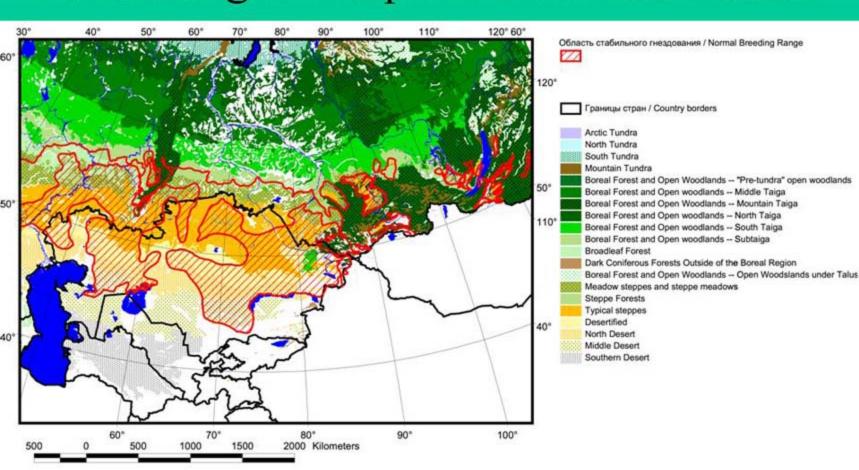




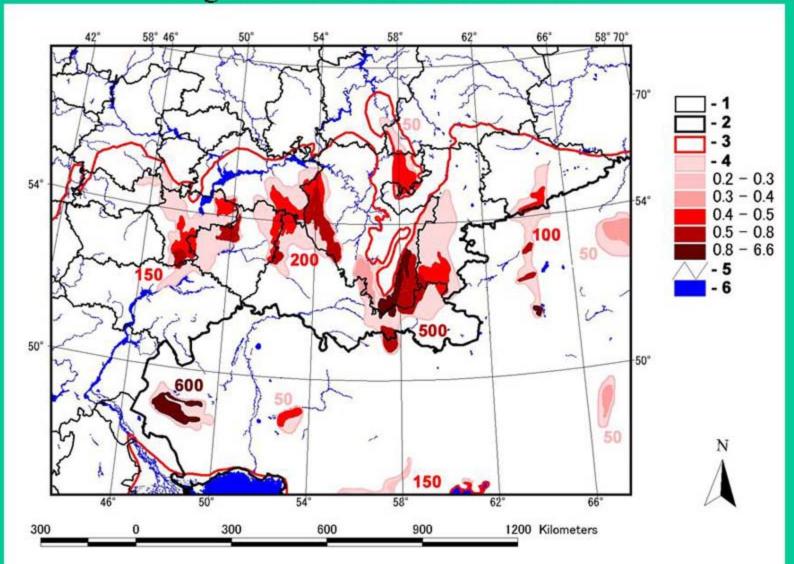
A total of 6500-7500 pairs are estimated to breed in the region under investigation: 3000-3500 pairs – in Russia and 3500-4000 pairs – in Kazakhstan



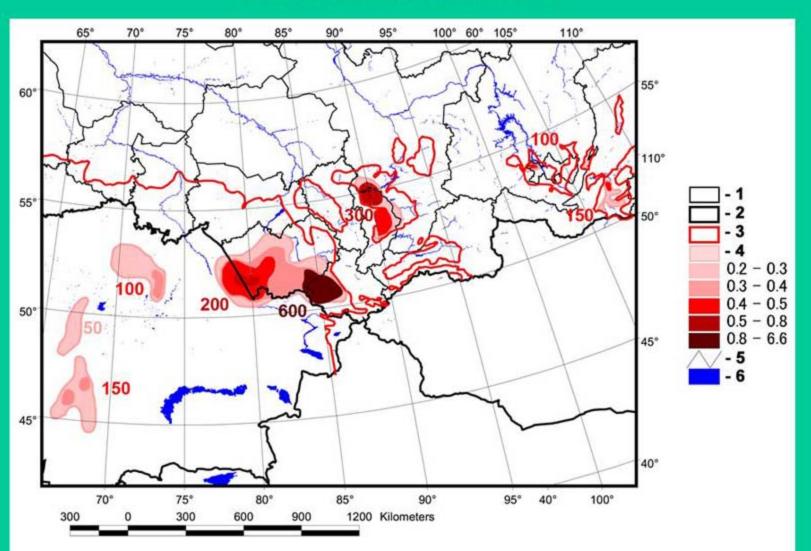
The Imperial Eagle inhabiting such large region breeds from the middle desert zone to subtaiga as in plains as in mountains



Numbers of different breeding groups in the Volga-Ural region and Western Kazakhstan

