FNS-905 Summer Sites Report

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1 - Set Up	
<pre>rm(list = ls(all.names = T)) #clear all objects from environment. options(max.print=100) ##limit output. start.time <- Sys.time() ## Log start time. options(scipen=999) ##prohibit use of scientific notation gc() ## free up memory and report the memory usage. curr_date <- as.numeric(format(Sys.Date(), "%Y%m%d")) # Format date as numeric # date <- as.Date(date) # Use this code if date format is to be kept library(janitor) library(tidyverse)</pre>	

```
library(openxlsx)
library(readr)
library(readxl)
```

2 - Data Import and Prep

2.1 - Merge Lat & Long

Note: When transitioning between school years, it may be necessary download both the new SY & the previous SY of Data1027 & Data1026.

```
## Import Previous submission, clean names, remove extraneous columns
previous_submission <- read_excel(paste0("P:/1_Internal/Reports/Summer/USDA 543a_FNS 905/2022_post COVI
  clean_names %>%
  select(-c(so_o:map_y))
## Import both sheets of the Geocode Master List, clean names, rename long and lat to match FNS-905 Tem
sso <- read_excel(</pre>
  "P:/1_Internal/Reports/Summer/USDA 543a_FNS 905/Geocode Master List_CURRENT.xlsx",
  sheet = 1) %>%
  clean names %>%
  rename(soo_x = latitude,
         soo_y = longitude) %>%
  rename(state_site_id_number = site_number) %% # Rename unique ID in order to merge()
  select(state_site_id_number, soo_x, soo_y)
sfsp <- read_excel(</pre>
  "P:/1_Internal/Reports/Summer/USDA 543a_FNS 905/Geocode Master List_CURRENT.xlsx",
  sheet = 2) %>%
  clean_names %>%
  rename(soo_x = latitude,
         soo_y = longitude) %>%
  rename(state_site_id_number = site_number) %% # Rename unique ID in order to merge()
  select(state_site_id_number, soo_x, soo_y)
# Import Data1026 & Data1027, latin encoding, clean names, merge long and lat coordinates
data1026_sfsp <- read_csv(</pre>
  "H:/Downloads/Data1026 (70).csv", locale = locale(encoding = "Latin1")) %>%
  clean_names %>%
  select(site_name:state_sponsor_id_number, last_modified_date) %>%
  merge(sfsp, by = "state_site_id_number", all.x = T)
data1027_sso <- read_csv(</pre>
  "H:/Downloads/Data1027 - 2022-07-15T091136.119.csv", locale = locale(encoding = "Latin1")) %>%
  clean_names %>%
  select(site_name:state_sponsor_id_number, last_modified_date) %>%
  relocate(last_modified_date) %>%
  merge(sso, by = "state_site_id_number", all.x = T)
# Note: When transitioning between school years, it may be necessary download
# both the new SY & the previous SY of Data1027 & Data1026. If the previous SY
# has sites with end dates that are in the future, check to see if those sites
# are in the current year's data. If not, both schools years should be imported.
```

```
# After importing both years, combine the data. For Example:

# data1026 <- rbind(data1026 (1), data1026 (2))

# data1027 <- rbind(data1027 (1), data1027 (2))
```

2.2 - Combine 1026 & 1027

```
# Combine Data1026 & Data1027
all<-rbind(data1027_sso, data1026_sfsp)
```

2.3 - Format Dates

```
# Format Dates
all$end_date_mm_dd_yy <- format(as.Date(all$end_date_mm_dd_yy, "%m/%d/%Y"))
all$start_date_mm_dd_yy <- format(as.Date(all$start_date_mm_dd_yy, "%m/%d/%Y"))
all$last_modified_date <- format(as.Date(all$last_modified_date, "%m/%d/%Y"))</pre>
```

