

# Report 4: McLeod Exploration

A casual report

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## Cleaning

There are only two cases where the Date wasn't in a 'clean' format, shown below. These were left as is and not included in the analysis.

country	DATE	NOTES
New_Zealand	4 February 1890 [probably wrong date]	mentions divorce / possibly wrong date on Papers Past - see 2 April 1890
New_Zealand	4 February 1890 [possibly wrong date]	possibly wrong date on Papers Past - see 2 April 1890

## Papers

There are 154 seemingly distinct newspapers that have reported on the McLeod case. The following table lists the top 10 out, in decreasing order of frequency (The full list was printed in the preliminary report sent previously). I fixed some specific typos to aggregate duplicates(Wiapawa -> Waipawa, Coat -> Coast, added 'Advertiser' on 'The Maitland Mercury and Hunter River General' that had it missing, Ballart -> Ballarat, etc). You can review these and ensure that there aren't more 'duplicates' (see preliminary report).

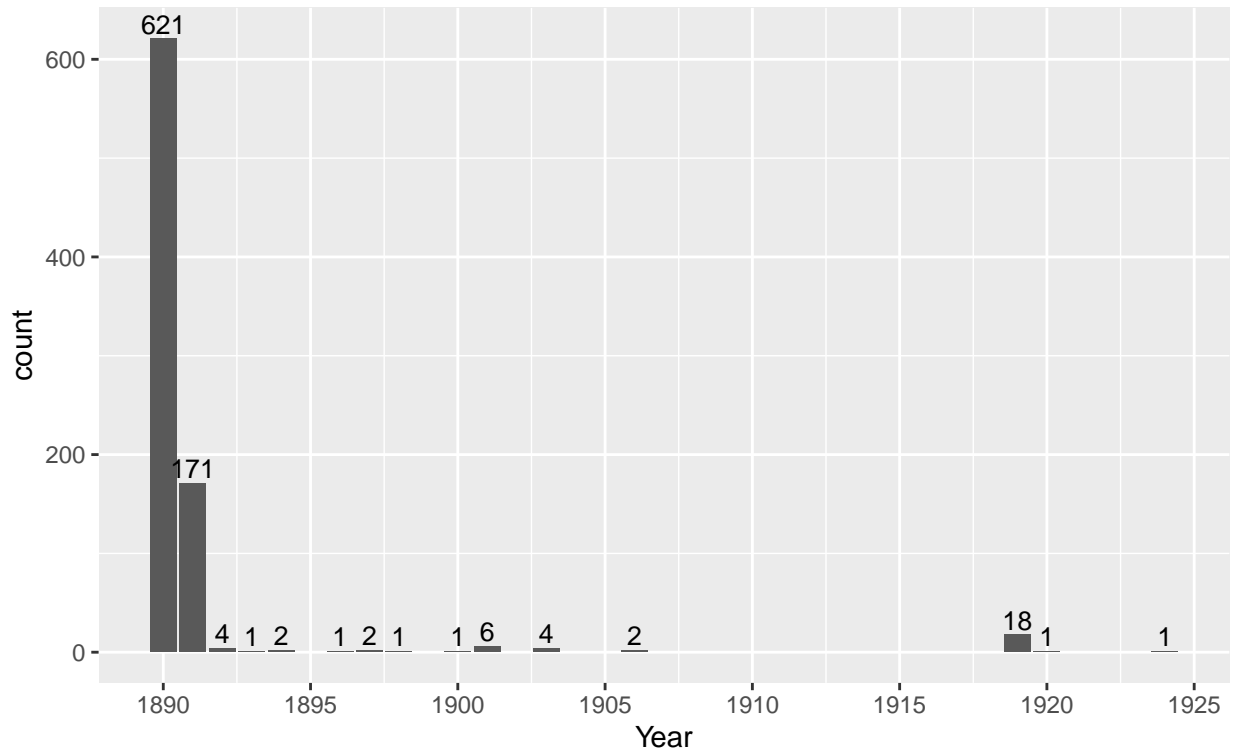
	Var1	Freq
1	The Sydney Morning Herald	39
2	The Australian Star	28
3	The Daily Telegraph	27
4	Evening News	22
5	Clarence and Richmond Examiner	21
6	New Zealand Herald	20
7	Evening Post	18
8	Hawke's Bay Herald	17
9	Evening Star	16
10	Northern Star	15

## Counts

### Per Year

The following plot shows the count of articles per year. We easily see that the most is in 1890, with 621 counts, then 1891 with 171. Then there are years where only 1 or 2 articles appear, and a gap where there are none up until 1919 where there are 18.

