

FPS - Silvicultural Treatment Response Classification

<u>Site Class</u>	CASH Card (Correct Age, Site, Height)												
25yr	35	40	45	50	55	60	65	70	75	80	85	90	95
50yr	40	50	60	70	80	90	100	110	120	130	140	150	160
10m	<u>1.0</u>	<u>2.0</u>	<u>3.0</u>	<u>4.0</u>	<u>5.0</u>	<u>6.0</u>	<u>7.0</u>	<u>8.0</u>	<u>9.0</u>	<u>10.0</u>	<u>11.0</u>	<u>12.0</u>	<u>13.0</u>
<u>%Regen</u>	<i>Number of Years to Achive 20-foot Total Height (6 meters)</i>												
40%	152	76	51	38	30	25	22	19	17	15	14	13	12
52%	117	59	39	29	23	20	17	15	13	12	11	10	9
64%	95	48	32	24	19	16	14	12	11	10	9	8	7
76%	80	40	27	20	16	13	11	10	9	8	7	7	6
88%	69	35	23	17	14	12	10	9	8	7	6	6	5
100%	61	30	20	15	12	10	9	8	7	6	6	5	5
112%	54	27	18	14	11	9	8	7	6	5	5	5	4
124%	49	25	16	12	10	8	7	6	5	5	4	4	4
136%	45	22	15	11	9	7	6	6	5	4	4	4	3
148%	41	21	14	10	8	7	6	5	5	4	4	3	3

Method:

- 1) Get ring count at stump and 20-foot height on tree. Select column for local Site Index.
- 2) **%Regen** = Early silvicultural height growth as % of Site Capacity Height Growth.
- 3) **%Regen** = In selected Site column, look up #yrs for (Stump age - 20ft height age).
- 4) Apply **%Regen** column to **localize FPS Growth Model** projections for this stand.



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FPS - 10-meter Site - Curve Shape Classification

CASH Card (Correct Age, Site, Height)

Site Class	40	50	60	70	80	90	100	110	120	130	140	150	160
50yr	40	50	60	70	80	90	100	110	120	130	140	150	160
10m	<u>1.0</u>	<u>2.0</u>	<u>3.0</u>	<u>4.0</u>	<u>5.0</u>	<u>6.0</u>	<u>7.0</u>	<u>8.0</u>	<u>9.0</u>	<u>10.0</u>	<u>11.0</u>	<u>12.0</u>	<u>13.0</u>
feet/year	0.3	0.7	1.0	1.3	1.6	2.0	2.3	2.6	3.0	3.3	3.6	3.9	4.3
Shape%	Number of Years to Grow from 67 to 100 feet in Height (20 to 30 meters)												
100%	100	50	33	25	20	17	14	13	11	10	9	8	8
92%	109	54	36	27	22	18	16	14	12	11	10	9	8
84%	119	60	40	30	24	20	17	15	13	12	11	10	9
76%	132	66	44	33	26	22	19	16	15	13	12	11	10
68%	147	74	49	37	29	25	21	18	16	15	13	12	11
60%	167	83	56	42	33	28	24	21	19	17	15	14	13
52%	192	96	64	48	38	32	27	24	21	19	17	16	15
44%	227	114	76	57	45	38	32	28	25	23	21	19	17
36%	278	139	93	69	56	46	40	35	31	28	25	23	21
28%	357	179	119	89	71	60	51	45	40	36	32	30	27

Method:

- 1) Get ring count at 10, 20 and 30-meter heights on site tree (34, 67 and 100-ft heights)
- 2) **10-meter site index** = $100 / (\#Rings\ at\ 10m - \#Rings\ at\ 20m)$
- 3) **10-meter Shape index** = $(\#Rings\ at\ 10m - \#Rings\ at\ 20m) / (\#Rings\ at\ 20m - \#Rings\ at\ 30m)$
- 4) Apply Shape% column to **localize FPS Growth Model** projections for this stand.



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