

The three R's of conservation

Jocelyn Aycrigg Alta Science and Engineering Moscow, Idaho







Foundation of conservation biology Applied science of maintaining biodiversity Focus on preservation of biodiversity species habitats evolutionary potential Designing and establishing conservation reserves





Conservation biology

The 3 R's of conservation biology Representation Redundancy Resiliency





Representation

Saving something of everything Conserve full variety of habitat types Protects biodiversity under climate change





Representation

How can we measure representation?

















Ecosystem representation = 30%



Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest

















Sonora-Mojave Creosotebush-White Bursage Desert Scrub





Inter-Mountain Basins Big Sagebrush Shrubland



Redundancy

Keep backups to guard against complete loss of species or habitat

A hedge against the failure of any individual species population or habitat type











Resiliency

Every component of ecosystem is essential Capacity of ecosystem to respond to perturbation by resisting, recovering or transforming









Resiliency

How can we build the capacity to deal with change across landscapes?















What opportunities exist for Clark County **Desert Conservation Program?** Assess representation of habitats within county-owned lands throughout county Assess redundancy of species habitats Determine resiliency of what? to what?





Thank you!

