Program Code_CAnD3 RRWM Exercise

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2025-09-30

Download data and call in dataset

- Dataset is available to download from Canvas course for CAnD3 fellows only. For more information on how to access this data for purposes beyond the CAnD3 Training Program, see the Data Accessibility Statement in this repository.
- Call in dataset !! (Be sure to change the file location to match the dataset on your local computer & call the dataframe "data" in order to ensure the code works without editing)

data <- read csv("/Users/leahj/Desktop/CAnD3/CAnD3/CAnD3 RWork/RRWM Exercise/CAnD3-RRWM-Exercise/Datase

```
## Rows: 20602 Columns: 1316
## -- Column specification ------
## Delimiter: ","
## dbl (1316): PUMFID, WGHT_PER, AGEC, AGEDC, AGEGR5, AGEGR10, SEX, MARSTAT, SE...
##
## i Use 'spec()' to retrieve the full column specification for this data.
## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.
```

```
glimpse(data)
```

Take initial look at data to examine structure

```
## Rows: 20,602
## Columns: 1,316
## $ PUMFID
             <dbl> 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18~
## $ WGHT_PER <dbl> 2616.1107, 952.4580, 531.2548, 2668.0354, 305.6069, 285.6552,~
              <dbl> 55, 40, 64, 18, 62, 44, 32, 65, 56, 25, 80, 40, 67, 60, 20, 5~
## $ AGEC
## $ AGEDC
              <dbl> 55.4, 40.4, 64.9, 18.5, 62.8, 44.6, 32.5, 65.7, 56.5, 25.9, 8~
## $ AGEGR5
              <dbl> 9, 6, 10, 1, 10, 6, 4, 11, 9, 3, 14, 6, 11, 10, 2, 9, 9, 3, 1~
             <dbl> 5, 3, 5, 1, 5, 3, 2, 6, 5, 2, 7, 3, 6, 5, 1, 5, 5, 2, 6, 5, 1~
## $ AGEGR10
## $ SEX
              <dbl> 2, 2, 2, 1, 2, 2, 2, 1, 2, 1, 1, 2, 2, 2, 1, 2, 1, 1, 2, 1, 1~
## $ MARSTAT
             <dbl> 1, 4, 1, 6, 5, 1, 1, 1, 1, 6, 1, 1, 3, 5, 2, 5, 1, 4, 1, 1, 6~
## $ SEXPR
              <dbl> 1, 0, 1, 0, 0, 1, 1, 2, 1, 0, 2, 1, 0, 0, 2, 0, 2, 0, 1, 2, 0~
## $ PRTYPEC <dbl> 1, 0, 1, 0, 0, 1, 1, 1, 1, 0, 1, 1, 0, 0, 2, 0, 1, 0, 1, 1, 0~
## $ CHRTIME6 <dbl> 4, 6, 1, 1, 1, 1, 5, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 3, 1, 1, 1~
## $ CHRINHDC <dbl> 2, 3, 0, 0, 0, 0, 2, 0, 0, 1, 0, 0, 0, 0, 0, 1, 2, 0, 0~
## $ CHH0014C <dbl> 0, 2, 0, 0, 0, 0, 2, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 2, 0, 0~
## $ LIVARR12 <dbl> 3, 7, 2, 10, 1, 2, 3, 2, 10, 4, 2, 1, 1, 6, 1, 3, 7, 2, 2,~
```

```
## $ HSDSIZEC <dbl> 4, 4, 2, 3, 1, 2, 4, 2, 2, 3, 3, 2, 1, 1, 5, 1, 3, 5, 2, 2~
## $ FAMTYPE <dbl> 2, 5, 1, 4, 6, 1, 2, 1, 1, 2, 2, 1, 6, 6, 1, 6, 4, 5, 1, 1, 6~
## $ PRV
       <dbl> 48, 35, 35, 24, 59, 12, 48, 35, 13, 35, 10, 12, 46, 12, 13, 1~
## $ REGION
       <dbl> 4, 3, 3, 2, 5, 1, 4, 3, 1, 3, 1, 1, 4, 1, 1, 1, 3, 1, 2, 3, 5~
## $ LUC_RST <dbl> 1, 1, 1, 1, 1, 2, 1, 1, 2, 1, 1, 2, 2, 1, 1, 1, 1, 1, 1, 2, 1~
## $ GU 110
       ## $ GU 120
       <dbl> 1, 1, 1, 1, 1, 1, 2, 1, 1, 1, 2, 1, 1, 1, 1, 1, 1, 1, 2, 1, 1, 1~
## $ GU 130C
       ## $ GU_170
       <dbl> 2, 2, 2, 1, 2, 2, 1, 2, 2, 2, 7, 2, 2, 1, 2, 2, 7, 2, 2
## $ GU_180
       <dbl> 6, 6, 6, 1, 6, 6, 6, 2, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6
## $ GU 190
       <dbl> 1, 1, 1, 2, 1, 1, 1, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1
## $ GU 210
       <dbl> 1, 1, 1, 1, 1, 1, 1, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1
## $ MTHERLIV <dbl> 2, 1, 2, 9, 2, 1, 1, 1, 1, 1, 2, 2, 2, 1, 1, 1, 1, 1, 2, 1, 1~
## $ AMDIEDC <dbl> 45, 96, 57, 96, 62, 96, 96, 96, 96, 96, 4, 23, 64, 96, 96, 96~
## $ AMOTHC
       <dbl> 95, 65, 95, 45, 95, 75, 59, 85, 80, 54, 95, 95, 95, 84, 47, 8~
## $ LAM 50
       <dbl> 6, 2, 6, 9, 6, 4, 4, 5, 1, 6, 6, 6, 6, 6, 3, 6, 2, 1, 6, 6, 3, 4~
## $ BRTHMCAN <dbl> 1, 1, 2, 1, 2, 1, 1, 2, 1, 1, 1, 1, 1, 1, 1, 1, 2, 1, 1, 2~
## $ FTHERLIV <dbl> 2, 1, 2, 1, 2, 1, 1, 2, 2, 1, 2, 1, 2, 2, 1, 2, 2, 9, 2, 1~
## $ AFDIEDC <dbl> 53, 96, 47, 96, 56, 96, 96, 39, 40, 96, 57, 96, 42, 59, 96, 4~
## $ AFATHC
       <dbl> 95, 71, 95, 46, 95, 76, 63, 95, 95, 62, 95, 69, 95, 95, 57, 9~
## $ LAF 50
       <dbl> 6, 2, 6, 6, 6, 4, 3, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 9, 6, 6, 4~
## $ BRTHFCAN <dbl> 1, 2, 2, 1, 2, 1, 1, 2, 1, 2, 1, 1, 1, 1, 1, 1, 1, 2, 1, 1, 1, 2~
## $ GPARLIV <dbl> 2, 2, 2, 1, 2, 2, 1, 2, 2, 1, 2, 2, 2, 2, 1, 2, 2, 1, 2, 2, 2~
## $ GPR_110B <dbl> 6, 6, 6, 1, 6, 6, 1, 6, 6, 2, 6, 6, 6, 6, 1, 6, 6, 2, 6, 6~
## $ GPR_110C <dbl> 6, 6, 6, 2, 6, 6, 1, 6, 6, 1, 6, 6, 6, 6, 1, 6, 6, 1, 6, 6, 6~
## $ NLFTHOMC <dbl> 1, 2, 2, 0, 1, 1, 4, 1, 1, 0, 1, 1, 1, 0, 1, 1, 0, 1, 1, 1~
## $ ALHOMFC <dbl> 99.6, 19.8, 18.8, 99.6, 99.6, 99.6, 15.0, 99.6, 99.6, 99.6, 9~
## $ ARTHOMFC <db1> 99.6, 22.5, 20.7, 99.6, 99.6, 99.6, 18.0, 99.6, 99.6, 99.6, 9~
## $ ALFHOMLC <dbl> 18.5, 23.3, 21.7, 99.6, 19.7, 17.5, 19.8, 44.8, 18.5, 99.6, 2~
```

```
## $ REALFTLA <dbl> 1, 2, 2, 6, 2, 1, 2, 2, 6, 2, 1, 2, 2, 6, 2, 1, 6, 2, 2, 1~
## $ REALFTLB <dbl> 2, 2, 1, 6, 2, 2, 2, 2, 6, 2, 2, 1, 1, 6, 2, 2, 6, 2, 1, 2~
## $ REALFTLC <dbl> 2, 1, 1, 6, 1, 2, 2, 2, 1, 6, 1, 2, 2, 2, 6, 1, 2, 6, 1, 2, 2~
## $ REALFTLD <dbl> 2, 2, 2, 6, 2, 2, 2, 2, 6, 2, 1, 2, 2, 6, 2, 2, 6, 2, 2~
## $ REALFTLE <dbl> 2, 2, 2, 6, 2, 2, 1, 2, 6, 2, 2, 2, 6, 2, 2, 6, 2, 2, 6, 2, 2
## $ REALFTLF <db1> 2, 2, 2, 6, 2, 2, 2, 2, 6, 2, 2, 2, 2, 6, 2, 2, 6, 2, 2, 6, 2, 2, 2
## $ REALFTLG <dbl> 2, 2, 2, 6, 2, 2, 2, 2, 6, 2, 2, 2, 6, 2, 2, 6, 2, 2, 6, 2, 2, 2~
## $ REALFTLO <dbl> 2, 2, 2, 6, 2, 2, 1, 2, 2, 6, 2, 2, 2, 6, 2, 2, 6, 2, 2, 2~
## $ ARTHOMLC <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6
## $ LHN_110 <dbl> 2, 1, 1, 6, 2, 2, 1, 2, 2, 6, 2, 2, 1, 2, 6, 2, 2, 6, 2, 2, 2~
## $ LHH_110 <dbl> 6, 6, 6, 1, 6, 6, 6, 6, 6, 1, 6, 6, 6, 6, 6, 6, 1, 6, 6, 1, 6, 6, 6~
          <dbl> 2, 1, 1, 0, 1, 1, 2, 1, 1, 0, 1, 2, 1, 1, 1, 1, 2, 1, 1, 1, 0~
## $ TOTUNC
## $ NMAREVRC <dbl> 1, 1, 1, 0, 1, 1, 1, 1, 0, 1, 1, 1, 1, 1, 0, 1, 2, 1, 1, 1, 0~
## $ TOTCLWC <dbl> 1, 0, 0, 0, 0, 1, 0, 0, 0, 0, 1, 0, 0, 1, 0, 0, 0, 0, 0~
## $ NSEPEVR <dbl> 1, 1, 0, 0, 1, 0, 1, 0, 0, 0, 0, 1, 0, 1, 0, 1, 1, 1, 1, 0, 0, 0~
## $ LEGMARST <dbl> 1, 2, 1, 5, 3, 1, 1, 1, 1, 5, 1, 1, 4, 3, 5, 3, 1, 2, 1, 1, 5~
## $ EVERMAR <dbl> 1, 1, 1, 2, 1, 1, 1, 1, 1, 2, 1, 1, 1, 1, 2, 1, 1, 1, 1, 1, 1, 2~
## $ EVERCL
          <dbl> 1, 2, 2, 2, 1, 2, 1, 2, 1, 2, 2, 1, 2, 1, 1, 2, 1, 1, 2, 1, 2~
## $ MAORNKC <dbl> 2, 1, 1, 96, 96, 1, 2, 1, 1, 96, 1, 2, 96, 96, 96, 96, 98, 1,~
## $ ASEPMAOC <db1> 99.6, 37.5, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 9
## $ AGEMAOC <dbl> 27.2, 23.3, 21.7, 99.6, 99.6, 28.9, 30.4, 43.3, 20.8, 99.6, 2~
## $ MAO_120
          <dbl> 3, 3, 3, 6, 6, 3, 3, 3, 6, 3, 2, 6, 6, 6, 6, 3, 3, 3, 6~
          <dbl> 28.8, 33.2, 22.4, 99.6, 99.6, 39.5, 34.4, 28.2, 26.8, 99.6, 2~
## $ APRMAOC
## $ ADFGRMAO <dbl> 7, 2, 8, 96, 96, 2, 4, 15, 2, 96, 12, 2, 96, 96, 96, 96, 97, ~
## $ MAO_133 <dbl> 1, 1, 1, 6, 6, 2, 1, 2, 1, 6, 1, 2, 6, 6, 6, 6, 6, 2, 2, 1, 1, 6~
## $ MAO_150 <dbl> 1, 6, 6, 6, 6, 6, 1, 6, 1, 6, 6, 1, 6, 6, 6, 6, 2, 1, 6, 1, 6~
## $ ACLMAOC
         <dbl> 26.8, 99.6, 99.6, 99.6, 99.6, 23.0, 99.6, 18.5, 99.6, 9~
## $ MA1RNKC <dbl> 96, 96, 96, 96, 1, 96, 96, 96, 96, 96, 96, 96, 96, 1, 1, 96, 1, 9~
## $ AGEMA1C <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6
## $ APRMA1C <dbl> 99.6, 99.6, 99.6, 99.6, 23.0, 99.6, 99.6, 99.6, 99.6, 99.6, 9~
## $ MA1_150 <dbl> 6, 6, 6, 6, 1, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 1, 6, 6, 6, 6, 6~
## $ ACLMA1C <dbl> 99.6, 99.6, 99.6, 99.6, 19.7, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6
## $ MA1_165 <dbl> 6, 6, 6, 6, 1, 6, 6, 6, 6, 6, 6, 6, 1, 1, 6, 1, 2, 6, 6, 6, 6~
## $ MA1_170 <dbl> 6, 6, 6, 6, 1, 6, 6, 6, 6, 6, 6, 6, 5, 1, 6, 1, 1, 6, 6, 6, 6~
## $ ASEPMA1C <dbl> 99.6, 99.6, 99.6, 55.2, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6
## $ ADIVMA1C <dbl> 99.6, 99.6, 99.6, 99.6, 57.0, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6
## $ ADTHMA1C <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6
## $ MA1_230 <dbl> 6, 6, 6, 6, 2, 6, 6, 6, 6, 6, 6, 6, 2, 2, 6, 2, 6, 6, 6, 6, 6~
## $ AGEMA2C <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6
```

```
## $ APRMA2C <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6
## $ ASEPMA2C <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6
## $ ADIVMA2C <db1> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6
## $ ADTHMA2C <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6
## $ AGEMA3C <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6
## $ PR CL
## $ CUO_107 <dbl> 1, 6, 6, 6, 2, 6, 1, 6, 2, 6, 6, 1, 6, 2, 6, 6, 2, 2, 6, 2, 6~
## $ ACUOC
            <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 9~
## $ APRCUOC <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6
## $ ACU1C
            <dbl> 25.5, 99.6, 99.6, 99.6, 99.6, 22.0, 99.6, 99.6, 99.6, 9~
## $ APRCU1C <dbl> 30.5, 99.6, 99.6, 99.6, 99.6, 99.6, 23.5, 99.6, 99.6, 99.6, 9~
## $ CU1_170 <dbl> 1, 6, 6, 6, 6, 6, 1, 6, 6, 6, 6, 1, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6
## $ ASEPCU1C <dbl> 26.5, 99.6, 99.6, 99.6, 99.6, 99.6, 22.5, 99.6, 99.6, 99.6, 9~
## $ ADTHCU1C <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6
## $ CU1_190 <dbl> 2, 6, 6, 6, 6, 6, 2, 6, 6, 6, 6, 2, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6
## $ CU1_230 <dbl> 2, 6, 6, 6, 6, 6, 2, 6, 6, 6, 6, 2, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6
## $ ACU2C
            <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6
## $ APRCU2C <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6
## $ ASEPCU2C <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6
<dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6
## $ ACU3C
## $ APRCU3C <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6
## $ ASEPCU3C <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6
## $ LAT_120 <dbl> 6, 2, 6, 6, 2, 6, 6, 6, 1, 6, 6, 2, 2, 6, 2, 6, 1, 6, 6, 2~
## $ ALATC
            <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 20.9, 9~
```

```
## $ RSH 131A <dbl> 99996, 99996, 99996, 99996, 99996, 99996, 99996, 99996, 99996
## $ MAC_110 <dbl> 2, 96, 9, 96, 96, 8, 4, 8, 2, 96, 2, 2, 96, 96, 96, 96, 9, 96~
## $ WEVERMAR <dbl> 6, 6, 6, 6, 5, 6, 6, 6, 6, 6, 6, 6, 6, 4, 3, 6, 4, 6, 6, 6, 1~
## $ MIC_120 <db1> 6, 6, 6, 6, 6, 6, 6, 6, 6, 1, 6, 6, 6, 6, 2, 6, 6, 2, 6, 6, 6~
## $ MCI 150
       ## $ CLI_160
       ## $ CUI_150
       <dbl> 6, 2, 6, 6, 5, 6, 6, 6, 6, 6, 6, 6, 4, 2, 6, 3, 6, 6, 6, 6, 2~
       <dbl> 2, 2, 2, 6, 2, 2, 2, 2, 6, 2, 1, 2, 2, 2, 6, 2, 2, 6
## $ COR 015
## $ COR 020
       ## $ COR_031
       <dbl> 6, 6, 6, 2, 6, 6, 2, 6, 2, 6, 6, 6, 6, 6, 2, 6, 1, 6, 6, 1, 2~
## $ COR_041
       <dbl> 6, 6, 1, 6, 1, 2, 6, 6, 1, 6, 6, 2, 2, 1, 6, 1, 6, 6, 1, 6, 6
## $ TOTCHDC
       <dbl> 3, 3, 3, 0, 2, 0, 2, 0, 2, 0, 1, 2, 0, 1, 0, 2, 4, 2, 2, 2, 0~
## $ RCI10_1
       <dbl> 1, 2, 1, 6, 1, 6, 1, 6, 2, 6, 1, 1, 6, 2, 6, 2, 2, 1, 1, 1, 6~
## $ RCI10 2
       <dbl> 2, 1, 1, 6, 2, 6, 1, 6, 2, 6, 6, 2, 6, 6, 6, 1, 1, 2, 1, 2, 6~
