/Н	EP Lesson 1: Species, Succession, and Ecoregions	
1.	Species: group of organisms that can and produce	
2.	Population: Many individuals of one that interact	
3.	Community: Group of living things of	that interact
4.	Ecosystem: Living and things interact	
5.	Food web: How does plant life in an area affect an eagle?	
6.	Succession: Change in plant community over	
7.	Sere: sequence of that replace one another	during succession
	a. Succession happens in	
8.	Influenced by factors: temperature, soil, clima	ate, fires, disturbance
	events, etc.	
9.	determines what types of plants are in a s	ere
10	.A disturbance event is something that succession	
11	.How can humans affect succession?	
12	.As plant community and food availability change, what else mig	tht change?

14.So, succession affects not only plant life but also ______ life and distribution!

13.Different wildlife species have different ______ needs

15. Habitat: resources needed by a wildlife species for and
a. Resources:
16. Habitat needs are Not all species require the same
in the same amount or distribution.
17. Habitat quality ranges from excellent to poor, depending on how well needs are met. If
minimum needs of a species are not met in an area, that area will not provide habitat for
that species.
a. Note: Even though 2 species are found in the same ecoregion, they don't always
have similar habitat needs!
b. Habitat is not same as ecoregion or vegetation type
18. Nonnative: Not from here from other area
19. Invasive: spread very quickly, to control
20. Naturalized: Able to maintain populations in the
21. Nonnative invasives: available habitat for native species, often leading to
population decline. Hard to control or eradicate.
22.Are all nonnative species bad?
23. Focal species approach: manage for one or two wildlife species
a. Increase cover, food, or water for selected species
b. Ex: Dove food plot
24. Ecosystem approach: manage for a healthy, functioning ecosystem, such as a tallgrass
prairie ecosystem, and allow associated wildlife species to respond
25. Techniques that address the most lacking resource in ecosystem are preferred. Reduces
limiting factors.
26.What is a limiting factor ?

27.WMPs	that benefit one grou	p of species may be	to ot	her	
a.	Ex: Cut down hardw	ood trees to plant prairie			
28. Edge: v	vhere 2 or more vege	tation types or successional s	stages meet		
a.	May be sudden (edge) or gradual (_		edge)	
29. Ecoton	e: Area with characte	ristics of both vegetation typ	es or succes	sional stages	
30.Increas	ed edge=	_ vegetation types or success	sional stages		
a.	May benefit species	if both vegetation types are		and provide habitat	
	requirement or if arr	angement suits them.			
31.May lea	ad to greater biodiver	sity. <i>Why?</i>			
32.May no	ot benefit species. Wh	y?			
33. Horizo ı	ntal arrangement: Ho	w different successional stag	ges or vegeta	ition types are	
located	located in relation to each other				
a.	Some species have h	abitat needs met by only on	e type of veg	getation or	
	successional stages.	Others require multiple vege	etation types	or successional	
	stages.				
34.For tho	se that need multiple	stages or vegetations types,	proximity m	natters. Closer=	
better.	Why?				
35. Intersp	ersion: how often dif	ferent vegetation types occu	r		
36. <i>Genera</i>	ally, More interspersio	n= mixing of vegetation type	s= more wild	dlife variety	
37.Vegeta	tion types present an	d quality of food & cover ma	tter more th	an amount of	
intersp	ersion				
a.	More interspersion=	more edge			
38.Is inters	spersion beneficial? V	/hy or why not?			

39. Fragmentation: disruption of vegetation types by man or by natural processes

40. Area-sensitive species need large, uninagine need area in a certain successional stage to
provide habitat needs. Require unfragmented habitat of at least acres; some
need more.
41. Vegetation has
a. Layer arrangement matters to wildlife. May forage in one layer, hide in another,
nest in a third.
b. Arrangement varies by site and may be changed through management
techniques.
i. Ex: prescribed fire reduces understory in forest
42. Carrying capacity: number of animals that can exist in one
43. Biological carrying capacity: maximum number of animals within a species an area can
support before that species or another species is affected
44. Why is there a limit?
45. Limiting factor: resource in shortest supply. Determines
a. Increasing LF increases
46.What can influence limiting factors?
47. Does total population stay constant?
48. Annual mortality: rate at which animals per year
a. What things could cause mortality in white-tailed deer?
b. Will annual mortality change year-to-year?
49. Additive mortality: as more mortality causes are added, survival decreases
a. Example: Little rainfall= less ground cover & less food= fewer quail live through
summer & fall= low bobwhite population entering winter (malnutrition,
predation, heat stress) = winter storm kills off additional quail, causing lower
survival

50. Adaptive management: adjust management practices as conditions change an additional				
info is available				
51. Home range: area where animal lives. Size relates to habitat				
52. Seasonal home range: area animal uses in particular season or year				
53. Migration: seasonal movement. Animal moves from one seasonal home range to another.				
54. Corridors: areas that allow animals to move around areas in their home range or during				
migrations. Size and vegetation in corridor needed varies by				
55. Ecoregions: areas with similar climate, vegetation, and wildlife. Divides land into areas				
based on the most common ecosystem in that region.				
56. Ecosystem: the plant community along with the animal community together with soil, air,				
water, and sunlight				
57. Wetlands & urban areas are found within all ecoregions				
58.Ecoregion:				
a. Flat to rolling plains with cold winters & hot summers. 20- 40 inches average				
annual precipitation.				
b. Vegetation: tall grasses & forbs (wildflowers) with few shrubs & trees				

- c. Contains large areas of cropland. Many areas grazed by livestock.
- d. Succession Stages:
 - i. Annual forbs and grasses
 - ii. Perennial grasses and forbs
 - iii. Woody species, such as juniper, osage orange, and elms. Shrubs and trees dominate riparian areas and other sufficiently moist areas that can support woody vegetation

59.Ecoreg	ion:		
a.	Rolling terrain. 35- 90 inches average annual precipitation		
b.	Vegetation: deciduous trees		
C.	Large areas cleared for crop area & livestock grazing		
d.	Succession Stages:		
	i. Annual forbs such as common ragweed and grasses with a few perennial		
	species		
	ii. Perennial grasses & forbs and brambles		
	iii. Young trees & shrubs		
	iv. Hardwood forest		
60.Ecoreg	ion:		
a.	An area with many people		
b.	Ecosystems may fragmented by roads and buildings		
C.	Often dominated by nonnative invasive vegetation		
61.Ecoreg	ion:		
a.	Bodies of water, and the transition areas between water and land		
b.	Aquatic vegetation & trees		
C.	Succession Stages:		
	i. Deep water with little vegetation		
	ii. Shallow water with lots of submerged and floating aquatic vegetation		
	iii. Very shallow water or wet ground dominated by emergent aquatic		
	vegetation		
	iv. Ground becomes drier and dominated by upland vegetation similar to		

surrounding area