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EFFECTIVNESS OF SELECTION CUTTING IN RUSSIAN FEDERATION



THIS PRESENTATION WILL BE FOLLOWED UP NEXT TOPICS

- *DISTRIBUTION OF PREDOMINANT BREEDS*
- THE SELECTION OF TREES FOR FELLING
- RISKS DURING SELECTIVE CUTTING IN SPRUCE FORESTS
- DOMINATING ON A FINAL LOGGING
- THE INTENSITY OF FELLING AND VOLUME

DISTRIBUTION OF PREDOMINANT BREEDS

- RUSSIAN FORESTS ARE MOSTLY BOREAL (88%)
- HARD-WOODED BROADLEAVED - 2.4%,
- SOFT-WOODED BROADLEAVED - 19.4%.
- GROWING STANDING LARCH OCCUPY- 35.8%,
- PINE - 15.6%,
- SPRUCE - 10.1%,
- BIRCH-15.0%.



THE SELECTION OF TREES FOR FELLING

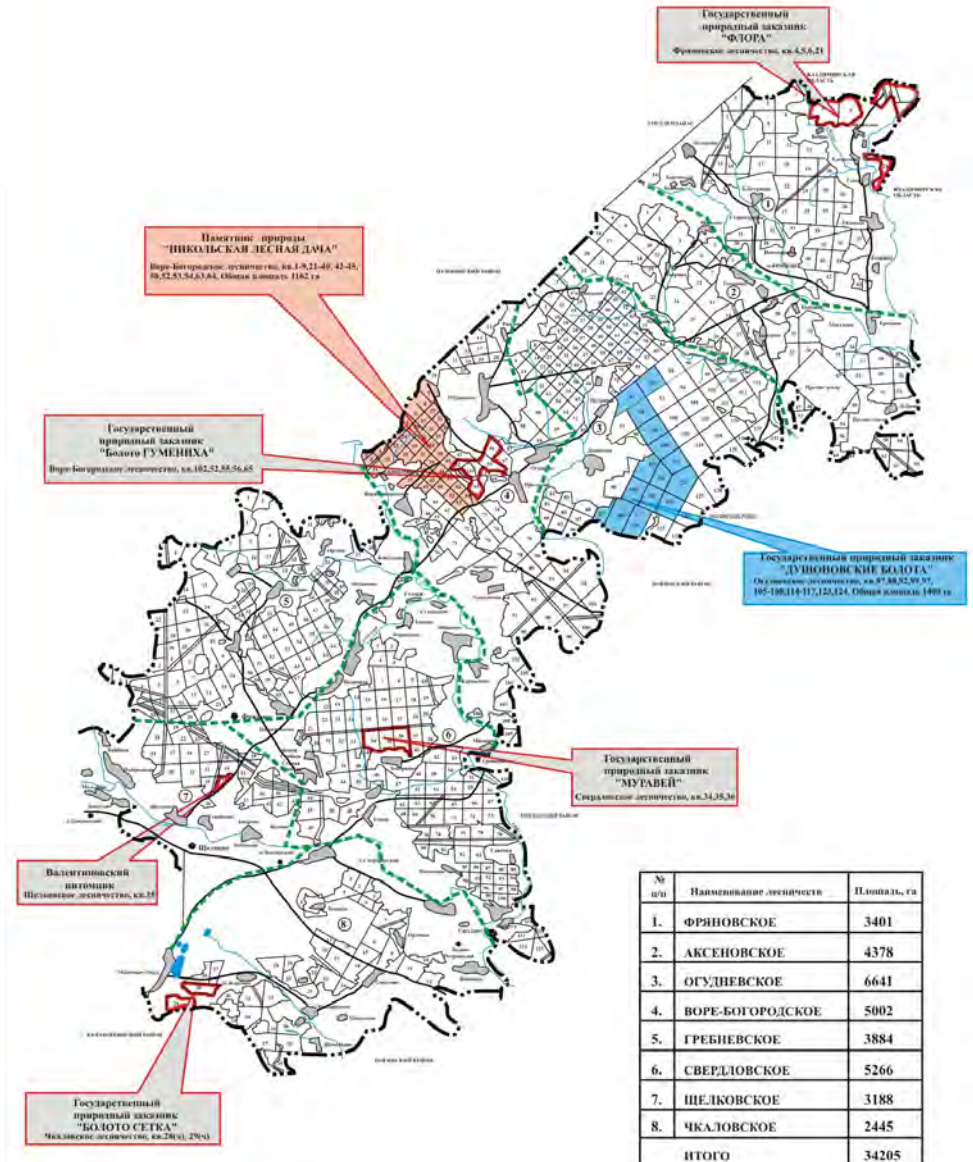
- ECONOMIC AND SILVICULTURAL PREREQUISITES
- METHODS AND TECHNOLOGY OF SELECTIVE CUTTING
- UNDER PRESSING DEMAND FOR A PARTICULAR KIND OF TIMBER
- IN OTHER CASES, THE STANDING SNAG, SICK AND OLD GROWTH FORESTS ARE ASSIGNED TO BE LOG