2.4 - Address Corrections

```
# RICH JR HIGH/NRES
all[which(all$state_site_id_number == "24-304"), grep("site_name", colnames(all))]
all[which(all$site_name == "RICH JR HIGH/NRES"), grep("state_site_id_number", colnames(all))]
all[which(all$state_site_id_number == "24-304"), grep("site_address1", colnames(all))]
all[which(all$state_site_id_number =="24-304"), grep("site_address1", colnames(all))] <- "54 E 100 S"
all[which(all$state_site_id_number == "24-304"), grep("site_address1", colnames(all))]
# NORTH SUMMIT HIGH
all[which(all$state_site_id_number == "21-704"), grep("site_name", colnames(all))]
all[which(all\site_name == "NORTH SUMMIT HIGH"), grep("state_site_id_number", colnames(all))]
all[which(all$state_site_id_number == "21-704"), grep("site_address1", colnames(all))]
all[which(all$state_site_id_number =="21-704"), grep("site_address1", colnames(all))] <- "53 S 100 E"
all[which(all$state_site_id_number == "21-704"), grep("site_address1", colnames(all))]
# NORTH SUMMIT ELEMENTARY
all[which(all$state_site_id_number == "21-110"), grep("site_name", colnames(all))]
all[which(all\site_name == "NORTH SUMMIT ELEMENTARY"), grep("state_site_id_number", colnames(all))]
all[which(all$state_site_id_number == "21-110"), grep("site_address1", colnames(all))]
all[which(all$state_site_id_number =="21-110"), grep("site_address1", colnames(all))] <- "240 S BEACON "
all[which(all$state site id number == "21-110"), grep("site address1", colnames(all))]
# NORTH SUMMIT MIDDLE
all[which(all$state_site_id_number == "21-304"), grep("site_name", colnames(all))]
all[which(all$site_name == "NORTH SUMMIT MIDDLE"), grep("state_site_id_number", colnames(all))]
all[which(all$state_site_id_number == "21-304"), grep("site_address1", colnames(all))]
all[which(all$state_site_id_number =="21-304"), grep("site_address1", colnames(all))] <- "76 S 100 E"
all[which(all$state_site_id_number == "21-304"), grep("site_address1", colnames(all))]
# BLUE PEAK HIGH
all[which(all$state_site_id_number == "30-740"), grep("site_name", colnames(all))]
all[which(all$site_name == "BLUE PEAK HIGH"), grep("state_site_id_number", colnames(all))]
all[which(all$state_site_id_number == "30-740"), grep("site_address1", colnames(all))]
```

```
all[which(all$state_site_id_number =="30-740"), grep("site_address1", colnames(all))] <- "211 South Too
all[which(all$state_site_id_number == "30-740"), grep("site_address1", colnames(all))]
# NAA TSIS' AAN COMMUNITY SCHOOL
all[which(all$state_site_id_number == "Q8-1"), grep("site_name", colnames(all))]
all[which(all$state_site_id_number == "Q8-1"), grep("site_address1", colnames(all))]
all[which(all$state_site_id_number == "Q8-1"), grep("site_city", colnames(all))]
all[which(all$state_site_id_number == "Q8-1"), grep("site_city", colnames(all))] <- "Tonalea"
all[which(all$state_site_id_number == "Q8-1"), grep("site_zip", colnames(all))]
all[which(all$state_site_id_number == "Q8-1"), grep("site_zip", colnames(all))] <- 86044
all[which(all$state_site_id_number == "Q8-1"), grep("site_address1", colnames(all))] <- "24 Highway 98"
all[which(all$state_site_id_number == "Q8-1"), grep("site_address1", colnames(all))]
# GROUSE CREEK SCHOOL
all[which(all$site_name == "GROUSE CREEK SCHOOL"), grep("state_site_id_number", colnames(all))]
all[which(all$state_site_id_number == "03-140"), grep("site_name", colnames(all))]
all[which(all$state_site_id_number == "03-140"), grep("site_address1", colnames(all))]
all[which(all$state_site_id_number == "03-140"), grep("site_address1", colnames(all))] <- "76785 W 1190"
all[which(all$state_site_id_number == "03-140"), grep("site_address1", colnames(all))]
# BELKNAP ELEMENTARY
all[which(all$state_site_id_number == "02-104"), grep("site_name", colnames(all))]
all[which(all$state_site_id_number == "02-104"), grep("site_address1", colnames(all))]
all[which(all$state_site_id_number == "02-104"), grep("site_address1", colnames(all))] <- "510 North 65"
all[which(all$state site id number == "02-104"), grep("site address1", colnames(all))]
#BEAVER HIGH
all[which(all$state_site_id_number == "02-704"), grep("site_name", colnames(all))]
all[which(all$state_site_id_number == "02-704"), grep("site_address1", colnames(all))]
all[which(all$state_site_id_number == "02-704"), grep("site_address1", colnames(all))] <- "195 E CENTER
all[which(all$state_site_id_number == "02-704"), grep("site_address1", colnames(all))]
# WELLINGTON ELEMENTARY
all[which(all$state_site_id_number == "05-154"), grep("site_name", colnames(all))]
all[which(all$state_site_id_number == "05-154"), grep("site_address1", colnames(all))]
all[which(all$state_site_id_number == "05-154"), grep("site_address1", colnames(all))] <- "250 W 200 N"
all[which(all$state_site_id_number == "05-154"), grep("site_address1", colnames(all))]
# BLUFF ELEMENTARY
all[which(all$site_name == "BLUFF ELEMENTARY"), grep("state_site_id_number", colnames(all))]
all[which(all$state_site_id_number == "25-108"), grep("site_name", colnames(all))]
all[which(all$state_site_id_number =="25-108"), grep("site_address1", colnames(all))]
all[which(all$state_site_id_number == "25-108"), grep("site_address1", colnames(all))] <- "Old Main Hig
all[which(all$state_site_id_number == "25-108"), grep("site_address1", colnames(all))]
```

