Forest Code of the Russian Federation: a challenge from market and the environment

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Anatoly Petrov (born in 1938) graduated as engineer-economist from Leningrad Forest Academy in 1960 specializing in forestry economics.

In 1966 - candidate of Ec.Sc., since 1973 - doctor of Ec.Sc.

Since 1963 up to 1989 worked in Leningrad Forest Academy.

Since 1977 up to 1988 - vice-rector of Academy on research and international relations.

Since 1989 up to now - rector of Russian Institute of Continuous Education in Forestry.

The scientific specialization: forestry economics, forest policy, forest administration and management.

Mr.Petrov published 370 books, articles and reports, including 7 textbooks.

Mr. Petrov is scientific supervisor of 75 Candidates of Ec.Sc and 8 Doctors of Ec.Sc.

1990-1995 - Member of IUFRO Executive Board

1998-2004 - Member of the European Forest Institute Board

Member of Russian Academy of Natural Sciences.

Honoured Science Worker of the Russian Federation.

Foreign member of the Royal Swedish Academy of Agriculture and Forestry.

Prise Winner of Alfred Toepfer Foundation in Forestry, 2000

Foreign member of Academy of Ec.Sc. in Georgia.

Doctor Honoris Causa of Zvolen Technical University, Slovakia.

Mr.Petrov is a leader of mang international research and educational projects.He is in close cooperation with the World Rank and the ITN Economic Comission.



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			Includ	ing
Data	Measure	Total	European Russia and the Ural	Asian Russia
Forested (stocked) area	mln. ha	776.1	170.3	605.8
Total growing stock	billion m ³	82.1	22.9	59.2
Including:				
Coniferous stands	- " -	61.5	13.2	48.3
Growing stock of mature and overmature stands	- " -	44.3	10.1	34.2
Including:				
Coniferous stands	- " -	34.2	6.4	27.8
Annual growth	mln. m ³	994	377.2	616.6
Allowable cut	mln.m ³	559	216.1	343.1

Forest Resources in the Russian Federation, 2003

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Product	Units	1990	1995	1998	1999	2000	2002	2004
Final cuttings (official statistics)	mln.m ³	304	116.2	78.2	90.0	95.6	101	115.0
Total cuttings (unofficial data)	mln.m ³	340	140	130	157	168	177	196.0
Sawnwood	mln.m ³	75	26.5	18.6	19.1	20.2	22	21.5
Plywood	thou.m ³	1597	939	1102	1324	1506	1808	2233
Particle board	thou.m ³	5568	2206	1568	2763	3225	3762	4761
Fibre board	th.tons	9623	3540	4191	5352	6155	7036	7280
Paper and paper board	th.tons	8325	4080	3595	4535	5312	5921	6789

Outputs of Basic Timber and Paper Products, 1990-2004

Product	unit	1990	1998	1999	2000	2002	2004
Roundwood	mln.m ³	31.4	20	27.6	30.8	36.5	41.5
Sawngoods	mln.m ³	15.7	4.6	6.4	7.8	8.9	13.1
Pulp	th.tons	993	1056	1373	1660	1885	1866
Paper and paper board	th.tons	2761	1767	2048	2299	2500	2590

Total export revenue – 7,4 bln. USA dollars

The Export of Timber and Paper Products, 1990-2004

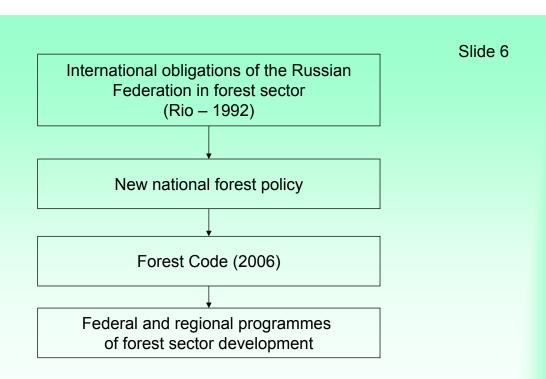
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- 1. Gross domestic product -2.2
- 2. Export return -3.9
- 3. Railway transport of cargo 4.8
- 4. Industrial output -3.2
- 5. Industrial employees 7.8
- 6. Industrial fixed assets -2.3