## $ RCI10 3
       ## $ RCI10 4
## $ RCI10 5
       ## $ RCI10 6
       ## $ RCI10_7
       ## $ ACHD 1C
       <dbl> 22, 17, 41, 996, 37, 996, 8, 996, 35, 996, 50, 23, 996, 35, 9~
## $ ACHD 2C
       <dbl> 18, 13, 38, 996, 33, 996, 4, 996, 32, 996, 996, 21, 996, 996,~
## $ ACHD 3C
       ## $ ACHD_4C
       ## $ ACHD_5C
       ## $ ACHD_6C
       ## $ ACHD_7C
       <dbl> 33.2, 23.4, 23.3, 99.6, 25.5, 99.6, 24.9, 99.6, 22.0, 99.6, 3~
## $ ACHB1C
## $ ACHB2C
       <dbl> 36.6, 27.6, 26.3, 99.6, 29.2, 99.6, 29.2, 99.6, 24.9, 99.6, 9~
## $ ACHB3C
       <dbl> 39.8, 33.4, 30.4, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6
## $ ACHB4C
       <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6
## $ ACHB5C
       <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 9~
## $ ACHB6C
       <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 9~
## $ ACHB7C
       <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 9~
## $ PRTCH1C
       <dbl> 1, 4, 96, 96, 96, 96, 1, 96, 96, 96, 1, 96, 96, 96, 96, 96, 3~
## $ PRTCH2C
       ## $ PRTCH3C
       ## $ PRTCH4C
       ## $ PRTCH5C
       ## $ PRTCH6C
       ## $ PRTCH7C
       ## $ RCI30_1
       <dbl> 1, 1, 1, 6, 1, 6, 1, 6, 1, 6, 1, 2, 6, 1, 6, 1, 1, 1, 1, 1, 6~
## $ RCI30_2
       <dbl> 1, 1, 1, 6, 1, 6, 1, 6, 1, 6, 6, 2, 6, 6, 6, 1, 1, 1, 1, 1, 6~
## $ RCI30 3
       ## $ RCI30 4
       ## $ RCI30_5
       ## $ RCI30_6
       ## $ RCI30_7
       ## $ ACHJ1C
       <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 9~
## $ ACHJ2C
       <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6
       <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6
## $ ACHJ3C
```

```
## $ ACHJ4C
    <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6
## $ ACHJ5C
    <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6
## $ ACHJ6C
    <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6
    <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6
## $ ACHJ7C
## $ CHDINFTC <dbl> 2, 3, 0, 6, 0, 6, 2, 6, 0, 6, 1, 0, 6, 0, 6, 0, 1, 0, 0, 0, 6~
## $ CHDINPTC <dbl> 0, 0, 0, 6, 0, 6, 0, 6, 0, 6, 0, 6, 0, 6, 0, 6, 0, 0, 2, 0, 0, 6~
## $ CHDOUTC
    <dbl> 1, 0, 3, 6, 2, 6, 0, 6, 2, 6, 0, 2, 6, 1, 6, 2, 3, 0, 2, 2, 6~
## $ CHDDECC
    <dbl> 0, 0, 0, 6, 0, 6, 0, 6, 0, 6, 0, 6, 0, 6, 0, 6, 0, 0, 0, 0, 0, 6~
## $ HHDCHD1
    <dbl> 1, 1, 2, 6, 2, 6, 1, 6, 2, 6, 1, 2, 6, 2, 6, 2, 2, 1, 2, 2, 6~
## $ HHDCHD2
    <dbl> 2, 1, 2, 6, 2, 6, 1, 6, 2, 6, 6, 2, 6, 6, 6, 2, 2, 1, 2, 2, 6~
## $ HHDCHD3
    ## $ HHDCHD4
    ## $ HHDCHD5
    ## $ HHDCHD6
    ## $ HHDCHD7
    ## $ HHDSTA1
    <dbl> 1, 1, 3, 6, 3, 6, 1, 6, 3, 6, 1, 3, 6, 3, 6, 3, 3, 2, 3, 3, 6~
## $ HHDSTA2
    <dbl> 3, 1, 3, 6, 3, 6, 1, 6, 3, 6, 6, 3, 6, 6, 6, 6, 3, 3, 2, 3, 3, 6~
## $ HHDSTA3
    ## $ HHDSTA4
    ## $ HHDSTA5
## $ HHDSTA6
    ## $ HHDSTA7
    ## $ RCI65_1
    ## $ RCI65 2
    ## $ RCI65 3
## $ RCI65 4
    ## $ RCI65_5
    ## $ RCI65_6
    ## $ RCI65_7
    ## $ RCI702C
    ## $ RCI703C
    ## $ RCI704C
    ## $ RCI705C
    ## $ RCI706C
## $ RCI707C
    ## $ SC0101C
    ## $ SC0102C
    ## $ SCO103C
    ## $ SC0104C
    ## $ SC0105C
    ## $ SCO106C
    ## $ SC0107C
    ## $ SCO20_1
    ## $ SCO20_2
    ## $ SCO20_3
    ## $ SCO20 4
    ## $ SCO20 5
    ## $ SCO20_7
    ## $ SCO30_1
```

```
## $ SCO30 6
  ## $ SCO30 7
  ## $ TOTCCAR
  ## $ TOTCCPS
  ## $ TOTCCSA
  ## $ CC 10 1
  ## $ CC 10 2
  ## $ CC 10 3
  ## $ CC_10_4
  ## $ CC_10_5
  ## $ CC 10 6
  ## $ CC_10_7
  ## $ CC_20_1
## $ CC_20_2
  ## $ CC_20_3
  ## $ CC_20_4
  ## $ CC 20 5
  ## $ CC 20 6
  ## $ CC 20 7
  ## $ CC 30 1
  ## $ CC 30 2
  ## $ CC 30 4
## $ CC 30 5
  ## $ CC 30 6
  ## $ CC_30_7
  ## $ CC_40_1
  ## $ CC_40_2
  ## $ CC 40 3
  ## $ CC_40_4
  ## $ CC_40_5
  ## $ CC_40_6
  ## $ CC_40_7
  ## $ CC 50 1
  ## $ CC 50 2
  ## $ CC 50 3
  ## $ CC_50_4
  ## $ CC 50 5
  ## $ CC_50_6
  ## $ CC 50 7
  ## $ CC 60 1
## $ CC 60 2
  <dbl> 96, 96, 96, 96, 96, 96, 4, 96, 96, 96, 96, 96, 96, 96, 96, 96
## $ CC_60_3
  ## $ CC_60_4
  ## $ CC_60_5
## $ CC 60 6
  ## $ CC_60_7
  ## $ CCA50_1
  ## $ CCA50_2
  ## $ CCA50_3
```

```
## $ CCA50 7
  ## $ CCA551C
   <dbl> 6, 6, 6, 6, 6, 6, 5, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6
## $ CCA552C
## $ CCA553C
   ## $ CCA554C
   ## $ CCA555C
   ## $ CCA556C
   ## $ CCA557C
   ## $ CCA651C
   ## $ CCA652C
   <dbl> 6, 6, 6, 6, 6, 6, 4, 6, 6, 6, 6, 6, 6, 6, 6, 6, 1, 6, 6, 6
## $ CCA653C
   ## $ CCA654C
   ## $ CCA655C
   ## $ CCA656C
   ## $ CCA657C
   ## $ CCA70_1
   ## $ CCA70_2
   ## $ CCA70 3
   ## $ CCA70 4
   ## $ CCA70 5
   ## $ CCA70 6
   ## $ CCA70 7
   ## $ CCDYC1C
   ## $ CCDYC2C
   ## $ CCDYC3C
   ## $ CCDYC4C
   ## $ CCDYC5C
   ## $ CCDYC6C
   ## $ CCDYC7C
   ## $ CCWKC1C
   ## $ CCWKC2C
   ## $ CCWKC3C
   ## $ CCWKC4C
   ## $ CCWKC5C
   ## $ CCWKC6C
   ## $ CCWKC7C
   ## $ CCW2C1C
   ## $ CCW2C2C
   ## $ CCW2C3C
   ## $ CCW2C4C
   ## $ CCW2C5C
   ## $ CCW2C6C
   ## $ CCW2C7C
   ## $ CCMOC1C
   <db1> 96, 96, 96, 96, 96, 96, 3, 96, 96, 96, 96, 96, 96, 96, 96, 96~
## $ CCMOC2C
   <dbl> 96, 96, 96, 96, 96, 96, 7, 96, 96, 96, 96, 96, 96, 96, 96, 96
   ## $ CCMOC3C
## $ CCMOC4C
   ## $ CCMOC5C
   ## $ CCMOC6C
   ## $ CCMOC7C
   ## $ CP_10_1
   ## $ CP 10 2
```

```
## $ CP 10 5
      ## $ CP 10 6
      ## $ CP 10 7
      ## $ CP_20_1
      ## $ CP 20 2
      ## $ CP 20 3
      ## $ CP 20 4
      ## $ CP 20 5
## $ CP 20 6
      ## $ CP_20_7
      ## $ CP30_1C
      ## $ CP30 2C
      ## $ CP30_3C
      ## $ CP30_4C
      ## $ CP30_5C
      ## $ CP30_6C
      ## $ CP30_7C
      ## $ NUC1 1C
      ## $ NUC1 2C
      ## $ NUC1_3C
      ## $ NUC1_4C
      ## $ NUC1 5C
      ## $ NUC1_6C
      ## $ NUC1 7C
      ## $ NUC2 1C
      ## $ NUC2 2C
      ## $ NUC2_3C
      ## $ NUC2_4C
      ## $ NUC2_5C
      ## $ NUC2 6C
      ## $ NUC2_7C
      ## $ ARHCL1C
      <dbl> 99.5, 99.5, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6
## $ ARHCL2C
      <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 9~
      <dbl> 99.5, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6
## $ ARHCL3C
      <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6
## $ ARHCL4C
## $ ARHCL5C
      <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 9~
## $ ARHCL6C
      <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 9~
## $ ARHCL7C
      <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6
## $ ARNCL1C
      <dbl> 99.6, 99.6, 42.9, 99.6, 43.8, 99.6, 99.6, 99.6, 42.8, 99.6, 9~
## $ ARNCL2C
      <dbl> 55.3, 99.6, 45.8, 99.6, 53.8, 99.6, 99.6, 99.6, 42.8, 99.6, 9~
## $ ARNCL3C
      <dbl> 99.6, 99.6, 49.8, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 9~
      <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6
## $ ARNCL4C
## $ ARNCL5C
      <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 9~
## $ ARNCL6C
      <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6
## $ ARNCL7C
      <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6
      <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6
## $ ADIELH1
## $ ADIELH2
      <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6
## $ ADIELH3
      <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 9~
## $ ADIELH4
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## $ ADIELH5
      <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 9~
## $ ADIELH6
      <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6
## $ ADIELH7
      <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 9~
## $ REHCLA1
```

```
## $ REHCLE1
  ## $ REHCLF1
  ## $ REHCLG1
  ## $ REHCLH1
  ## $ REHCLI1
## $ REHCLJ1
  ## $ REHCLA2
  ## $ REHCLB2
  ## $ REHCLC2
  ## $ REHCLE2
  ## $ REHCLF2
  ## $ REHCLG2
  ## $ REHCLH2
  ## $ REHCLI2
  ## $ REHCLJ2
  ## $ REHCLA3
  ## $ REHCLB3
  ## $ REHCLC3
  ## $ REHCLE3
  ## $ REHCLF3
  ## $ REHCLG3
  ## $ REHCLH3
  ## $ REHCLI3
  ## $ REHCLJ3
  ## $ REHCLA4
  ## $ REHCLB4
  ## $ REHCLC4
  ## $ REHCLE4
  ## $ REHCLF4
  ## $ REHCLG4
  ## $ REHCLH4
  ## $ REHCLI4
  ## $ REHCLJ4
  ## $ REHCLA5
  ## $ REHCLB5
  ## $ REHCLC5
  ## $ REHCLE5
  ## $ REHCLF5
  ## $ REHCLG5
  ## $ REHCLH5
  ## $ REHCLI5
  ## $ REHCLJ5
  ## $ REHCLA6
  ## $ REHCLB6
  ## $ REHCLC6
  ## $ REHCLE6
  ## $ REHCLF6
  ## $ REHCLG6
  ## $ REHCLH6
  ## $ REHCLI6
  ## $ REHCLJ6
  ## $ REHCLA7
```

```
## $ REHCLE7
      ## $ REHCLF7
      ## $ REHCLG7
      ## $ REHCLH7
      ## $ REHCLI7
      ## $ REHCLJ7
      <dbl> 6, 6, 2, 6, 2, 6, 6, 6, 2, 6, 6, 1, 6, 2, 6, 2, 2, 6, 2, 2, 6
## $ RENCLA1
## $ RENCLB1
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## $ RENCLC1
      <dbl> 6, 6, 2, 6, 1, 6, 6, 6, 2, 6, 6, 2, 6, 2, 6, 1, 2, 6, 1, 1, 6~
## $ RENCLD1
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      <dbl> 6, 6, 2, 6, 2, 6, 6, 6, 2, 6, 6, 2, 6, 2, 6, 2, 6, 2, 6, 2, 6
## $ RENCLE1
## $ RENCLF1
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## $ RENCLG1
      <dbl> 6, 6, 1, 6, 2, 6, 6, 6, 2, 6, 6, 2, 6, 1, 6, 2, 2, 6, 2, 6~
## $ RENCLH1
      <dbl> 6, 6, 2, 6, 2, 6, 6, 6, 2, 6, 6, 2, 6, 2, 6, 2, 6, 2, 6, 2, 6, 2
## $ RENCLI1
      <dbl> 6, 6, 2, 6, 2, 6, 6, 6, 2, 6, 6, 2, 6, 2, 6, 2, 6, 2, 6, 2, 2, 6
## $ RENCLJ1
      <dbl> 6, 6, 2, 6, 2, 6, 6, 6, 1, 6, 6, 2, 6, 2, 6, 2, 2, 6, 2, 2, 6
## $ RENCLA2
      <dbl> 1, 6, 2, 6, 1, 6, 6, 6, 2, 6, 6, 1, 6, 6, 6, 2, 2, 6, 2, 2, 6
## $ RENCLB2
      <dbl> 1, 6, 2, 6, 2, 6, 6, 6, 2, 6, 6, 2, 6, 6, 6, 1, 2, 6, 2, 2, 6~
## $ RENCLC2
      <dbl> 2, 6, 2, 6, 2, 6, 6, 6, 2, 6, 6, 2, 6, 6, 6, 2, 2, 6, 1, 1, 6~
## $ RENCLD2
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## $ RENCLE2
      <dbl> 2, 6, 2, 6, 2, 6, 6, 6, 2, 6, 6, 2, 6, 6, 6, 2, 2, 6, 2, 2, 6~
## $ RENCLF2
      <dbl> 2, 6, 2, 6, 2, 6, 6, 6, 2, 6, 6, 2, 6, 6, 2, 2, 6, 2, 2, 6
## $ RENCLG2
      <dbl> 2, 6, 1, 6, 2, 6, 6, 6, 2, 6, 6, 1, 6, 6, 6, 2, 2, 6, 2, 2, 6~
## $ RENCLH2
      <dbl> 2, 6, 2, 6, 2, 6, 6, 6, 2, 6, 6, 2, 6, 6, 6, 2, 2, 6, 2, 2, 6
## $ RENCLI2
      <dbl> 2, 6, 2, 6, 2, 6, 6, 6, 2, 6, 6, 2, 6, 6, 2, 2, 6, 2, 2, 6
## $ RENCLJ2
      <dbl> 2, 6, 2, 6, 2, 6, 6, 6, 1, 6, 6, 2, 6, 6, 6, 2, 2, 6, 2, 2, 6~
## $ RENCLA3
      ## $ RENCLB3
      ## $ RENCLC3
      ## $ RENCLD3
      ## $ RENCLE3
      ## $ RENCLF3
      ## $ RENCLG3
      ## $ RENCLH3
      ## $ RENCLI3
      ## $ RENCLJ3
      ## $ RENCLA4
      ## $ RENCLB4
      ## $ RENCLC4
      ## $ RENCLD4
      ## $ RENCLE4
      ## $ RENCLF4
      ## $ RENCLG4
      ## $ RENCLH4
      ## $ RENCLI4
      ## $ RENCLJ4
      ## $ RENCLA5
      ## $ RENCLB5
      ## $ RENCLC5
      ## $ RENCLD5
      ## $ RENCLE5
      ## $ RENCLF5
```

```
