

# Table 4 -> Table 6

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```
library(tidyverse)

## Warning: package 'tidyverse' was built under R version 3.4.3
## -- Attaching packages ----- tidyverse 1.2.1 --
## v ggplot2 2.2.1    v purrr  0.2.4
## v tibble  1.4.2    v dplyr  0.7.4
## v tidyr   0.8.0    v stringr 1.2.0
## v readr   1.1.1    v forcats 0.2.0

## Warning: package 'ggplot2' was built under R version 3.4.3
## Warning: package 'tibble' was built under R version 3.4.3
## Warning: package 'tidyr' was built under R version 3.4.3
## Warning: package 'readr' was built under R version 3.4.3
## Warning: package 'purrr' was built under R version 3.4.3
## Warning: package 'dplyr' was built under R version 3.4.3
## Warning: package 'stringr' was built under R version 3.4.2
## Warning: package 'forcats' was built under R version 3.4.3

## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()     masks stats::lag()

raw <- readRDS("rawdat.RDS")

raw

##           religion <$10k $10-20k $20-30k $30-40k $40-50k $50-75k
## 1      Agnostic      27      34      60      81      76      137
## 2      Atheist       12      27      37      52      35      70
## 3      Buddhist      27      21      30      34      33      58
## 4      Catholic     418     617     732     670     638     1116
## 5 Don<U+0092>t know/refused 15      14      15      11      10      35
## 6      Evangelical Prot 575     869    1064     982     881     1486
## 7              Hindu      1       9       7       9      11      34
## 8  Historically Black Prot 228     244     236     238     197     223
## 9      Jehovah's Witness  20      27      24      24      21      30
## 10             Jewish     19      19      25      25      30      95
## 11      Mainline Prot    289     495     619     655     651     1107
## 12             Mormon     29      40      48      51      56     112
## 13             Muslim      6       7       9      10       9      23
## 14             Orthodox   13      17      23      32      32      47
## 15      Other Christian    9       7      11      13      13      14
## 16      Other Faiths     20      33      40      46      49      63
## 17  Other World Religions  5       2       3       4       2       7
## 18      Unaffiliated    217     299     374     365     341     528
```

	\$75-100k	\$100-150k	>150k	Don't know/refused
## 1	122	109	84	96
## 2	73	59	74	76
## 3	62	39	53	54
## 4	949	792	633	1489
## 5	21	17	18	116
## 6	949	723	414	1529
## 7	47	48	54	37
## 8	131	81	78	339
## 9	15	11	6	37
## 10	69	87	151	162
## 11	939	753	634	1328
## 12	85	49	42	69
## 13	16	8	6	22
## 14	38	42	46	73
## 15	18	14	12	18
## 16	46	40	41	71
## 17	3	4	4	8
## 18	407	321	258	597

```
raw.tidy <- raw %>% gather(key = "Income", value = "frequency", -religion)
```