Count of McLeod Case Mentions by Year  
Across Australia and New Zealand



## Calendar

Next we have a calendar graphic, showing the days on which the case was reported. Gray days have no cases, the lightest pink have 1, and the darkest cell have over 25. We see that the majority of cases from March to July 1890, then there is a cluster of mentions in the months of November 1890 to March 1891, then some clusters in August 1891-October 1891. The four 1892 articles occur in February, May, and October, so are not part of the end of year 1891 cluster.

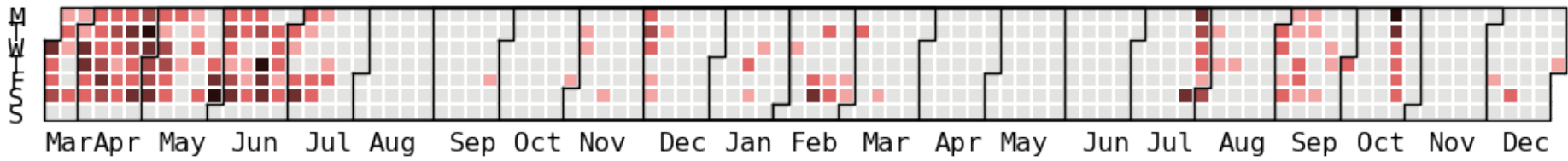
We see that New Zealand papers reported on the case two days before Australian papers did, at least in the digital record. We see that there are no mention past October 1891 in New Zealand, but there are more mentions in March and early April than in Australia. The mentions from December 1890 to February 1891 are also more sparse than in Australia.

Interestingly, all the articles from 1919 originate from New Zealand. We see that they only appear in May and July of that year.

## All Newspapers

1890

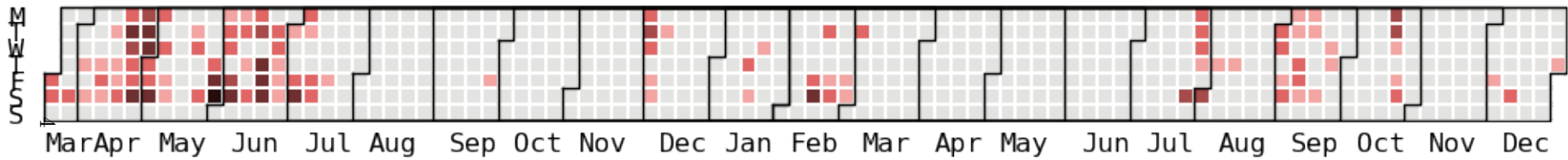
1891



## Australian Newspapers

1890

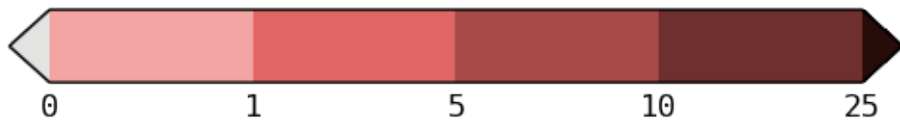
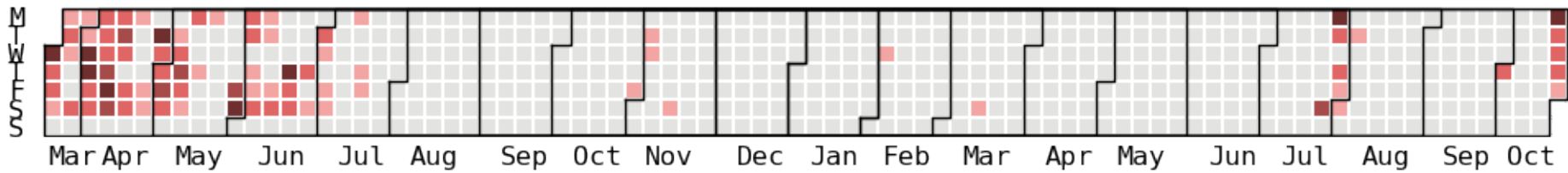
1891



