



# case study

## USDA

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### **Customer Background:**

The Center for Bottomland Hardwoods Research (CBHR), established in 1996, is a step forward built on the solid foundation of over 40 years of research. Four research units located at the Southern Hardwoods Lab, Stoneville; Forest Hydrology Lab, Oxford; and the Seed Biology Lab, Starkville have merged to function as a research center with a common mission focus -To provide the scientific basis to manage southern bottomland hardwood and wetland forests and associated stream ecosystems for a sustained yield of forest products and other desired values.

### **Customer Requirement:**

With about 63 species, Mississippi has one of the most diverse crayfish faunas in the world and is home to at least 17 endemic species (meaning they occur nowhere else). However, a recent Comprehensive Wildlife Conservation Strategy of Mississippi, deemed 18 species in need of "immediate conservation action or research".

### **The NVR solution:**

Responding to this crucial situation, the NVR team developed a website to provide general information and interactive distribution maps of crayfishes known to occur in the State of Mississippi.

Apart from supporting key e-commerce features such as Shopping Cart, Credit Card Processing, real-time credit check, address verification and fraud detection, this system had rules-based promotions and other important features.

### **Business Benefits:**

The website provides information that is relevant and readily accessible.

- From the 'List of All MS Species', fact sheets and photographs can be viewed for many species, and more will be available in the future
- The interactive maps allow anyone to search for lists of species by county or by US Geologic Survey "hydrologic unit code" (HUC) or to map species distributions throughout the state by county and HUC

### **Technologies:**

- J2EE platform with Oracle database, N-tier architecture using standard J2EE technologies (EJB / Servlet/ JSP)
- ESRI Software the ArcIMS 9.2 used for interactive maps on the Crayfishes Site Search map, Species Distribution map and Locality Distribution map incorporate 3 separate map services.

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**About NetVision Resources:**

NetVision Resources, Inc., is a 8(a) certified, trusted provider of Information Technology Services and Resources. Since its inception in 1999, NVR has provided superior business application consulting services and resources to leading businesses and government agencies. For more details on NetVision Resources log onto [www.netvisionresources.com](http://www.netvisionresources.com)

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