КАРТА-СХЕМА
Щелковского
учебно-опытного лесхоза

SELECTION-FELLING CUTS, IN ORDER TO DETERMINE THE OPTIMAL NUMBER OF CUTTING TECHNIQUES, TO OBTAIN THE MAXIMUM RECRUITMENT OF THE MAJOR DOMESTIC BREED IN THE SELECTED AREAS.

THIS CUTTING WHEREIN DEFECTIVE TREES ARE CUT IN THE FIRST PLACE THAT IS TREES WITH DEFECTS OF WOOD, OLD GROWTH AND MATURE



RISKS DURING SELECTIVE CUTTING IN SPRUCE FORESTS

- *BLOWDOWN*
- *REDUCING THE TECHNICAL QUALITIES OF THE WOOD OF REMAINING TREES*
- *THE RISK OF FUNGAL INFECTIONS*

DOMINATING ON A FINAL LOGGING

- YOUNGER AGE GROUPS OF FORESTS HELPS TO PRESERVE FOREST ENVIRONMENT
- THINNER SPRUCE TREES DOES NOT EXCEED-15% OF THE GROWING STOCK
- THE NUMBER OF TREES THE THINNER SPRUCE - 40 %
- WHILE FINAL CUTTING IN SPRUCE GROW WITH THE EXPLOITABLE DIAMETER IS 8(CM)
- THE COSTS FOR CUTTING THE WHOLE GROWING STAND REACH- 30%

THE INTENSITY OF FELLING AND VOLUME

- THE AVERAGE INTENSITY OF THE SELECTION OF THE VOLUME IS 55%, INCLUDING SPECIES: SPRUCE - 51%, FIR - 58%, BIRCH – 83%
- TREES THE INTENSITY OF FELLING IS -34%
- ALL-AGED GROWING STOCK AFTER LOGGING WITH THE FOREST DENSITY OF 0.55, VOLUME 137 M3 / HA
- AGE 120 YEARS
- CAPACITY FOR ESTABLISHMENT OF UNDERBRUSH IS 75%.

Species	<u>Wood commodity</u>				Splitwood	Total: merchantable material
	large	middle	small	total		
Spruce	30	39	15	84	4	88
Fir	8	13	6	27	2	29
Birch	3	16	3	22	18	40
Total	41	68	24	133	24	157

THE FINAL OUTCOMES OF THE EXPERIMENT

- COMMERCIAL EFFICIENCY OF THE TWO RECEPTIONS OF THE SELECTIVE CUTTING WAS HIGHER THAN IN FINAL CUTTING (CLEAR FELLING SYSTEM)
- SUCCESSFUL PRACTICAL EXAMPLES OF SEVERAL METHODS OF SELECTIVE CUTTING ON THE SPRUCE STANDS IN THE TAIGA ZONE ARE THE EXCEPTIONS RATHER THAN THE RULE.
- THE NEXT SESSION OF THE SELECTIVE CUTTING IS PLANNED THROUGH 20-30 YEARS.

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