```
raw.tidy
```

	religion	Income	frequency
## 1	Agnostic	<\$10k	27
## 2	Atheist	<\$10k	12
## 3	Buddhist	<\$10k	27
## 4	Catholic	<\$10k	418
## 5	Don't know/refused	<\$10k	15
## 6	Evangelical Prot	<\$10k	575
## 7	Hindu	<\$10k	1
## 8	Historically Black Prot	<\$10k	228
## 9	Jehovah's Witness	<\$10k	20
## 10	Jewish	<\$10k	19
## 11	Mainline Prot	<\$10k	289
## 12	Mormon	<\$10k	29
## 13	Muslim	<\$10k	6
## 14	Orthodox	<\$10k	13
## 15	Other Christian	<\$10k	9
## 16	Other Faiths	<\$10k	20
## 17	Other World Religions	<\$10k	5
## 18	Unaffiliated	<\$10k	217
## 19	Agnostic	\$10-20k	34
## 20	Atheist	\$10-20k	27
## 21	Buddhist	\$10-20k	21
## 22	Catholic	\$10-20k	617
## 23	Don't know/refused	\$10-20k	14
## 24	Evangelical Prot	\$10-20k	869
## 25	Hindu	\$10-20k	9
## 26	Historically Black Prot	\$10-20k	244
## 27	Jehovah's Witness	\$10-20k	27
## 28	Jewish	\$10-20k	19
## 29	Mainline Prot	\$10-20k	495
## 30	Mormon	\$10-20k	40

## 31	Muslim	\$10-20k	7
## 32	Orthodox	\$10-20k	17
## 33	Other Christian	\$10-20k	7
## 34	Other Faiths	\$10-20k	33
## 35	Other World Religions	\$10-20k	2
## 36	Unaffiliated	\$10-20k	299
## 37	Agnostic	\$20-30k	60
## 38	Atheist	\$20-30k	37
## 39	Buddhist	\$20-30k	30
## 40	Catholic	\$20-30k	732
## 41	Don<U+0092>t know/refused	\$20-30k	15
## 42	Evangelical Prot	\$20-30k	1064
## 43	Hindu	\$20-30k	7
## 44	Historically Black Prot	\$20-30k	236
## 45	Jehovah's Witness	\$20-30k	24
## 46	Jewish	\$20-30k	25
## 47	Mainline Prot	\$20-30k	619
## 48	Mormon	\$20-30k	48
## 49	Muslim	\$20-30k	9
## 50	Orthodox	\$20-30k	23
## 51	Other Christian	\$20-30k	11
## 52	Other Faiths	\$20-30k	40
## 53	Other World Religions	\$20-30k	3
## 54	Unaffiliated	\$20-30k	374
## 55	Agnostic	\$30-40k	81
## 56	Atheist	\$30-40k	52
## 57	Buddhist	\$30-40k	34
## 58	Catholic	\$30-40k	670
## 59	Don<U+0092>t know/refused	\$30-40k	11
## 60	Evangelical Prot	\$30-40k	982
## 61	Hindu	\$30-40k	9
## 62	Historically Black Prot	\$30-40k	238
## 63	Jehovah's Witness	\$30-40k	24
## 64	Jewish	\$30-40k	25
## 65	Mainline Prot	\$30-40k	655
## 66	Mormon	\$30-40k	51
## 67	Muslim	\$30-40k	10
## 68	Orthodox	\$30-40k	32
## 69	Other Christian	\$30-40k	13
## 70	Other Faiths	\$30-40k	46
## 71	Other World Religions	\$30-40k	4
## 72	Unaffiliated	\$30-40k	365
## 73	Agnostic	\$40-50k	76
## 74	Atheist	\$40-50k	35
## 75	Buddhist	\$40-50k	33
## 76	Catholic	\$40-50k	638
## 77	Don<U+0092>t know/refused	\$40-50k	10
## 78	Evangelical Prot	\$40-50k	881
## 79	Hindu	\$40-50k	11
## 80	Historically Black Prot	\$40-50k	197
## 81	Jehovah's Witness	\$40-50k	21
## 82	Jewish	\$40-50k	30
## 83	Mainline Prot	\$40-50k	651
## 84	Mormon	\$40-50k	56

## 85	Muslim	\$40-50k	9
## 86	Orthodox	\$40-50k	32
## 87	Other Christian	\$40-50k	13
## 88	Other Faiths	\$40-50k	49
## 89	Other World Religions	\$40-50k	2
## 90	Unaffiliated	\$40-50k	341
## 91	Agnostic	\$50-75k	137
## 92	Atheist	\$50-75k	70
## 93	Buddhist	\$50-75k	58
## 94	Catholic	\$50-75k	1116
## 95	Don<U+0092>t know/refused	\$50-75k	35
