



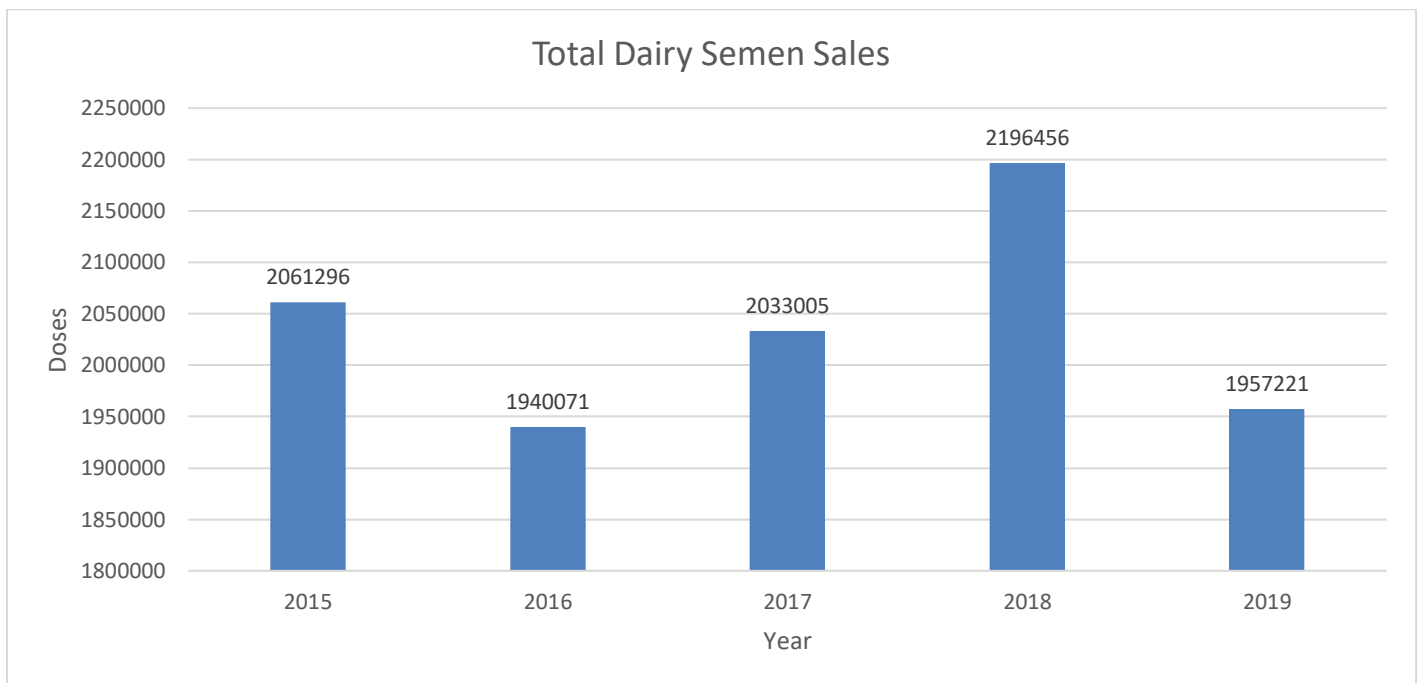
Semen Market Survey 2019 Results

Survey Participants:

Dairy: ABS Australia | Agrigene | Alta Genetics | Genetics Australia | LIC/CRV | Semex | ST Genetics Australia | Total Livestock Genetics | Viking Genetics | World Wide Sires

Beef: ABS Australia | Agrigene | Alta Genetics | Genetics Australia | LIC | Semex | ST Genetics Australia | Total Livestock Genetics | World Wide Sires

Total Dairy Semen Sales Domestic & Export



Information Supplied by:

National Herd Improvement Association of Australia Inc. Tel: 1300 844 220 Email: sara@nhia.org.au

