

| Sex | Category | Where | Event | Time | Wind | Name | Relay Team | Born | Venue | Date | No. of Records | Other |
|-------|----------|---------|---------------|----------|------|---|------------------------|----------|--------------------|----------|----------------|-------------|
| Women | Senior | Outdoor | 100m | 11.40 | 1.7 | Amy Foster | | 02.10.88 | Clermont, USA | 10.05.14 | 1 | |
| Women | Senior | Outdoor | 100m | 11.40 | 0.8 | Ailish McSweeney | | 04.10.83 | Liège, BEL | 13.07.10 | 1 | |
| Women | Senior | Outdoor | 200m | 23.02 | 0.3 | Sarah Reilly | | 03.07.73 | Edmonton, CAN | 08.08.01 | 1 | |
| Women | Senior | Outdoor | 300m | 37.07 | | Karen Shinkins | | 15.10.76 | Brasschaat, BEL | 15.08.01 | 1 | |
| Women | Senior | Outdoor | 400m | 50.73 | | Joanne Cuddihy | | 11.05.84 | Osaka, JAP | 27.08.07 | 1 | |
| Women | Senior | Outdoor | 800m | 2.00.58 | | Rose-Anne Galligan | | 09.12.87 | London, ENG | 26.07.13 | 1 | |
| Women | Senior | Outdoor | 1000m | 2.34.66 | | Sonia O'Sullivan | | 28.11.69 | Lille, FRA | 03.07.93 | 7 | |
| Women | Senior | Outdoor | 1500m | 3.58.85 | | Sonia O'Sullivan | | 28.11.69 | Monte Carlo, MON | 25.07.95 | 7 | |
| Women | Senior | Outdoor | 1 Mile | 4.17.26 | | Sonia O'Sullivan | | 28.11.69 | Oslo, NOR | 23.07.94 | 7 | |
| Women | Senior | Outdoor | 2000m | 5.25.36 | | Sonia O'Sullivan | | 28.11.69 | Edinburgh, SCO | 08.07.94 | 7 | |
| Women | Senior | Outdoor | 3000m | 8.21.64 | | Sonia O'Sullivan | | 28.11.69 | London, ENG | 04.08.99 | 7 | |
| Women | Senior | Outdoor | 5000m | 14.41.01 | | Sonia O'Sullivan | | 28.11.69 | Sydney, AUS | 16.09.11 | 7 | |
| Women | Senior | Outdoor | 10000m | 30.47.69 | | Sonia O'Sullivan | | 28.11.69 | Munich, GER | 29.04.07 | 7 | |
| Women | Senior | Outdoor | Marathon | 2.22.23 | | Catherina McKiernan | | 30.11.69 | Amsterdam, NED | 01.11.98 | 1 | |
| Women | Senior | Outdoor | 110m H | 12.65 | -0.5 | Derval O'Rourke | | 28.05.81 | Barcelona, ESP | 31.07.10 | 1 | |
| Women | Senior | Outdoor | 400m H | 54.31 | | Susan Smith | | 14.09.71 | Zurich, SUI | 12.08.98 | 1 | |
| Women | Senior | Outdoor | 3000m S/c | 8.28.29 | | Roisin McGgettigan | | 23.08.80 | Heusden, NED | 28.07.07 | 1 | |
| Women | Senior | Outdoor | High Jump | 1.95m | | Deirdre Ryan | | 01.06.82 | Daegu, KOR | 01.09.11 | 1 | |
| Women | Senior | Outdoor | Long Jump | 6.60m | 1.0 | Kelly Proper | | 01.05.88 | Brussels, BEL | 08.08.10 | 1 | |
| Women | Senior | Outdoor | Triple Jump | 13.62m | 0.9 | Taneisha Scanlon | | 19.11.77 | Bratislava, SVK | 29.05.05 | 1 | |
| Women | Senior | Outdoor | Pole Vault | 4.60m | | Tori Pena | | 30.07.87 | Chula Vista, USA | 06.06.13 | 1 | |
| Women | Senior | Outdoor | Shot | 16.99m | | Marita Walton | | 07.10.60 | Palo Alto, USA | 02.04.83 | 1 | |
| Women | Senior | Outdoor | Discus | 57.60m | | Patricia Walsh | | 07.10.60 | Santry | 07.07.84 | 1 | |
| Women | Senior | Outdoor | Hammer | 73.21m | | Eilleen O'Keefe | | 31.05.81 | Santry | 21.07.07 | 1 | |
| Women | Senior | Outdoor | Javelin | 54.92m | | Anita Fitzgibbon | | 21.02.83 | Santry | 29.07.13 | 1 | |
| Women | Senior | Outdoor | Javelin (Old) | 50.42m | | Mary T Real | | 00.00.71 | Waterford | 20.06.92 | 1 | |
| Women | Senior | Outdoor | 4x100m | 43.93 | | Amy Foster, Niamh Whelan, Clare Brady, Ailish McSweeney | National Team | n/a | Barcelona, ESP | 31.07.10 | 1 | |
| Women | Senior | Outdoor | 4x100m (Club) | 46.03 | | Mairead Murphy, Clara Giles-Doran, Niamh Whelan, Kelly Proper | Ferrybank AC | n/a | Beograd, SER | 28.05.11 | 1 | |
| Women | Senior | Outdoor | 4x400m | 3.27.48 | | Marian Andrews-Heffernan, Joanne Cuddihy, Claire Bergin, Michelle Carey | National Team | n/a | Daegu, KOR | 02.09.11 | 1 | |
| Women | Senior | Outdoor | 4x400m (Club) | 3.42.29 | | Joanne Cuddihy, Fiona Norwood, Geraldine Nolan, Emily Maher | Kilkenny City Harriers | n/a | Tullamore | 13.08.00 | 1 | |
| Women | Senior | Outdoor | 3000m Walk | 12.18.86 | | Kate Veale | | 05.01.84 | Tullamore | 23.07.11 | 1 | |
| Women | Senior | Outdoor | 5000m Walk | 20.02.60 | | Gillian O'Sullivan | | 21.08.76 | Santry | 13.07.02 | 3 | |
| Women | Senior | Outdoor | 10,000m Walk. | 45.28.75 | | Gillian O'Sullivan | | 21.08.76 | San Sebastian, ESP | 01.08.98 | 3 | |
| Women | Senior | Outdoor | 10k Walk Rd. | 43.22 | | Olive Loughnane | | 14.01.76 | Saransk, RUS | 19.09.09 | 1 | |
| Women | Senior | Outdoor | 20k Walk Rd. | 1.19.22 | | Gillian O'Sullivan | | 21.08.76 | Milan, ITA | 01.05.03 | 3 | |
| Women | Junior | Outdoor | Heptathlon | 5,545pts | | Elizabeth Morland | | 08.03.98 | Santry | 28.05.16 | 1 | New in 2016 |