3 - Filter Inactive Sites

```
active <- all %>%
  relocate(state_site_id_number, .before = state_sponsor_id_number) %>%
  filter(end_date_mm_dd_yy >= Sys.Date()+1) %>%
  filter(start_date_mm_dd_yy <= Sys.Date()+30)</pre>
```

```
refresh_active <- active
refresh_all <- all
nrow(all)
nrow(active)</pre>
```

4 - Edit Checks

4.1 - Duplicate Site Numbers

```
active$b<-duplicated(active$state_site_id_number, fromLast = F)
active$a<-duplicated(active$state_site_id_number, fromLast = T)
active$ab<-pasteO(active$a, active$b)

all_dups<-active[active$ab != "FALSEFALSE", ]
active<-active[active$ab == "FALSEFALSE", ]

active <- active %>%
    select(-c(a, b, ab))

nrow(all_dups) # Number of duplicates
```

4.2 - Missing Long and Lat

Write to a workbook list of sites with missing long and lat coordinates, get coordinates from Google, add to Geocode Master List CURRENT.

4.3 - Other Missing Values

Saves list of sites to workbook with NAs in other required fields.

```
which(is.na(active$site_zip))
which(is.na(active$site_state))
which(is.na(active$sponsoring_organization))
which(is.na(active$state_site_id_number))
which(is.na(active$state_sponsor_id_number))
which(is.na(active$soo_x))
which(is.na(active$soo_y))
```

