Solutions to Practices

1. Creating Custom Formats Based on Single Values

```
proc format;
    value $highreg 'IM'='Intermountain'
                   'PW'='Pacific West'
                   'SE'='Southeast'
                   other='All Other Regions';
run;

title 'High Frequency Regions';
proc freq data=pg2.np_summary order=freq;
    tables Reg;
    label Reg='Region';
    format Reg $highreg.;
run;
title;
```

2. Creating Custom Formats Based on a Range of Values

```
proc format;
    value psize low-<10000='Small'
                10000-<500000='Average'
                500000-high='Large';
run;

data np_parksize;
    set pg2.np_acres;
    ParkSize=put(GrossAcres,psize.);
    format GrossAcres comma16.;
run;
```

3. Creating Custom Formats Based on Nesting Formats

```
proc format;
    value decade
        '01Jan2000'd-'31Dec2009'd = '2000-2009'
        '01Jan2010'd-'31Dec2017'd = '2010-2017'
        '01Jan2018'd-'31Mar2018'd = '1st Quarter 2018'
        '01Apr2018'd-high = [mmddyy10.];
run;

title1 'Precipitation and Snowfall';
title2 'Note: Amounts shown in inches';
proc means data=pg2.np_weather maxdec=2 sum mean nonobs;
    where Prcp > 0 or Snow > 0;
    var Prcp Snow;
    class Date Name;
    format Date decade.;
run;
title;
```

End of Solutions