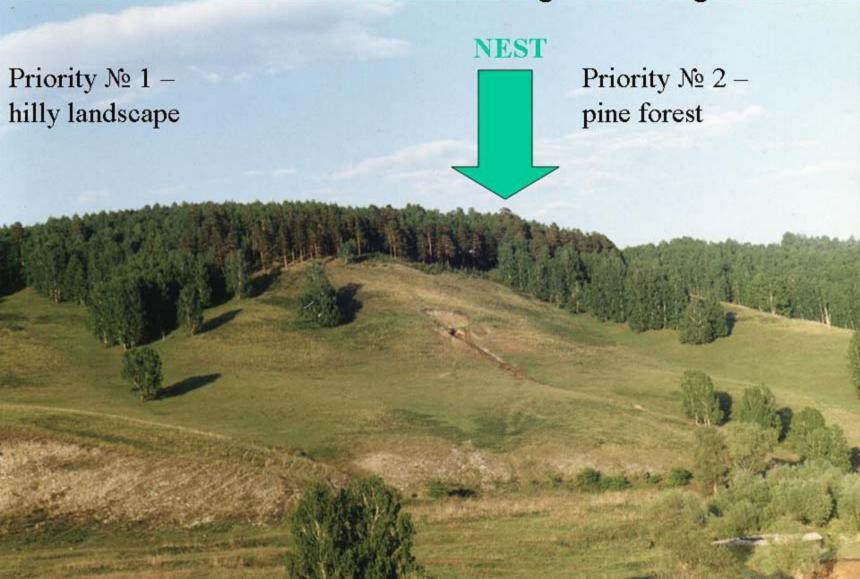


Numbers of different breeding groups in the Southern Siberia and Eastern Kazakhstan

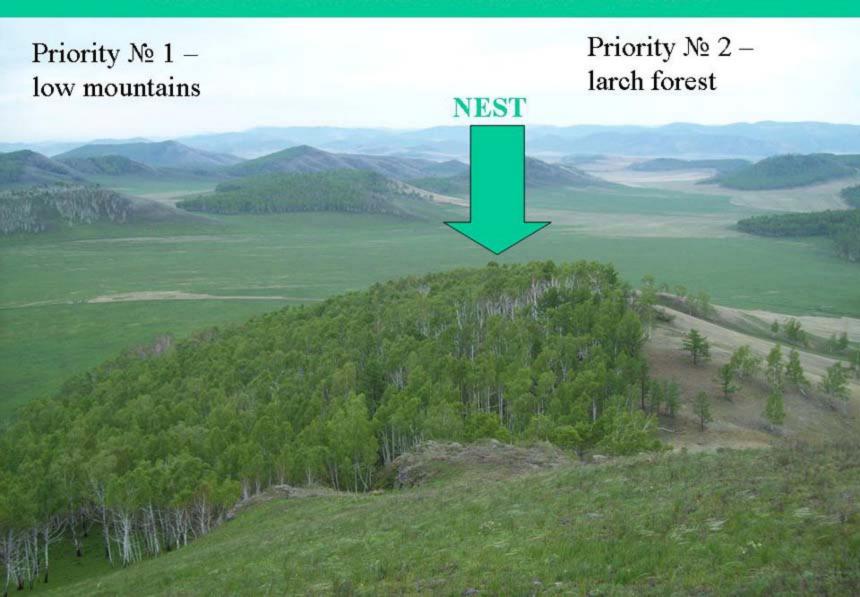


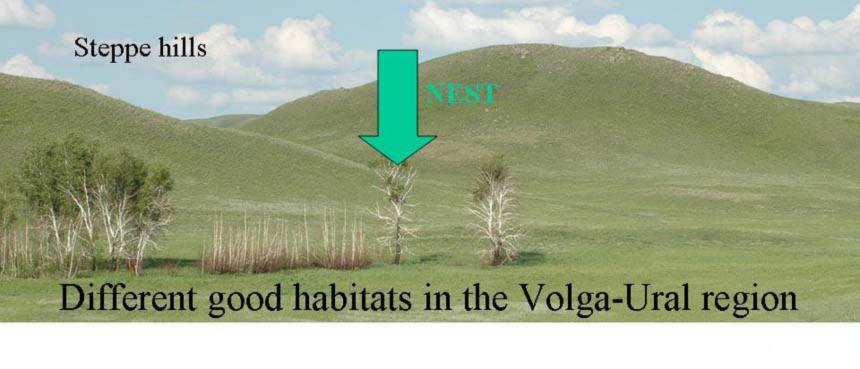


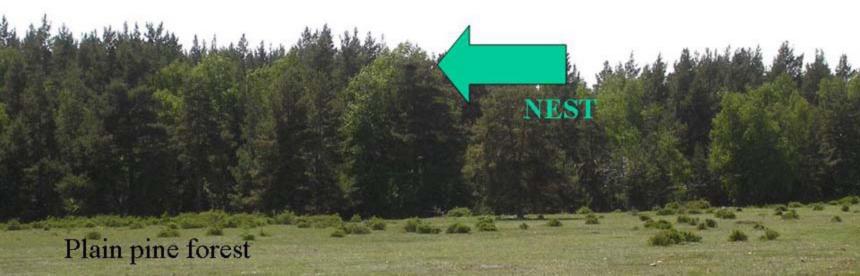
Excellent habitats in the Volga-Ural region