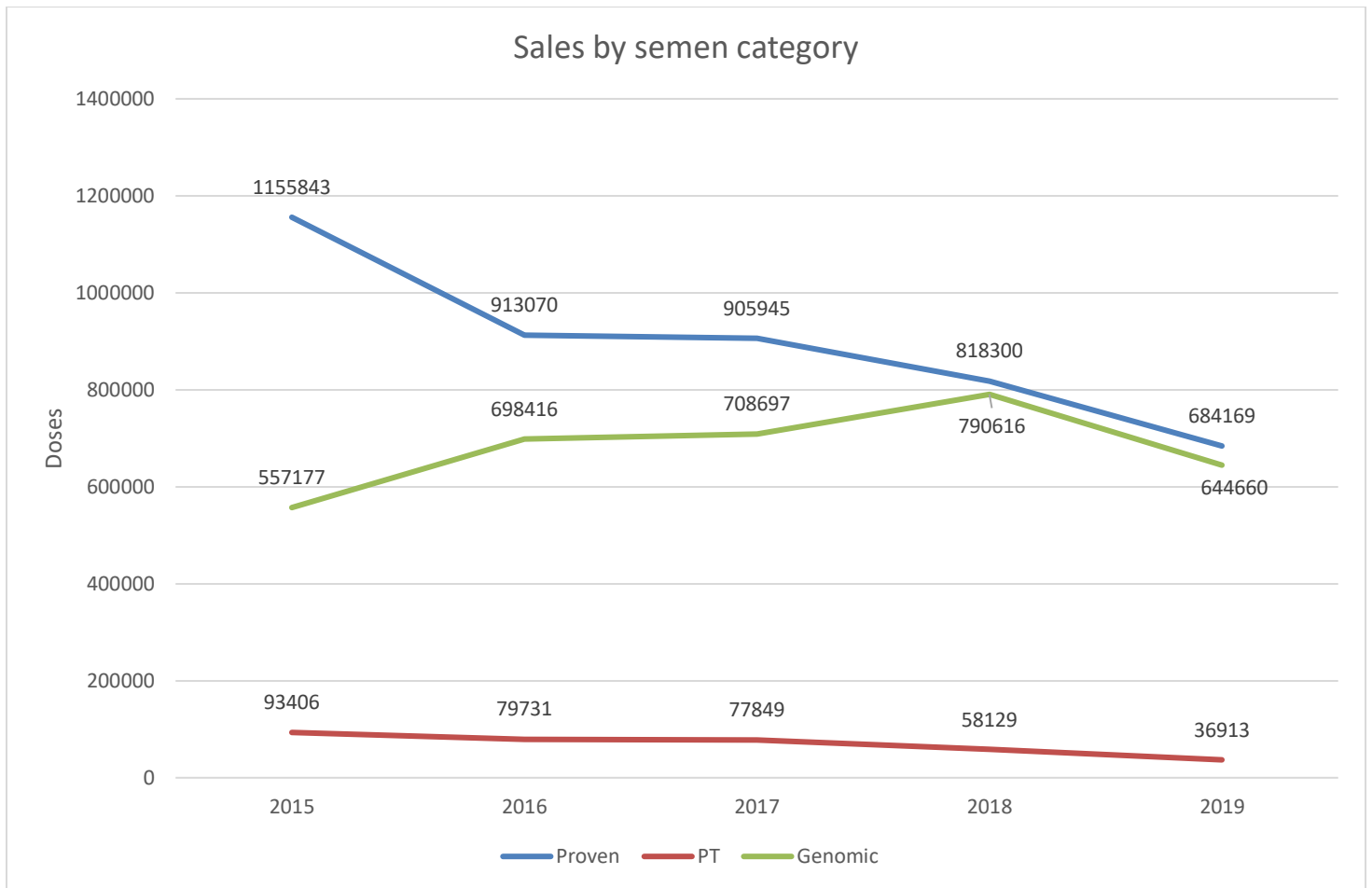
Dairy Semen Sales by Breed – Year on Year Comparison

