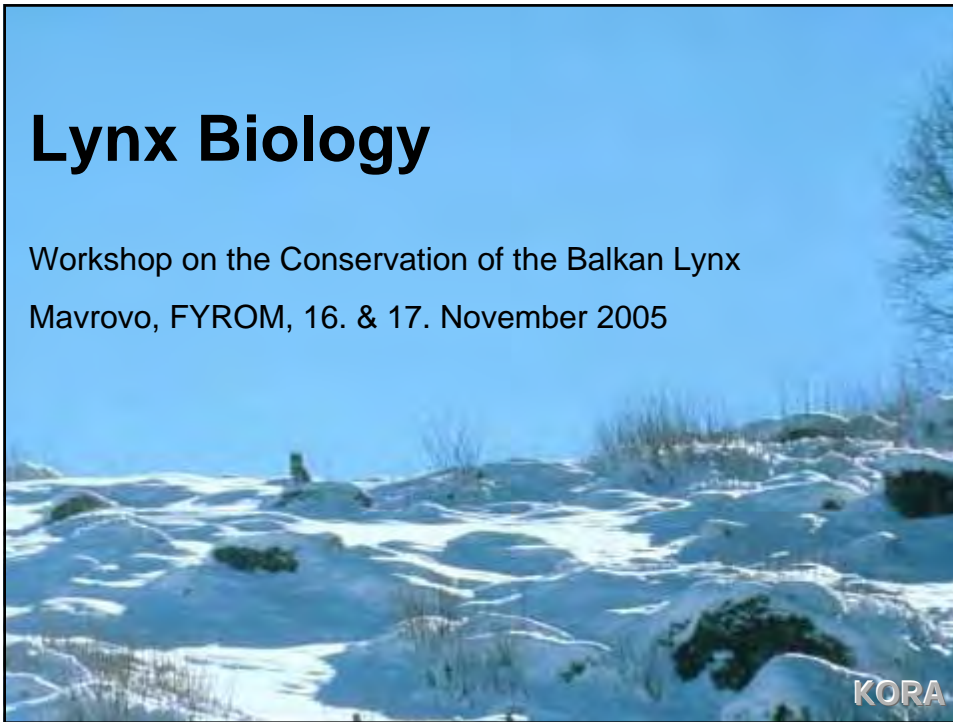




Lynx Biology




Workshop on the Conservation of the Balkan Lynx




Mavrovo, FYROM, 16. & 17. November 2005





Description & Morphology	Biology & Life history	Habitat & Land tenure system	Feeding ecology
<p data-bbox="379 1328 478 1355">General</p> <p data-bbox="379 1400 1117 1462">Monitoring has to be designed in accordance with the species' biology and the environmental conditions of the living space.</p> <p data-bbox="379 1512 1085 1574">The interpretation of the field data need to respect lynx' life history, land tenure system, and feeding ecology.</p> <p data-bbox="379 1624 1141 1686">As no ecological studies of the Balkan lynx are available, certain assumptions must be made, which may have to be verified.</p> <p data-bbox="1165 1892 1260 1926">KORA</p>			




Description & Morphology	Biology & Life history	Habitat & Land tenure system	Feeding ecology
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p data-bbox="352 421 608 454">short black-tipped tail</p>  <p data-bbox="352 835 464 869">long legs</p> <p data-bbox="676 835 804 869">short neck</p> </div> <div style="width: 45%;"> <p data-bbox="842 477 986 510">round head</p> <p data-bbox="1034 555 1217 622">triangular ears with black tufts</p>  <p data-bbox="959 925 1070 958">large feet</p> </div> </div> <p data-bbox="1166 965 1262 999" style="text-align: right;">KORA</p>			