Excellent habitats in Southern Siberia



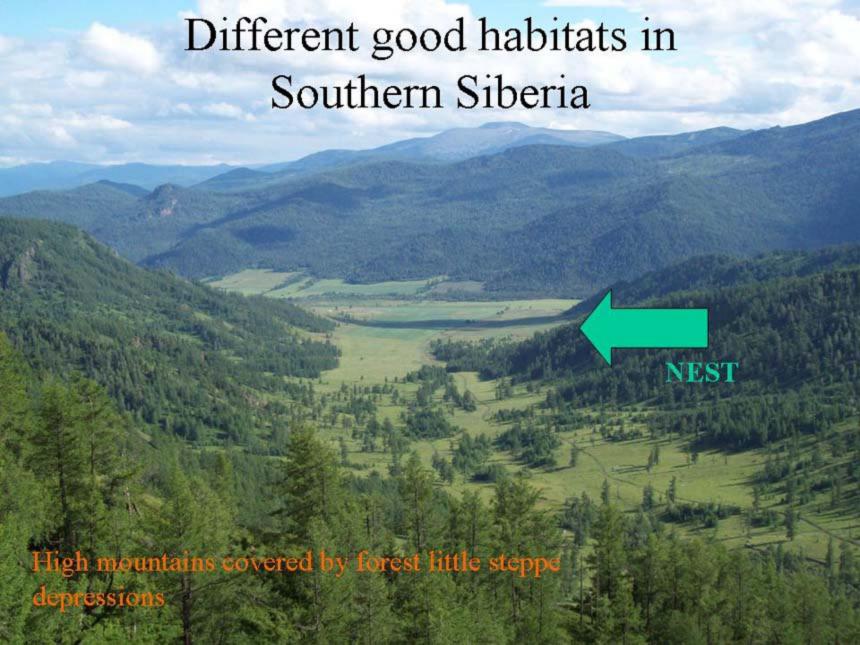




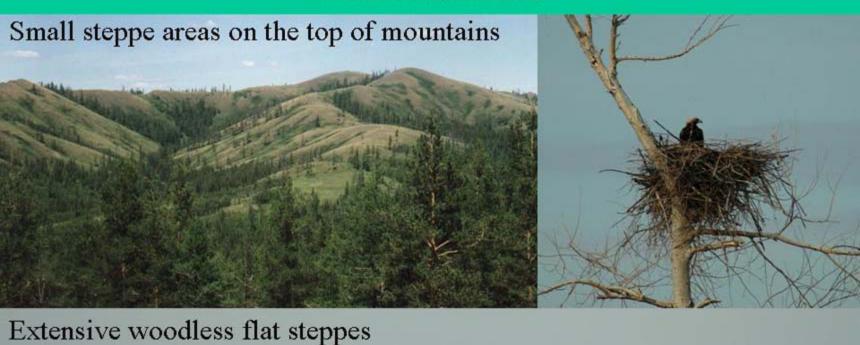
Different good habitats in, Southern Siberia



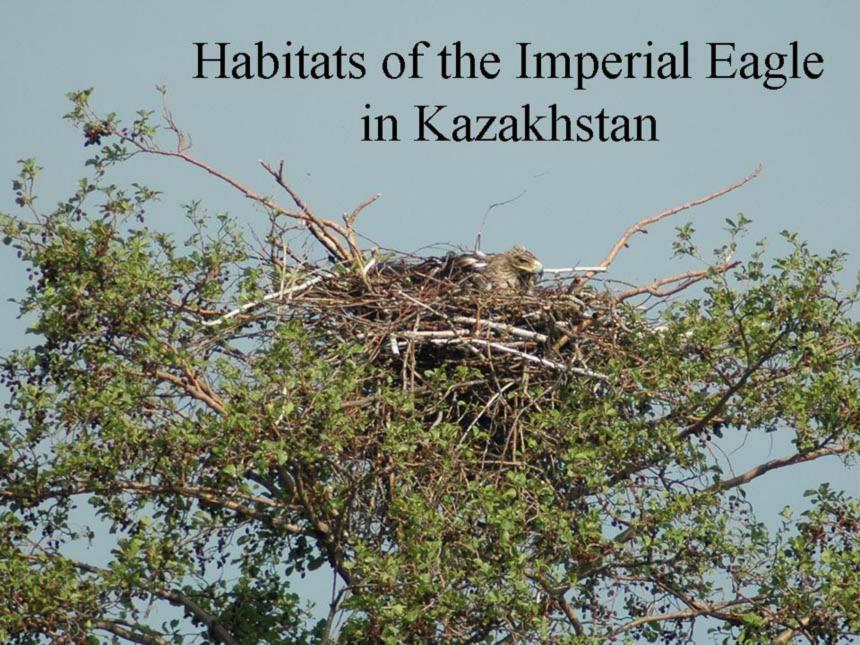
Absence of trees suitable for nesting in steppe habitats