| Dairy Sales by Breed | | | | | |
|----------------------|----------------|----------------|----------------|----------------|----------------|
| | 2015 | 2016 | 2017 | 2018 | 2019 |
| Holstein | 1597106 | 1516992 | 1609595 | 1733733 | 1521883 |
| Jersey | 327186 | 270795 | 281648 | 301945 | 287231 |
| Illawarra | 12281 | 14540 | 11216 | 16845 | 10841 |
| Brown Swiss | 15351 | 12545 | 11832 | 11481 | 8982 |
| ARB | 55180 | 48210 | 58512 | 67151 | 65797 |
| Montbeliarde | 2563 | 2736 | 1972 | 1770 | 2061 |
| Ayrshire | 9193 | 13671 | 8427 | 7251 | 6647 |
| Guernsey | 4374 | 6043 | 3707 | 5012 | 4781 |
| Kiwi Friesian | 34577 | 48475 | 41375 | 43278 | 43207 |
| Other | 3485 | 6091 | 4721 | 7990 | 5791 |
| Total | 2061296 | 1940098 | 2033005 | 2196456 | 1957221 |

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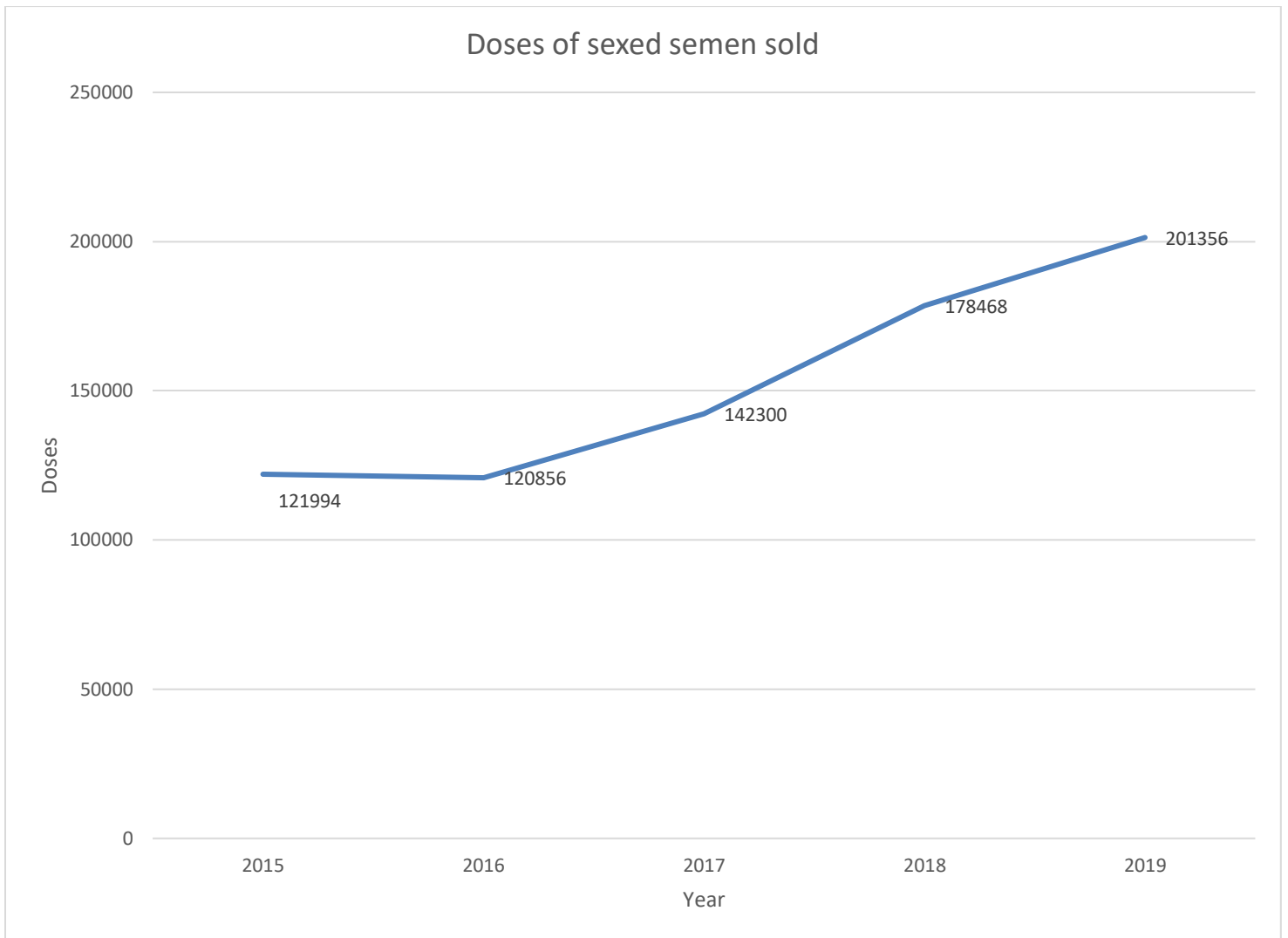
Dairy Semen Sales by Category