Forest sector of Russian Federation as a part of national economy (share in percent)

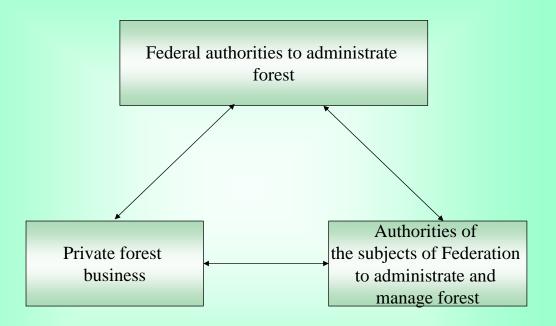
The key strategic goals of the new forest policy:

- to convert the huge biological resources of wood into economic values(gross domestic product, added value and profit).
- To establish new balance of power between Federation, Subjects of Federation and Private Business.
- 3. To separate forest management and forest administration.
- 4. To establish competitive environment in forest sector, including forest management



The road to sustainable forest management in Russian Federation

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The "triangle" of problems to be solved by the new forest legislation

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The principle of federative relations in forest sector is determined by The Constitution of Russian Federation.

According to the article 72 of Constitution all natural resources are in the common competence of the Federation and the Subject of Federation.

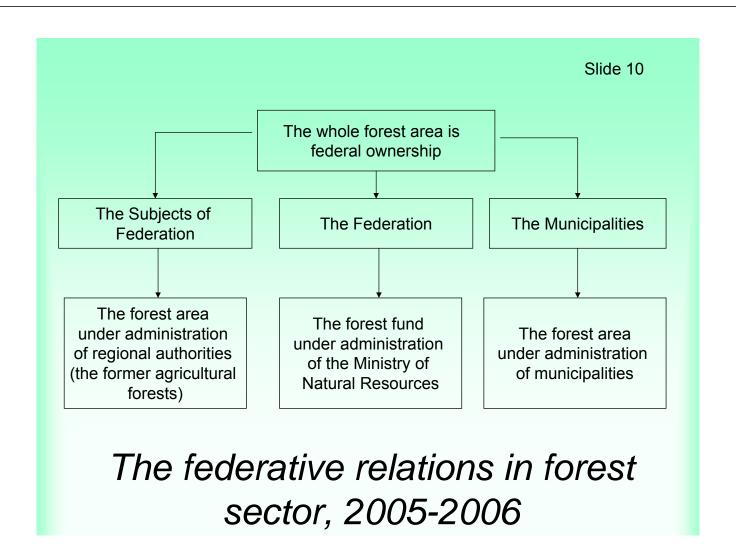
						Slide 9
	el and functions to ministrate forest	Soviet system	Basics of Forest Legislation, 1993	Forest Code, 1997	Federal Law, 2004	Forest Code, 2006
no	Law- making	+	+	+	+	+
Federation	Decision-making	+	0	+)*	+	0
Fed	Supervision	+	+	+	+	+
t of tion	Law- making	0	0	0	0	+
Subject of Federation	Decision-making	0	0	+)*	0	+
SI	Supervision	0	0	0	0	0
ality	Law- making	0	0	0	0	0
Aunicipality	Decision-making	0	+	0	0	0
] 	Supervision	0	0	0	0	0

+ - function presents,

o - function absent,

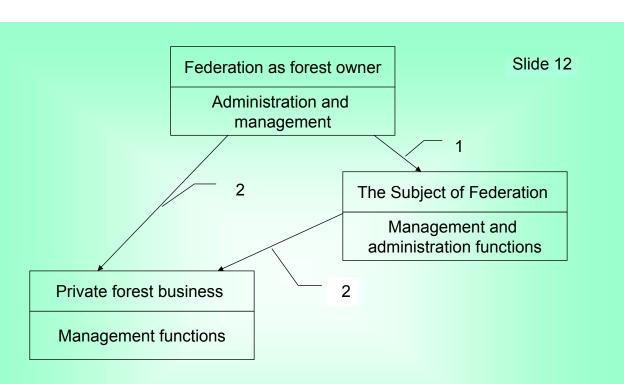
+)* - common competence

Development of the federative relations in forest sector



- 1. Forest area is distributed between the Center and Regions.
- 2. The power to administrate forest is distributed between Center and Regions.
- 3. The power to administrate forest is delegated from the Center and Regions.