Poor habitats



Zaconsive victories flat steppes





Excellent habitats – pine forests in different landscapes in steppe-forest, steppe and semi-desert zones







Good habitats in deserts Saxaul forests Trees along cliff-faces of plateaus Nest

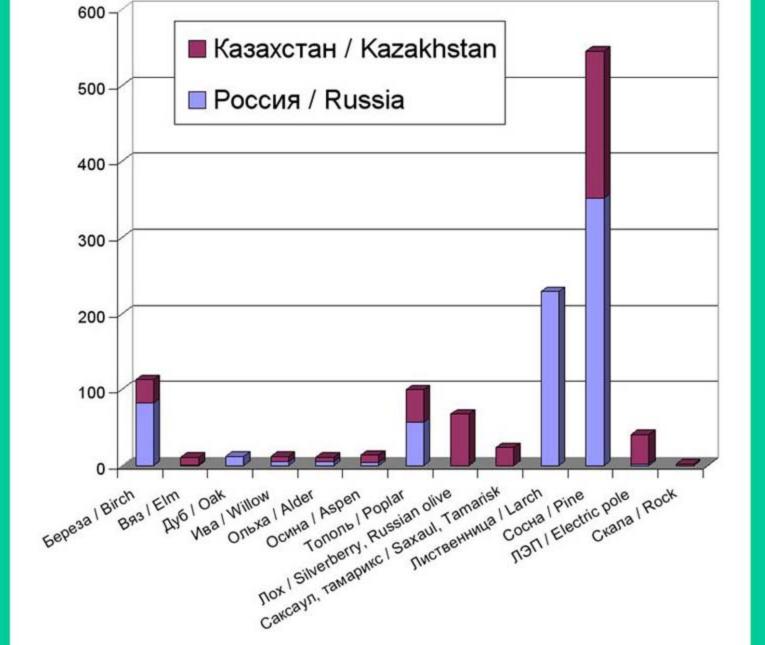
Poor habitats

Extensive woodless flat steppes and deserts





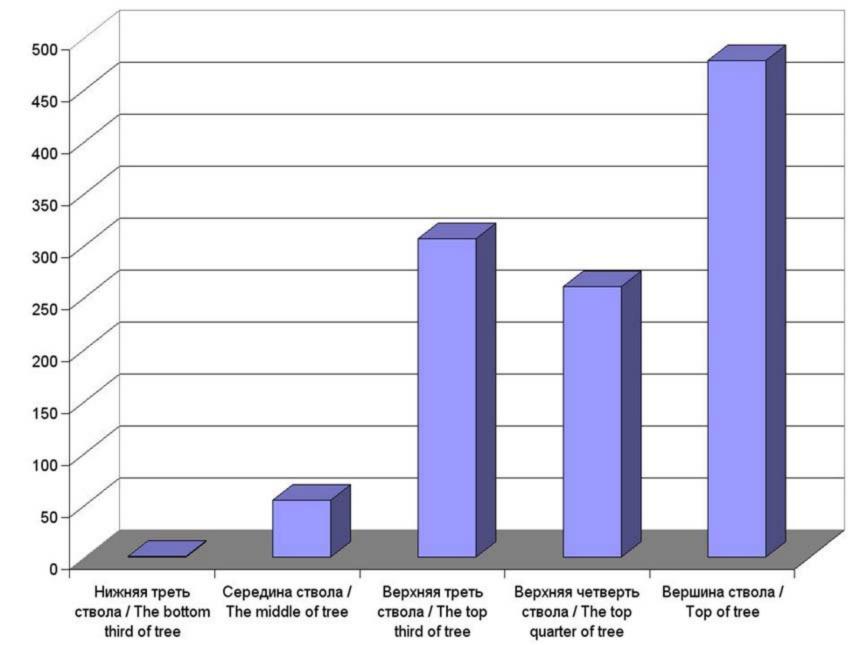


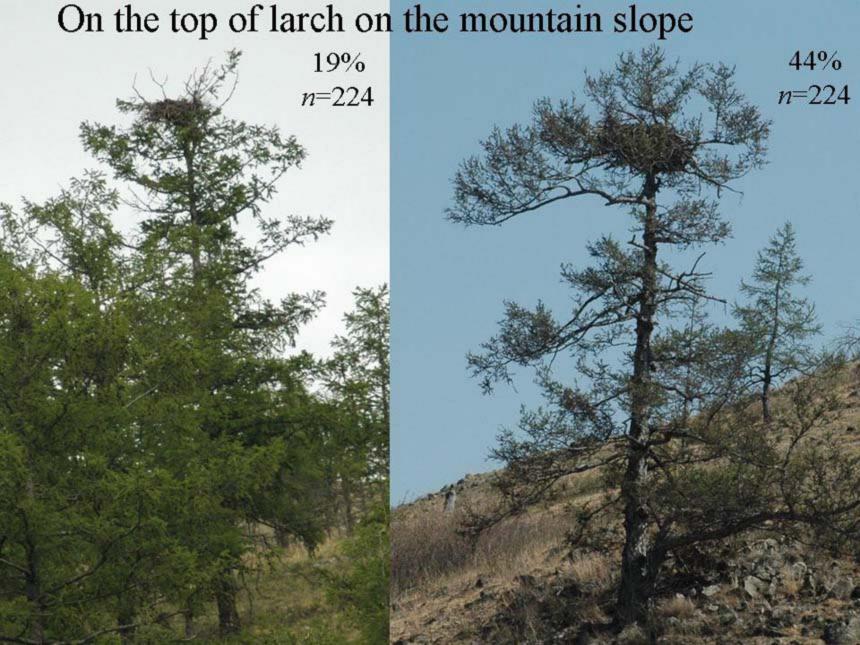


The highest density at the most part of the Imperial Eagle's range in Russia and Kazakhstan is noted for breeding groups nesting on pines and larches