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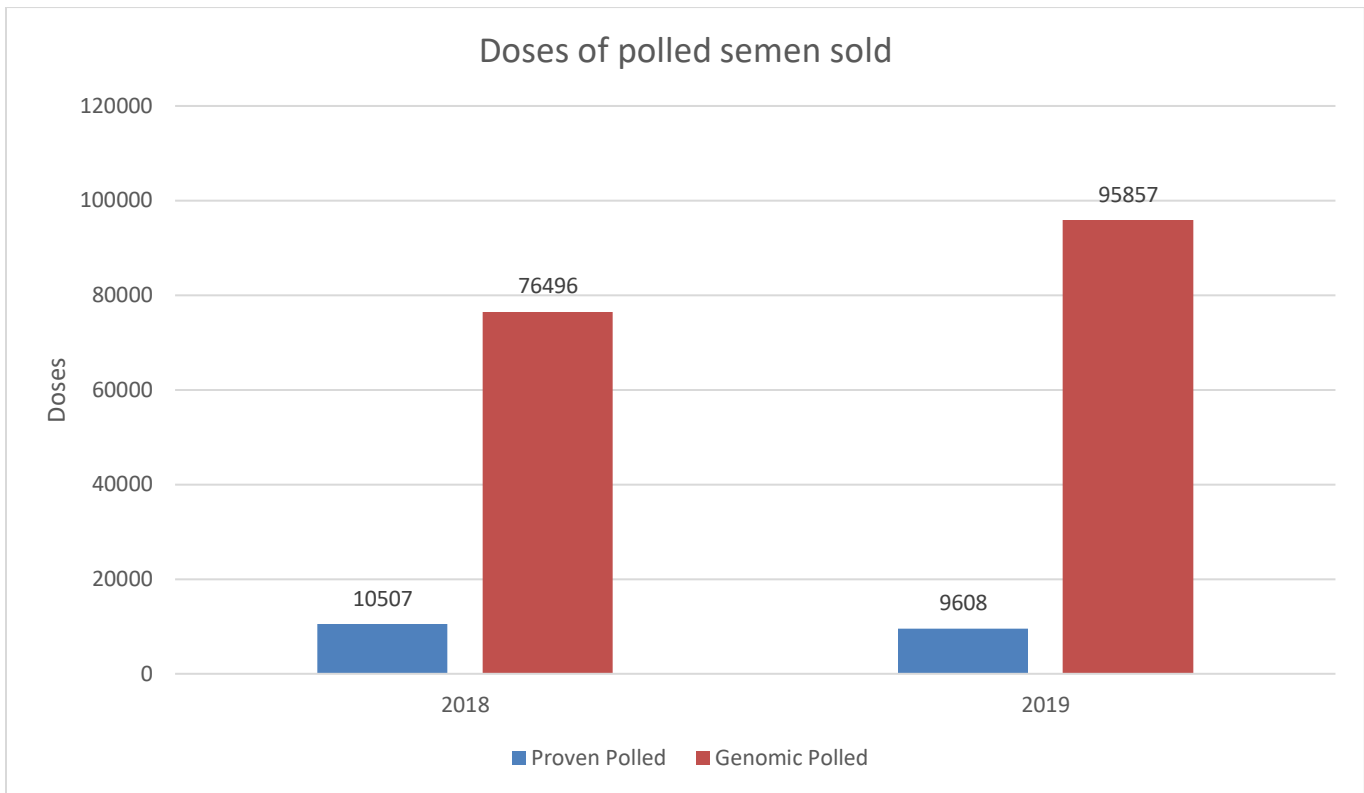
Doses of Sexed Semen Sold (Genmoic | Proven | Fresh | Frozen)