Approaches to establish federative relations in forest administration and management

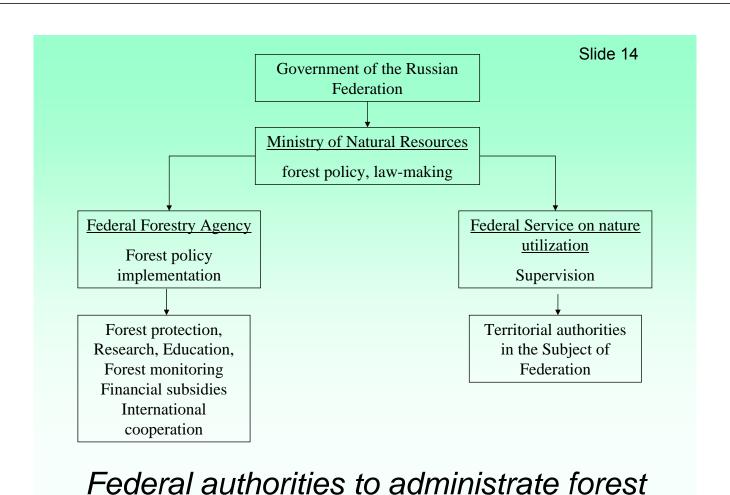


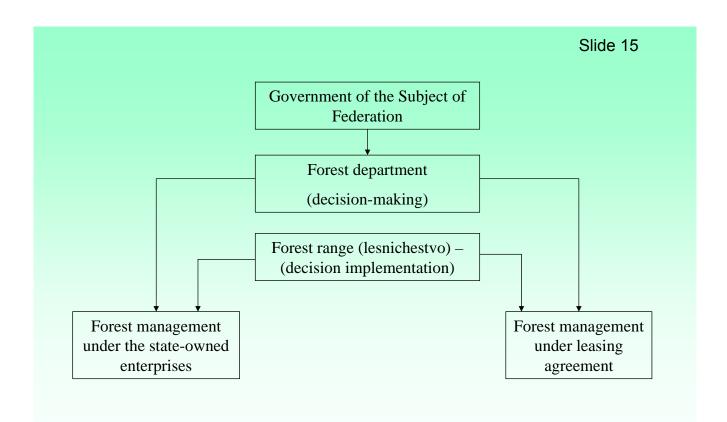
- 1- agreement to delegate administration and management functions;
- 2- leasing agreement

New approach to establish power balance in forest sector by Forest Code, 2006

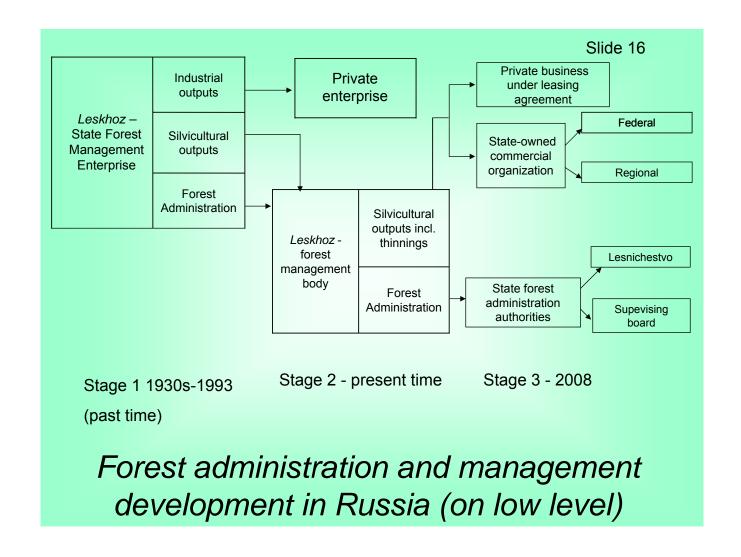
	The rights to be delegated		The responsibilities to be delegated
1.	to grant forest plots for leasing (concession),	1.	to earn forest income in target figure,
2.	to organize the silvicultural operations by the private	2.	to charge forest income to federal budget in target figure,
	business,	3.	to report annually Federal
3.	to organize the silvicultural operations by the state commercial organizations		Forestry Agency concerning forest income and silvicultural activity,
		4.	to report periodically Federal Forestry agency concerning forest fund content