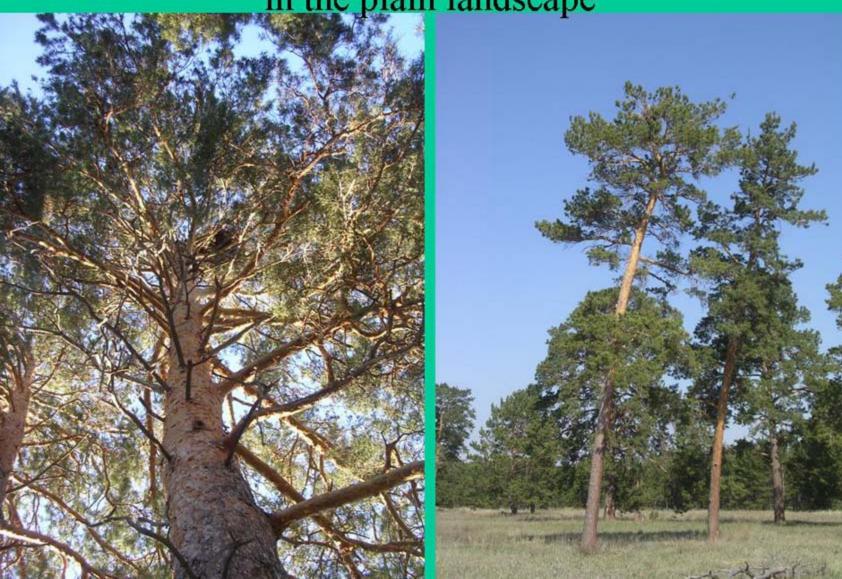


At the middle of larch on the mountain slope

- As an adaptation to the lacking of old trees



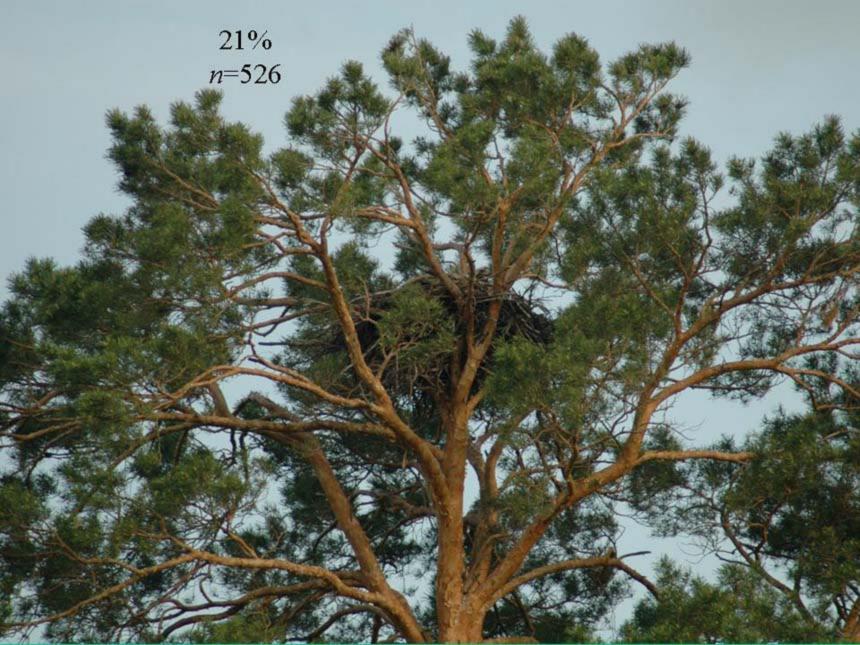
On the top of pine located at the edge of forest in the plain landscape



On the top of the highest pine far from the edge of forest in the hilly landscape









While the density becomes higher than the some limit levels in excellent habitats, the species begins to occupy

habitats where nests are difficult to build.