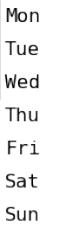
## New Zealand Newspapers

1890

1891



## 1919



The top 10 days with the highest number of mentions are shown in the following table.

	Var1	Freq
1	1890-04-29	43
2	1890-05-31	42
3	1890-06-19	35
4	1891-10-19	31
5	1890-04-26	25
6	1890-04-03	24
7	1890-05-30	23
8	1890-06-07	20
9	1891-07-27	19
10	1890-04-02	18

## Tone

### All

There are 835 cases out of 836 that report a tone; approximately 99.9%. The following table shows the count and percentage of times a certain word is used to describe an article. They are not mutually exclusive.

	Count	Percentage
factual	727	87%
scoundrel	99	11.8%
critical	26	3.1%
sensational	25	3%
satirical	15	1.8%
detailed	14	1.7%
neutral	14	1.7%
ironic	12	1.4%
narrational	12	1.4%
tongue-in-cheek	12	1.4%
inquisitive	10	1.2%
opinionated	9	1.1%
argumentative	8	1%
impressed	8	1%
thorough	7	0.8%
sympathetic	5	0.6%
investigative	4	0.5%
cynical	2	0.2%
curious	1	0.1%
defensive	1	0.1%
humorous	1	0.1%
offended	1	0.1%
sensationalist	1	0.1%
surprised	1	0.1%

The next table shows the top 10 whole descriptors (mutually exclusive). We see that most often, the tone is **only** ‘factual’, but next most common is ‘factual’ and ‘scoundrel’ pairings.

	Count	Percentage
factual	641	76.8%
factual, scoundrel	39	4.7%
scoundrel, factual	15	1.8%
scoundrel	14	1.7%
neutral	12	1.4%
satirical	8	1%
sensational, narrational, ironic, scoundrel	8	1%
factual, detailed	5	0.6%
factual, impressed with M'Leod, scoundrel	5	0.6%
argumentative	4	0.5%

## By Country

The following table is the result in Australian papers ( $n = 477$ ): 83.4% of Australian articles have a ‘factual’ tone.

	Count	Percentage
factual	398	83.4%
scoundrel	63	13.2%
critical	25	5.2%
sensational	14	2.9%
neutral	12	2.5%
detailed	11	2.3%
satirical	11	2.3%
inquisitive	10	2.1%
tongue-in-cheek	10	2.1%
opinionated	9	1.9%
argumentative	8	1.7%
thorough	7	1.5%
ironic	4	0.8%
sympathetic	4	0.8%
investigative	2	0.4%
narrational	2	0.4%
defensive	1	0.2%
offended	1	0.2%
sensationalist	1	0.2%

The top ten mutually exclusive list for Australia is as follows:

	Count	Percentage
factual	336	70.4%
factual, scoundrel	27	5.7%
scoundrel, factual	15	3.1%
neutral	10	2.1%
scoundrel	9	1.9%
satirical	5	1%
argumentative	4	0.8%
sensational	4	0.8%
critical	3	0.6%

	Count	Percentage
critical, inquisitive	3	0.6%

For New Zealand ( $n = 359$ ), 91.7% have a ‘factual’ tone, a higher percentage than Australia.