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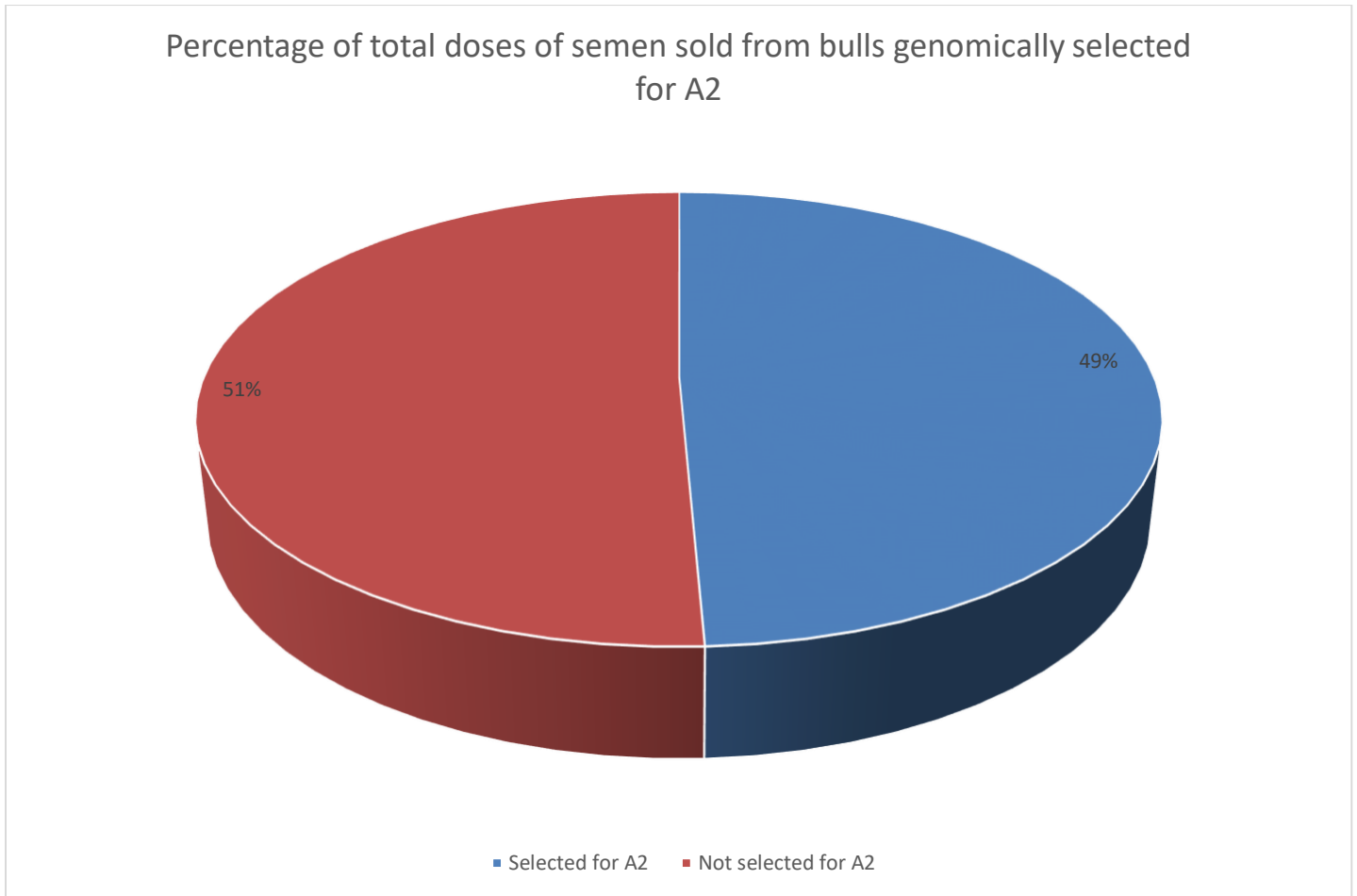
Doses of polled semen sold