The first period of adaptation — using other tree species while similar nesting preferences have remained yet.

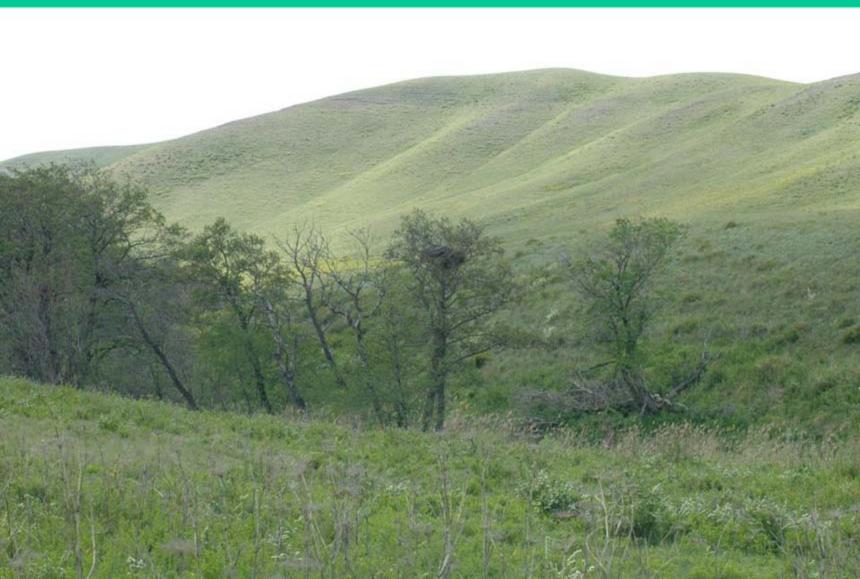
First variant of adaptation

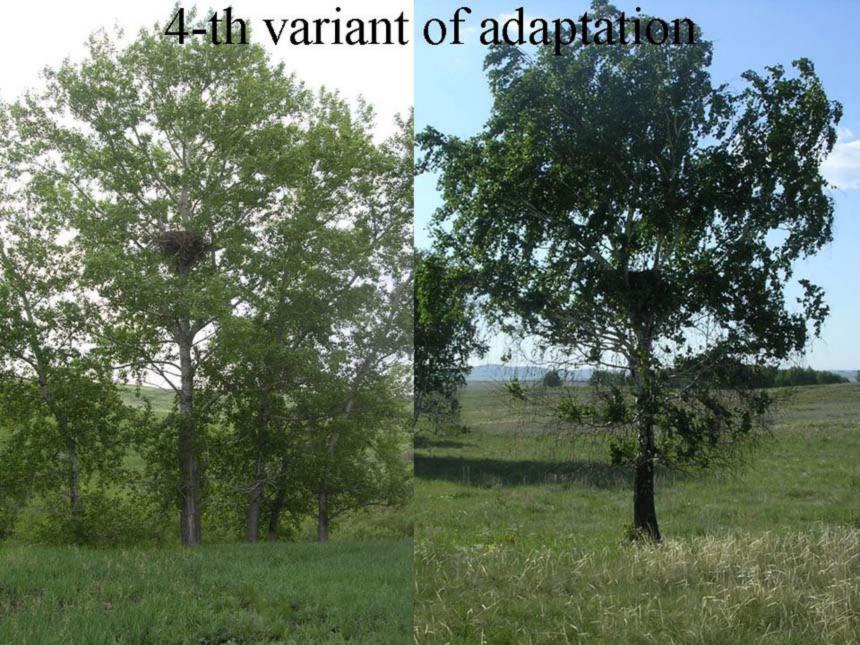


Second variant of adaptation

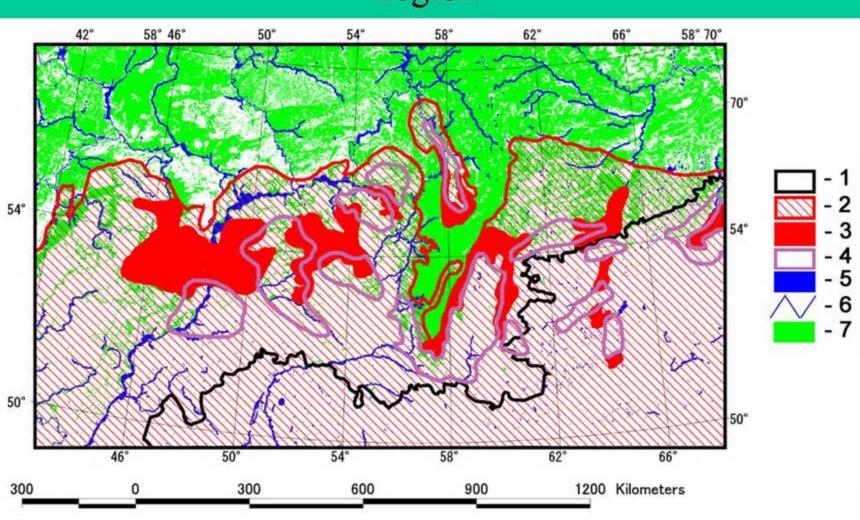


Third variant of adaptation





Distribution of breeding groups of the Imperial Eagle with different nesting preferences in the Volga-Ural region



