

# ZEH Software Provides Integrated Printing for Washington Department of Fish & Wildlife

## Improved Printing Control Provided to Administrators

The Washington Department of Fish and Wildlife (WDFW) frequently prints maps for field biologists to help locate habitat and migration areas for fish and wildlife. Due to the high volume of maps being requested by internal users, external consultants, and the public, the department was facing an increasing challenge in managing an increasing complex printing process. WDFW was going through thousands of dollars of print media with limited means of tracking which programs or users were consuming resources. WDFW also had the added complication of supporting printing from both UNIX and Windows operating systems.

After 18 months with ZEH, the department has gone a long way in streamlining its printing process. "ZEH has helped us to centralize all of our printing needs" said Don Saul, GIS Administrator. "With ZEH, both UNIX and Windows printing can be processed and managed on the same server. Plus, we eliminated inter-program arguments over printing expenses because print utilization is now tracked on the server."

### ZEH Implementation at WDFW

WDFW's printing system was primarily through ArcPress on UNIX until the department added Windows-based ArcGIS to the environment. At the time, WDFW did not have the programming resources to tie together printing and media tracking from two different operating systems. ZEH Software made it easier to centralize printing, regardless of platform, and manage everything in one place.

The ZEH implementation at WDFW includes PLOT EXPRESS with over 40 users and six printers. About 15 of the users print on a regular basis to HP Designjet printers including a 750C, several 850Cs and 1050Cs, and a 5500 series model. Users print primarily from ESRI's ArcGIS 8.3 on Windows and UNIX, but they also print from PowerPoint, PhotoShop, and several other applications that produce PostScript files. Files range from a few megabytes to more than 250 MB in size. Files become larger as the department implements more image-based mapping, including satellite images and orthophotos. Image-based mapping is reported to make up 75% - 80% of the current printing load at WDFW.



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## **About the WDFW**

The WDFW manages:

- More than 640 animal species that range from butterflies to elk.
- Approximately 150 species of fish and shellfish ranging from clams to salmon.
- Approximately 800,000 acres that provide habitat and migration routes to wild species as well as a variety of recreational opportunities to the state's citizens.

On staff are fish and wildlife biologists that work to manage Washington state's fish and wildlife resources, including endangered species. They study the life history, seasonal movements, growth and survival rates, and reproductive success of everything from elk to chinook salmon. They gather data on habitat requirements of the endangered species to protect known habitats as well as create new ones.

The agency's mission is to provide sound stewardship of fish and wildlife. The health and well being of fish and wildlife is important not only to the species themselves, but to humans as well. Often, when fish and wildlife populations are threatened, their decline can predict environmental hazards or patterns that also may have a negative impact on people.