MANAGEMENT OF THE TAIMYR WILD REINDEER POPULATION: PAST, PRESENT AND FUTURE

LEONID A. KOLPASHCHIKOV,* VLADIMIR V. MIKHAILOV,** ANDREY N. PETROV***, ANNA V. PESTEREVA***

*Extreme North Agriculture Research Institute, Russia; ** Saint Petersburg Institute for Informatics and Automation RAS, Russia; ***University of Northern Iowa, USA

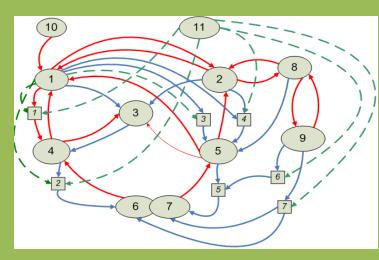
ABSTRACT

OBJECTIVES

☐Improve understanding of the structure and internal relationships within the

☐ Use system approach to analyze Taimyr wild reindeer management framework Develop principles of TRH co-management system

HUMAN-RANGIFER-PASTURE ECO-SYSTEM



(1) Aboriginal population (2) rural non-Aboriginal population , (3) Urban population, (4) domestic reindeer, (5) wild reindeer, (6) predators, (7) domestic reindeer pastures (8) wild reindeer pastures , (9) transportation and industrial infrastructure , (10) state funds, (11) science support

(1) Reindeer herding methods, (2) pasturing, (3-4) hunting technologies, (5) wild reindeer migration routes, (6) methods of migration control, (7) forage grounds



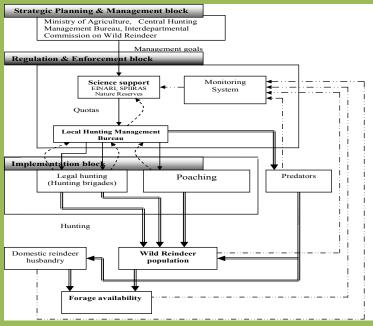


THE SOVIET WILD REINDEER MANAGEMENT SYSTEM

General characteristics

□Driven by scientific planning, little local input
□Oriented towards maximizing production; wild reindeer is a natural resour
□Regulation is based on quotas;





Wild Reindeer Management System in Taimyr

Subject of management: Taimyr Reindeer Herd (TRH)

Region/case study: "Taimyrskiy" State Farm
Strategic Planning & Management block: maintain abundance and structure at

Use of wild reindeer resources under the Soviet

1987 1987 1987 1983 1983 1983 1977 1977 1977

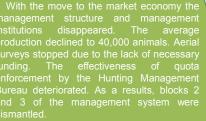
➤ determination of hunting quota
Implementation block: Hunting brigades (Taimyrskiy State Farm and NPO

Ecosystem-level regulation: wild reindeer, competitors, predators, forage base.

conservation and protection of forage grounds

mization of anthropogenic I impacts (fences, gaps in pipelines, etc.

POST-SOVIET PERIOD



TOWARDS A NEW (CO)-MANAGEMENT SYSTEM

General characteristics

□Co-management may be institutionalized through creating cooperatives (Interenterprise consortia).

New structure

Strategic Planning & Management block: Department of natural Resources Regulation and Enforcement block: Local Hunting Management Bureau

Output of hunting activities