Several peculiarities of nest distribution when the Imperial Eagle prefers to nest on deciduous trees in forest-steppe

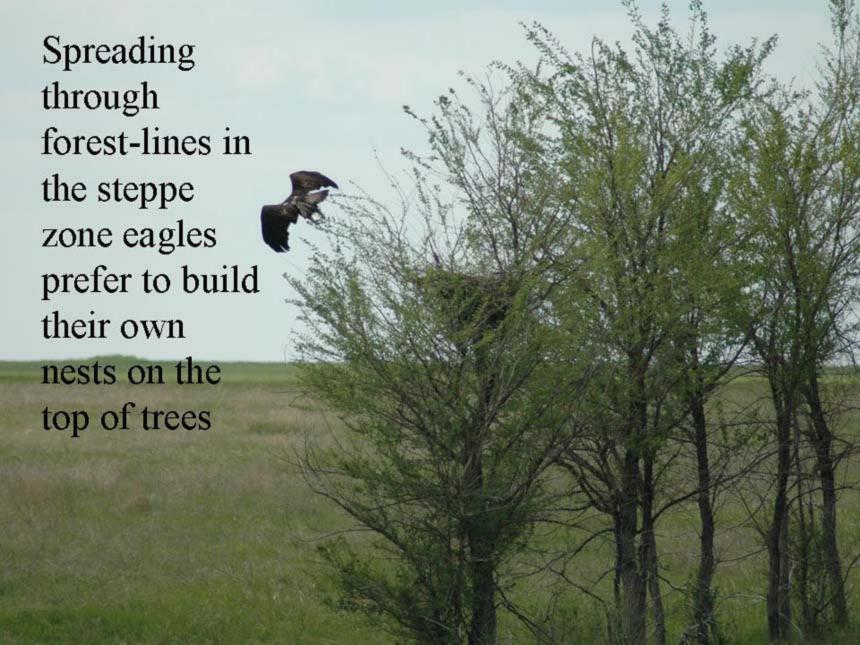
- 90% of nests are located between breeding groups of eagles, nesting on pines and larches
- The highest density is noted for breeding groups located either in hilly landscapes between extensive pine forests or in larch forests in low mountains (however it is always lower than the density in nearest "pine" and "larch" breeding groups)





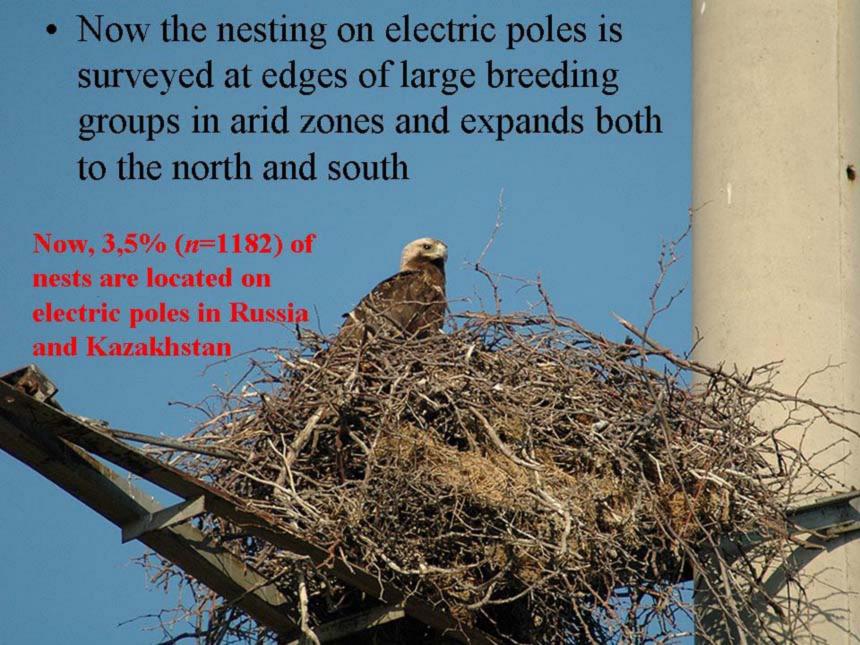
The type of nest location on the top of trees absolutely prevails. It would confirm that the type of nest location in the middle part of tree crown is secondary





