

match enrolled projects to CIRN properties

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1 matching enrolled Native Forest Law properties to CIRN rural properties

1.1 data

```
projects_df <- proyecto_df %>%
  left_join(predio_df, by = c("rptpro_id", "rptpro_numero_ingreso")) %>%
  left_join(propietario_df, by = "rptpre_id") %>%
  inner_join(coordinadas_predio_df, by = "rptpre_id")

# turn into spatial object
projects_df.sf <- st_as_sf(projects_df, coords = c("rptub_este", "rptub_norte"), na.fail = FALSE)

#table(projects_df.sf$rptub_datum)
# trying to clean entries into intended datum
projects_df.sf$rptub_datum <- gsub(".*(84|wgs|WGS).*", "WGS84", projects_df.sf$rptub_datum)
projects_df.sf$rptub_datum <- gsub(".*(56|PSAD).*", "PSAD56", projects_df.sf$rptub_datum)
projects_df.sf$rptub_datum <- gsub(".*69.*", "SAD69", projects_df.sf$rptub_datum)
#table(projects_df.sf$rptub_datum)

projects_WGS19 <- projects_df.sf %>%
  filter(rptub_huso == 19 & rptub_datum == "WGS84") %>%
  st_set_crs("+proj=utm +zone=19 +south +datum=WGS84") %>%
  st_transform(st_crs(prop_clean.sf))

projects_WGS84 <- projects_df.sf %>%
  filter(rptub_huso != 19 & rptub_datum == "WGS84") %>%
  st_set_crs("+proj=utm +zone=18 +south +datum=WGS84") %>%
  st_transform(st_crs(prop_clean.sf)) %>%
  rbind(projects_WGS19)

proj_enrolled <- prop_clean.sf %>%
  st_join(projects_WGS84, join = st_intersects) %>%
  drop_na(rptpro_ano)

#here, I just see how many rols match between the CIRN data and native forest law data

#projects_df is the native forest law projects
#prop_rural.sf is the CIRN data with the rols as simple features object
rol_df <- projects_df %>%
  rename(ROL = rptpre_rol) %>% #renaming rols to be the same in both datasets
  inner_join(prop_rural.sf, by = "ROL") #merge by rol
```

Table 1: spatially joined dataframe

	ROL	rptpre_rol	NOM_PREDIO	rptpre_nombre
164427	1391-9	1391-42	AGUA FRIA	AGUA FRIA LOTE B
251916	1324-1	1324-1	AGUA LUNA-PEDREGOSO	AGUA LUNA
259617	331-10	333-12; 333-12	EL AROMO	AGUA SANTA
217043	309-18	309-18	HONDURAS	AGUAS CLARAS
217043.1	309-18	309-18	HONDURAS	AGUAS CLARAS
165018	1386-23	1386-24	EL LLEUQUE	Aguas Coloradas
165018.1	1386-23	1386-24	EL LLEUQUE	Aguas Coloradas
165018.2	1386-23	1386-24	EL LLEUQUE	Aguas Coloradas
128799	111-14	111-20	HJ EL MANIGUAL	AGUAS DEL PASO MALO
157397.1	164-33	164-268	SECTOR BULARCO SECTOR A COMUNA DE RANQUI	Aguas negras parcela B2 lote 3 Bularco
157397	164-33	164-268	SECTOR BULARCO SECTOR A COMUNA DE RANQUI	AGUAS NEGRAS PC B2 LOTE 3 BULARCO
308209.1	526	1220-59	NA	Ahuenco Parcela 19
176162	539-34	539-33	STA AGUSTINA PTE	Alamo y Coihue
176162.1	539-34	539-33	STA AGUSTINA PTE	Alamo y Coihue
268027.2	112-16	112-32; 112-33	EL HUAPE	Alaska

```

rol_display <- rol_df %>%
  select(ROL, NOM_PREDIO, rptpre_nombre)
rol_display$geometry <- NULL

kable(rol_display[1:20,],
      "latex",
      booktabs = T,
      caption = "merged on rol dataframe"
    ) %>%
  kable_styling(latex_options = "hold_position", font_size = 6)

```

Table 2: merged on rol dataframe

ROL	NOM_PREDIO	rptpre_nombre
160-15	EL CARMEN	LOS MANZANOS
160-15	NA	LOS MANZANOS
160-15	BARANDICA HIJUELA 4	LOS MANZANOS
160-15	EL LITRE	LOS MANZANOS
160-15	LA HUACHA	LOS MANZANOS
160-15	PREDIO SAN AGUSTIN SECTOR RELBUN	LOS MANZANOS
160-15	PEUMO PICHILLO S/N CARAMPANGUE	LOS MANZANOS
160-15	UITENTO	LOS MANZANOS
160-15	EL DAO AGUANTAO HJ 48	LOS MANZANOS
304-121	EL ESCUDO PARCELA N 18	PARCELA N°18
304-121	HIJUELA 7 HEULIO COM CATREFOL	PARCELA N°18
304-121	EL ESCUDO PARCELA N 18	PARCELA N°18
304-121	HIJUELA 7 HEULIO COM CATREFOL	PARCELA N°18
3290-9	EL MIRADOR PC 21 VILCUN TEMUCO	PARCELA N°21
3290-9	EL MIRADOR PC 21 VILCUN TEMUCO	PARCELA N°21
3290-9	EL MIRADOR PC 21 VILCUN TEMUCO	PARCELA N°21
3290-9	EL MIRADOR PC 21 VILCUN TEMUCO	PARCELA N°21
135-10	CAM A CHINCOLC	QUETROLELFU
135-10	LA MONTANA COM	QUETROLELFU
135-10	PARCELA N 1 PATRIA NUEVA EX FUNDO MOSTAZ	QUETROLELFU

```
#length(unique(rol_df$ROL)) #find number of unique rol numbers found
```