Publication Table

Caption- This table represents trends in Final Ranger Action, types of Animal Reported and Source of Information over time for New York's Urban Park Rangers. The first part of the table shows the trends in Final Ranger Action as ACC (Animal Care Centres) or Rehabilitator, the second part of the table is focused primarily on showing trends in Source of Information and Type Of Animal being reported over the recorded time and incudes all Final Ranger Actions.

и туре от	Animal being reported t	over the recorded th	d time and incudes all Final Ranger Actions. Type Of Animal					
Year		Source Of Information	-	Native	Invasive	Domestic	Exotic	Total
	Final Ranger Action- ACC or Rehabilitator							
2018		Central		40	0	5	0	45
		Employee		80	1	14	0	95
		Public		25	0	5	0	30
		Others		202	0	1	1	204
		Total		347	1	25	1	374
		Central		30	1	8	0	39
2019		Employee		55	2	25	2	84
		Public		37	2	9	1	49
		Others		42	3	19	1	65
		Total		164	8	61	4	237
		Central		37	1	10	2	50
2020		Employee		90	4	25	1	120
2020		Public		57	5	17	2	81
		Others		27	2	14	0	43
		Total		211	12	66	5	294
		Central		18	3	10	1	32
2021		Employee		38	2	12	4	56
2021		Public		27	2	14	0	43
		Others Total		15 98	7	5 41	6	21 152
	E' - I D A - I'			98	/	41	0	152
	Final Ranger Action	on-						
		Central		100	3	11	2	116
2018		Employee		158	4	18	2	182
		Public		81	4	7	3	95
		Others		303	1	1	1	306
		Total		642	12	37	8	699
2019		Central		96	8	17	0	121
		Employee		163	9	36	5	213
		Public		121	10	16	5	152
		Others		106	8	24	3	141
		Total		486	35	93	13	627
2020		Central		128	2	27	3	160
		Employee		221	6	44	9	280
		Public		170	22	33	3	228
		Others		106	13	24	2	145
		Total		625	43	128	17	813
2021		Central		86	9	22	1	118
		Employee		116	4	20	6	146
		Public		86	11	19	0	116
		Others		62	2	8	1	73
		Total		350	26	69	8	453

Note: The Sources Of Information "Conservanices" and "Observed by Ranger" had insignificant values and were pooled with "Other" for an accumulated "Others" datarow. Species containing "N/A" were dropped.

Importable Table

	importable rable					
Year	Call.Source	Species.Status	Final.Ranger.Action	Count		
2018	Central	Domestic	ACC or Rehabilitator	5		
2018	Central	Native	ACC or Rehabilitator	40		
2018	Employee	Domestic	ACC or Rehabilitator	14		
2018	Employee	Invasive	ACC or Rehabilitator	1		
2018	Employee	Native	ACC or Rehabilitator	80		
2018	Others	Domestic	ACC or Rehabilitator	1		
2018	Others	Exotic	ACC or Rehabilitator	1		
2018	Others	Native	ACC or Rehabilitator	202		
2018	Public	Domestic	ACC or Rehabilitator	5		
2018	Public	Native	ACC or Rehabilitator	25		
2019	Central	Domestic	ACC or Rehabilitator	8		
2019	Central	Invasive	ACC or Rehabilitator	1		
2019	Central	Native	ACC or Rehabilitator	30		
2019	Employee	Domestic	ACC or Rehabilitator	25		
2019	Employee	Exotic	ACC or Rehabilitator	2		
2019	Employee	Invasive	ACC or Rehabilitator	2		
2019	Employee	Native	ACC or Rehabilitator	55		
2019	Others	Domestic	ACC or Rehabilitator	19		
2019	Others	Exotic	ACC or Rehabilitator	1		
2019	Others	Invasive	ACC or Rehabilitator	3		
2019	Others	Native	ACC or Rehabilitator	42		
2019	Public	Domestic	ACC or Rehabilitator	9		
2019	Public	Exotic	ACC or Rehabilitator	1		
2019	Public	Invasive	ACC or Rehabilitator	2		
2019	Public	Native	ACC or Rehabilitator	37		
2020	Central	Domestic	ACC or Rehabilitator	10		
2020	Central	Exotic	ACC or Rehabilitator	2		
2020	Central	Invasive	ACC or Rehabilitator	1		
2020	Central	Native	ACC or Rehabilitator	37		
2020	Employee	Domestic	ACC or Rehabilitator	25		
2020	Employee	Exotic	ACC or Rehabilitator	1		
2020	Employee	Invasive	ACC or Rehabilitator	4		
2020	Employee	Native	ACC or Rehabilitator	90		
2020	Others	Domestic	ACC or Rehabilitator	14		
2020	Others	Invasive	ACC or Rehabilitator	2		
2020	Others	Native	ACC or Rehabilitator	27		
2020	Public	Domestic	ACC or Rehabilitator	17		
2020	Public	Exotic	ACC or Rehabilitator	2		
2020	Public	Invasive	ACC or Rehabilitator	5		