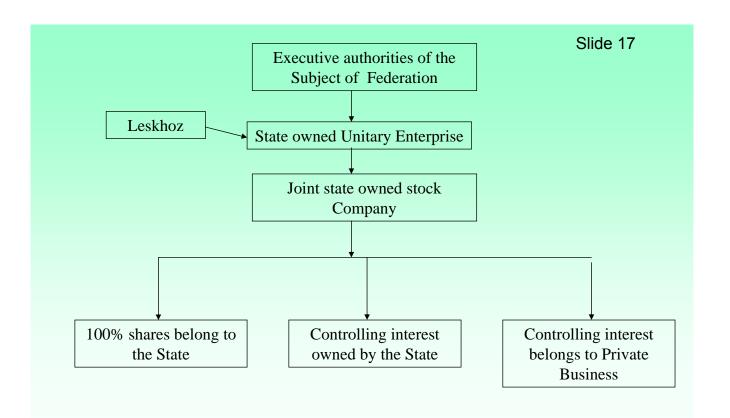
The rights and responsibilities of regions according to agreement





Authorities of the Subject of Federation to administrate and manage forest



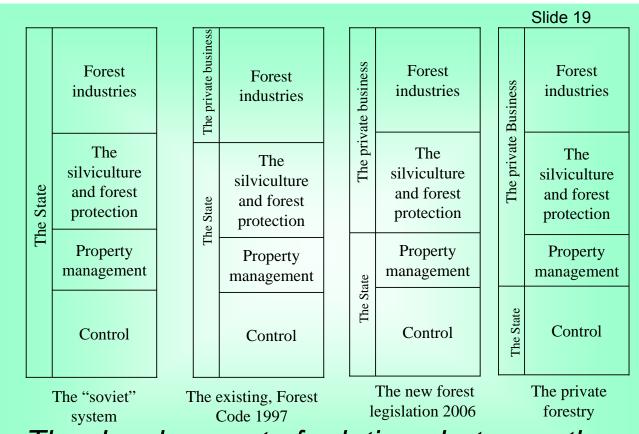


The steps to establish the State-owned forest Enterprise

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- 1. Forest plan of the Subject of Federation (article 86)
- 2. Silvicultural regulations (article 87)
- 3. Plan of forest exploitation (article 88)
- 4. Public examination of forest exploitation plan (article 89)
- 5. Public forest inventory (article 90)
- 6. Public forest register (article 91)
- 7. Public cadastr of forest plots (article 92)
- 8. Public registration of forest plots transactions (article 93)

Legal instruments to administrate forest land



The development of relations between the State and Business

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1. <u>Lease agreement</u>

The territorial forest agency as a forest owner is obliged to allocate tracts of forest resource to forest users (leaseholders) for periods from one year to forty nine years. Such forest tracts may be used for a single purpose or for many purposes.

- 2. <u>Agreements</u>, granting tracts of forest resource on a free-of-charge basis.
- 3. <u>Concession agreements</u> are needed to allocate forest tracts in inaccessible areas with poor or no infrastructure (now they are not used).
- 4. <u>Timber auction</u> agreements are meant for forest resource allocation for a short period (less than one year).