5 - Added & Removed

Combine current and previous submissions and look for unique site numbers. Sites added are indicated by unique site numbers in the current submission, sites removed are indicated by unique site numbers in the previous submission. Filter unique site #'s by submission and save as separate data objects.

```
current submission <- active %>%
  select(-last modified date) %>%
  mutate(submission = "current")
previous_submission <- active %>%
  select(-last_modified_date) %>%
  mutate(submission = "previous")
# Combine
added_removed<-rbind(previous_submission,current_submission)</pre>
# Identify unique values
added_removed$b<-duplicated(added_removed$state_site_id_number, <pre>fromLast = F)
added_removed$a<-duplicated(added_removed$state_site_id_number, <pre>fromLast = T)
added_removed$ab<-pasteO(added_removed$a, added_removed$b)</pre>
unique<-added_removed[added_removed$ab == "FALSEFALSE", ]</pre>
nrow(unique)
added <- unique %>%
  select(site_program, sponsoring_organization, site_name,
         start_date_mm_dd_yy, end_date_mm_dd_yy, submission) %>%
  filter(submission == "current") %>%
  select(-submission)
removed <- unique %>%
  select(site_program, sponsoring_organization, site_name,
         start_date_mm_dd_yy, end_date_mm_dd_yy, submission)
                                                                %>%
  filter(submission == "previous")%>%
  select(-submission)
```

5.1 - Edit Check

```
the # of sites in the previous submission
+ the # of sites added
- the # of sites removed
= the # of sites in the current submission
```

```
# Make sure the number of sites corresponds with the number of sites added and removed
nrow(added)
nrow(removed)

nrow(previous_submission)+nrow(added)-nrow(removed)
nrow(current_submission)
```

6 - Prepare to Save

Add spaces to site numbers to prevent data from being converted to dates in Excel. Reformat column headers for viewing.

```
active <- refresh_active</pre>
all <-refresh_all
# Add spaces to site numbers to prevent them from turning into dates
all <- all %>%
  mutate(state_site_id_number = paste0(" ", state_site_id_number, " ")) %>%
  select(-last_modified_date)
active <- active %>%
  mutate(state_site_id_number = paste0(" ", state_site_id_number, " ")) %>%
  select(-last_modified_date)
# Column Names for Added / Removed Sheets
colnames(added) <- stringr::str_to_title(gsub("_", " ",colnames(added)))</pre>
colnames(removed) <- stringr::str_to_title(gsub("_", " ",colnames(removed)))</pre>
# Get the number of rows of each data frame and save it as a vector.
nrow_all<-as.vector(nrow(all))</pre>
nrow_active<-as.vector(nrow(active))</pre>
nrow_added<-as.vector(nrow(added))</pre>
nrow_removed<-as.vector(nrow(removed))</pre>
```

7 - Generate Report

7.1 - Create Workbook

```
# Create workbook
wb <- createWorkbook()
```

7.2 - Add Worksheets

```
# Add Worksheets to Workbook and Name
addWorksheet(wb, paste0("Active Sites, (",nrow_active,")"))
addWorksheet(wb, paste0("All Sites, (",nrow_all,")"))
```

```
addWorksheet(wb, paste0("Added, (",nrow_added,")"))
addWorksheet(wb, paste0("Removed, (",nrow_removed,")"))
```

7.3 - Write Data

```
# Write Data to Worksheets
writeData(wb, sheet = paste0("Active Sites, (",nrow_active,")"), x = active)
writeData(wb, sheet = paste0("All Sites, (",nrow_all,")"), x = all)
writeData(wb, sheet = paste0("Added, (",nrow_added,")"), x = added)
writeData(wb, sheet = paste0("Removed, (",nrow_removed,")"), x = removed)
```

7.4 - Save Sheets to Workbook

```
# Save
saveWorkbook(wb, paste0("H:/Documents/USDA FNS 905 Submission ", curr_date, ".xlsx"), overwrite = T)
```

8 - Operational Changes

```
active <- refresh_active

# Subset data
modifications <- active %>%
  filter(last_modified_date >= Sys.Date()-7) %>%
  mutate(state_site_id_number = paste0(" ", state_site_id_number, " "))

# Save to P Drive
write.csv(modifications, paste0("P:/1_Internal/Contracts, MOUs, State Agreements, Purchase Requests (note that the contract of the contra
```