2020PublicNativeACC or Rehabilitator2021CentralDomesticACC or Rehabilitator2021CentralInvasiveACC or Rehabilitator2021CentralNativeACC or Rehabilitator2021EmployeeDomesticACC or Rehabilitator2021EmployeeExoticACC or Rehabilitator2021EmployeeInvasiveACC or Rehabilitator2021EmployeeNativeACC or Rehabilitator2021OthersDomesticACC or Rehabilitator	57 16 1 27 12 4 2 38 5
2021CentralInvasiveACC or Rehabilitator2021CentralNativeACC or Rehabilitator2021EmployeeDomesticACC or Rehabilitator2021EmployeeExoticACC or Rehabilitator2021EmployeeInvasiveACC or Rehabilitator2021EmployeeNativeACC or Rehabilitator	1 27 12 4 2 38
2021CentralNativeACC or Rehabilitator2021EmployeeDomesticACC or Rehabilitator2021EmployeeExoticACC or Rehabilitator2021EmployeeInvasiveACC or Rehabilitator2021EmployeeNativeACC or Rehabilitator	27 12 4 2 38
2021EmployeeDomesticACC or Rehabilitator2021EmployeeExoticACC or Rehabilitator2021EmployeeInvasiveACC or Rehabilitator2021EmployeeNativeACC or Rehabilitator	12 4 2 38
2021EmployeeExoticACC or Rehabilitator2021EmployeeInvasiveACC or Rehabilitator2021EmployeeNativeACC or Rehabilitator	4 2 38
2021 Employee Invasive ACC or Rehabilitator 2021 Employee Native ACC or Rehabilitator	2 38
2021 Employee Native ACC or Rehabilitator	38
2021 Others Domestic ACC or Rehabilitator	Ĺ
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2021 Others Exotic ACC or Rehabilitator	1
2021 Others Native ACC or Rehabilitator	15
2021 Public Domestic ACC or Rehabilitator	10
2021 Public Exotic ACC or Rehabilitator	1
2021 Public Invasive ACC or Rehabilitator	3
2021 Public Native ACC or Rehabilitator	18
2018 Central Domestic All	11
2018 Central Exotic All	2
2018 Central Invasive All	3
2018 Central Native All	100
2018 Employee Domestic All	18
2018 Employee Exotic All	2
2018 Employee Invasive All	4
2018 Employee Native All	158
2018 Others Domestic All	1
2018 Others Exotic All	1
2018 Others Invasive All	1
2018 Others Native All	303
2018 Public Domestic All	7
2018 Public Exotic All	3
2018 Public Invasive All	4
2018 Public Native All	81
2019 Central Domestic All	17
2019 Central Invasive All	8
2019 Central Native All	96
2019 Employee Domestic All	36
2019 Employee Exotic All	5
2019 Employee Invasive All	9
2019 Employee Native All	163
2019 Others Domestic All	24
2019 Others Exotic All	3
2019 Others Invasive All	8