	Count	Percentage
factual	329	91.6%
scoundrel	36	10%
sensational	11	3.1%
narrational	10	2.8%
impressed	8	2.2%
ironic	8	2.2%
satirical	4	1.1%
detailed	3	0.8%
cynical	2	0.6%
investigative	2	0.6%
neutral	2	0.6%
tongue-in-cheek	2	0.6%
critical	1	0.3%
curious	1	0.3%
humorous	1	0.3%
surprised	1	0.3%
sympathetic	1	0.3%

The top ten mutually exclusive list for New Zealand is as follows:

	Count	Percentage
factual	305	85.2%
factual, scoundrel	12	3.4%
sensational, narrational, ironic, scoundrel	8	2.2%
factual, impressed with M’Leod, scoundrel	5	1.4%
scoundrel	5	1.4%
satirical	3	0.8%
factual, detailed	2	0.6%
factual, impressed with M’Leod	2	0.6%
neutral	2	0.6%
scoundrel, narrational	2	0.6%

## By Time Period

I will crudely split the time periods by ‘grouping’ I saw in the previous calendar plots, and the first few months by smaller periods since they contain more articles: March 1890 , April 1890 , May 1890, June 1890, July 1890 (end of first wave), September 1890- March 1891 (second wave), July 1891-December 1891 (third wave), January 1892-December 1918 (in between), and January 1919-onwards (last peak).

We see in the next tables that overall, the percentage of articles with a ‘factual’ tone in the time periods is not exactly constant, but is mostly in the 80%s, and past 1891, in the 90%s.

The vast majority of ‘scoundrel’ tones occur in the first wave (March - July 1890), with other four counts outside of that wave, two of which are in the second wave, and the last two in the third wave. There are no mention of ‘scoundrel’ in the tone past 1891.



Conversely, it seems like most ‘critical’ tones occur a bit later. Only 7 occur in the first wave, 2 in the second, 15 in the third, and 2 past 1891.

Most ‘sensational’ tones occur in April 1890 (19; first wave).

March 1890: (n = 37)

	Count	Percentage
factual	30	81.1%
satirical	4	10.8%
scoundrel	3	8.1%
curious	1	2.7%
impressed	1	2.7%
ironic	1	2.7%
narrational	1	2.7%
sensational	1	2.7%
surprised	1	2.7%
sympathetic	1	2.7%

April 1890: (n = 221)

	Count	Percentage
factual	194	87.8%
scoundrel	34	15.4%
sensational	19	8.6%
narrational	10	4.5%
ironic	8	3.6%
impressed	7	3.2%
neutral	3	1.4%
inquisitive	2	0.9%
investigative	2	0.9%
critical	1	0.5%
cynical	1	0.5%
detailed	1	0.5%
humorous	1	0.5%
opinionated	1	0.5%
sensationalist	1	0.5%
sympathetic	1	0.5%
thorough	1	0.5%
tongue-in-cheek	1	0.5%

May 1890: (n = 114)

	Count	Percentage
factual	99	86.8%
scoundrel	32	28.1%
detailed	5	4.4%
sensational	4	3.5%
investigative	2	1.8%
ironic	1	0.9%
narrational	1	0.9%

	Count	Percentage
satirical	1	0.9%

June 1890: (n = 190)

	Count	Percentage
factual	169	88.9%
scoundrel	18	9.5%
neutral	10	5.3%
tongue-in-cheek	7	3.7%
detailed	3	1.6%
critical	2	1.1%
ironic	2	1.1%
opinionated	2	1.1%
satirical	2	1.1%
inquisitive	1	0.5%

July 1890: (n = 39)

	Count	Percentage
factual	33	84.6%
scoundrel	8	20.5%
critical	4	10.3%
opinionated	4	10.3%
detailed	2	5.1%
cynical	1	2.6%
inquisitive	1	2.6%
satirical	1	2.6%
sympathetic	1	2.6%
tongue-in-cheek	1	2.6%

September 1890- March 1891 (second wave): (n = 51)

	Count	Percentage
factual	47	92.2%
critical	2	3.9%
detailed	2	3.9%
inquisitive	2	3.9%
scoundrel	2	3.9%
neutral	1	2%
thorough	1	2%

July 1891-December 1891 (third wave): (n = 139)