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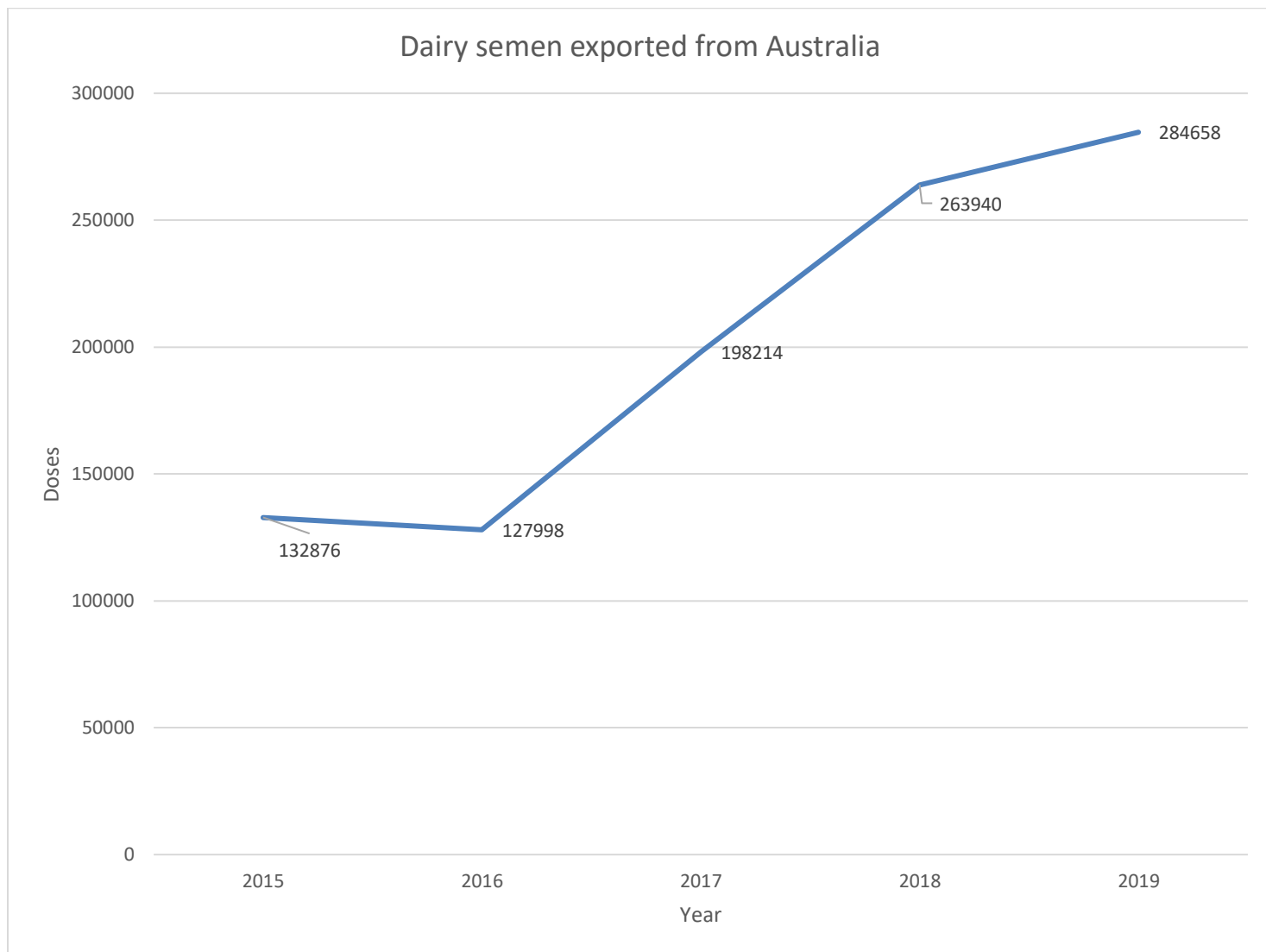
Percentage of total doses of semen sold from bulls genomically selected for A2



