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#R Code to extract data for the top worst power outages days, as well as Winter Storm Uri

# install.packages("data.table") # if needed
library(data.table)

# 1) Read data
dt <- fread("county_daily_peak_with_percent.csv", na.strings = c("", "NA"))

# Ensure date is properly parsed (YYYY-MM-DD)
dt[, date := as.IDate(as.character(date), format = "%Y-%m-%d")]

# 2) Dates to export (use underscores for filenames, convert to dashes for matching)
date_tags <- c(
  "2020_06_11","2020_08_11","2021_02_16","2021_08_30","2021_08_11","2023_02_23",
  "2020_08_27","2020_10_10","2021_12_16","2022_08_30","2020_10_29"
)

date_map <- data.table(
  tag  = date_tags,
  dval = as.IDate(gsub("_", "-", date_tags))
)

# 3) Loop and write one CSV per date (include *all* rows for the date)
for (i in seq_len(nrow(date_map))) {
  dtag <- date_map$tag[i]
  dval <- date_map$dval[i]

  # Subset all rows for the date
  sub <- dt[date == dval]

  # File name pattern: county_daily_peak_YYYY_MM_DD.csv
  outfile <- sprintf("county_daily_peak_%s.csv", dtag)

  fwrite(sub, outfile)
}
```