

## Updating a Custom Format by Using the CNTLOUT= Option

The **pg2.np\_summary** table contains public use statistics from the National Park Service. The values of the **Type** column represent the park type as a code. A format is applied to display descriptive values for the park types.

1. Open **p204p06.sas** from the **practices** folder. Submit the program and review the results. Notice that some of the park types are still displayed as codes because the custom format does not include a label for those values.
2. Write a PROC FORMAT step.
  - Use the CNTLOUT= option to create a table named **typfmtout** from the existing \$TypCode format.
  - Submit the step and view the output table.

The **typfmtout** table contains several extra columns, but the critical columns for this practice are **FmtName**, **Start**, and **Label**. Notice that the values for **FmtName** do not include the \$ as a prefix.

```
proc format cntlout=typfmtout;  
    select $TypCode;  
run;
```

3. Open the **pg2.np\_newcodes** table. Notice that it contains the format name, the **Type** values, and the labels in the **FmtName**, **Start**, and **Label** columns.
4. Write a DATA step.
  - Create a table named **typfmt\_update** by concatenating the output table from PROC FORMAT and the **pg2.np\_newcodes** table.
  - Change the values of **FmtName** to *\$TypCode*.
  - Keep only the **FmtName**, **Start**, and **Label** columns.
  - Submit this step.

```
data typfmt_update;  
    set typfmtout pg2.np_newcodes;  
    keep FmtName Start Label;  
    FmtName='$TypCode';  
run;
```

5. Write a PROC FORMAT step.
  - Re-create the \$TypCode format using the CNTLIN= option to read the new table that contains the updated format values.
  - Submit this step.

```
proc format cntlin=typfmt_update;  
run;
```

6. Submit the PROC FREQ step again and verify that all **Type** codes are displayed with labels.

7. What is the frequency value of **National Preserve**?

The frequency value of **National Preserve** is 7.