	Count	Percentage
factual	112	80.6%
critical	15	10.8%

	Count	Percentage
argumentative	7	5%
satirical	5	3.6%
thorough	5	3.6%
inquisitive	4	2.9%
tongue-in-cheek	3	2.2%
opinionated	2	1.4%
scoundrel	2	1.4%
sympathetic	2	1.4%
defensive	1	0.7%
detailed	1	0.7%
offended	1	0.7%
sensational	1	0.7%

January 1892-December 1918 (between waves): (n = 25)

	Count	Percentage
factual	24	96%
argumentative	1	4%
critical	1	4%
satirical	1	4%

January 1919-onwards (last peak): (n = 20)

	Count	Percentage
factual	19	95%
critical	1	5%
satirical	1	5%

## Offense

### All

There are 834 cases out of 836 that report an offense; approximately 99.8%. The following table shows the count and percentage of times a certain offense occurs in an article. They are not mutually exclusive. It shows that bigamy is a recorded offense 93% of the time.

	Count	Percentage
bigamy	780	93.3%
criminal assault	99	11.8%
attempted rape (bigamy not mentioned)	31	3.7%
assault	24	2.9%
indecent assault	22	2.6%
rape	21	2.5%
attempted rape	17	2%
adultery	16	1.9%
ill-treatment	16	1.9%

	Count	Percentage
cruelty	14	1.7%
fraud	12	1.4%
domestic abuse	11	1.3%
deceit	10	1.2%
attempted criminal assault (bigamy not mentioned)	5	0.6%
ill-treatment (implied)	5	0.6%
attempted rape (implied)	4	0.5%
criminal assault with intent to rape	3	0.4%
domestic violence (implied)	3	0.4%
assault with intent to commit a serious offence	2	0.2%
attempted criminal assault	2	0.2%
attempted indecent assault	2	0.2%
bigamy not mentioned	2	0.2%
criminal assault (bigamy not mentioned)	2	0.2%
domestic abuse (implied)	2	0.2%
misconduct at sea	2	0.2%
rape (implied)	2	0.2%
(against Mary Manson:) desertion	1	0.1%
(divorce on ground of cruelty and adultery)	1	0.1%
assault “with intent”	1	0.1%
assault (implied)	1	0.1%
attempt to commit a serious offence	1	0.1%
deception	1	0.1%
divorce	1	0.1%
ill-treatment (of second wife)	1	0.1%
not mentioned	1	0.1%
practice without medical license	1	0.1%
various charges	1	0.1%

The next table shows the whole descriptors as is in the data (mutually exclusive). It shows that for 64% of the time, the **only** offense recorded is ‘bigamy’, and for 9.4% of the time, it is bigamy and criminal assault.

	Count	Percentage
bigamy	535	64%
bigamy, criminal assault	79	9.4%
attempted rape (bigamy not mentioned)	31	3.7%
bigamy, assault	21	2.5%
bigamy, indecent assault	21	2.5%
bigamy, rape	19	2.3%
bigamy, attempted rape	16	1.9%
bigamy, ill-treatment	12	1.4%
criminal assault	8	1%
bigamy, fraud, deceit	7	0.8%
attempted criminal assault (bigamy not mentioned)	5	0.6%
bigamy, adultery, cruelty	5	0.6%
bigamy, ill-treatment (implied)	5	0.6%
adultery, adultery with bigamy, cruelty	3	0.4%
bigamy, attempted rape (implied)	3	0.4%
bigamy, criminal assault, domestic abuse	3	0.4%
bigamy, cruelty, adultery	3	0.4%
bigamy, deceit, fraud	3	0.4%