2019	Others	Native	All	106
2019	Public	Domestic	All	16
2019	Public	Exotic	All	5
2019	Public	Invasive	All	10
2019	Public	Native	All	121
2020	Central	Domestic	All	27
2020	Central	Exotic	All	3
2020	Central	Invasive	All	2
2020	Central	Native	All	128
2020	Employee	Domestic	All	44
2020	Employee	Exotic	All	9
2020	Employee	Invasive	All	6
2020	Employee	Native	All	221
2020	Others	Domestic	All	24
2020	Others	Exotic	All	2
2020	Others	Invasive	All	13
2020	Others	Native	All	106
2020	Public	Domestic	All	33
2020	Public	Exotic	All	3
2020	Public	Invasive	All	22
2020	Public	Native	All	170
2021	Central	Domestic	All	28
2021	Central	Invasive	All	7
2021	Central	Native	All	95
2021	Employee	Domestic	All	20
2021	Employee	Exotic	All	6
2021	Employee	Invasive	All	4
2021	Employee	Native	All	116
2021	Others	Domestic	All	8
2021	Others	Exotic	All	1
2021	Others	Invasive	All	2
2021	Others	Native	All	62
2021	Public	Domestic	All	15
2021	Public	Exotic	All	1
2021	Public	Invasive	All	12
2021	Public	Native	All	77

```
Code Used:
#Required libraries
library(dplyr)
#Read the dataset csv file
bdf<-read.csv("Urban_Park_Ranger_Animal_Condition_Response.csv")
##Extracting the Year from the column "Date.and.Time.of.initial.call"
#Format Year
bdf <- bdf %>%
 mutate(`Date.and.Time.of.initial.call` = as.POSIXct(`Date.and.Time.of.initial.call`, format =
"%m/%d/%Y %I:%M:%S %p"))
bdf <- bdf %>%
filter(!is.na(`Date.and.Time.of.initial.call`))
#Added new Year column on dataset
bdf <- bdf %>%
 mutate(Year = year(`Date.and.Time.of.initial.call`))
#Filter data for Ranger Action= ACC and Rehabilitator and Species status= c("Native",
"Invasive", "Domestic", "Exotic")
# Also Call Sources = Conservancies, Observed by Ranger and Other combined as "Others"
filtered_data <- bdf %>%
 filter(
  Species.Status %in% c("Native", "Invasive", "Domestic", "Exotic"),
  Final.Ranger.Action %in% c("ACC","Rehabilitator")
 ) %>%
 mutate(
  Final.Ranger.Action ="ACC or Rehabilitator",
  Call.Source=ifelse(Call.Source %in% c("Central", "Employee", "Public"), Call.Source,
            "Others"
  )
 )
# Getting the count
acc rehab records <- filtered data %>%
 count(Year, Call.Source, Species.Status, Final.Ranger.Action) %>%
 rename(Count=n)
```

```
# Filtering Species status= c("Native", "Invasive", "Domestic", "Exotic")
# Call Sources = Conservancies, Observed by Ranger and Other combined as "Others"
# Final Ranger Action = All
filtered data <- bdf %>%
filter(
  Species. Status %in% c("Native", "Invasive", "Domestic", "Exotic"), # Include only specified
Species. Status values
  ) %>%
 mutate(
  Call.Source=ifelse(Call.Source %in% c("Central", "Employee", "Public"), Call.Source,
            "Others"
  ),
  Final.Ranger.Action="All"
 )
# Getting count
all records <- filtered data %>%
 count(Year, Call.Source, Species.Status, Final.Ranger.Action)%>%
 rename(Count=n)
#Concatenating the datasets
combined_data<-rbind(acc_rehab_records,all_records)</pre>
#Create csv file
write.csv(combined_data,file="Table2.csv",row.names = F)
```

Once the CSV file was generated, used the data to create the Publication table in Excel.

- 1. Added Caption
- 2. Added years as stubs.
- 3. Added Final Ranger action=ACC or Rehab/ All as Table Spanner
- 4. Added Call source among the year stubs.
- 5. Added Species as Column heads.
- 6. Added total values to highlight trends in ACC/ Rehabilitator, Call Source and Species.
- 7. Colour coding for better visuals.
- 8. Added Foot Note.