

Sample Meta Analysis

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Read in data

```
Papers <- read.csv("https://docs.google.com/spreadsheets/d/1E835bqD22qP185Ha8hae8L9j1jM-v6lgBY3Q5d3AboU...")

Papers$PerkWh <- as.numeric(Papers$PerkWh)
Papers$MW <- as.numeric(Papers$MW)

summary(Papers)
```

```
##              ID      TotalBenefitM      PerkWh      MW
## AZ 2013 (Crossborder) :1      Min.      :-370.0      Min.      :1.000      Min.      :1.0
## AZ 2016 (Crossborder) :1      1st Qu.: -32.0      1st Qu.:2.500      1st Qu.:2.5
## CA 2010 (Crossborder) :1      Median :   7.0      Median :4.000      Median :4.0
## CA 2010 (E3)           :1      Mean   : -39.3      Mean   :3.714      Mean   :4.0
## CA 2013 (E3)           :1      3rd Qu.: 56.5      3rd Qu.:5.000      3rd Qu.:5.5
## NV 2014 (E3)           :1      Max.    : 92.2      Max.    :6.000      Max.    :7.0
## NV 2016 (E3)           :1      NA's     :1
##      InRPS      SocialTrue      TimeHorizon      Export
## Mode :logical      Mode :logical      Min.      :20.00      Export      :3
## FALSE:3      FALSE:4      1st Qu.:20.00      ExportSelf:4
## TRUE :4      TRUE :3      Median :20.00
## NA's :0      NA's :0      Mean   :21.43
##              3rd Qu.:22.50
##              Max.    :25.00
##
##      TDIncluded      State      Firm
## Mode :logical      AZ:2      Crossborder:3
## FALSE:1      CA:3      E3      :4
## TRUE :6      NV:2
## NA's :0
##
##
##
```

Simple meta analysis

```
sampleMeta<-lm(PerkWh~InRPS+ Export+ Firm, data=Papers)

summary(sampleMeta)
```

```
##
## Call:
## lm(formula = PerkWh ~ InRPS + Export + Firm, data = Papers)
##
## Residuals:
##      1      2      3      4      5      6      7
```

```
## 0.1429 -0.2857 1.9286 -2.0714 0.1429 -1.9286 2.0714
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)      3.4286      1.9605   1.749   0.179
## InRPSTRUE        -0.5714      1.9605  -0.291   0.790
## ExportExportSelf  1.4286      1.9605   0.729   0.519
## FirmE3           -0.3571      1.8075  -0.198   0.856
##
## Residual standard error: 2.32 on 3 degrees of freedom
## Multiple R-squared:  0.1691, Adjusted R-squared:  -0.6618
## F-statistic: 0.2035 on 3 and 3 DF,  p-value: 0.8881
```