977 | | Long Beach State | | 83 | 72 | 7 | 11 | 0 | Round of 32 |
| | | UCLA | | 76 | 75 | 8 | 11 | 0 | Sweet Sixteen |
| | | Nevada-Las Vegas | | 90 | 107 | 8 | 12 | 0 | Elite Eight |
| 1987 | 16 | Nevada-Las Vegas | 1 | 70 | 95 | 8 | 13 | 0 | Round of 64 |