## $ RENCLI5
  ## $ RENCLJ5
  ## $ RENCLA6
  ## $ RENCLB6
  ## $ RENCLC6
  ## $ RENCLD6
  ## $ RENCLE6
  ## $ RENCLF6
  ## $ RENCLG6
  ## $ RENCLH6
  ## $ RENCLI6
  ## $ RENCLJ6
  ## $ RENCLA7
  ## $ RENCLB7
  ## $ RENCLC7
  ## $ RENCLD7
  ## $ RENCLE7
  ## $ RENCLF7
  ## $ RENCLG7
  ## $ RENCLH7
  ## $ RENCLI7
  ## $ RENCLJ7
  ## $ REDCLA1
  ## $ REDCLB1
  ## $ REDCLC1
  ## $ REDCLG1
  ## $ REDCLA2
  ## $ REDCLB2
  ## $ REDCLC2
  ## $ REDCLG2
  ## $ REDCLA3
  ## $ REDCLB3
  ## $ REDCLC3
  ## $ REDCLG3
  ## $ REDCLA4
  ## $ REDCLB4
  ## $ REDCLC4
  ## $ REDCLG4
  ## $ REDCLA5
  ## $ REDCLB5
  ## $ REDCLC5
  ## $ REDCLG5
  ## $ REDCLA6
  ## $ REDCLB6
  ## $ REDCLC6
  ## $ REDCLG6
  ## $ REDCLA7
  ## $ REDCLB7
  ## $ REDCLC7
  ## $ REDCLG7
  ## $ NGRDCHDC <dbl> 0, 0, 5, 0, 2, 0, 0, 0, 4, 0, 0, 0, 1, 0, 1, 4, 0, 4, 2, 0~
## $ GRNDPA
  <dbl> 2, 2, 1, 2, 1, 2, 2, 2, 1, 2, 2, 2, 1, 2, 1, 1, 2, 1, 1, 2~
## $ GCH_070 <dbl> 2, 2, 1, 6, 1, 6, 2, 6, 1, 6, 2, 2, 6, 1, 6, 1, 1, 6, 1, 1, 6~
```

```
## $ AGRNDPAC <dbl> 75, 75, 54, 75, 52, 75, 75, 75, 45, 75, 75, 75, 75, 57, 75, 5~
## $ FI 100
   <dbl> 6, 6, 6, 6, 6, 2, 2, 6, 6, 2, 6, 6, 2, 6, 6, 2, 6, 6, 2, 6, 6, 6
## $ FI 105
   <dbl> 6, 3, 6, 4, 6, 4, 4, 6, 6, 2, 6, 5, 6, 6, 3, 6, 4, 3, 6, 6, 3~
## $ FI 110
   <dbl> 6, 3, 6, 4, 6, 4, 4, 6, 6, 6, 6, 1, 6, 6, 2, 6, 4, 3, 6, 6, 1~
## $ NOCHRICC <dbl> 6, 0, 6, 0, 6, 0, 6, 6, 2, 6, 1, 6, 6, 2, 6, 0, 0, 6, 6, 3~
## $ FI 130
   <dbl> 6, 1, 6, 2, 6, 2, 2, 6, 6, 2, 6, 2, 6, 6, 2, 6, 2, 6, 6, 6
## $ FI 131
   ## $ FI 140
   <dbl> 6, 6, 6, 2, 6, 2, 6, 6, 2, 6, 6, 2, 6, 6, 2, 6, 6, 6, 6
## $ FI_230
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## $ FI_231
   ## $ FI 240
   <dbl> 6, 6, 6, 6, 6, 2, 6, 6, 2, 6, 6, 2, 6, 6, 6, 6, 6, 6, 6
## $ FI 500
   <dbl> 6, 6, 6, 6, 6, 2, 6, 6, 6, 1, 6, 2, 6, 6, 2, 6, 6, 6, 6, 6, 6
## $ FI 505
   ## $ FI_510K <dbl> 6, 6, 6, 6, 6, 6, 6, 6, 1, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6
## $ ARSTPWKC <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 29.1, 99.6, 99.6, 99.6, 9~
## $ ARRETWK <dbl> 99.6, 99.6, 99.6, 99.6, 99.6, 99.6, 12.0, 99.6, 99.6, 9.6, 9~
## $ COM_105 <dbl> 1, 6, 3, 6, 6, 3, 1, 1, 3, 6, 2, 1, 6, 6, 3, 6, 2, 6, 3, 3, 6~
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## $ COM_110 <dbl> 1, 6, 3, 6, 6, 1, 3, 3, 3, 6, 2, 2, 6, 6, 3, 6, 3, 6, 3, 2, 6~
## $ COM_115 <dbl> 4, 6, 1, 6, 6, 3, 3, 3, 6, 3, 1, 6, 6, 3, 6, 2, 6, 3, 2, 6~
## $ COM_120 <dbl> 1, 6, 1, 6, 6, 3, 3, 1, 3, 6, 2, 1, 6, 6, 1, 6, 2, 6, 1, 2, 6~
## $ COM_130 <dbl> 1, 6, 1, 6, 6, 3, 1, 5, 3, 6, 1, 2, 6, 6, 5, 6, 1, 6, 5, 1, 6~
## $ COM_135 <dbl> 2, 6, 2, 6, 6, 2, 3, 3, 2, 6, 4, 2, 6, 6, 1, 6, 5, 6, 2, 1, 6~
## $ COM_140 <dbl> 1, 6, 1, 6, 6, 1, 1, 3, 3, 6, 2, 3, 6, 6, 2, 6, 1, 6, 1, 3, 6~
## $ COM_145 <dbl> 2, 6, 3, 6, 6, 2, 3, 3, 1, 6, 3, 3, 6, 6, 1, 6, 1, 6, 2, 2, 6~
## $ COM_150 <dbl> 1, 6, 3, 6, 6, 3, 3, 3, 3, 6, 1, 1, 6, 6, 1, 6, 1, 6, 2, 3, 6~
## $ COM_205A <dbl> 1, 6, 2, 6, 6, 2, 6, 6, 6, 1, 1, 6, 6, 6, 6, 2, 6, 6, 2, 6~
## $ COM_205B <dbl> 2, 6, 2, 6, 6, 2, 6, 6, 6, 2, 2, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 2, 6~
## $ COM_205C <dbl> 2, 6, 1, 6, 6, 1, 6, 6, 6, 6, 2, 2, 6, 6, 6, 6, 1, 6, 6, 1, 6~
## $ COM_205D <dbl> 2, 6, 2, 6, 6, 2, 6, 6, 6, 2, 2, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 2, 6~
## $ COM_205E <dbl> 2, 6, 2, 6, 6, 2, 6, 6, 6, 2, 2, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 2, 6~
## $ COM_210A <dbl> 2, 6, 2, 6, 6, 2, 2, 2, 2, 6, 2, 1, 6, 6, 2, 6, 2, 6, 2, 6~
## $ COM_210B <dbl> 2, 6, 2, 6, 6, 2, 1, 1, 2, 6, 1, 2, 6, 6, 1, 6, 2, 6, 1, 2, 6~
## $ COM_210C <dbl> 1, 6, 1, 6, 6, 1, 2, 2, 1, 6, 2, 2, 6, 6, 2, 6, 1, 6, 2, 1, 6~
## $ COM_210D <dbl> 2, 6, 2, 6, 6, 2, 2, 2, 6, 2, 2, 6, 6, 2, 6, 6, 2, 6, 2, 6, 2, 6, 2, 6
## $ COM_210E <dbl> 2, 6, 2, 6, 6, 2, 2, 2, 6, 2, 2, 6, 6, 2, 6, 6, 2, 6, 2, 6, 2, 6
## $ COM_212 <dbl> 3, 6, 1, 6, 6, 3, 3, 3, 1, 6, 1, 2, 6, 6, 1, 6, 1, 6, 3, 3, 6~
## $ COM_215 <dbl> 5, 96, 96, 96, 96, 4, 5, 3, 96, 96, 96, 5, 96, 96, 96, 96, 96~
## $ COM_220 <dbl> 5, 6, 6, 6, 6, 7, 1, 3, 6, 6, 6, 1, 6, 6, 6, 6, 6, 6, 5, 1, 6~
## $ COM_230 <dbl> 5, 6, 6, 6, 6, 7, 3, 3, 6, 6, 6, 5, 6, 6, 6, 6, 6, 6, 4, 1, 6~
## $ COM_235 <dbl> 1, 6, 1, 6, 6, 1, 2, 1, 1, 6, 1, 1, 6, 6, 1, 6, 1, 6, 2, 1, 6~
## $ SEP20YR <dbl> 2, 1, 2, 2, 1, 2, 1, 2, 2, 2, 2, 1, 2, 1, 2, 1, 1, 1, 1, 2, 2, 2~
## $ SEP5YR
      ## $ LSTSEP20 <dbl> 96, 1, 96, 96, 2, 96, 5, 96, 96, 96, 96, 5, 96, 2, 96, 2, 2, ~
## $ LDS_100 <dbl> 6, 1, 6, 6, 2, 6, 2, 6, 6, 6, 6, 6, 6, 2, 6, 1, 1, 1, 6, 6, 6~
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## $ FSE_100 <dbl> 6, 4, 6, 6, 2, 6, 4, 6, 6, 6, 6, 4, 6, 4, 6, 4, 1, 4, 6, 6, 6~
## $ NBSERV
## $ WORKLW
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## $ LMAM_01 <dbl> 1, 1, 2, 1, 1, 2, 1, 1, 2, 1, 2, 1, 2, 1, 2, 1, 1, 2, 1, 1, 2, 1, 1~
## $ LMAM_02 <dbl> 6, 6, 2, 6, 6, 2, 6, 6, 1, 6, 2, 6, 2, 6, 6, 1, 6, 6, 2, 6, 6~
## $ WORKLYR <dbl> 1, 1, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 2, 1, 1, 1, 1, 1, 1, 1 \
## $ REW 10
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## $ COW 10
    <dbl> 2, 1, 6, 1, 2, 1, 1, 1, 1, 1, 1, 6, 1, 1, 1, 1, 1, 1, 1

## $ NAIC12CW <dbl> 17, 20, 96, 20, 15, 96, 16, 7, 18, 6, 96, 16, 96, 4, 7, 7, 5,~
## $ NAIC12CY <dbl> 17, 20, 96, 20, 15, 10, 16, 7, 18, 6, 4, 16, 96, 4, 7, 7, 5, ~
## $ NOC1610W <dbl> 6, 2, 96, 7, 5, 96, 4, 7, 7, 7, 96, 5, 96, 2, 8, 7, 10, 7, 96~
## $ NOC1610 <dbl> 6, 2, 96, 7, 5, 7, 4, 7, 7, 8, 5, 96, 2, 8, 7, 10, 7, 2, 8~
## $ NWE_110 <dbl> 52, 52, 96, 16, 52, 20, 52, 52, 52, 52, 52, 96, 52, 52, 32~
## $ UHW_16GR <dbl> 7, 3, 6, 3, 3, 3, 5, 4, 3, 3, 3, 3, 6, 3, 3, 4, 3, 4, 3, 5, 2~
## $ UWS_230 <dbl> 7, 1, 96, 7, 1, 1, 4, 1, 4, 1, 3, 1, 96, 1, 1, 1, 1, 4, 1, 4,~
## $ TOE_240 <dbl> 6, 1, 6, 2, 6, 1, 1, 1, 1, 1, 2, 1, 6, 1, 1, 2, 1, 1, 2, 1, 1~
## $ TOE_241 <dbl> 6, 6, 6, 1, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 1, 6, 6, 2, 6, 6~
## $ EDE_02
    ## $ ACOMPSTC <dbl> 18, 20, 20, 18, 18, 28, 19, 40, 40, 19, 23, 25, 17, 40, 19, 9~
## $ EHG3_01B <dbl> 2, 4, 6, 4, 2, 6, 4, 4, 4, 2, 3, 6, 2, 6, 4, 2, 2, 2, 2, 3, 2~
## $ EHG3_02B <dbl> 1, 6, 6, 6, 2, 6, 6, 6, 1, 6, 6, 1, 6, 6, 2, 1, 2, 2, 6, 1~
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## $ EHG3_04B <dbl> 6, 3, 6, 3, 6, 6, 2, 2, 3, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6
## $ ACMPRYR <dbl> 1, 96, 6, 96, 96, 1, 1, 8, 1, 1, 1, 1, 96, 96, 1, 96, 1, 1, 1~
## $ MAP_110 <dbl> 1, 96, 6, 96, 96, 1, 1, 8, 1, 1, 1, 1, 96, 96, 1, 96, 1, 1, 1~
## $ MAP_155 <dbl> 1, 96, 96, 96, 96, 4, 7, 96, 1, 1, 1, 1, 96, 96, 4, 96, 1, 1,~
## $ EOP_200 <dbl> 3, 96, 7, 96, 96, 4, 3, 97, 1, 2, 97, 3, 96, 96, 2, 96, 1, 4,~
## $ EOP_210 <dbl> 6, 6, 6, 6, 6, 6, 6, 6, 6, 1, 6, 6, 6, 1, 6, 6, 6, 6, 1, 6~
## $ SRH_110 <dbl> 2, 3, 1, 2, 1, 3, 1, 3, 1, 2, 3, 4, 2, 1, 2, 3, 2, 3, 2, 3, 1~
## $ SRH_115 <dbl> 2, 3, 2, 3, 1, 3, 2, 3, 1, 2, 4, 2, 2, 1, 1, 3, 1, 1, 4, 4, 1~
## $ SLM_01
           <dbl> 8, 7, 10, 8, 7, 9, 8, 10, 10, 6, 7, 7, 8, 10, 10, 8, 9, 6, 7,~
## $ DWELC
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## $ ODR_10
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## $ ODR_15A <dbl> 2, 1, 1, 2, 6, 1, 2, 6, 1, 2, 1, 1, 1, 1, 2, 1, 6, 2, 6, 1, 6~
## $ ODR_15B <dbl> 1, 2, 1, 2, 6, 2, 1, 6, 1, 2, 1, 1, 2, 2, 2, 2, 6, 2, 6, 1, 6~
## $ ODR_15C <db1> 2, 2, 2, 2, 6, 2, 2, 6, 2, 2, 2, 2, 2, 2, 2, 2, 6, 2, 6, 2, 6~
## $ ODR_15D <dbl> 2, 2, 2, 1, 6, 2, 2, 6, 2, 1, 2, 2, 2, 1, 2, 6, 1, 6, 2, 6~
## $ ODR_15E <dbl> 2, 2, 2, 2, 6, 2, 2, 6, 2, 2, 2, 2, 2, 2, 2, 2, 6, 2, 6, 2, 6~
## $ BRTHMACR <dbl> 6, 6, 6, 6, 6, 6, 6, 4, 2, 6, 6, 6, 6, 6, 6, 6, 1, 6, 6, 6, 4~
## $ BRTHCAN <dbl> 1, 1, 1, 1, 1, 1, 1, 2, 2, 1, 1, 1, 1, 1, 1, 1, 2, 1, 1, 1, 2~
## $ BRTHPRVC <dbl> 8, 6, 6, 5, 6, 1, 6, 96, 96, 6, 1, 3, 7, 4, 4, 4, 96, 3, 5, 6~
## $ YRARRI
           <dbl> 96, 96, 96, 96, 96, 96, 96, 10, 3, 96, 96, 96, 96, 96, 96, 96
## $ BPR_16
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## $ BPR_19
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## $ BRTHPCAN <dbl> 1, 6, 1, 6, 6, 1, 1, 2, 1, 2, 2, 1, 6, 6, 1, 6, 2, 1, 1, 1, 6~
## $ BRTPPRVC <dbl> 9, 96, 6, 96, 96, 3, 9, 12, 3, 12, 12, 3, 96, 96, 4, 96, 12, ~
## $ AMB_01
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## $ AIP 01
           <dbl> 2, 6, 2, 6, 6, 2, 2, 6, 2, 6, 2, 2, 6, 6, 2, 6, 6, 9, 2, 2, 6~
## $ VISMIN
           <dbl> 2, 2, 2, 2, 2, 2, 2, 7, 2, 2, 2, 2, 2, 2, 2, 2, 7, 2, 2, 1~
## $ VISMINPR <dbl> 2, 6, 2, 6, 6, 2, 2, 1, 2, 2, 2, 2, 6, 6, 2, 6, 1, 2, 2, 2, 6~
## $ RELIGFLG <dbl> 2, 1, 1, 2, 2, 1, 1, 1, 1, 1, 1, 2, 1, 1, 1, 1, 1, 1, 1, 2, 1~
## $ REE 02
           <dbl> 5, 3, 4, 4, 5, 1, 2, 1, 5, 5, 4, 4, 5, 4, 5, 1, 5, 5, 5, 3~
## $ REE 03
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## $ RLR_110 <dbl> 2, 3, 1, 4, 1, 1, 1, 1, 2, 4, 2, 4, 2, 1, 3, 2, 1, 2, 2, 4, 2~
## $ LAN 01
           ## $ LANHOME <dbl> 1, 1, 1, 2, 5, 1, 1, 3, 1, 1, 1, 1, 1, 1, 1, 1, 3, 1, 2, 1, 5~
## $ LANMT
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## $ LANMTMUL <dbl> 1, 1, 1, 1, 2, 1, 2, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1 \
## $ TTLINCG2 <dbl> 1, 4, 3, 1, 1, 2, 1, 2, 1, 2, 1, 3, 2, 3, 1, 2, 3, 1, 1, 6, 1~
## $ FAMINCG2 <dbl> 6, 4, 6, 1, 1, 3, 1, 2, 4, 3, 5, 5, 2, 3, 2, 2, 3, 4, 3, 6, 5~
## $ WTBS_001 <dbl> 3811.8819, 975.4703, 619.2238, 5217.7854, 293.5633, 0.0000, 6~
## $ WTBS_002 <dbl> 4145.0801, 1031.1241, 549.9862, 2825.3705, 0.0000, 1049.0944,~
## $ WTBS_003 <dbl> 0.0000, 1065.5525, 619.7720, 0.0000, 311.6073, 947.4461, 0.00~
## $ WTBS_004 <dbl> 4241.5181, 0.0000, 563.9567, 7082.7623, 434.0768, 470.0399, 3~
## $ WTBS_005 <dbl> 2389.4467, 1806.2870, 531.5490, 3088.4830, 0.0000, 920.1595, ~
## $ WTBS_006 <dbl> 0.0000, 1019.0421, 0.0000, 2033.8998, 1271.8276, 335.8495, 0.~
## $ WTBS_007 <dbl> 0.0000, 862.4944, 436.5577, 0.0000, 0.0000, 437.4520, 5011.71~
## $ WTBS 008 <dbl> 0.0000, 811.5883, 0.0000, 2417.7361, 328.9031, 382.9706, 0.00~
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\$ WTBS 009 <dbl> 7922.0427, 0.0000, 494.3463, 5985.1268, 271.4713, 0.0000, 0.0~ ## \$ WTBS_010 <dbl> 0.0000, 893.1134, 2388.7294, 0.0000, 301.5156, 0.0000, 0.0000~ ## \$ WTBS 011 <dbl> 0.0000, 2202.8294, 550.4691, 5886.8911, 675.2346, 0.0000, 0.0~ ## \$ WTBS_012 <dbl> 0.0000, 1811.4760, 1499.4297, 2804.1926, 286.2656, 370.6977, ~ ## \$ WTBS_013 <dbl> 8210.8925, 990.0971, 0.0000, 0.0000, 878.1738, 0.0000, 6523.6~ ## \$ WTBS 014 <dbl> 3840.5942, 913.9506, 556.0487, 0.0000, 0.0000, 328.1486, 0.00~ ## \$ WTBS 015 <dbl> 3311.7241, 2957.3152, 1481.1421, 0.0000, 294.7996, 403.1231, ~ ## \$ WTBS 016 <dbl> 0.0000, 2784.9262, 0.0000, 0.0000, 0.0000, 538.0719, 0.0000, ## \$ WTBS_017 <dbl> 0.0000, 1040.9743, 0.0000, 5689.3107, 0.0000, 274.0347, 6537.~ ## \$ WTBS_018 <dbl> 0.0000, 0.0000, 550.3119, 2326.1390, 465.8732, 278.8259, 2615~ ## \$ WTBS_019 <dbl> 4786.4693, 0.0000, 1105.2310, 3070.3221, 325.6457, 0.0000, 0.~ ## \$ WTBS_020 <dbl> 2702.0533, 0.0000, 1069.7442, 0.0000, 0.0000, 0.0000, 3361.75~ ## \$ WTBS_021 <dbl> 6092.8977, 1073.9855, 0.0000, 0.0000, 587.9608, 0.0000, 7062.