Recent Nature Conservation Theory: Applications to California Rangeland Landscapes (4/17/2014, Lawrence D. Ford, Ph.D., LD Ford Rangeland Conservation Science, www.rangelandconservation.com, 831-335-3959,

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Stages / Concepts	Historical Context	Contributions
4. Biological Diversity and	Crises of extinctions and habitat loss	Global system of causes and effects
<i>Its Conservation</i> (started late 1970s)	 Professional and scientific pressure to develop 	Trans-border solutions
Conservation biology	solutions for biodiversity	"Paper parks" inadequate
Ecological restoration	Recognition of indigenous rights	Biosphere Reserves (model with core, buffer and
Eco-tourism	 Ray Dasmann—first use of term "biodiversity;" challenge is outside of parks 	transition zones), Bioregions / Eco-cultural regions
	 Bruce Wilcox and Tom Lovejoy—new scientific and 	Design of nature reserve systems
	professional field, breaking off from natural resources management and wilderness preservation	 Focus on rehabilitation and restoration of degraded sites and systems
5. Ecosystem Health and	Crises of climate change, large wildfires,	Private sector is key
Stewardship (started 1990s)	impoverishment, coastal erosion and inundation, urbanization of formerly rural areas, cultural diversity	Grazing is both a compatible use and beneficial for
Sustainable development	loss	conservation purposes in annual grassland
Indigenous / local ecological knowledge	British "countryside conservation"	 Local food; integrate food production and environmental protection; reduced dependence on
Environmental health	Demand for local community engagement and	foreign-sourced energy
linked to human health	environmental appreciation; strengthened	Adjusting public lands management to support local
Community participation	relationships of producers and consumers	"working conservation landscapes" (grazing leases)
Ecosystem services	 Increased awareness of indigenous management and requirements for management to maintain 	Manage to maintain and enhance desired conditions
Wildlands as "gardens"	desired conditions	(control mass/height of Mediterranean grasses, fire hazards and pest plants)
6. What's on the Horizon?	Crises of frequent extremes of weather	Prioritize least-cost improvements and management of
Incentives instead of	Conversion of remaining rangelands to crop	most urgent conservation problems
penalties	agriculture and ex-urban ranchettes	 Use advanced technologies, e.g. high-res remote sensing
Food security	Declining water supplies	 Land trusts, private coops, rancher stewards
Resilience	Reduced political will and government funding	
Private sector conservation	 Dependence on ranchers for conservation (stewardship) services 	 Increasing levels of education of managers and ranchers, and thus sophistication of lease applications and management plans