Using electric poles is the most extreme adaptation

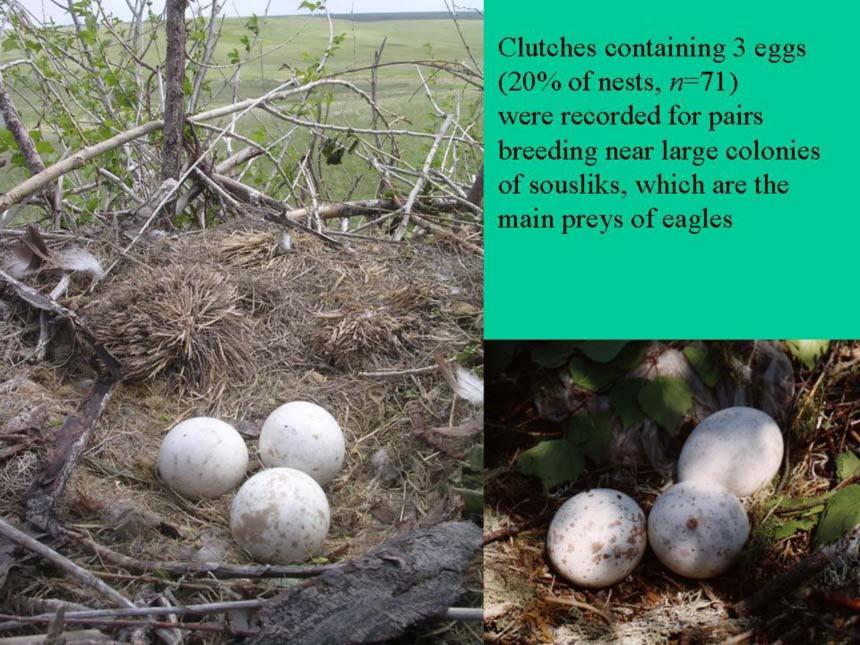












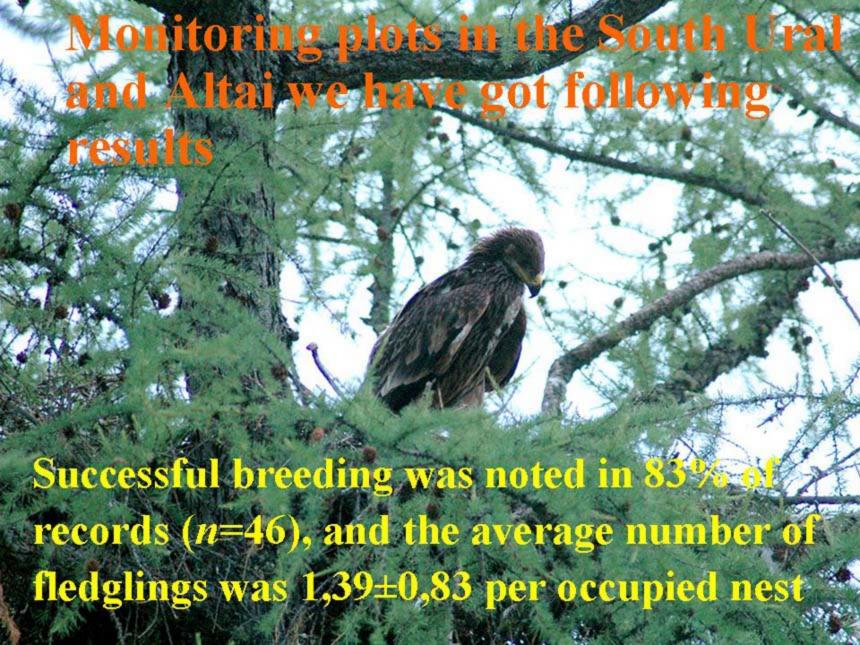
















conditions for eagle hunting

Numbers of cattle were decreased on 29 749 thousands of heads (53%), horses – on 1 million of heads (40%), pigs – on 22 607 thousands of heads (60%), sheep and goats – on 43 423 thousands of heads (75%) in Russia since 1990 to 2000. Also the number of cattle has fallen in 2 times in Russia since 2000 to 2008.

Thus populations of sousliks have declined in extensive territories of forest-steppe and steppe zones of Russia to 2008.

And numbers of Imperial Eagles have stopped to increase in the foreststeppe zone in Russia to 2008, and we note the certain decreasing at the eastern and northern edges of range and stable number in the center of foreststeppe zone from the Volga to the Ob'

As opposed to Russia a number of Imperial Eagle in Kazakhstan is observed to increase with high rates in semi-deserts and deserts within the Yellow Souslik range. Also inhabiting electric poles and saxaul forests in clay semi-deserts Imperial Eagles force out Steppe Eagles inhabiting those territories earlier