	Count	Percentage
bigamy, domestic abuse	3	0.4%
bigamy, domestic abuse, assault	3	0.4%
attempted indecent assault	2	0.2%
bigamy, assault ‘with intent to commit a serious offence’	2	0.2%
bigamy, attempted criminal assault	2	0.2%
bigamy, criminal assault with intent to rape	2	0.2%
bigamy, criminal assault, ill-treatment	2	0.2%
bigamy, cruelty	2	0.2%
bigamy, domestic abuse (implied)	2	0.2%
bigamy, domestic abuse, criminal assault	2	0.2%
bigamy, domestic violence (implied)	2	0.2%
bigamy, misconduct at sea	2	0.2%
criminal assault, bigamy not mentioned	2	0.2%
attempted rape (implied), bigamy	1	0.1%
bigamy,	1	0.1%
bigamy, ‘attempt to commit a serious offence’	1	0.1%
bigamy, ‘various charges’	1	0.1%
bigamy, (against Mary Manson:) desertion	1	0.1%
bigamy, (divorce on ground of cruelty and adultery)	1	0.1%
bigamy, adultery	1	0.1%
bigamy, assault “with intent”	1	0.1%
bigamy, assault (implied)	1	0.1%
bigamy, criminal assault, deception	1	0.1%
bigamy, domestic violence (implied), criminal assault	1	0.1%
bigamy, fraud	1	0.1%
bigamy, ill-treatment (of second wife)	1	0.1%
bigamy, ill-treatment, fraud	1	0.1%
bigamy, practice without medical license	1	0.1%
bigamy, rape (implied)	1	0.1%
criminal assault (bigamy not mentioned)	1	0.1%
criminal assault (bigamy not mentioned), attempted rape	1	0.1%
criminal assault with intent to rape	1	0.1%
cruelty, adultery, bigamy	1	0.1%
divorce	1	0.1%
ill-treatment, bigamy	1	0.1%
indecent assault	1	0.1%
not mentioned	1	0.1%
rape (implied), bigamy	1	0.1%
rape and bigamy, ‘criminal assault’	1	0.1%
rape, bigamy	1	0.1%

## No Bigamy mentioned

The following table shows the offences where no bigamy was mentioned. These account for a total of 54 cases, or 6.5%. (The sum of the percentages in the table doesn’t add to the same because they are rounded to 1 decimal place). 51 of these cases occur in April 1980, and 3 in May 1980.

	Count	Percentage
attempted rape (bigamy not mentioned)	31	3.7%
criminal assault	8	1%

	Count	Percentage
attempted criminal assault (bigamy not mentioned)	5	0.6%
attempted indecent assault	2	0.2%
criminal assault, bigamy not mentioned	2	0.2%
criminal assault (bigamy not mentioned)	1	0.1%
criminal assault (bigamy not mentioned), attempted rape	1	0.1%
criminal assault with intent to rape	1	0.1%
divorce	1	0.1%
indecent assault	1	0.1%
not mentioned	1	0.1%

## By Country

For Australia, 98.7% of offense contain ‘bigamy’ as shown in the following table.

	Count	Percentage
bigamy	471	98.7%
criminal assault	45	9.4%
indecent assault	19	4%
rape	18	3.8%
adultery	16	3.4%
ill-treatment	16	3.4%
cruelty	14	2.9%
assault	12	2.5%
fraud	9	1.9%
deceit	7	1.5%
attempted rape	5	1%
ill-treatment (implied)	5	1%
domestic violence (implied)	3	0.6%
assault with intent to commit a serious offence	2	0.4%
attempted criminal assault	2	0.4%
criminal assault with intent to rape	2	0.4%
(against Mary Manson:) desertion	1	0.2%
(divorce on ground of cruelty and adultery)	1	0.2%
assault “with intent”	1	0.2%
attempt to commit a serious offence	1	0.2%
attempted rape (implied)	1	0.2%
divorce	1	0.2%
domestic abuse	1	0.2%
not mentioned	1	0.2%
rape (implied)	1	0.2%
various charges	1	0.2%

For New Zealand, the proportion is smaller, at 86.1%, as shown in the following table. There are more cases of ‘attempted rape’ offenses and less of ‘rape’ offense in New Zealand papers than in Australian papers.