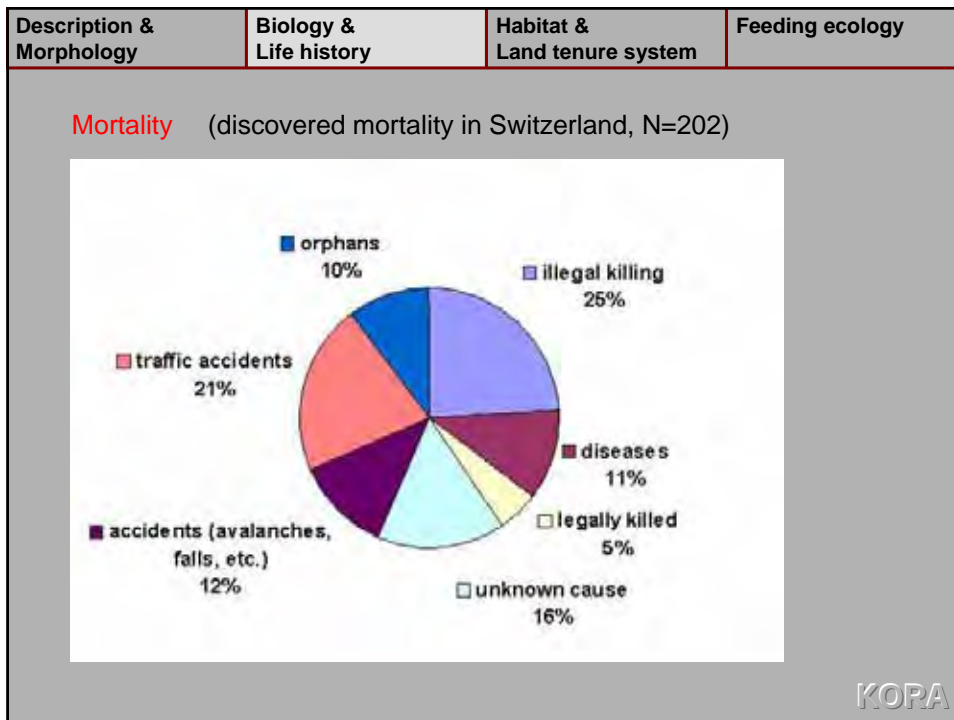
Description & Morphology	Biology & Life history	Habitat & Land tenure system	Feeding ecology
<div style="display: flex;"> <div style="width: 45%;">   </div> <div style="width: 55%;"> <p data-bbox="820 1323 900 1357">Claws:</p> <ul style="list-style-type: none"> <li data-bbox="820 1357 1150 1391">- sharp, strong, and hooked <li data-bbox="820 1391 943 1424">- retractile <p data-bbox="820 1424 1174 1469">↪ usually not mark in footprint</p>  </div> </div> <p data-bbox="1166 1895 1262 1928" style="text-align: right;">KORA</p>			

Description & Morphology	Biology & Life history	Habitat & Land tenure system	Feeding ecology
			<p>Pelt colour greyish to reddish</p> <p>4 coat patterns:</p> <ul style="list-style-type: none"> - large spots, - small spots, - rosettes, - unspotted
			
<p>KORA</p>			

Description & Morphology	Biology & Life history	Habitat & Land tenure system	Feeding ecology
			<p>~ 65 cm</p>
<p>70-130 cm</p>			<p>12-35 kg</p>
<p>Females smaller and ~25 % lighter than males</p>			
<p>KORA</p>			

Description & Morphology	Biology & Life history	Habitat & Land tenure system	Feeding ecology
<p>Skull round and high</p> <p>Short snout</p> <p>High biting force of the canines</p> <p>Dental formula:</p>			
$I \frac{3}{3} C \frac{1}{1} P \frac{2}{2} M \frac{1}{1} = 28$			
KORA			

Description & Morphology	Biology & Life history	Habitat & Land tenure system	Feeding ecology
<p>Reproduction</p> <p><i>Mating:</i> February to mid-April</p> <p><i>Birth:</i> after 67-74 days (usually in late May), birth weight about 300g</p> <p><i>Litter size:</i> 1-5, most often 2-3 kittens</p> <p><i>Separation:</i> at the age of 10 months</p>			
			
			
KORA			



Description & Morphology	Biology & Life history	Habitat & Land tenure system	Feeding ecology
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Lynx density

Under natural conditions, it depends on habitat productivity and prey availability, and is limited through social interactions among individuals

In the cultivated landscape, man is the ultimate limiting factor



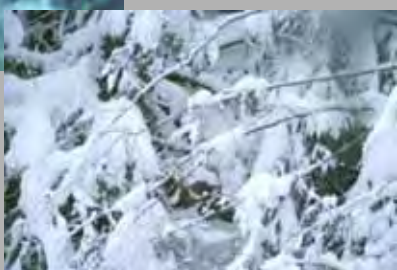
Some examples:


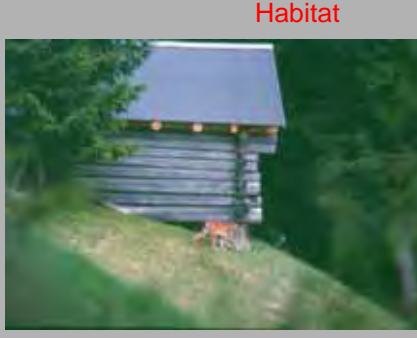

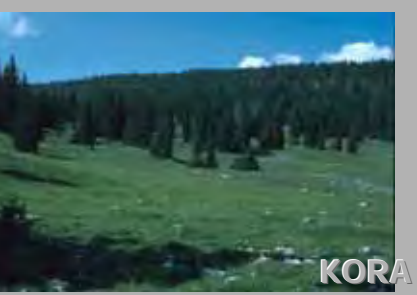
Poland: 1.9-3.2 ind./100 km²

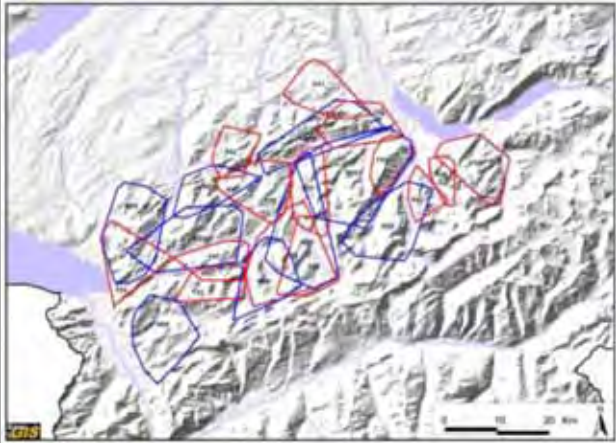
Switzerland: 0.94-2.10 ind./100 km²


Southern Norway: 0.25 ind./100 km²

KORA



Description & Morphology	Biology & Life history	Habitat & Land tenure system	Feeding ecology
Habitat			
			
		KORA	

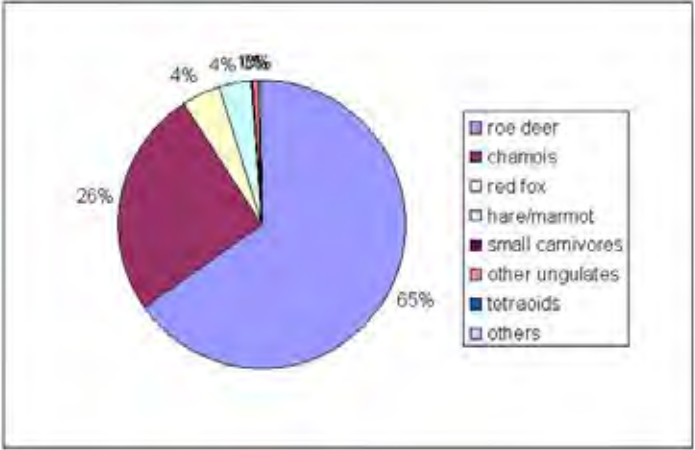
Description & Morphology	Biology & Life history	Habitat & Land tenure system	Feeding ecology
	Habitat		
			
		KORA	

Description & Morphology	Biology & Life history	Habitat & Land tenure system	Feeding ecology
Land tenure system			
(e.g. Northwestern Swiss Alps)			
		<ul style="list-style-type: none"> - solitarily living species - home ranges males: 180-2780 km² females: 98-759 km² - males monopolize one or two, rarely more females - home range size vary depending on latitude, habitat productivity and prey availability 	
blue: males / red: females		KORA	

Description & Morphology	Biology & Life history	Habitat & Land tenure system	Feeding ecology
Activity			
Lynx are mainly active at dusk and at night, and rest during daytime (except rutting season)			
Distance travelled per night: 1-45 km			
Highest movement activities in males during mating season			
Females with kittens usually only travel short distances			
When a lynx has a fresh kill, it stays in its proximity for several days			
			
		KORA	

Description & Morphology	Biology & Life history	Habitat & Land tenure system	Feeding ecology
<p>Habitat use, land tenure system and expected density are important factors to consider when designing a monitoring system; e.g. transect lines, spatial pattern of camera-traps, or the spacing of a grid of informants must be adjusted to these features.</p> <p style="text-align: right;">KORA</p>			

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<p>Prey</p> <p>Lynx is a hunter of small ungulates in many parts of its range</p> <p>Only in north-eastern Europe, mountain hares are the main prey</p> <p>In areas with low ungulate availability, lagomorphs, birds and rodents can be an essential prey part</p> <p>Lynx diet varies seasonally</p> <div style="display: flex; justify-content: space-around;">   </div> <p style="text-align: right;">KORA</p>			

Description & Morphology	Biology & Life history	Habitat & Land tenure system	Feeding ecology																		
<p data-bbox="363 376 416 405">Diet</p> <p data-bbox="363 432 852 461">e.g. radio-marked lynx in Switzerland (N=946)</p> <div data-bbox="363 472 1066 920">  <table border="1" data-bbox="368 472 1066 920"> <caption>Diet Composition of Radio-Marked Lynx</caption> <thead> <tr> <th>Prey Item</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td>roe deer</td> <td>65%</td> </tr> <tr> <td>chamois</td> <td>26%</td> </tr> <tr> <td>hare/marmot</td> <td>4%</td> </tr> <tr> <td>small carnivores</td> <td>4%</td> </tr> <tr> <td>tetraoids</td> <td>10%</td> </tr> <tr> <td>red fox</td> <td>0%</td> </tr> <tr> <td>other ungulates</td> <td>0%</td> </tr> <tr> <td>others</td> <td>0%</td> </tr> </tbody> </table> </div> <p data-bbox="363 943 970 972">Consumption rate per lynx = 1-2.5 kg meat per day</p> <p data-bbox="1166 965 1262 994">KORA</p>				Prey Item	Percentage	roe deer	65%	chamois	26%	hare/marmot	4%	small carnivores	4%	tetraoids	10%	red fox	0%	other ungulates	0%	others	0%
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