The system of timber allocation in Russia in accordance with Forest Code, 1997

The forms of logging	Share,
organization	%
1. Long-term agreement (leasing)	50
2. Short-term agreement (auction)	15
3. Agreement to cut forest free of charge	-
4. Concession agreement	-
5. Direct distribution by state authorities	35
Total	100

70% of leasing agreements is under 5 years period.

Logging organization in Russian Federation, 2005

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 Leasing agreements with rights to cut wood and responsibility to manage forest land

Period:10-49 years;

2. Cutting agreements with rights only to log trees.

Period: less than 1 years

The forest harvesting in accordance with Forest Code, 2006

- 1. Forest plot is recognized by Civil Code as land plot (article 7)
- 2. Leasing agreements and cutting agreements are regulated by the Civil Code (article 71)
- 3. The cutting permits are replaced by forest declarations (article 26)
- 4. The forest plot is to be estimated by cadastr plan (article 79)
- 5. The leasing rights are to be registrated by public authorities (article 93)

The legal instruments to develop forest leasing

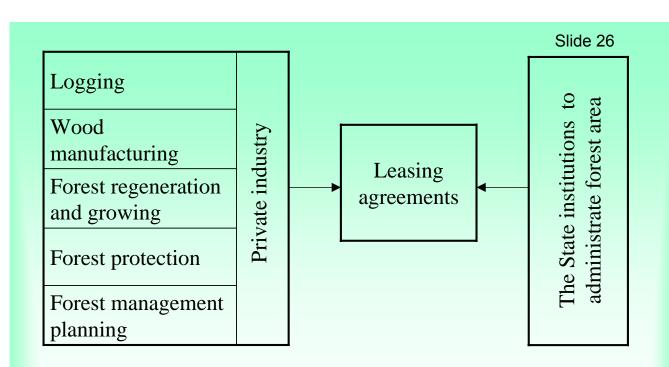
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- to win cutting rights in auction in accordance with Forest Code regulations.
- 2. to get access to forest plot on base of priority investment plan (article 74)

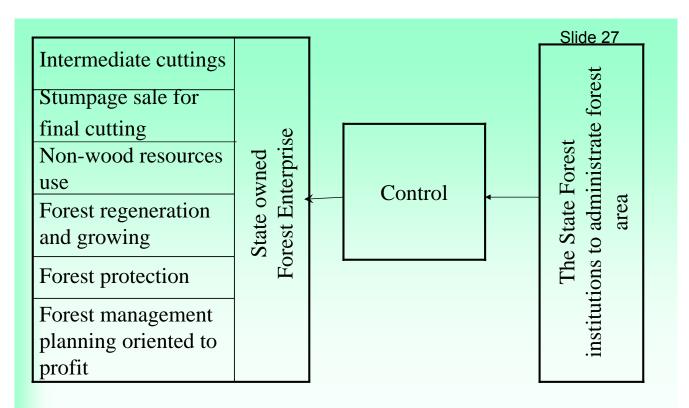
How to get cutting rights in accordance with Forest Code

- 1. Public announcement about forest harvesting auctions (article 79)
- 2. Forest user application in accordance with legal regulations (article 79)
- 3. Forest user participation in bidding process
- 4. Winning of cutting rights offering higher price
- 5. Leasing agreement is signed
- 6. Forest user is responsible to work out plan of forest exploitation
- 7. Plan of forest exploitation is to be examined by the regional authorities
- 8. Annual forest declaration is to be presented to regional forest authorities

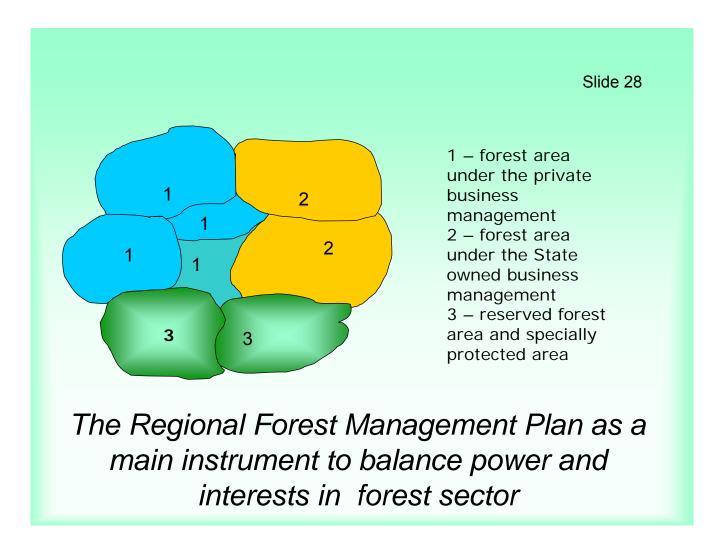
The procedures to get access to forest under leasing agreement