~ ## \$ WTBS_022 <dbl> 4096.8728, 0.0000, 540.5944, 11487.5446, 0.0000, 0.0000, 0.00~ ## \$ WTBS_023 <dbl> 5055.0806, 0.0000, 0.0000, 0.0000, 0.0000, 288.2070, 3457.877~ ## \$ WTBS_024 <dbl> 0.0000, 976.0322, 560.2333, 2798.7489, 0.0000, 0.0000, 3329.7~ ## \$ WTBS_025 <dbl> 8804.8892, 0.0000, 976.3483, 4996.8152, 0.0000, 263.6141, 0.0~ ## \$ WTBS 026 <dbl> 3803.8439, 0.0000, 437.0265, 2168.5167, 356.1472, 659.0732, 0~ ## \$ WTBS_027 <dbl> 0.0000, 2134.7196, 0.0000, 4808.6540, 470.5550, 547.4857, 0.0~ ## \$ WTBS 028 <dbl> 4489.5988, 983.9725, 0.0000, 2775.7504, 369.4242, 582.1986, 0~ ## \$ WTBS_029 <dbl> 0.0000, 0.0000, 0.0000, 2476.2012, 0.0000, 419.7302, 2958.564~ ## \$ WTBS 030 <dbl> 2191.2145, 3386.2832, 1060.6184, 2468.0172, 339.7468, 247.329~ ## \$ WTBS_031 <dbl> 2400.8641, 926.7884, 0.0000, 0.0000, 608.5747, 518.7552, 9200~ ## \$ WTBS 032 <dbl> 0.0000, 0.0000, 584.1307, 0.0000, 316.8473, 0.0000, 0.0000, 0~ ## \$ WTBS 033 <dbl> 0.0000, 0.0000, 1611.8842, 8209.7706, 957.6252, 1461.8635, 28~ ## \$ WTBS 034 <dbl> 0.0000, 1103.7234, 514.3572, 2176.9622, 242.8724, 0.0000, 271~ ## \$ WTBS_035 <dbl> 0.0000, 2937.9451, 586.4965, 0.0000, 614.4209, 0.0000, 5722.4~ ## \$ WTBS_036 <dbl> 0.0000, 0.0000, 483.3431, 0.0000, 0.0000, 0.0000, 2839.3076, ~ ## \$ WTBS_037 <dbl> 3245.0319, 1118.0841, 586.1900, 0.0000, 1058.0507, 628.0913, ~ ## \$ WTBS_038 <dbl> 5735.7360, 843.0626, 0.0000, 2945.1330, 281.2337, 0.0000, 247~ ## \$ WTBS_039 <dbl> 5547.0895, 845.0164, 937.3218, 3149.8591, 850.7008, 639.7596,~ ## \$ WTBS_040 <dbl> 1908.7046, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 3955.9349,~ ## \$ WTBS_041 <dbl> 0.0000, 0.0000, 1070.4929, 11550.9943, 989.6924, 595.9356, 25~ ## \$ WTBS_042 <dbl> 4400.9751, 0.0000, 635.5093, 3918.2266, 367.8055, 288.7322, 0~ ## \$ WTBS 043 <dbl> 0.0000, 2011.6831, 540.6088, 0.0000, 324.8370, 0.0000, 3039.1~ ## \$ WTBS_044 <dbl> 2793.4256, 1064.7190, 559.0931, 2606.1962, 706.3891, 0.0000, ~ ## \$ WTBS 045 <dbl> 2220.6096, 2207.3059, 928.5087, 4125.9265, 312.6391, 0.0000, ~ ## \$ WTBS_046 <dbl> 0.0000, 0.0000, 545.9937, 2821.0253, 0.0000, 0.0000, 4803.008~ ## \$ WTBS 047 <dbl> 0.0000, 0.0000, 0.0000, 5550.7191, 318.5361, 282.7919, 0.0000~ ## \$ WTBS_048 <dbl> 6648.4038, 0.0000, 564.8750, 6966.1333, 233.9766, 327.1915, 4~ ## \$ WTBS 049 <db1> 8285.0971, 1057.4747, 0.0000, 2803.7817, 305.4879, 492.1831, ~ ## \$ WTBS 050 <dbl> 2048.1267, 1055.3032, 492.8109, 5981.0432, 322.7636, 203.7853~ ## \$ WTBS_051 <dbl> 5100.4640, 1715.6746, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, ~ ## \$ WTBS_052 <dbl> 5903.1354, 1136.0597, 2106.2059, 5302.9849, 563.6153, 566.421~ ## \$ WTBS_053 <dbl> 2658.5542, 1600.8126, 547.4371, 0.0000, 0.0000, 0.0000, 5669.~ ## \$ WTBS_054 <dbl> 0.0000, 982.7820, 0.0000, 0.0000, 0.0000, 0.0000, 7137.4556, ~ ## \$ WTBS_055 <dbl> 0.0000, 0.0000, 1512.8636, 6599.3845, 0.0000, 792.0497, 3816.~ ## \$ WTBS_056 <dbl> 7207.2211, 835.2216, 0.0000, 6352.4344, 587.6292, 544.2213, 0~ ## 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\$ WTBS 117 <dbl> 0.0000, 918.9896, 524.9614, 2306.2136, 609.2240, 0.0000, 0.00~ ## \$ WTBS_118 <dbl> 5294.6498, 1773.1459, 0.0000, 2123.0776, 472.2824, 322.0340, ~ ## \$ WTBS 119 <dbl> 2277.0645, 0.0000, 1178.1654, 5416.4416, 396.4355, 0.0000, 0.~ ## \$ WTBS_120 <dbl> 0.0000, 965.4553, 558.8360, 0.0000, 605.1292, 0.0000, 3082.48~ ## \$ WTBS_121 <dbl> 2484.3011, 0.0000, 0.0000, 0.0000, 367.7186, 434.2201, 2553.1~ ## \$ WTBS 122 <db1> 5038.3554, 0.0000, 0.0000, 2321.4382, 766.8315, 0.0000, 3983.~ ## \$ WTBS 123 <db1> 4660.4245, 908.4954, 1164.3754, 2669.3963, 0.0000, 231.3926, ~ ## \$ WTBS 124 <dbl> 2632.0156, 943.5948, 496.1667, 0.0000, 0.0000, 0.0000, 0.0000~ ## \$ WTBS_125 <dbl> 0.0000, 2701.7569, 571.9658, 0.0000, 372.4644, 0.0000, 5681.3~ ## \$ WTBS_126 <dbl> 4082.9324, 2798.2062, 0.0000, 5110.5725, 588.3516, 311.3493, ~ ## \$ WTBS_127 <dbl> 2619.0814, 1768.0835, 1522.0426, 2238.0757, 520.5399, 931.198~ ## \$ WTBS_128 <dbl> 0.0000, 0.0000, 0.0000, 0.0000, 315.2907, 0.0000, 0.0000, 407~ ## 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\$ WTBS 225 <db1> 0.0000, 807.9085, 0.0000, 5201.5370, 0.0000, 0.0000, 0.0000, ~ ## \$ WTBS_226 <dbl> 2747.9003, 956.3826, 534.5480, 0.0000, 607.8523, 0.0000, 4126~ ## \$ WTBS 227 <dbl> 4707.2161, 964.6332, 527.0950, 4578.5116, 335.9745, 378.3745,~ ## \$ WTBS_228 <dbl> 2214.2238, 1080.7920, 0.0000, 5662.0279, 281.0661, 0.0000, 30~ ## \$ WTBS_229 <dbl> 4336.1093, 0.0000, 0.0000, 5134.1687, 323.8475, 259.8907, 0.0~ ## \$ WTBS 230 <dbl> 6711.3123, 1780.4940, 523.1991, 6242.3763, 380.4507, 739.7571~ ## \$ WTBS 231 <dbl> 2744.6618, 0.0000, 0.0000, 2312.7930, 0.0000, 0.0000, 3742.69~ ## \$ WTBS 232 <dbl> 4277.9512, 1992.3270, 632.1052, 5302.5494, 289.2438, 0.0000, ~ ## \$ WTBS_233 <dbl> 3042.3545, 2954.7092, 1549.6271, 6095.0724, 693.1908, 398.346~ ## \$ WTBS_234 <dbl> 2563.6854, 886.5985, 1583.0062, 2256.0294, 307.5412, 0.0000, ~ ## \$ WTBS_235 <dbl> 0.0000, 0.0000, 1124.0449, 0.0000, 940.3377, 0.0000, 5197.428~ ## \$ WTBS_236 <dbl> 0.0000, 0.0000, 456.5558, 0.0000, 0.0000, 326.2588, 5906.7144~ ## 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\$ WTBS 249 <dbl> 0.0000, 1119.9442, 0.0000, 2505.1675, 633.8482, 685.7818, 0.0~ ## \$ WTBS 250 <dbl> 5212.7123, 0.0000, 622.2764, 5762.0045, 282.7728, 998.5266, 8~ ## \$ WTBS_251 <dbl> 0.0000, 0.0000, 650.5432, 0.0000, 291.4586, 361.1182, 9094.04~ ## \$ WTBS_252 <dbl> 0.0000, 0.0000, 1831.8221, 4798.9712, 286.1586, 0.0000, 0.000~ ## \$ WTBS_253 <dbl> 3007.2327, 1045.2322, 0.0000, 2820.4095, 0.0000, 0.0000, 0.00~ ## \$ WTBS 254 <dbl> 0.0000, 1853.2934, 0.0000, 7356.4576, 317.6634, 582.6681, 338~ ## \$ WTBS_255 <dbl> 9421.5324, 0.0000, 602.2076, 5368.4524, 504.8373, 270.4165, 0~ ## \$ WTBS_256 <dbl> 9636.9166, 0.0000, 0.0000, 2715.9037, 281.2578, 298.9643, 760~ ## \$ WTBS_257 <dbl> 2212.8472, 0.0000, 513.3135, 5608.9649, 296.2099, 872.8904, 0~ ## \$ WTBS_258 <dbl> 2873.1713, 1884.7355, 1476.8159, 6552.6012, 889.5755, 0.0000,~ ## \$ WTBS 259 <dbl> 0.0000, 0.0000, 0.0000, 2435.2577, 0.0000, 239.3186, 11084.35~ ## \$ WTBS_260 <dbl> 2688.6488, 946.7402, 0.0000, 2697.6255, 734.7534, 0.0000, 314~ ## \$ WTBS 261 <dbl> 0.0000, 879.6940, 536.6297, 4273.7742, 347.5332, 738.6583, 10~ ## \$ WTBS_262 <dbl> 0.0000, 962.2452, 634.5413, 2713.7713, 0.0000, 0.0000, 0.0000~ ## \$ WTBS_263 <dbl> 0.0000, 0.0000, 1481.1164, 0.0000, 336.7341, 572.8467, 7142.2~ ## \$ WTBS_264 <dbl> 3194.3486, 0.0000, 0.0000, 2547.6373, 265.1173, 534.8696, 289~ ## \$ WTBS 265 <dbl> 3351.5944, 0.0000, 1629.6449, 0.0000, 697.2230, 305.4453, 310~ ## \$ WTBS 266 <dbl> 0.0000, 1011.9692, 0.0000, 1916.1393, 0.0000, 0.0000, 3071.75~ ## \$ WTBS_267 <dbl> 3953.7055, 0.0000, 537.4131, 2170.9399, 0.0000, 679.1667, 840~ ## \$ WTBS_268 <dbl> 1975.2151, 786.5046, 527.9818, 0.0000, 0.0000, 0.0000, 0.0000~ ## \$ WTBS_269 <dbl> 7930.2364, 0.0000, 1531.3145, 3638.0146, 770.1966, 610.7752, ~ ## \$ WTBS_270 <dbl> 13512.3343, 1926.5594, 577.7748, 3151.8031, 0.0000, 598.7124,~ ## \$ WTBS_271 <dbl> 2953.5223, 1874.0567, 0.0000, 4549.2251, 338.7165, 0.0000, 0.~ ## \$ WTBS_272 <dbl> 3343.4303, 0.0000, 545.4646, 2655.4704, 302.2136, 330.9516, 3~ ## \$ WTBS_273 <dbl> 0.0000, 3189.3086, 545.9447, 2655.2707, 628.2938, 0.0000, 791~ ## \$ WTBS_274 <dbl> 0.0000, 782.7026, 1152.2506, 2618.1793, 0.0000, 965.4443, 510~ ## \$ WTBS_275 <dbl> 5684.3646, 0.0000, 556.2741, 3405.1711, 543.0777, 0.0000, 320~ ## \$ WTBS_276 <dbl> 6821.9869, 1125.0303, 546.9832, 3951.6876, 0.0000, 291.6022, ~ ## \$ WTBS_277 <dbl> 2991.9595, 1843.1385, 545.7172, 5305.7460, 1105.9015, 274.052~ ## \$ WTBS 278 <dbl> 3779.4239, 0.0000, 0.0000, 0.0000, 490.6214, 537.8417, 0.0000~ ## \$ WTBS 279 <dbl> 6461.9693, 0.0000, 1058.4033, 2541.3033, 258.7619, 0.0000, 79~ ## \$ WTBS_280 <dbl> 0.0000, 886.2296, 437.3410, 5519.8314, 0.0000, 0.0000, 0.0000~ ## \$ WTBS 281 <dbl> 0.0000, 0.0000, 0.0000, 0.0000, 302.3995, 330.8440, 0.0000, 6~ ## \$ WTBS_282 <dbl> 0.0000, 969.1447, 0.0000, 5100.2945, 359.0628, 1039.4153, 0.0~ ## \$ WTBS 283 <dbl> 0.0000, 941.7890, 0.0000, 3632.3126, 1353.0216, 0.0000, 5689.~ ## \$ WTBS 284 <dbl> 2394.6812, 863.5526, 555.1818, 0.0000, 293.3470, 0.0000, 2902~ ## \$ WTBS 285 <dbl> 6790.1992, 1144.3005, 637.9667, 5858.8971, 249.7371, 0.0000, ~ ## \$ WTBS 286 <dbl> 0.0000, 907.9015, 0.0000, 2581.7167, 800.5574, 0.0000, 0.0000~ ## \$ WTBS_287 <dbl> 2168.9410, 2998.5434, 1046.1638, 2801.5102, 1119.6686, 258.45~ ## \$ WTBS_288 <dbl> 0.0000, 0.0000, 487.3399, 2877.8832, 0.0000, 514.9220, 6387.9~ ## \$ WTBS_289 <dbl> 3421.9205, 0.0000, 537.0138, 3651.5487, 0.0000, 0.0000, 3243.~ ## \$ WTBS_290 <dbl> 0.0000, 1490.0168, 571.4635, 0.0000, 478.4369, 285.1458, 0.00~ ## \$ WTBS_291 <dbl> 6044.5689, 2090.6128, 1448.0801, 3165.7687, 0.0000, 0.0000, 2~ ## \$ WTBS_292 <dbl> 3672.3214, 2073.5816, 0.0000, 0.0000, 0.0000, 658.7047, 4995.~ ## \$ WTBS_293 <dbl> 5841.9965, 880.2182, 522.1535, 0.0000, 272.6213, 0.0000, 0.00~ ## \$ WTBS_294 <dbl> 1634.1639, 1084.4750, 0.0000, 5788.9358, 0.0000, 238.5173, 24~ ## \$ WTBS_295 <dbl> 0.0000, 0.0000, 0.0000, 6657.3781, 238.4619, 675.6791, 0.0000~ ## \$ WTBS 296 <dbl> 2414.4407, 1900.9941, 1519.2211, 0.0000, 276.0921, 659.0022, ~ ## \$ WTBS_297 <dbl> 0.0000, 1027.8359, 548.2654, 5537.0098, 281.1117, 1091.7239, ^ ## \$ WTBS_298 <dbl> 2598.4666, 0.0000, 1036.1248, 2712.4701, 269.1868, 0.0000, 38~ ## \$ WTBS_299 <dbl> 2196.4635, 1028.6882, 475.9954, 0.0000, 631.3178, 0.0000, 410~ ## \$ WTBS 300 <dbl> 0.0000, 809.0698, 0.0000, 2177.9203, 670.3715, 379.6967, 2989~ ## \$ WTBS_301 <dbl> 0.0000, 0.0000, 564.4890, 3023.8022, 0.0000, 661.7672, 0.0000~ ## \$ WTBS 302 <dbl> 3371.2372, 0.0000, 505.7135, 0.0000, 1313.8125, 249.7744, 0.0~ ## \$ WTBS_303 <dbl> 2506.1847, 0.0000, 1108.6249, 0.0000, 316.4768, 582.9063, 501~ ## \$ WTBS 304 <dbl> 2394.3477, 0.0000, 1002.0227, 9938.0190, 0.0000, 321.0174, 53~ ## \$ WTBS_305 <dbl> 4604.2727, 0.0000, 609.9310, 2326.7001, 1166.5592, 297.9170, ~ ## \$ WTBS_306 <dbl> 1628.7980, 3060.9186, 953.4759, 0.0000, 647.5204, 0.0000, 0.0~ ## \$ WTBS_307 <dbl> 3177.5177, 0.0000, 518.2161, 0.0000, 349.6265, 761.8192, 9491~ ## \$ WTBS_308 <dbl> 7631.9476, 0.0000, 567.5958, 4678.3550, 414.7657, 863.2973, 0~ ## 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\$ WTBS_321 <dbl> 3617.9911, 881.2611, 0.0000, 0.0000, 575.0644, 257.3656, 0.00~ ## \$ WTBS_322 <dbl> 3712.8133, 1087.2986, 527.0315, 2253.2577, 0.0000, 0.0000, 31~ ## \$ WTBS_323 <dbl> 0.0000, 0.0000, 1137.8657, 3159.2343, 0.0000, 813.5975, 0.000~ ## \$ WTBS_324 <dbl> 2417.3148, 1008.2612, 538.4671, 0.0000, 0.0000, 0.0000, 5960.~ ## \$ WTBS_325 <dbl> 2707.8328, 0.0000, 0.0000, 5535.7491, 295.4974, 483.7749, 291~ ## \$ WTBS_326 <dbl> 7650.6737, 1890.6458, 0.0000, 0.0000, 264.9253, 0.0000, 6119.