Biodiversity Survey Data Sheet

Plot Number _____ Size _____
Location _____

Species – Trees and Bushes	Native?	Number	Proportion $p_i = N/\Sigma N$	ln p_i	p_i ln p_i
Acacia					
Barrel Cactus					
Bursage					
Chain Fruit Cholla					
Cheeseweed Mallow (Europe)					
Chihuahuan Desert Claw					
Christmas Cactus					
Creosote Bush					
Desert Broom					
Filaree (Spain)					
Globe Mallow					
Hedgehog Cactus					
Mesquite Tree					
Mormon Tea					
Palo Verde					
Prickly Pear Cactus					
Puncture Vine (Mediterranean)					
Russian Thistle (Russia)					
Saguaro					
Stag Horn Cactus					
Wolfberry					
Total					

Richness = Number of Species/Number of Plants _____

Shannon-Weaver Index H' = -[$\Sigma(p_i)(\ln p_i)$] _____

Percent Native Plants = Number of Native Plants/Number of Plants x 100% _____

Biodiversity Survey

Plot Number _____ Size _____
Location _____

Species – Grasses	Native?	Number	Proportion $p_i = N/\Sigma N$	ln p_i	p_i ln p_i
AZ Cottontop					
AZ Fescue					
AZ ThreeAwn					
Bermuda (Non-Native)					
Bottlebrush					
Burclover (Non-Native)					
Bush Burro Grass					
Cheatgrass (Non-Native)					
Fluffgrass					
Foxtail Brome (Non-Native)					
Indian Rice Grass					
Leyman Love Grass (Non-Native)					
Total					

Richness = Number of Species/Number of Plants _____

Shannon-Weaver Index $H' = -[\Sigma(p_i)(\ln p_i)]$ _____

Percent Native Plants = Number of Native Plants/Number of Plants x 100% _____

Once established, noxious weeds spread **exponentially**. Exponential growth is characterized by an initial period of growth that is slow and unapparent, which is followed by a period of tremendous growth. For instance, the Bureau of Land Management (BLM) estimates that **noxious weeds are consuming 4600 acres per day on western public lands!!** That's about 4600 football fields **every day**.