

## Appendix C - South Project Monitoring

The Forest Plan identified specific items to be monitored, and the Monitoring Implementation Guide (USDA Forest Service, 2005) describes monitoring protocols that have been established for numerous resources, as directed by the Forest Plan. The Monitoring Implementation Guide identified frequency and methods of data collection, unit of measure, sampling design, expected precision and reliability, reporting frequency, data storage location, and costs for each monitoring item identified by the Forest Plan. This guide is subject to periodic adjustments. For additional information, refer to the Forest Plan (Chapter 4), and the Monitoring Implementation Guide.

The ID Team compiled additional monitoring objectives/items summarized below to provide emphasis and specifics regarding particular resource monitoring needs in the project area. All monitoring objectives/items will be prioritized by the responsible line officer if funding is not available to implement all objectives/items listed or referenced in the Monitoring Plan.

### **Hydrology and Soils**

BMP monitoring will occur during and after management activities. BMP implementation monitoring will occur during management activities primarily through contract administration.

### **Fuels**

Fuel inventory surveys would be conducted following harvest activities to ensure objectives are being met.

Monitor smoke conditions during burning operations to meet with the provisions of the Clean Air Act. District personnel will utilize the SASEM (Smoke Model), or an equivalent program would be used to assure provisions are being met. The impacts of burning on metropolitan areas such as Rapid City would be assessed at the time of burning.

### **Sensitive Plants**

Monitor the effect of riparian habitat improvement projects and noxious weed treatment on sensitive species habitat, monitor effect of noxious weed treatment on known sensitive species occurrence. Five days for 5 years. District personnel will conduct the monitoring.

### **Noxious Weeds**

Areas of weed infestation will need to be monitored and the effectiveness of the treatment measured. Areas should be retreated as necessary.

### **Wildlife**

Known goshawk nest stands will be monitored for activity and breeding success. This work will be accomplished by Hell Canyon District personnel.