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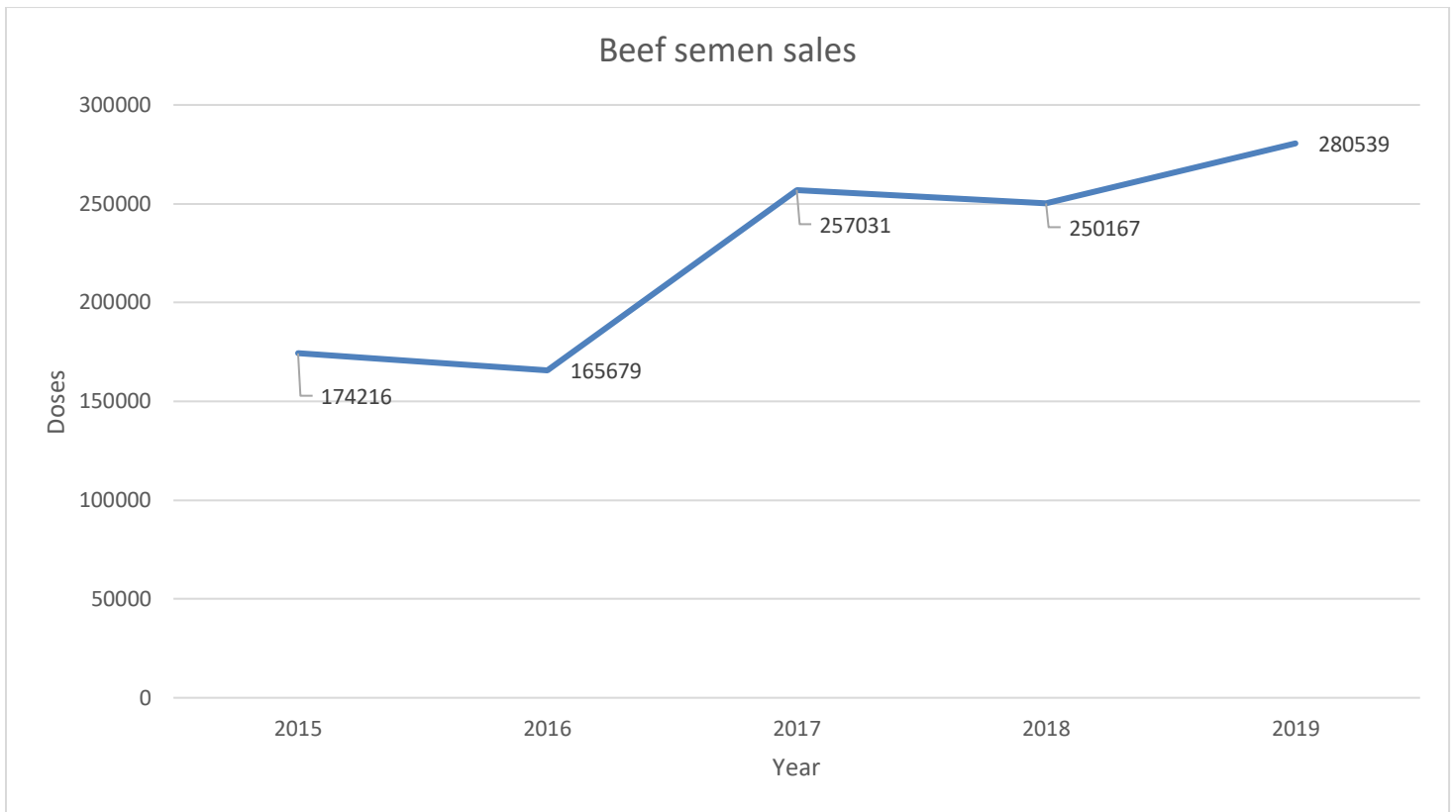
Dairy Semen Exported from Australia



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Beef Semen Sales Dometic & Export



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