## 96	Evangelical Prot	\$50-75k	1486
## 97	Hindu	\$50-75k	34
## 98	Historically Black Prot	\$50-75k	223
## 99	Jehovah's Witness	\$50-75k	30
## 100	Jewish	\$50-75k	95
## 101	Mainline Prot	\$50-75k	1107
## 102	Mormon	\$50-75k	112
## 103	Muslim	\$50-75k	23
## 104	Orthodox	\$50-75k	47
## 105	Other Christian	\$50-75k	14
## 106	Other Faiths	\$50-75k	63
## 107	Other World Religions	\$50-75k	7
## 108	Unaffiliated	\$50-75k	528
## 109	Agnostic	\$75-100k	122
## 110	Atheist	\$75-100k	73
## 111	Buddhist	\$75-100k	62
## 112	Catholic	\$75-100k	949
## 113	Don<U+0092>t know/refused	\$75-100k	21
## 114	Evangelical Prot	\$75-100k	949
## 115	Hindu	\$75-100k	47
## 116	Historically Black Prot	\$75-100k	131
## 117	Jehovah's Witness	\$75-100k	15
## 118	Jewish	\$75-100k	69
## 119	Mainline Prot	\$75-100k	939
## 120	Mormon	\$75-100k	85
## 121	Muslim	\$75-100k	16
## 122	Orthodox	\$75-100k	38
## 123	Other Christian	\$75-100k	18
## 124	Other Faiths	\$75-100k	46
## 125	Other World Religions	\$75-100k	3
## 126	Unaffiliated	\$75-100k	407
## 127	Agnostic	\$100-150k	109
## 128	Atheist	\$100-150k	59
## 129	Buddhist	\$100-150k	39
## 130	Catholic	\$100-150k	792
## 131	Don<U+0092>t know/refused	\$100-150k	17
## 132	Evangelical Prot	\$100-150k	723
## 133	Hindu	\$100-150k	48
## 134	Historically Black Prot	\$100-150k	81
## 135	Jehovah's Witness	\$100-150k	11
## 136	Jewish	\$100-150k	87
## 137	Mainline Prot	\$100-150k	753
## 138	Mormon	\$100-150k	49

## 139	Muslim	\$100-150k	8
## 140	Orthodox	\$100-150k	42
## 141	Other Christian	\$100-150k	14
## 142	Other Faiths	\$100-150k	40
## 143	Other World Religions	\$100-150k	4
## 144	Unaffiliated	\$100-150k	321
## 145	Agnostic	>150k	84
## 146	Atheist	>150k	74
## 147	Buddhist	>150k	53
## 148	Catholic	>150k	633
## 149	Don<U+0092>t know/refused	>150k	18
## 150	Evangelical Prot	>150k	414
## 151	Hindu	>150k	54
## 152	Historically Black Prot	>150k	78
## 153	Jehovah's Witness	>150k	6
## 154	Jewish	>150k	151
## 155	Mainline Prot	>150k	634
## 156	Mormon	>150k	42
## 157	Muslim	>150k	6
## 158	Orthodox	>150k	46
## 159	Other Christian	>150k	12
## 160	Other Faiths	>150k	41
## 161	Other World Religions	>150k	4
## 162	Unaffiliated	>150k	258
## 163	Agnostic Don't know/refused		96
## 164	Atheist Don't know/refused		76
## 165	Buddhist Don't know/refused		54
## 166	Catholic Don't know/refused		1489
## 167	Don<U+0092>t know/refused Don't know/refused		116
## 168	Evangelical Prot Don't know/refused		1529
## 169	Hindu Don't know/refused		37
## 170	Historically Black Prot Don't know/refused		339
## 171	Jehovah's Witness Don't know/refused		37
## 172	Jewish Don't know/refused		162
## 173	Mainline Prot Don't know/refused		1328
## 174	Mormon Don't know/refused		69
## 175	Muslim Don't know/refused		22
## 176	Orthodox Don't know/refused		73
## 177	Other Christian Don't know/refused		18
## 178	Other Faiths Don't know/refused		71
## 179	Other World Religions Don't know/refused		8
## 180	Unaffiliated Don't know/refused		597