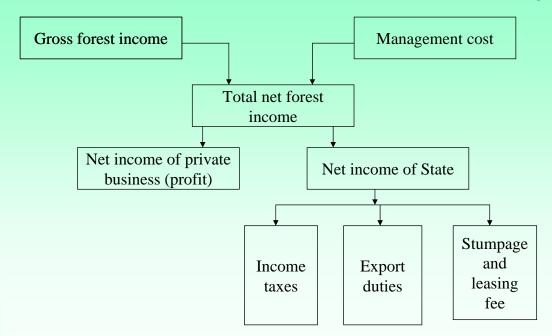
The regions rich in forest: how to administrate and manage forest?



The regions scarce in forest: how to administrate and manage forest?



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Indicators to estimate forest usage by private business

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- 1. Total net forest income per m³ of harvested wood
- 2. Total net forest income per ha of forest area
- Net forest income belonged to the State per m³ of harvested wood
- 4. Net forest income belonged to the State per ha of forest area
- 5. Ratio of stumpage fee to the forest management cost
- Ratio of cost to administrate forest to net forest income belonged to the State

Indicators to estimate forest management under private business

- 1. Gross forest income earned by the state owned commercial enterprises per ha of forest area
- 2. Forest management cost per ha of forest area
- 3. Ratio of gross forest income to management cost
- 4. Ratio of cost to administrate forest to gross forest income

Indicators to estimate forest management under state owned commercial enterprises

Stumpage fee in the Russian Federation (ruble per m³)

	Including					
	Auction price	Leasing fee	Minimum fee approved by the Federation			
1998	19.8	6.5	5.0			
1999	38.9	11.3	7.8			
2000	59.4	16.4	10.6			
2001	77.7	21.7	16.3			
2002	64.4	23.7	19.5			
2003	62.2	23.2	17.3			
2005	70.8	29.1	22.3			

Average stumpage price in 2005 – 47 rubles

Elements of fee	Share, %
1. Federal tax (minimum rate of fee)	78
2. Regional tax	5
3. Market surplus due to auction	17
Total	100

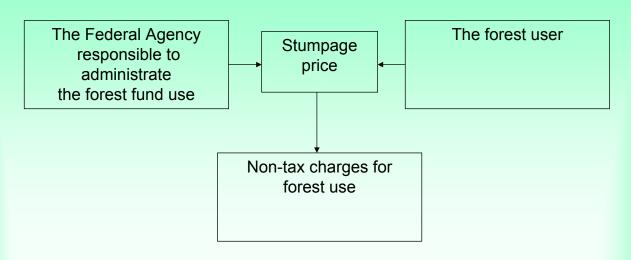
Average cutting fee in 2004 – 43.00 rubles

Structure of cutting fee in Russian Federation, 2004

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The structure of forest administration and management cost by their sources (%)

	Federal budget	Regional budget	Non-budget assets earned by leskhozes
1998	38.5	10.6	50.9
1999	29.7	9.6	60.7
2000	27.3	8.1	64.5
2001	25.4	10.1	64.5
2002	37.3	8.2	54.5
2003	34.4	8.7	56.9
2005	33.0	-	67.0