~ ## \$ WTBS_327 <dbl> 3216.5149, 2031.9836, 474.3305, 4413.3073, 271.2782, 0.0000, ~ ## \$ WTBS_328 <dbl> 9508.0290, 0.0000, 709.7092, 0.0000, 581.7994, 600.3224, 6640~ ## \$ WTBS_329 <dbl> 5355.2317, 990.4462, 0.0000, 0.0000, 264.4262, 263.7391, 3991~ ## \$ WTBS_330 <dbl> 4049.3759, 1934.9078, 979.0490, 0.0000, 320.2067, 0.0000, 335~ ## \$ WTBS_331 <dbl> 0.0000, 0.0000, 0.0000, 0.0000, 350.6538, 483.2888, 0.0000, 0~ ## \$ WTBS 332 <dbl> 0.0000, 0.0000, 0.0000, 6059.7882, 307.1439, 539.0086, 0.0000~ ## 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\$ WTBS 369 <dbl> 2942.1785, 917.4144, 0.0000, 2647.4267, 0.0000, 0.0000, 0.000~ ## \$ WTBS_370 <dbl> 3237.6609, 0.0000, 957.3916, 11384.8722, 0.0000, 273.4156, 25~ ## \$ WTBS_371 <dbl> 7235.1800, 0.0000, 0.0000, 1939.3951, 716.2986, 635.7887, 445~ ## \$ WTBS_372 <dbl> 0.0000, 2188.3640, 455.5723, 2857.5234, 0.0000, 0.0000, 3112.~ ## \$ WTBS 373 <db1> 4723.6762, 966.6054, 1001.4105, 0.0000, 282.7744, 1045.6928, ~ ## \$ WTBS 374 <dbl> 0.0000, 1888.8970, 473.1173, 0.0000, 936.4788, 671.7970, 0.00~ ## \$ WTBS_375 <dbl> 0.0000, 1480.5579, 600.1249, 2286.3080, 559.8918, 0.0000, 0.0~ ## \$ WTBS_376 <dbl> 0.0000, 0.0000, 1422.8565, 7878.6489, 297.3114, 376.1763, 0.0~ ## \$ WTBS_377 <dbl> 0.0000, 901.0006, 0.0000, 0.0000, 0.0000, 415.6571, 4844.2179~ ## \$ WTBS_378 <dbl> 9072.2406, 1096.4080, 987.0446, 0.0000, 0.0000, 277.0093, 0.0~ ## \$ WTBS_379 <dbl> 2423.0698, 938.8460, 0.0000, 7302.0484, 592.2461, 270.2282, 3~ ## \$ WTBS_380 <dbl> 6723.9625, 922.4544, 0.0000, 7520.4689, 0.0000, 1056.2807, 33~ ## \$ WTBS_381 <dbl> 2931.0562, 905.8188, 0.0000, 0.0000, 0.0000, 310.1923, 0.0000~ ## \$ WTBS_382 <dbl> 6727.5570, 890.4173, 511.8809, 0.0000, 0.0000, 288.6655, 4642~ ## \$ WTBS_383 <dbl> 2916.1803, 948.4649, 0.0000, 2849.7806, 280.9399, 222.9353, 0~ ## \$ WTBS_384 <dbl> 0.0000, 961.3276, 0.0000, 0.0000, 341.7083, 295.4848, 0.0000,~ ## \$ WTBS_385 <dbl> 2097.5113, 0.0000, 530.3258, 0.0000, 0.0000, 276.4080, 0.0000~ ## \$ WTBS 386 <dbl> 0.0000, 2037.9298, 0.0000, 2598.7187, 619.2255, 216.3684, 0.0~ ## \$ WTBS 387 <dbl> 3060.5106, 0.0000, 2035.9046, 4497.9281, 331.7880, 0.0000, 26~ ## \$ WTBS_388 <dbl> 0.0000, 0.0000, 530.3543, 0.0000, 0.0000, 0.0000, 0.0000, 0.0~ ## \$ WTBS 389 <dbl> 0.0000, 1763.1658, 1087.7351, 3097.8198, 1041.4251, 0.0000, 0~ ## \$ WTBS_390 <dbl> 4396.4235, 996.9175, 0.0000, 0.0000, 274.6601, 426.5447, 3218~ ## \$ WTBS_391 <dbl> 4606.6221, 0.0000, 1287.8192, 0.0000, 312.2655, 265.7752, 0.0~ ## \$ WTBS 392 <dbl> 2806.6644, 965.1025, 604.9852, 2514.7907, 0.0000, 0.0000, 314~ ## \$ WTBS 393 <dbl> 0.0000, 0.0000, 531.4334, 2957.6438, 0.0000, 258.6439, 0.0000~ ## \$ WTBS 394 <dbl> 2099.7614, 972.2959, 0.0000, 4653.8275, 733.6659, 760.0388, 0~ ## \$ WTBS_395 <dbl> 2295.8943, 1039.7610, 505.8531, 7848.7840, 0.0000, 0.0000, 36~ ## \$ WTBS_396 <dbl> 2565.8908, 1004.3847, 0.0000, 0.0000, 307.8773, 748.6714, 984~ ## \$ WTBS_397 <dbl> 2802.7589, 0.0000, 0.0000, 2254.1892, 1073.8546, 246.3827, 31~ ## \$ WTBS_398 <dbl> 0.0000, 869.7881, 1732.9726, 0.0000, 288.5338, 217.3893, 3201~ ## \$ WTBS_399 <dbl> 2864.2342, 2999.3244, 0.0000, 0.0000, 540.9532, 593.2534, 708~ ## \$ WTBS_400 <dbl> 0.0000, 960.7962, 0.0000, 9008.6691, 646.3909, 0.0000, 0.0000~ ## \$ WTBS_401 <dbl> 0.0000, 0.0000, 568.3688, 2056.7155, 269.5850, 0.0000, 0.0000~ ## \$ WTBS_402 <dbl> 5857.7553, 853.0826, 1710.0552, 6506.2919, 998.3132, 0.0000, ~ ## \$ WTBS_403 <dbl> 9226.1221, 1695.8201, 0.0000, 4843.1322, 0.0000, 0.0000, 0.00~ ## \$ WTBS 404 <dbl> 3891.7202, 1001.3190, 0.0000, 3997.0650, 624.7921, 642.6074, ~ ## \$ WTBS_405 <dbl> 2221.6737, 883.3850, 0.0000, 0.0000, 0.0000, 281.7124, 4115.5~ ## \$ WTBS 406 <dbl> 2038.2449, 1969.2706, 0.0000, 0.0000, 645.0376, 0.0000, 3017.~ ## \$ WTBS_407 <dbl> 7339.7629, 0.0000, 548.4032, 2851.9217, 269.3708, 0.0000, 0.0~ ## \$ WTBS_408 <dbl> 0.0000, 902.2681, 529.1377, 2996.2105, 948.1012, 255.3608, 28~ ## \$ WTBS_409 <dbl> 2908.4395, 1806.8478, 0.0000, 0.0000, 0.0000, 287.8616, 0.000~ ## \$ WTBS 410 <dbl> 7399.3515, 0.0000, 1172.8028, 5174.8552, 468.8387, 0.0000, 0.~ ## \$ WTBS 411 <dbl> 0.0000, 1011.3720, 530.4418, 0.0000, 0.0000, 803.5416, 0.0000~ ## \$ WTBS 412 <dbl> 2276.8973, 0.0000, 0.0000, 3351.9459, 0.0000, 818.6517, 2672.~ ## \$ WTBS_413 <dbl> 0.0000, 1022.1123, 0.0000, 5981.6537, 0.0000, 542.4473, 3476.~ ## \$ WTBS_414 <dbl> 1822.5164, 2891.1467, 0.0000, 0.0000, 0.0000, 738.6843, 3152.~ ## \$ WTBS_415 <dbl> 0.0000, 0.0000, 520.6589, 2963.3845, 304.9485, 290.1358, 9511~ ## \$ WTBS_416 <dbl> 2574.2297, 0.0000, 0.0000, 2774.8732, 332.2532, 0.0000, 0.000~ ## \$ WTBS_417 <dbl> 0.0000, 991.1381, 1028.7104, 3796.4560, 0.0000, 367.9064, 914~ ## \$ WTBS_418 <dbl> 2168.2493, 845.9268, 1123.5453, 6618.0730, 560.3766, 822.6452~ ## \$ WTBS_419 <dbl> 0.0000, 2982.5802, 939.0400, 5591.6084, 335.2946, 587.7744, 4~ ## \$ WTBS_420 <dbl> 0.0000, 783.9863, 0.0000, 5412.0343, 719.4806, 579.4737, 2476~ ## \$ WTBS_421 <dbl> 1862.5802, 0.0000, 0.0000, 0.0000, 379.0174, 0.0000, 3090.888~ ## \$ WTBS_422 <db1> 8724.7849, 940.3867, 998.3259, 4395.7805, 308.8598, 0.0000, 0~ ## \$ WTBS 423 <dbl> 9092.5864, 920.6721, 560.6143, 0.0000, 364.7145, 0.0000, 2566~ ## \$ WTBS_424 <dbl> 0.0000, 900.7280, 1567.2869, 4762.5522, 0.0000, 405.2960, 0.0~ ## \$ WTBS_425 <dbl> 3234.1940, 1867.5328, 0.0000, 0.0000, 383.9937, 0.0000, 3226.~ ## \$ WTBS_426 <dbl> 0.0000, 936.6530, 524.1114, 2606.9015, 0.0000, 636.5602, 5505~ ## \$ WTBS 427 <dbl> 5660.2176, 2583.4295, 494.3914, 5197.2259, 320.4378, 329.9469~ ## \$ WTBS 428 <db1> 8836.8039, 0.0000, 571.7779, 0.0000, 0.0000, 0.0000, 0.0000, ~ ## \$ WTBS_429 <dbl> 0.0000, 877.5165, 461.0107, 2987.5665, 304.3314, 416.8411, 33~ ## \$ WTBS_430 <dbl> 2476.5421, 0.0000, 496.1700, 4569.7153, 0.0000, 473.5390, 367~ ## \$ WTBS_431 <dbl> 1936.4067, 0.0000, 515.0130, 0.0000, 814.7253, 454.2798, 5894~ ## \$ WTBS_432 <dbl> 5278.6650, 830.7368, 630.4253, 6784.4237, 593.5514, 0.0000, 3~ ## \$ WTBS_433 <dbl> 0.0000, 1984.2087, 1228.0751, 6548.4846, 317.2419, 0.0000, 28~ ## \$ WTBS_434 <dbl> 0.0000, 950.6746, 592.7020, 7841.0285, 478.0408, 609.2856, 0.~ ## \$ WTBS_435 <dbl> 2650.8841, 994.2563, 1009.0794, 0.0000, 319.0064, 0.0000, 360~ ## \$ WTBS_436 <dbl> 3458.8667, 1138.2503, 0.0000, 2978.3997, 289.8734, 0.0000, 0.~ ## \$ WTBS_437 <dbl> 3556.0528, 1733.9010, 0.0000, 0.0000, 337.9007, 236.7622, 0.0~ ## \$ WTBS_438 <dbl> 2343.1499, 1110.7001, 0.0000, 0.0000, 1001.1649, 634.2699, 0.~ ## \$ WTBS 439 <dbl> 3020.7196, 0.0000, 487.4144, 0.0000, 305.5606, 742.6138, 0.00~ ## \$ WTBS 440 <dbl> 0.0000, 997.0567, 503.4325, 2591.3399, 307.9150, 0.0000, 0.00~ ## \$ WTBS 441 <dbl> 8283.4941, 0.0000, 0.0000, 0.0000, 0.0000, 265.1712, 5256.843~ ## \$ WTBS_442 <dbl> 0.0000, 3967.8785, 1030.3031, 0.0000, 0.0000, 0.0000, 0.0000,~ ## \$ WTBS 443 <dbl> 0.0000, 1781.5876, 566.4281, 2481.1248, 320.0502, 0.0000, 363~ ## \$ WTBS_444 <dbl> 0.0000, 3533.5508, 1068.0089, 0.0000, 540.7098, 0.0000, 3976.~ ## \$ WTBS_445 <dbl> 4065.8336, 1996.0541, 0.0000, 0.0000, 315.7265, 271.9700, 468~ ## \$ WTBS_446 <dbl> 4490.0076, 883.6674, 426.1155, 0.0000, 822.4283, 0.0000, 2908~ ## \$ WTBS 447 <dbl> 3343.9777, 785.6020, 935.7139, 0.0000, 304.6151, 240.1009, 29~ ## \$ WTBS 448 <dbl> 0.0000, 0.0000, 0.0000, 2510.6054, 942.9663, 303.9545, 0.0000~ ## \$ WTBS_449 <dbl> 3918.0683, 1029.4015, 0.0000, 0.0000, 0.0000, 671.3729, 12070~ ## \$ WTBS_450 <dbl> 0.0000, 0.0000, 459.5486, 2145.7752, 0.0000, 252.6824, 3210.1~ ## \$ WTBS_451 <dbl> 0.0000, 0.0000, 1649.9465, 0.0000, 0.0000, 289.6674, 8385.164~ ## \$ WTBS_452 <dbl> 6354.2889, 0.0000, 495.1521, 2421.9020, 612.9358, 339.2388, 0~ ## \$ WTBS_453 <dbl> 4991.0598, 1736.1742, 605.3684, 0.0000, 601.8860, 0.0000, 442~ ## \$ WTBS_454 <db1> 0.0000, 2705.3398, 432.3779, 0.0000, 0.0000, 0.0000, 0.0000, ~ ## \$ WTBS_455 <dbl> 2770.3611, 994.0668, 1057.5035, 0.0000, 320.3150, 0.0000, 713~ ## \$ WTBS_456 <dbl> 0.0000, 974.2868, 0.0000, 4932.5603, 282.0872, 370.3501, 0.00~ ## \$ WTBS_457 <dbl> 7080.3107, 0.0000, 1105.5934, 5583.7506, 315.8687, 981.9374, ~ ## \$ WTBS 458 <dbl> 0.0000, 937.4879, 568.8536, 0.0000, 347.5187, 255.2760, 2807.~ ## \$ WTBS_459 <dbl> 3521.7204, 1996.8393, 541.6049, 7657.6763, 0.0000, 261.0618, ~ ## \$ WTBS 460 <dbl> 2623.2220, 961.7776, 1027.9450, 7793.3980, 0.0000, 709.3506, ~ ## \$ WTBS_461 <dbl> 3655.0427, 0.0000, 0.0000, 0.0000, 251.6824, 292.9144, 0.0000~ ## \$ WTBS 462 <dbl> 3234.1489, 0.0000, 596.8550, 0.0000, 285.7511, 531.1621, 0.00~ ## \$ WTBS_463 <dbl> 2966.0673, 953.2472, 566.1644, 7297.9177, 254.3136, 891.2163,~ ## \$ WTBS 464 <dbl> 0.0000, 992.2508, 514.2258, 0.0000, 246.3298, 241.5757, 0.000~ ## \$ WTBS 465 <dbl> 5791.6841, 0.0000, 0.0000, 2877.1189, 641.9744, 257.6515, 0.0~ ## \$ WTBS 466 <dbl> 4056.5241, 1755.5350, 0.0000, 0.0000, 0.0000, 541.0631, 6200.~ ## \$ WTBS_467 <dbl> 2008.6803, 0.0000, 534.0265, 0.0000, 744.2170, 356.4583, 2594~ ## \$ WTBS_468 <dbl> 0.0000, 1118.2585, 520.4641, 0.0000, 248.9628, 0.0000, 0.0000~ ## \$ WTBS_469 <dbl> 5585.5576, 0.0000, 0.0000, 4458.5265, 0.0000, 544.7812, 0.000~ ## \$ WTBS_470 <dbl> 0.0000, 0.0000, 546.5177, 7841.3757, 0.0000, 678.7890, 2888.1~ ## \$ WTBS_471 <dbl> 0.0000, 904.8384, 0.0000, 0.0000, 0.0000, 600.8470, 0.0000, 1~ ## \$ WTBS_472 <dbl> 3680.5096, 956.4202, 557.6797, 3449.2923, 347.5574, 0.0000, 2~ ## \$ WTBS_473 <dbl> 4903.4074, 2769.0059, 1748.9547, 2744.3078, 0.0000, 405.5050,~ ## \$ WTBS_474 <dbl> 4208.9060, 1806.4926, 1202.0288, 5368.0022, 0.0000, 341.1118,~ ## \$ WTBS 475 <dbl> 7028.6508, 4344.1253, 0.0000, 2794.2064, 0.0000, 0.0000, 3691~ ## \$ WTBS_476 <dbl> 0.0000, 949.5188, 584.5279, 6332.0176, 673.8847, 0.0000, 0.00~ ## \$ WTBS 477 <dbl> 0.0000, 1994.6992, 517.3981, 7518.1217, 290.4071, 0.0000, 0.0~ ## \$ WTBS_478 <dbl> 0.0000, 996.4011, 570.4762, 0.0000, 598.6327, 0.0000, 5772.52~ ## \$ WTBS_479 <dbl> 0.0000, 946.4337, 0.0000, 6034.5731, 0.0000, 655.9358, 2499.2~ ## \$ WTBS_480 <dbl> 0.0000, 0.0000, 0.0000, 9326.7694, 588.6740, 371.5285, 3995.5~ ## \$ WTBS 481 <dbl> 8486.0471, 1880.0484, 1217.6283, 2924.2891, 0.0000, 478.9901,~ ## \$ WTBS 482 <dbl> 3133.9437, 967.0742, 0.0000, 2026.1440, 356.7806, 737.9675, 3~ ## \$ WTBS 483 <dbl> 2602.8079, 1844.1912, 494.8542, 3009.4700, 653.5631, 259.4127~ ## \$ WTBS_484 <dbl> 0.0000, 0.0000, 0.0000, 2083.9131, 594.8751, 0.0000, 0.0000, ~ ## \$ WTBS_485 <dbl> 8277.0078, 2169.7840, 538.1495, 0.0000, 0.0000, 449.7132, 394~ ## \$ WTBS_486 <dbl> 0.0000, 816.2923, 0.0000, 2545.6244, 328.8860, 0.0000, 2137.0~ ## \$ WTBS_487 <dbl> 0.0000, 0.0000, 471.5791, 2477.5504, 512.4321, 416.3528, 0.00~ ## \$ WTBS_488 <dbl> 2341.4773, 865.0782, 0.0000, 5910.9924, 335.1046, 0.0000, 0.0~ ## \$ WTBS_489 <dbl> 1870.5439, 0.0000, 1025.3345, 2263.1077, 567.0900, 837.1196, ~ ## \$ WTBS_490 <dbl> 3986.2168, 2080.6081, 0.0000, 4197.9913, 0.0000, 524.7107, 13~ ## \$ WTBS_491 <dbl> 0.0000, 953.9591, 0.0000, 0.0000, 272.9662, 852.4945, 6561.51~ ## \$ WTBS_492 <dbl> 3717.5490, 959.3292, 0.0000, 0.0000, 294.2843, 0.0000, 4830.3~ ## \$ WTBS 493 <dbl> 4480.3572, 0.0000, 0.0000, 2408.4193, 341.1610, 0.0000, 0.000~ ## \$ WTBS 494 <dbl> 5037.7680, 1919.3675, 522.2923, 2435.1799, 506.5591, 0.0000, ~

