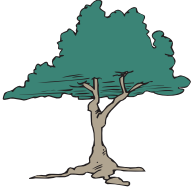






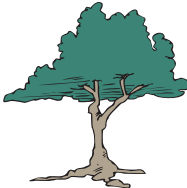




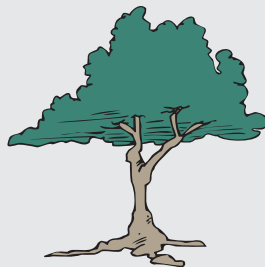
# Modelo ARBOR



## Manejo Florestal Combinatório

Primeiro e Segundo Corte	Arbor <b>C</b> Corte		$\vec{\nabla} \cdot \vec{A}$		Idades e Opções dos Cortes
		Arbor <b>R</b> Reforma		$\vec{A} \times \vec{B}$	
	$\vec{A} \cdot \vec{B}$		Arbor <b>C</b> Corte		
		$\vec{\nabla} \times \vec{B}$		Arbor <b>R</b> Reforma	

Celulose - Energia - Aglomerado



# MATEMÁTICA FLORESTAL

Prof. Aguinaldo Prandini Ricieri

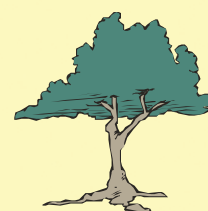


# Solução Ótima do Modelo Arbor

**FUNÇÃO OBJETIVO DO ARBOR: OBJ = 1067332.9 (UM)**



\*\*\* 10 LOTES / 115 OPCOES DE MANEJO \*\*\*



**\*\* OPÇÕES ÓTIMAS DE MANEJO \*\***

LOTE	ÁREA	OPCAO	ANOS									
			1	2	3	4	5	6	7	8	9	10
1	225.	1	0	0	0	0	1	0	0	0	0	2
2	410.	6	2	0	0	0	0	3	0	0	0	0
3	480.	17	1	0	0	0	0	0	2	0	0	0
4	320.	32	1	0	0	0	0	0	2	0	0	0
5	275.	40	0	2	0	0	0	0	3	0	0	0
6	305.	55	0	0	2	0	0	0	0	3	0	0
7	254.	66	2	0	0	0	0	3	0	0	0	0
8	400.	84	1	0	0	0	0	0	2	0	0	0
9	320.	88	0	0	2	0	0	0	0	3	0	0
10	320.	99	2	0	0	0	0	3	0	0	0	0

**\*\* PRODUÇÃO NO HORIZONTE DE PLANEJAMENTO (m3) \*\***

ANO	VOLUME	CELULOSE	AGLOMERADO	ENERGIA
1	295921.	230954.	18794.	46173.
2	27775.	16775.	2475.	8525.
3	53326.	32652.	4348.	16326.
4	0.	0.	0.	0.
5	31500.	24750.	2025.	4725.
6	138420.	107890.	9415.	21115.
7	173234.	117596.	12709.	42929.
8	83935.	65535.	5642.	12758.
9	0.	0.	0.	0.
10	22050.	13500.	1800.	6750.



## Opções de Manejo Florestal do Arbor e seus Valores

OPÇÃO	LOTE	VALOR	ANOS DO HORIZONTE DE PLANEJAMENTO									
			1	2	3	4	5	6	7	8	9	10
1	1	234.	0	0	0	0	1	0	0	0	0	2
2	1	158.	0	0	0	0	0	1	0	0	0	0
3	1	152.	0	0	0	0	0	0	1	0	0	0
4	1	146.	0	0	0	0	0	0	0	1	0	0
5	1	139.	0	0	0	0	0	0	0	0	1	0
6	2	316.	2	0	0	0	0	3	0	0	0	0
7	2	312.	2	0	0	0	0	0	3	0	0	0
8	2	307.	2	0	0	0	0	0	0	3	0	0
9	2	302.	2	0	0	0	0	0	0	0	3	0
10	2	296.	2	0	0	0	0	0	0	0	0	3
11	2	296.	0	2	0	0	0	0	3	0	0	0
12	2	292.	0	2	0	0	0	0	0	3	0	0
13	2	288.	0	2	0	0	0	0	0	0	3	0
14	2	283.	0	2	0	0	0	0	0	0	0	3
15	2	160.	0	2	0	0	0	0	0	0	0	0
16	3	378.	1	0	0	0	0	2	0	0	0	0
17	3	381.	1	0	0	0	0	0	2	0	0	0
18	3	381.	1	0	0	0	0	0	0	2	0	0
19	3	381.	1	0	0	0	0	0	0	0	2	0
20	3	378.	1	0	0	0	0	0	0	0	0	2
21	3	359.	0	1	0	0	0	0	2	0	0	0
22	3	361.	0	1	0	0	0	0	0	2	0	0
23	3	361.	0	1	0	0	0	0	0	0	2	0
24	3	361.	0	1	0	0	0	0	0	0	0	2
25	3	341.	0	0	1	0	0	0	0	2	0	0
26	3	343.	0	0	1	0	0	0	0	0	2	0
27	3	343.	0	0	1	0	0	0	0	0	0	2
28	3	321.	0	0	0	1	0	0	0	0	2	0
29	3	323.	0	0	0	1	0	0	0	0	0	2
30	3	303.	0	0	0	0	1	0	0	0	0	2
31	4	493.	1	0	0	0	0	2	0	0	0	0
32	4	496.	1	0	0	0	0	0	2	0	0	0
33	4	495.	1	0	0	0	0	0	0	2	0	0
34	4	495.	1	0	0	0	0	0	0	0	2	0
35	4	492.	1	0	0	0	0	0	0	0	0	2
36	4	466.	0	1	0	0	0	0	2	0	0	0
37	4	468.	0	1	0	0	0	0	0	2	0	0