	Count	Percentage
bigamy	309	86.1%
criminal assault	54	15%
attempted rape (bigamy not mentioned)	31	8.6%

	Count	Percentage
assault	12	3.3%
attempted rape	12	3.3%
domestic abuse	10	2.8%
attempted criminal assault (bigamy not mentioned)	5	1.4%
attempted rape (implied)	3	0.8%
deceit	3	0.8%
fraud	3	0.8%
indecent assault	3	0.8%
rape	3	0.8%
attempted indecent assault	2	0.6%
bigamy not mentioned	2	0.6%
criminal assault (bigamy not mentioned)	2	0.6%
domestic abuse (implied)	2	0.6%
misconduct at sea	2	0.6%
assault (implied)	1	0.3%
criminal assault with intent to rape	1	0.3%
deception	1	0.3%
ill-treatment (of second wife)	1	0.3%
practice without medical license	1	0.3%
rape (implied)	1	0.3%

## By Time Period

With the same time periods by ‘grouping’ as above: March 1890 , April 1890 , May 1890, June 1890, July 1890 (end of first wave), September 1890- March 1891 (second wave), July 1891-December 1891 (third wave), January 1892-December 1918 (in between), and January 1919-onwards (last peak).

We see that for most time periods, ‘bigamy’ is 100% of the time (or near) in the offense, apart from in April 1980, when it is only 76.9%.

March 1890: (n = 37)

	Count	Percentage
bigamy	37	100%
criminal assault	6	16.2%
attempted rape (implied)	1	2.7%
rape (implied)	1	2.7%

April 1890: (n = 221)

	Count	Percentage
bigamy	170	76.9%
criminal assault	52	23.5%
attempted rape (bigamy not mentioned)	31	14%
rape	21	9.5%
assault	17	7.7%
indecent assault	15	6.8%
attempted rape	9	4.1%
attempted criminal assault (bigamy not mentioned)	5	2.3%
attempted rape (implied)	3	1.4%

	Count	Percentage
ill-treatment	3	1.4%
assault with intent to commit a serious offence	2	0.9%
attempted criminal assault	2	0.9%
attempted indecent assault	2	0.9%
bigamy not mentioned	2	0.9%
criminal assault (bigamy not mentioned)	2	0.9%
assault (implied)	1	0.5%
attempt to commit a serious offence	1	0.5%
domestic abuse	1	0.5%
domestic violence (implied)	1	0.5%
not mentioned	1	0.5%
rape (implied)	1	0.5%

May 1890: (n = 114)

	Count	Percentage
bigamy	111	97.4%
criminal assault	40	35.1%
domestic abuse	10	8.8%
adultery	8	7%
ill-treatment	8	7%
assault	7	6.1%
cruelty	5	4.4%
indecent assault	5	4.4%
attempted rape	3	2.6%
criminal assault with intent to rape	3	2.6%
domestic violence (implied)	2	1.8%
(against Mary Manson:) desertion	1	0.9%
assault “with intent”	1	0.9%
deception	1	0.9%
divorce	1	0.9%
ill-treatment (implied)	1	0.9%

June 1890: (n = 190)

	Count	Percentage
bigamy	190	100%
cruelty	9	4.7%
fraud	9	4.7%
adultery	8	4.2%
deceit	7	3.7%
ill-treatment	5	2.6%
ill-treatment (implied)	3	1.6%
domestic abuse (implied)	2	1.1%
(divorce on ground of cruelty and adultery)	1	0.5%
criminal assault	1	0.5%
ill-treatment (of second wife)	1	0.5%
various charges	1	0.5%



July 1890: (n = 39)

	Count	Percentage
bigamy	39	100%
deceit	3	7.7%
fraud	3	7.7%

September 1890- March 1891 (second wave): (n = 51)

	Count	Percentage
bigamy	51	100%
ill-treatment (implied)	1	2%

July 1891-December 1891 (third wave): (n = 139)

	Count	Percentage
bigamy	138	99.3%
attempted rape	5	3.6%
indecent assault	2	1.4%

January 1892-December 1918 (between waves): (n = 25)

	Count	Percentage
bigamy	25	100%
misconduct at sea	2	8%
practice without medical license	1	4%

January 1919-onwards (last peak): (n = 20)

	Count	Percentage
bigamy	19	95%