**Table 1: PSEs using four methods across 20 sites with direct estimates**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Site** | **Year** |  | **Capture Re-Capture** | | | | | |  | **Service Multiplier Method** | | | | |  | **Unique Object Multiplier Method** | | | | |  | **Census** |  | **Median Site PSE** |
|  |  |  | **C1** | **C2** | **C3** | **PSE** | **95% CI** | |  | **M** | **P** | **PSE** | **95% CI** | |  | **M** | **P** | **PSE** | **95% CI** | |  | **PSE** |  |  |
| 1 | 2017 |  |  |  |  |  |  |  |  | 2948 | 0.229 | **12863** | 10657 | 15068 |  |  |  |  |  |  |  |  |  | **12863** |
| 2 | 2017 |  |  |  |  |  |  |  |  | 1456 | 0.256 | **5687** | 4505 | 6870 |  | 1000 | 0.121 | **8264** | 5301 | 11227 |  |  |  | **6976** |
| 3 | 2015 |  |  |  |  |  |  |  |  | 601 | 0.497 | **1210** | 1010 | 1410 |  |  |  |  |  |  |  |  |  | **1210** |
| 4 | 2016 |  | 175 | 81 | 94 | **649** | 515 | 880 |  | 818 | 0.611 | **1339** | 1112 | 1565 |  | 175 | 0.233 | **753** | 535 | 1271 |  |  |  | **753** |
| 5 | 2016 |  | 105 | 124 | 106 | **362** | 301 | 453 |  | 489 | 0.678 | **722** | 604 | 839 |  | 138 | 0.204 | **677** | 455 | 1323 |  |  |  | **677** |
| 6 | 2016 |  | 161 | 126 | 127 | **371** | 317 | 448 |  | 477 | 0.780 | **611** | 529 | 694 |  | 164 | 0.266 | **617** | 463 | 922 |  |  |  | **611** |
| 7 | 2016 |  | 115 | 129 | 88 | **209** | 179 | 251 |  | 211 | 0.425 | **496** | 361 | 631 |  | 116 | 0.234 | **495** | 371 | 743 |  |  |  | **495** |
| 8 | 2016 |  | 152 | 137 | 106 | **294** | 254 | 350 |  | 325 | 0.562 | **578** | 466 | 690 |  | 157 | 0.341 | **461** | 350 | 673 |  |  |  | **461** |
| 9 | 2015 |  |  |  |  |  |  |  |  | 226 | 0.527 | **429** | 337 | 522 |  |  |  |  |  |  |  |  |  | **429** |
| 10 | 2016 |  | 153 | 150 | 165 | **339** | 296 | 398 |  | 301 | 0.711 | **424** | 346 | 501 |  | 152 | 0.343 | **443** | 334 | 656 |  |  |  | **424** |
| 11 | 2017 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 120 | 0.176 | **684** | 349 | 1018 |  | **132** |  | **408** |
| 12 | 2016 |  | 161 | 110 | 177 | **345** | 298 | 409 |  | 343 | 0.623 | **550** | 451 | 650 |  | 161 | 0.399 | **403** | 315 | 561 |  |  |  | **403** |
| 13 | 2016 |  | 106 | 123 | 119 | **313** | 263 | 385 |  | 309 | 0.515 | **600** | 457 | 743 |  | 106 | 0.271 | **391** | 283 | 632 |  |  |  | **391** |
| 14 | 2016 |  | 129 | 121 | 101 | **338** | 284 | 416 |  | 268 | 0.666 | **402** | 337 | 467 |  | 129 | 0.333 | **387** | 303 | 535 |  |  |  | **387** |
| 15 | 2016 |  | 112 | 121 | 105 | **204** | 175 | 243 |  | 532 | 0.798 | **667** | 583 | 750 |  | 112 | 0.293 | **382** | 277 | 614 |  |  |  | **382** |
| 16 | 2016 |  | 164 | 128 | 110 | **339** | 290 | 408 |  | 288 | 0.484 | **595** | 450 | 740 |  | 166 | 0.454 | **366** | 293 | 486 |  |  |  | **366** |
| 17 | 2016 |  | 123 | 108 | 106 | **173** | 151 | 205 |  | 284 | 0.821 | **346** | 291 | 401 |  | 123 | 0.410 | **300** | 226 | 445 |  |  |  | **300** |
| 18 | 2016 |  | 142 | 101 | 137 | **257** | 222 | 306 |  | 354 | 0.642 | **552** | 448 | 656 |  | 142 | 0.475 | **299** | 245 | 383 |  |  |  | **299** |
| 19 | 2016 |  | 138 | 120 | 187 | **277** | 242 | 325 |  | 381 | 0.788 | **483** | 419 | 548 |  | 138 | 0.501 | **276** | 226 | 348 |  |  |  | **277** |
| 20 | 2017 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **180** |  | **180** |

*C1 refers to the first capture in a capture-recapture exercise and C2 to the second capture. M is the number of women recorded in the programme attendance records during the reference period for the SMM and for the UOMM it is the number of wristbands distributed. For the SMM, P represents the RDS-II weighted proportion of FSW who reported attending the Sisters clinic in the reference period and for the UOMM it represents the RDS-II weighted proportion of women who reported receiving a wristband in the survey*