```
raw.tidy2 <- raw.tidy %>% arrange(religion)
```

```
## Warning: package 'bindrcpp' was built under R version 3.4.3
```

```
raw.tidy2
```

##	religion	Income	frequency
## 1	Agnostic	<\$10k	27
## 2	Agnostic	\$10-20k	34
## 3	Agnostic	\$20-30k	60
## 4	Agnostic	\$30-40k	81
## 5	Agnostic	\$40-50k	76

## 6	Agnostic	\$50-75k	137
## 7	Agnostic	\$75-100k	122
## 8	Agnostic	\$100-150k	109
## 9	Agnostic	>150k	84
## 10	Agnostic	Don't know/refused	96
## 11	Atheist	<\$10k	12
## 12	Atheist	\$10-20k	27
## 13	Atheist	\$20-30k	37
## 14	Atheist	\$30-40k	52
## 15	Atheist	\$40-50k	35
## 16	Atheist	\$50-75k	70
## 17	Atheist	\$75-100k	73
## 18	Atheist	\$100-150k	59
## 19	Atheist	>150k	74
## 20	Atheist	Don't know/refused	76
## 21	Buddhist	<\$10k	27
## 22	Buddhist	\$10-20k	21
## 23	Buddhist	\$20-30k	30
## 24	Buddhist	\$30-40k	34
## 25	Buddhist	\$40-50k	33
## 26	Buddhist	\$50-75k	58
## 27	Buddhist	\$75-100k	62
## 28	Buddhist	\$100-150k	39
## 29	Buddhist	>150k	53
## 30	Buddhist	Don't know/refused	54
## 31	Catholic	<\$10k	418
## 32	Catholic	\$10-20k	617
## 33	Catholic	\$20-30k	732
## 34	Catholic	\$30-40k	670
## 35	Catholic	\$40-50k	638
## 36	Catholic	\$50-75k	1116
## 37	Catholic	\$75-100k	949
## 38	Catholic	\$100-150k	792
## 39	Catholic	>150k	633
## 40	Catholic	Don't know/refused	1489
## 41	Don<U+0092>t know/refused	<\$10k	15
## 42	Don<U+0092>t know/refused	\$10-20k	14
## 43	Don<U+0092>t know/refused	\$20-30k	15
## 44	Don<U+0092>t know/refused	\$30-40k	11
## 45	Don<U+0092>t know/refused	\$40-50k	10
## 46	Don<U+0092>t know/refused	\$50-75k	35
## 47	Don<U+0092>t know/refused	\$75-100k	21
## 48	Don<U+0092>t know/refused	\$100-150k	17
## 49	Don<U+0092>t know/refused	>150k	18
## 50	Don<U+0092>t know/refused	Don't know/refused	116
## 51	Evangelical Prot	<\$10k	575
## 52	Evangelical Prot	\$10-20k	869
## 53	Evangelical Prot	\$20-30k	1064
## 54	Evangelical Prot	\$30-40k	982
## 55	Evangelical Prot	\$40-50k	881
## 56	Evangelical Prot	\$50-75k	1486
## 57	Evangelical Prot	\$75-100k	949
## 58	Evangelical Prot	\$100-150k	723
## 59	Evangelical Prot	>150k	414

## 60	Evangelical Prot	Don't know/refused	1529
## 61	Hindu	<\$10k	1
## 62	Hindu	\$10-20k	9
## 63	Hindu	\$20-30k	7
## 64	Hindu	\$30-40k	9
## 65	Hindu	\$40-50k	11
## 66	Hindu	\$50-75k	34
## 67	Hindu	\$75-100k	47
## 68	Hindu	\$100-150k	48
## 69	Hindu	>150k	54
## 70	Hindu	Don't know/refused	37
## 71	Historically Black Prot	<\$10k	228
## 72	Historically Black Prot	\$10-20k	244
## 73	Historically Black Prot	\$20-30k	236
## 74	Historically Black Prot	\$30-40k	238
## 75	Historically Black Prot	\$40-50k	197
## 76	Historically Black Prot	\$50-75k	223
## 77	Historically Black Prot	\$75-100k	131
## 78	Historically Black Prot	\$100-150k	81
## 79	Historically Black Prot	>150k	78
## 80	Historically Black Prot	Don't know/refused	339
## 81	Jehovah's Witness	<\$10k	20
## 82	Jehovah's Witness	\$10-20k	27
## 83	Jehovah's Witness	\$20-30k	24
## 84	Jehovah's Witness	\$30-40k	24
## 85	Jehovah's Witness	\$40-50k	21
## 86	Jehovah's Witness	\$50-75k	30
## 87	