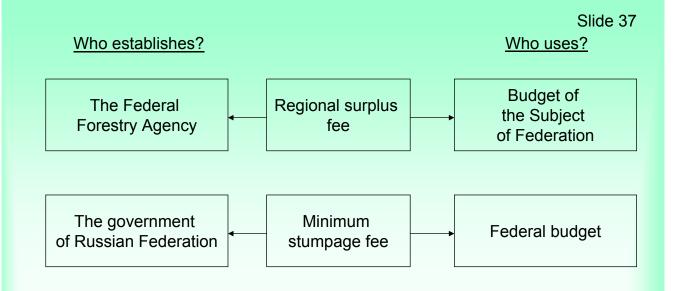


The system of relations between the State and Private Business under the non-tax charges for forest use, 2005-2006

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Administering of charges for forest use represents the system of the forest owner actions directed to

- Collect and analyze the forest inventory and commercial information (cost and revenues in forest sector),
- Calculate the basic rates of charge for forest use,
- Collect the charges from forest users,
- Assess the charges upon the budgets

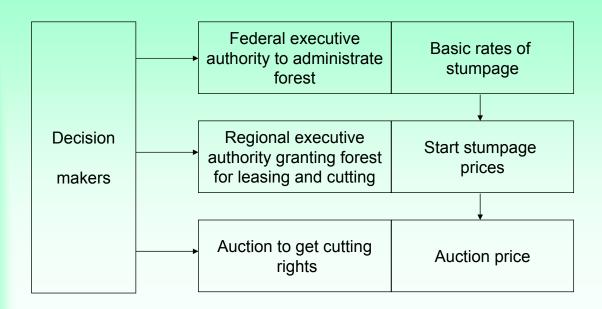


The system of stumpage pricing under administering of charges for forest use, 2005-2006

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Administering of Charges for Forest use requires:

- 1. To establish the special institutions under the Federal Forestry Agency to administrate the forest charges,
- 2. To approve the Methods to calculate forest charges by the Government.
- 3. To approve the Methods to calculate prices for completed forest management operations by Federal Forestry Agency,
- 4. To approve the standards of logging cost under leasing (concession) system,
- 5. To establish the permanent negotiations process between the state authorities and forest business at regional level,
- 6. To approve the basic rates of charges by the Federal Forestry Agency,
- 7. To approve the normative cost to reproduce forest by the Government



System of stumpage prices under forest management decentralization

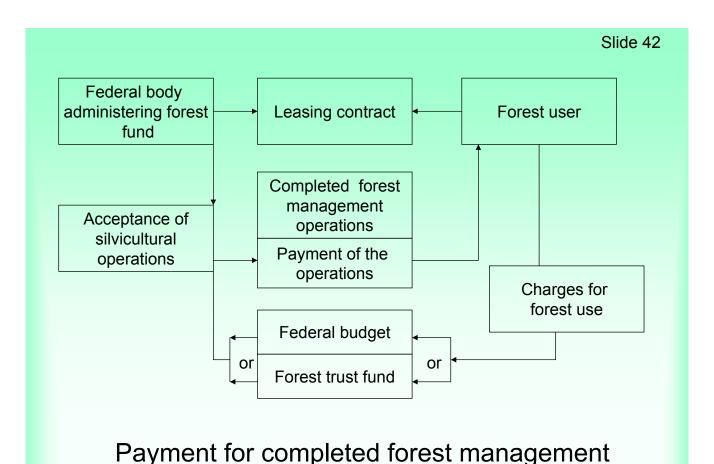
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There are two approaches to finance the completed forest management operations under the leasing system

- Payment for completed forest management operations from budget or special trust fund. The silvicultural operations are carried out by forest users and paid by the bodies administering forest fund,
- 2. Forest management operations cost are included to the direct cost of forest users.

Why it is impossible to include the forest management cost to the direct cost of forest users

- 1. Forest management cost as an element of direct logging cost means the double assessment by charges
- 2. Unequal access to forest resources for logging companies under:
 - a. Leasing contracts without responsibility to manage forest (management cost are absent),
 - b. Leasing contracts with responsibility to manage forest (management cost increase the total cost),
- 3. It will be impossible to control the silvicultural operations without financial flows regulating.



operations under long-term leasing contracts

Indicator	Roundwood exports	Domestic Market
1. Free to the boarder (Finland)	30.0	-
2. Free to the customer	-	20
3. Rail way tariff	12.0*	4.0**
4. Loggers' profits, including taxes and stock accumulation	4.0	4.0
5. Prime cost of forest logging - free to low landing	8.0	8.0
6. Forest rent revenue (Stumpage price)	6.0	4.0

^{*}The tariffs have been raised thrice as higher.