```
## $ WTBS_495 <dbl> 4895.5585, 952.4731, 0.0000, 0.0000, 0.0000, 284.8291, 7903.0~
## $ WTBS_496 <dbl> 5226.5730, 0.0000, 2536.6184, 4616.8112, 0.0000, 0.0000, 3046~
## $ WTBS_497 <dbl> 8290.5548, 0.0000, 0.0000, 2267.9956, 0.0000, 0.0000, 3082.59~
## $ WTBS_498 <dbl> 2489.4551, 1956.1373, 616.9312, 2457.4982, 0.0000, 554.2389, ~
## $ WTBS_499 <dbl> 0.0000, 0.0000, 546.1335, 5719.5993, 0.0000, 0.0000, 3212.394~
## $ WTBS_500 <dbl> 2380.1798, 2257.7389, 0.0000, 5404.4878, 359.1155, 679.1276, ~
```

```
missing_table <- miss_var_summary(data)
missing_table</pre>
```

Understand the nature of missing data

```
## # A tibble: 1,316 x 3
##
      variable n miss pct miss
                 <int>
##
      <chr>
                           <num>
##
    1 PUMFID
                      0
                                0
##
    2 WGHT PER
                      0
                                0
                      0
                                0
##
    3 AGEC
##
    4 AGEDC
                      0
                                0
##
    5 AGEGR5
                      0
                                0
##
    6 AGEGR10
                      0
                                0
##
    7 SEX
                      0
                                0
##
    8 MARSTAT
                      0
                                0
                                0
##
    9 SEXPR
                      0
## 10 PRTYPEC
                      0
                                0
## # i 1,306 more rows
```

• We can see that the missing data has been accounted for via special missing values. These will need to be dealt with for the variables of interest.

Define Research Question and Recode Key Variables

- This analysis will aim to answer the questions 1) What percentage of Canadians aged between 14-49 intend to have a child in the next 3 years? and 2) Does this vary by self-rated physical health?
- The sample will be limited to those aged under 50 (AGEC) and who (or whose spouse) have not been told that they cannot have any(more) biological children (Respondent = FI_140, Spouse = FI_240: 1 = Yes, 2 = No).
- The primary independent variable (CH3YRS) will use a survey question (FI_105) that asked "do you intend to have a(nother) child within the next 3 years?
- Drop missing data from variables of interest. Usually, a data imputation method would be used to handle missing data, but for the purposes of this exercise, drop the missing values from the dataframe.

Remove those over age 50 and those who or (whose spouse) have been told they cannot have any(more) biological children