Jehovah's Witness	\$75-100k	15
## 88	Jehovah's Witness	\$100-150k	11
## 89	Jehovah's Witness	>150k	6
## 90	Jehovah's Witness	Don't know/refused	37
## 91	Jewish	<\$10k	19
## 92	Jewish	\$10-20k	19
## 93	Jewish	\$20-30k	25
## 94	Jewish	\$30-40k	25
## 95	Jewish	\$40-50k	30
## 96	Jewish	\$50-75k	95
## 97	Jewish	\$75-100k	69
## 98	Jewish	\$100-150k	87
## 99	Jewish	>150k	151
## 100	Jewish	Don't know/refused	162
## 101	Mainline Prot	<\$10k	289
## 102	Mainline Prot	\$10-20k	495
## 103	Mainline Prot	\$20-30k	619
## 104	Mainline Prot	\$30-40k	655
## 105	Mainline Prot	\$40-50k	651
## 106	Mainline Prot	\$50-75k	1107
## 107	Mainline Prot	\$75-100k	939
## 108	Mainline Prot	\$100-150k	753
## 109	Mainline Prot	>150k	634
## 110	Mainline Prot	Don't know/refused	1328
## 111	Mormon	<\$10k	29
## 112	Mormon	\$10-20k	40
## 113	Mormon	\$20-30k	48

## 114	Mormon	\$30-40k	51
## 115	Mormon	\$40-50k	56
## 116	Mormon	\$50-75k	112
## 117	Mormon	\$75-100k	85
## 118	Mormon	\$100-150k	49
## 119	Mormon	>150k	42
## 120	Mormon	Don't know/refused	69
## 121	Muslim	<\$10k	6
## 122	Muslim	\$10-20k	7
## 123	Muslim	\$20-30k	9
## 124	Muslim	\$30-40k	10
## 125	Muslim	\$40-50k	9
## 126	Muslim	\$50-75k	23
## 127	Muslim	\$75-100k	16
## 128	Muslim	\$100-150k	8
## 129	Muslim	>150k	6
## 130	Muslim	Don't know/refused	22
## 131	Orthodox	<\$10k	13
## 132	Orthodox	\$10-20k	17
## 133	Orthodox	\$20-30k	23
## 134	Orthodox	\$30-40k	32
## 135	Orthodox	\$40-50k	32
## 136	Orthodox	\$50-75k	47
## 137	Orthodox	\$75-100k	38
## 138	Orthodox	\$100-150k	42
## 139	Orthodox	>150k	46
## 140	Orthodox	Don't know/refused	73
## 141	Other Christian	<\$10k	9
## 142	Other Christian	\$10-20k	7
## 143	Other Christian	\$20-30k	11
## 144	Other Christian	\$30-40k	13
## 145	Other Christian	\$40-50k	13
## 146	Other Christian	\$50-75k	14
## 147	Other Christian	\$75-100k	18
## 148	Other Christian	\$100-150k	14
## 149	Other Christian	>150k	12
## 150	Other Christian	Don't know/refused	18
## 151	Other Faiths	<\$10k	20
## 152	Other Faiths	\$10-20k	33
## 153	Other Faiths	\$20-30k	40
## 154	Other Faiths	\$30-40k	46
## 155	Other Faiths	\$40-50k	49
## 156	Other Faiths	\$50-75k	63
## 157	Other Faiths	\$75-100k	46
## 158	Other Faiths	\$100-150k	40
## 159	Other Faiths	>150k	41
## 160	Other Faiths	Don't know/refused	71
## 161	Other World Religions	<\$10k	5
## 162	Other World Religions	\$10-20k	2
## 163	Other World Religions	\$20-30k	3
## 164	Other World Religions	\$30-40k	4
## 165	Other World Religions	\$40-50k	2
## 166	Other World Religions	\$50-75k	7
## 167	Other World Religions	\$75-100k	3



## 168	Other World Religions	\$100-150k	4
## 169	Other World Religions	>150k	4
## 170	Other World Religions	Don't know/refused	8
## 171	Unaffiliated	<\$10k	217
## 172	Unaffiliated	\$10-20k	299
## 173	Unaffiliated	\$20-30k	374
## 174	Unaffiliated	\$30-40k	365
## 175	Unaffiliated	\$40-50k	341
## 176	Unaffiliated	\$50-75k	528
## 177	Unaffiliated	\$75-100k	407
## 178	Unaffiliated	\$100-150k	321
## 179	Unaffiliated	>150k	258
## 180	Unaffiliated	Don't know/refused	597