Forest Rent Revenue (Forest Resource Charges) in US\$/m³

Stumpage System Details

Ministry of Slide 44
Natural Resources

Applies to Period 3 - from July 1 to July 28, 1995				Natural Resources			Ollue 44
Applies to Period 3 - from Stumpage M		0 July 20,	1993	ONTARIO			
Per m3	Pulp	Veneer/ply	Sawmill	Composite	Paper	Fuelwd	nes
Pr/Pw minimum stumpage forest renewal charge assigned	1.25	1.25	1.25	1.25	1.25	1.25	1.25
rate in lieu of RV stumpage from residual calculated		11.0	11.0	11.0	11.0	11.0	11.0
stumpage							6.9
stumpage	17.5	1.44	1.44	4.25	10.01		
	29.75	13.69	13.69	16.5	22.26	12.25	19.15
Conifer minimum stumpage forest renewal charge	1.25	1.25	1.25	1.25	1.25	1.25	1.25
assigned rate in lieu of RV stumpage from residual calculated stumpage		6.0	6.0	6.0	6.0	6.0	6.0
							6.3
	17.5			4.25	10.01		
	24.75	7.25	7.25	11.5	17.26	7.25	13.6
<i>Po/Bw</i> minimum stumpage forest renewal charge assigned	1.25	1.25	1.25	1.25	1.25	1.25	1.25
rate in lieu of RV stumpage from residual calculated	0.5	0.5	0.5	0.5	0.5	0.5	0.5
stumpage			_				8.5
Stampage .	17.5 19.25	8.33	2.66	4.25	10.01		
		10.08	4.41	6.00	11.76	1.75	10.3
Hwd G1 minimum stumpage forest renewal charge	1.25	1.25	1.25	1.25	1.25	1.25	1.25
assigned rate in lieu of RV stumpage from residual		8.0	8.0	8.0	8.0	8.0	8.0
calculated stumpage		12.0					9.6
carculated stumpage	17.5		4.43	4.25	10.01		
	26.75	21.25	13.68	13.5	19.26	9.25	18.85
Hwd G2 minimum stumpage forest renewal charge assigned rate in lieu of RV stumpage from residual	1.25	1.25	1.25	1.25	1.25	1.25	1.25
		1.5	1.5	1.5	1.5	1.5	1.5
calculated stumpage		2.0		2.0			2.1
curculated stampage	4.38				2.5		
	7.13	4.75	2.75	4.75	5.25	2.75	4.95

Reference Prices

Troisings 1 11005				
Exchange Rate	1.3764	Bank of Canada. Wednesday noon average		
Pulp	\$ 910.00	Pulp & Paper week, bleached softwood Kraft in SUS. June average		
Veneer/ply	\$ 82.81	from sector. Po/Bw in \$Cdn. for the month of June		
Sawmill Pr/Pw	\$ 507.50	Random Lengths. Eastern Pw 1x6 Std KD in SUS		
Sawmill conifer	\$ 279.75	Random Lengths. Chicago SPF 2x4 Std fc Btr in \$US		
Sawmill Po/Bw	\$ 253.21	Northern Hwds. Aspen 68.5%+ Birch 31.5%. FOB mill. \$US. 27/05/95 to 17/06/95		
Sawmill HwdG1	\$ 410.69	Northern Hwds. Mh 77%+Be 15%+Birch 8%. FOB mill. SUS. 27/05/95 to 17/06/95		
Composite	\$ 188.25	Random Lengths. 7/16 inch North Central in \$US		
Paper	\$ 680.00	Pulp & Paper week. 30 lb. newsprint in SUS. June average		

^{**}To distances up to 1,200 km.