```
#Remove respondents over age 50
glimpse(data$AGEC) #view variable
```

```
## num [1:20602] 55 40 64 18 62 44 32 65 56 25 ...
```

```
summary(data$AGEC)
##
     Min. 1st Qu. Median Mean 3rd Qu.
                                              Max.
                   54.00 51.71
                                   66.00
##
     15.00 37.00
                                             80.00
#Remove those over age 50
data <- data |> subset(AGEC < 50)</pre>
#View variable after change
glimpse(data$AGEC)
## num [1:8927] 40 18 44 32 25 40 20 29 23 16 ...
summary(data$AGEC)
                             Mean 3rd Qu.
##
      Min. 1st Qu. Median
                                              Max.
##
      15.0
             28.0
                      35.0
                              34.2
                                      42.0
                                              49.0
#Exclude if respondent or spouse has been told they cannot have any(more) bio children. 1 = Has bee tol
glimpse(data$FI_140)
## num [1:8927] 6 2 2 2 2 2 2 6 6 ...
summary(data$FI_140)
##
      Min. 1st Qu. Median
                             Mean 3rd Qu.
                                              Max.
           2.00
                     2.00
                              3.45
                                      6.00
                                              8.00
##
#Assign missing values (6-9)
data <- data |>
 replace_with_na(replace = list(FI_140 = c(6, 7, 8, 9)))
#Remove those who responded yes
data <- data |> subset(FI_140 != 1)
#View variable to ensure this worked as intended
summary(data$FI_140)
##
      Min. 1st Qu. Median
                              Mean 3rd Qu.
                                              Max.
         2
                2
                                 2
##
                                         2
table(data$FI_140)
##
##
      2
## 5496
#Do the same for the spouse (FI_240)
glimpse(data$FI_240)
## num [1:5496] 6 2 6 2 2 2 6 2 2 2 ...
```

```
summary(data$FI_240)
##
     Min. 1st Qu. Median
                              Mean 3rd Qu.
                                              Max.
##
     1.000
           2.000
                    2.000
                             3.409
                                     6.000
                                             9.000
#Assign missing values (6-9)
data <- data |>
 replace_with_na(replace = list(FI_240 = c(6, 7, 8, 9)))
#Remove those who responded yes
data <- data |> subset(FI_240 != 1)
#View variable to ensure this worked as intended
summary(data$FI 240)
##
                              Mean 3rd Qu.
     Min. 1st Qu.
                    Median
                                              Max.
##
                         2
table(data$FI 240)
##
##
      2
## 3530
Create a binary outcome variable, "CH3YRS" to reflect fertility intentions (Yes/No) within
the next 3 years
#View variable to examine structure
glimpse(data$FI_105)
   num [1:3530] 4 2 5 3 4 4 1 3 1 2 ...
summary(data$FI_105)
     Min. 1st Qu. Median
                              Mean 3rd Qu.
                                              Max.
##
     1.000
             2.000
                     3.000
                             3.076
                                     4.000
                                             8.000
table(data$FI_105)
##
##
           2
                     4
                          5
                               6
                                    7
                                         8
      1
                3
## 551 652 678 1310 319
                              11
#We can tell based on the codebook that 1 = Definitely yes, 2 = Probably yes, 3 = Probably Not, 4 = No,
data <- data |>
 replace_with_na(replace = list(FI_105 = c(6, 7, 8, 9)))
summary(data$FI_105) #view variable to ensure this worked
##
     Min. 1st Qu. Median
                              Mean 3rd Qu.
                                              Max.
                                                      NA's
##
     1.000
            2.000
                     3.000
                             3.055
                                     4.000
                                             5.000
                                                         20
```

```
#Now I will transform this variable into yes/no variable, CH3YRS
data <- data |>
  mutate(CH3YRS = case_when(
   FI_{105} == 1 ~"1_{Yes}",
    FI_105 == 2 ~ "1_Yes",
   FI_105 == 3 ~ "2_No",
   FI_105 == 4 ~ "2_No",
    FI 105 == 5 \sim "2 No",
    FI_105 == 6 \sim "2_No",
  ))
table(data$FI_105, data$CH3YRS) #compare old and new variable to ensure recode worked as intended
##
##
       1_Yes 2_No
##
        551
     1
         652
##
##
          0 678
    3
##
     4
           0 1310
##
     5
           0 319
#view new variable to ensure it looks as intended
glimpse(data$CH3YRS)
   chr [1:3530] "2_No" "1_Yes" "2_No" "2_No" "2_No" "2_No" "1_Yes" "2_No" ...
data$CH3YRS <- as.factor(data$CH3YRS) #recode as factor variable
summary(data$CH3YRS)
## 1_Yes 2_No NA's
## 1203 2307
                  20
table(data$CH3YRS)
## 1_Yes 2_No
## 1203 2307
data$FI_105 <- NULL #Remove old variable</pre>
Recode the primary independent variable, Self-Rated Physical Health (SRPH using codebook
variable SRH_110)
```

```
#View variable
glimpse(data$SRH_110)

## num [1:3530] 3 2 4 2 3 8 2 2 1 3 ...
```

```
summary(data$SRH_110)
##
      Min. 1st Qu. Median
                             Mean 3rd Qu.
                                              Max.
                    2.000
##
     1.000
           1.000
                             2.146
                                     3.000
                                             9.000
table(data$SRH 110)
##
##
                               7
      1
           2
                3
                          5
                                         9
## 995 1371 954 158
                         28
                               3
                                    7
                                        14
#The "Don't know," "refusal," and "not stated" responses (6-9) need to be designated as missing
data <- data |>
 replace_with_na(replace = list(SRH_110 = c(6, 7, 8, 9)))
summary(data$SRH_110) #view variable to ensure this worked
##
      Min. 1st Qu. Median
                              Mean 3rd Qu.
                                                      NA's
                                              Max.
##
           1.000
                    2.000
                             2.102
                                     3.000
                                             5.000
#This variable is originally coded as 5 = poor and 1 = excellent, but for ease of interpretation, I will
data <- data |>
 mutate(SRPH = case_when(
   SRH_110 == 1 ~ "5_Excellent",
   SRH_110 == 2 ~ "4_Very Good",
   SRH_110 == 3 \sim "3_{Good"}
   SRH 110 == 4 ~ "2 Fair",
   SRH 110 == 5 ~ "1 Poor",
 ))
glimpse(data$SRPH) # View recoded variable
## chr [1:3530] "3_Good" "4_Very Good" "2_Fair" "4_Very Good" "3_Good" NA ...
data$SRPH <- as.factor(data$SRPH) #Recode as factor variable
#View old variable and new to make sure recode processed correctly, view new variable
table(data$SRH_110, data$SRPH)
##
##
       1_Poor 2_Fair 3_Good 4_Very Good 5_Excellent
                                                995
##
     1
            0
                   0
                          0
##
     2
            0
                   0
                          0
                                   1371
                                                  0
                                                  0
##
    3
            0
                   0
                        954
                                      0
##
     4
            0
                 158
                          0
                                      0
                                                  0
##
     5
           28
                   0
                          0
glimpse(data$SRPH)
```

Factor w/ 5 levels "1_Poor","2_Fair",...: 3 4 2 4 3 NA 4 4 5 3 ...

```
summary(data$SRPH)
                               3_Good 4_Very Good 5_Excellent
##
       1 Poor
                   2 Fair
                                                                     NA's
##
           28
                      158
                                  954
                                             1371
                                                          995
                                                                       24
data$SRH_110 <- NULL #Remove old variable</pre>
Age, measured in whole numbers (Codebook variable AGEC)
#Since there are multiple measures of age (Groups of 5/10-year intervals, a whole number version, and a
data$AGEDC <- NULL</pre>
data$AGEGR5 <- NULL</pre>
data$AGEGR10 <- NULL
#View the variable to confirm it does not need recoding
glimpse(data$AGEC)
## num [1:3530] 44 25 40 20 29 44 29 21 36 29 ...
summary(data$AGEC)
##
     Min. 1st Qu. Median
                             Mean 3rd Qu.
                                             Max.
##
    18.00
            29.00
                    34.00
                            34.59
                                    40.00
                                            49.00
table(data$AGEC) #There are no missing data on this one.
##
  18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37
##
        2 40 44 73
                       67 89
                               98 114 124 130 161 195 168 163 156 164 179 176 145
## 38 39 40 41 42 43 44 45 46 47
                                              49
                                           48
## 140 121 138 113 118 108 117 93 92 69 70 62
Sex
#View variable
glimpse(data$SEX)
## num [1:3530] 2 1 2 1 2 2 2 2 1 1 ...
summary(data$SEX)
##
     Min. 1st Qu. Median
                             Mean 3rd Qu.
                                             Max.
##
           1.000
                    2.000
                            1.543
                                    2.000
                                            2.000
table(data$SEX) #There are no missing data on this variable.
##
##
     1
```

1613 1917

```
#For ease of interpretation, I am adding labels to this variable.
data <- data |>
 mutate(SEX = case_when(
   SEX == 1 ~ "1_Male",
   SEX == 2 ~ "2 Female"
 ))
data$SEX <- as.factor(data$SEX) #recode as factor variable</pre>
glimpse(data$SEX) # View recoded variable
## Factor w/ 2 levels "1_Male","2_Female": 2 1 2 1 2 2 2 2 1 1 ...
summary(data$SEX)
##
     1 Male 2 Female
      1613
##
               1917
Martial Status
#View variable
glimpse(data$MARSTAT)
## num [1:3530] 1 6 1 2 1 1 1 6 2 6 ...
summary(data$MARSTAT)
##
     Min. 1st Qu. Median
                              Mean 3rd Qu.
                                              Max.
           1.000
                    1.000
                                     2.000
                                             6.000
##
     1.000
                             2.153
table(data$MARSTAT) #There are no remaining missing data after we removed those out of scope of this an
##
##
     1
           2
                3
                    4
                          5
## 2055 800
                2
                    29
                         42 602
#This variable has multiple categories that effectually mean "no longer married" for various reasons. F
data <- data |>
 mutate(MARSTAT = case_when(
   MARSTAT == 1 ~ "1_Married",
   MARSTAT == 2 ~ "2_Common Law",
   MARSTAT == 3 ~ "3_Widowed/Separated/Divorced",
   MARSTAT == 4 ~ "3_Widowed/Separated/Divorced",
   MARSTAT == 5 ~ "3_Widowed/Separated/Divorced",
   MARSTAT == 6 ~ "4_Single",
 ))
data$MARSTAT <- as.factor(data$MARSTAT) #recode as factor variable
glimpse(data$MARSTAT) # View recoded variable
```

Factor w/ 4 levels "1_Married","2_Common Law",..: 1 4 1 2 1 1 1 4 2 4 ...

```
summary(data$MARSTAT)
##
                      1_Married
                                                2_Common Law
                                                         800
##
                           2055
## 3_Widowed/Separated/Divorced
                                                    4_Single
##
                                                         602
Education level (EDULVL, using codebook variable EHG3_01B)
#View variable
glimpse(data$EHG3_01B)
## num [1:3530] 6 2 6 4 1 4 6 4 6 7 ...
summary(data$EHG3_01B)
##
     Min. 1st Qu. Median
                              Mean 3rd Qu.
                                              Max.
     1.000
           3.000
                   4.000
                             6.221
                                     6.000 99.000
table(data$EHG3_01B)
##
##
                               6
                3
                          5
                                                  99
## 109 590 255 836 131 1045 502
                                                  52
#The "Don't know," "refusal," and "not stated" responses (96-99) need to be accounted as missing
data <- data %>%
 replace_with_na(replace = list(EHG3_01B = c(96, 97, 98, 99)))
summary(data$EHG3_01B) #check to make sure this worked
##
     Min. 1st Qu. Median
                                                      NA's
                              Mean 3rd Qu.
                                              {\tt Max.}
     1.000 3.000 4.000
                             4.567 6.000
                                             7.000
                                                        62
#This variable has multiple categories that effectually mean "post-secondary education below the bachel
data <- data |>
 mutate(EDULVL = case_when(
   EHG3_01B == 1 \sim "1_Less than H.S.",
   EHG3_01B == 2 \sim "2_H.S/Equiv",
   EHG3_01B == 3 \sim "3_P.S under Bach",
   EHG3_01B == 4 \sim "3_P.S under Bach",
   EHG3_01B == 5 ~ "3_P.S under Bach",
   EHG3_01B == 6 ~ "4_Bach Degree",
   EHG3_01B == 7 \sim "5_Post Bach Lvl",
  ))
glimpse(data$EDULVL) # View recoded variable
```

chr [1:3530] "4_Bach Degree" "2_H.S/Equiv" "4_Bach Degree" ...

```
data$EDULVL <- as.factor(data$EDULVL) #Recode as factor variable</pre>
#View old variable and new to make sure recode processed correctly, view new variable
table(data$EHG3_01B, data$EDULVL)
##
##
       1_Less than H.S. 2_H.S/Equiv 3_P.S under Bach 4_Bach Degree 5_Post Bach Lvl
##
     1
                    109
##
     2
                      0
                                 590
                                                    0
                                                                   0
                                                                                    0
##
     3
                      0
                                   0
                                                   255
                                                                   0
                                                                                    0
                      0
                                                                                    0
##
     4
                                   0
                                                   836
                                                                   0
##
     5
                      0
                                   0
                                                   131
                                                                   0
                                                                                    0
                      0
                                   0
                                                                                    0
##
     6
                                                    0
                                                                1045
##
                                   0
                                                     0
                                                                   0
                                                                                  502
glimpse(data$EDULVL)
  Factor w/ 5 levels "1_Less than H.S.",..: 4 2 4 3 1 3 4 3 4 5 ...
summary(data$EDULVL)
## 1_Less than H.S.
                         2_H.S/Equiv 3_P.S under Bach
                                                           4_Bach Degree
##
                109
                                  590
                                                   1222
                                                                    1045
                                 NA's
##
   5_Post Bach Lvl
##
                502
                                   62
data$EHG3_01B <- NULL #Remove old variable</pre>
Drop missing values from variables of interest (CH3YRS, SRPH, AGEC, SEX, MARSTAT,
EDULVL)
data <- data |>
 filter(
    !is.na(CH3YRS),
    !is.na(SRPH),
    !is.na(AGEC),
    !is.na(SEX),
    !is.na(MARSTAT),
    !is.na(EDULVL),
#View variables to ensure this worked
summary(data$CH3YRS)
## 1_Yes 2_No
## 1184 2252
summary(data$SRPH)
##
        1 Poor
                    2_Fair
                                 3_Good 4_Very Good 5_Excellent
##
            28
                       151
                                    937
                                               1351
                                                             969
```

```
summary(data$AGEC)
##
     Min. 1st Qu. Median
                             Mean 3rd Qu.
                                              Max.
##
     18.00
           29.00
                    34.00
                             34.58
                                     40.00
                                             49.00
summary(data$MARSTAT)
##
                      1_Married
                                                2_Common Law
##
                           1996
                                                         780
## 3 Widowed/Separated/Divorced
                                                    4 Single
                                                         590
summary(data$EDULVL)
## 1_Less than H.S.
                         2_H.S/Equiv 3_P.S under Bach
                                                         4_Bach Degree
                106
                                 581
                                                 1213
                                                                  1040
## 5_Post Bach Lvl
                496
##
```

Create a table to display the percent and count for the CH3YRS variable by EDULVL variable, called "edulvl_table

```
edulvl_table <- data |>
  count(CH3YRS, EDULVL) |>
  group_by(CH3YRS) |>
 mutate(percent = round(100 * n / sum(n), 1)) |>
 ungroup() |>
  select(-n) |>
  pivot_wider(names_from = CH3YRS, values_from = percent) |>
  gt() |>
  tab_header(
   title = "Descriptive Statistics by Fertility Intention by Education Level",
   subtitle = "Percent distribution"
  ) |>
  cols_label(
   EDULVL = "Education Level",
   "1_Yes" = "Yes",
   "2 No" = "No"
  ) |>
  tab_options(
   table.background.color = "#4D4E53",
  tab_footnote(md("*Data from 2017 GSS, Statistics Canada
                  N = 4,164*")
edulvl_table
```

```
#Save table
gtsave(edulvl_table, "/Users/leahj/Desktop/CAnD3/CAnD3/CAnD3_RWork/RRWM Exercise/CAnD3-RRWM-Exercise/Ta
```

Descriptive Statistics by Fertility Intention by Education Level

I CIC	CIIU	aist		10101	L	
			,			

Education Level	Yes	No
1_Less than H.S.	3.0	3.1
2_H.S/Equiv	15.7	17.5
3_P.S under Bach	36.3	34.8
4_Bach Degree	29.5	30.7
5_Post Bach Lvl	15.5	13.9

Data from 2017 GSS, Statistics Canada N = 4,164

Logistic Regression (Output = CH3YRS, Input = SRPH, SEX, EDULVL, MARSTAT, AGEC) with table displaying results, seed set at 567 for replicability purposes, capture session info

```
set.seed(567) #set the seed for replicability purposes
# Run logistic regression
LogRegressionModel <- glm(CH3YRS ~ SRPH + SEX + EDULVL + MARSTAT + AGEC,
             data = data,
             family = binomial)
# Tidy the model output
LogR_table <- tidy(LogRegressionModel, exponentiate = TRUE, conf.int = TRUE)</pre>
# Display results in a formatted table
LogR_table <- LogR_table |>
  select(term, estimate, conf.low, conf.high, p.value) |>
   Term = term,
   OR = estimate,
    `CI Lower` = conf.low,
   `CI Upper` = conf.high,
   `P-value` = p.value
  ) |>
  gt() |>
  tab_header(
   title = "Logistic Regression Results",
   subtitle = "Predicting Fertility Intentions"
  ) |>
  tab_options(
   table.background.color = "#4D4E53",
  tab_footnote(md("*Data from 2017 GSS, Statistics Canada
                  N = 4,164*")
LogR_table
```

Logistic Regression Results Predicting Fertility Intentions

Term	OR	CI Lower	CI Upper	P-value
(Intercept)	0.04661904	0.01561024	0.1540393	1.136639e-07
SRPH2_Fair	0.69635992	0.23389979	1.8244038	4.836591 e-01
SRPH3_Good	0.68985523	0.24325827	1.6923092	4.457035 e-01
SRPH4_Very Good	0.71235275	0.25178756	1.7423183	4.847350 e-01
SRPH5_Excellent	0.60166934	0.21223752	1.4754284	2.965044e-01
SEX2_Female	1.40961082	1.21284726	1.6389579	7.807017e-06
EDULVL2_H.S/Equiv	1.23155080	0.76458820	1.9610669	3.850058e-01
EDULVL3_P.S under Bach	0.87942757	0.55589119	1.3726360	5.764483e-01
EDULVL4_Bach Degree	0.87015791	0.54745874	1.3646964	5.496309e-01
EDULVL5_Post Bach Lvl	0.66604131	0.41008535	1.0685484	9.554294e-02
MARSTAT2_Common Law	1.18968483	0.98625897	1.4372298	7.052279e-02
MARSTAT3_Widowed/Separated/Divorced	2.11059575	1.13908468	4.2309370	2.444107e-02
MARSTAT4_Single	2.99287365	2.36594575	3.8017493	1.270679e-19
AGEC	1.11868940	1.10442065	1.1334420	1.796765e-64

Data from 2017 GSS, Statistics Canada N = 4,164

[9] tailor_0.1.0

[13] modeldata_1.5.1

```
#save table
gtsave(LogR_table, "/Users/leahj/Desktop/CAnD3/CAnD3/CAnD3_RWork/RRWM Exercise/CAnD3-RRWM-Exercise/Tabl
#Document session info
sessionInfo()
## R version 4.5.1 (2025-06-13)
## Platform: aarch64-apple-darwin20
## Running under: macOS Tahoe 26.0.1
## Matrix products: default
## BLAS: /Library/Frameworks/R.framework/Versions/4.5-arm64/Resources/lib/libRblas.0.dylib
## LAPACK: /Library/Frameworks/R.framework/Versions/4.5-arm64/Resources/lib/libRlapack.dylib; LAPACK v
##
## locale:
## [1] en_US.UTF-8/en_US.UTF-8/en_US.UTF-8/C/en_US.UTF-8/en_US.UTF-8
## time zone: America/Regina
## tzcode source: internal
## attached base packages:
## [1] stats
                graphics grDevices utils
                                              datasets methods
                                                                  base
## other attached packages:
## [1] naniar_1.1.0
                                             kableExtra_1.4.0
                                                                knitr_1.50
                          gt_1.1.0
## [5] yardstick_1.3.2 workflowsets_1.1.1 workflows_1.3.0
                                                                tune_2.0.0
```

recipes_1.3.1

 $dials_1.4.2$

parsnip_1.3.3

scales_1.4.0

rsample_1.3.1

infer_1.0.9

```
## [17] broom_1.0.10
                           tidymodels_1.4.1
                                               lubridate_1.9.4
                                                                   forcats_1.0.1
## [21] stringr_1.5.2
                           dplyr_1.1.4
                                               purrr_1.1.0
                                                                   readr_2.1.5
## [25] tidyr_1.3.1
                           tibble_3.3.0
                                               ggplot2_4.0.0
                                                                   tidyverse_2.0.0
##
## loaded via a namespace (and not attached):
  [1] rlang 1.1.6
                            magrittr 2.0.4
                                                 furrr_0.3.1
   [4] compiler 4.5.1
                            systemfonts 1.2.3
                                                 vctrs 0.6.5
## [7] lhs 1.2.0
                            pkgconfig_2.0.3
                                                 crayon_1.5.3
## [10] fastmap_1.2.0
                            backports_1.5.0
                                                 utf8 1.2.6
## [13] rmarkdown_2.29
                            prodlim_2025.04.28
                                                 markdown_2.0
## [16] tzdb_0.5.0
                            visdat_0.6.0
                                                 bit_4.6.0
## [19] xfun_0.53
                            litedown_0.7
                                                 parallel_4.5.1
## [22] R6_2.6.1
                            stringi_1.8.7
                                                 RColorBrewer_1.1-3
## [25] parallelly_1.45.1
                            rpart_4.1.24
                                                 Rcpp_1.1.0
## [28] future.apply_1.20.0 Matrix_1.7-4
                                                 splines_4.5.1
## [31] nnet_7.3-20
                            timechange_0.3.0
                                                 tidyselect_1.2.1
## [34] rstudioapi_0.17.1
                            yaml_2.3.10
                                                 timeDate_4041.110
## [37] codetools 0.2-20
                            listenv 0.9.1
                                                 lattice 0.22-7
## [40] withr_3.0.2
                                                 evaluate_1.0.5
                            S7_0.2.0
## [43] future_1.67.0
                            survival_3.8-3
                                                 xm12 1.4.0
## [46] pillar_1.11.1
                            generics_0.1.4
                                                 vroom_1.6.6
## [49] hms 1.1.3
                            commonmark_2.0.0
                                                 globals_0.18.0
## [52] class_7.3-23
                            glue_1.8.0
                                                 tools_4.5.1
## [55] data.table 1.17.8
                            gower_1.0.2
                                                 fs 1.6.6
## [58] grid_4.5.1
                            ipred_0.9-15
                                                 cli_3.6.5
## [61] DiceDesign_1.10
                                                 viridisLite_0.4.2
                            textshaping_1.0.3
## [64] svglite_2.2.1
                            lava_1.8.1
                                                 gtable_0.3.6
## [67] GPfit_1.0-9
                            sass_0.4.10
                                                 digest_0.6.37
## [70] farver_2.1.2
                            htmltools_0.5.8.1
                                                 lifecycle_1.0.4
                            bit64_4.6.0-1
                                                 MASS_7.3-65
## [73] hardhat_1.4.2
```

writeLines(capture.output(sessionInfo()), "session_info.txt")

#Save to a file