

Seedling Quality

Auburn University Cooperative Short Course



Christopher Rosier
Nursery Operations Manager
CellFor Inc
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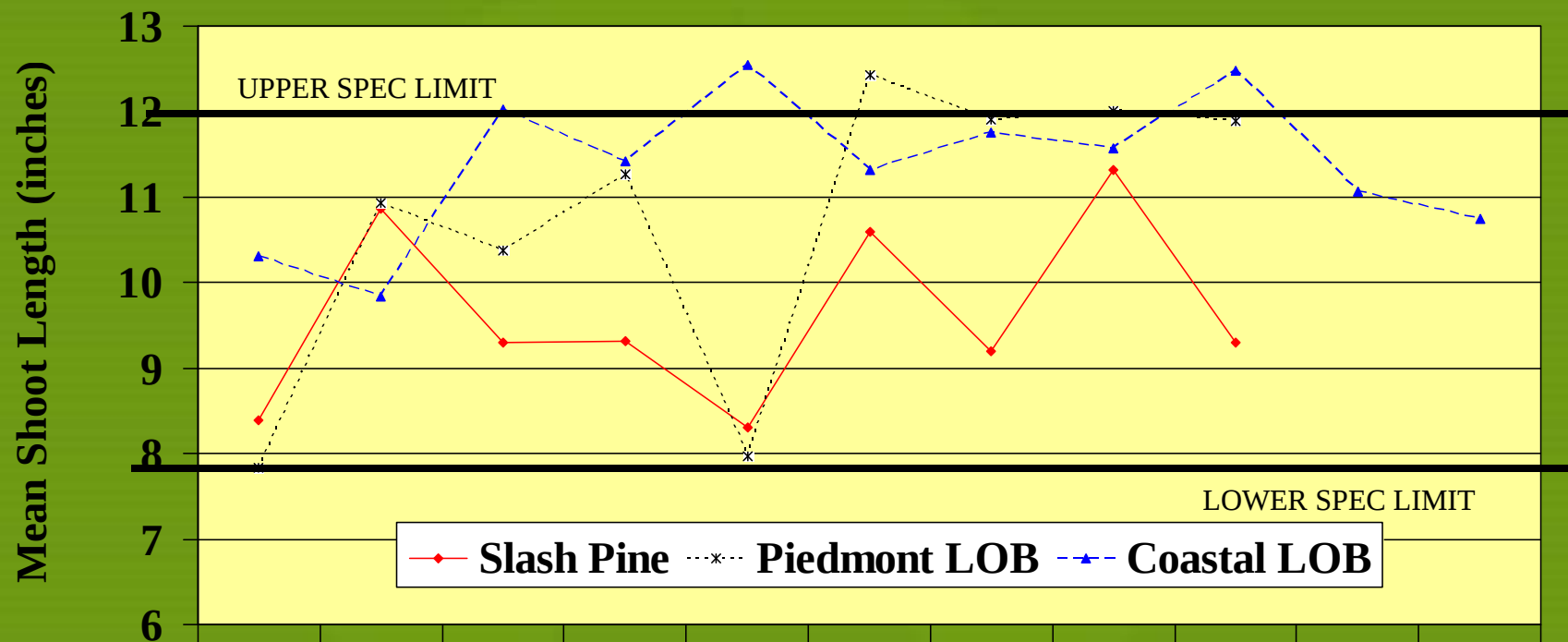
Seedling Quality Measurements

- Seedling Height
- Seedling RCD
- Seedling Bed/Container Density
- Seedling Grade Distribution
- Shoot Dry Weight
- Root Dry Weight
- Number of Primary Roots
- Root:Shoot Ratio
- Cull Breakdown



Seedling Quality Trends: 1990-2000

Seedling Shoot Length

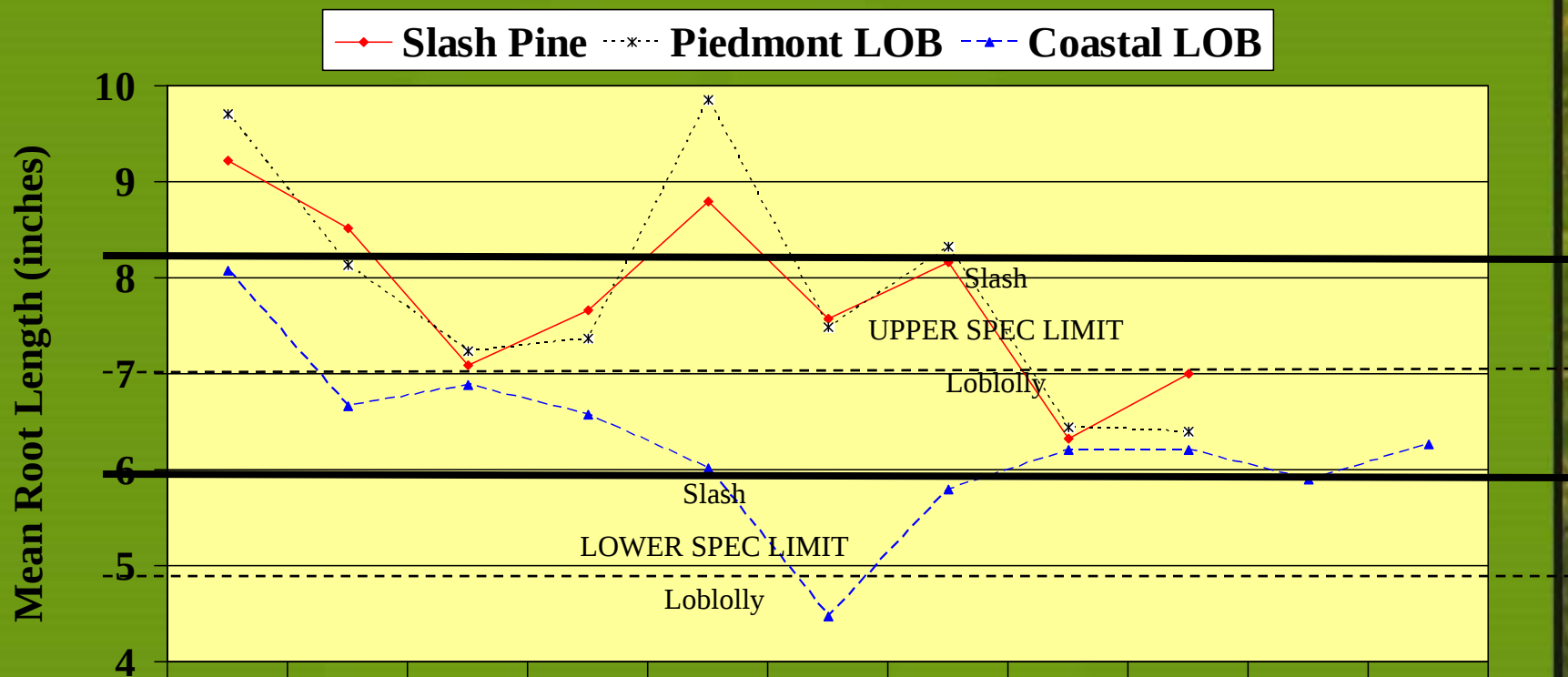


	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Slash Pine	8.39	10.86	9.3	9.32	8.3	10.59	9.19	11.31	9.3		
Piedmont LOB	7.84	10.93	10.37	11.26	7.97	12.43	11.91	12	11.89		
Coastal LOB	10.31	9.83	12.02	11.41	12.55	11.31	11.75	11.57	12.48	11.07	10.75

Crop Year

Seedling Quality Trends: 1990-2000

Seedling Root Length



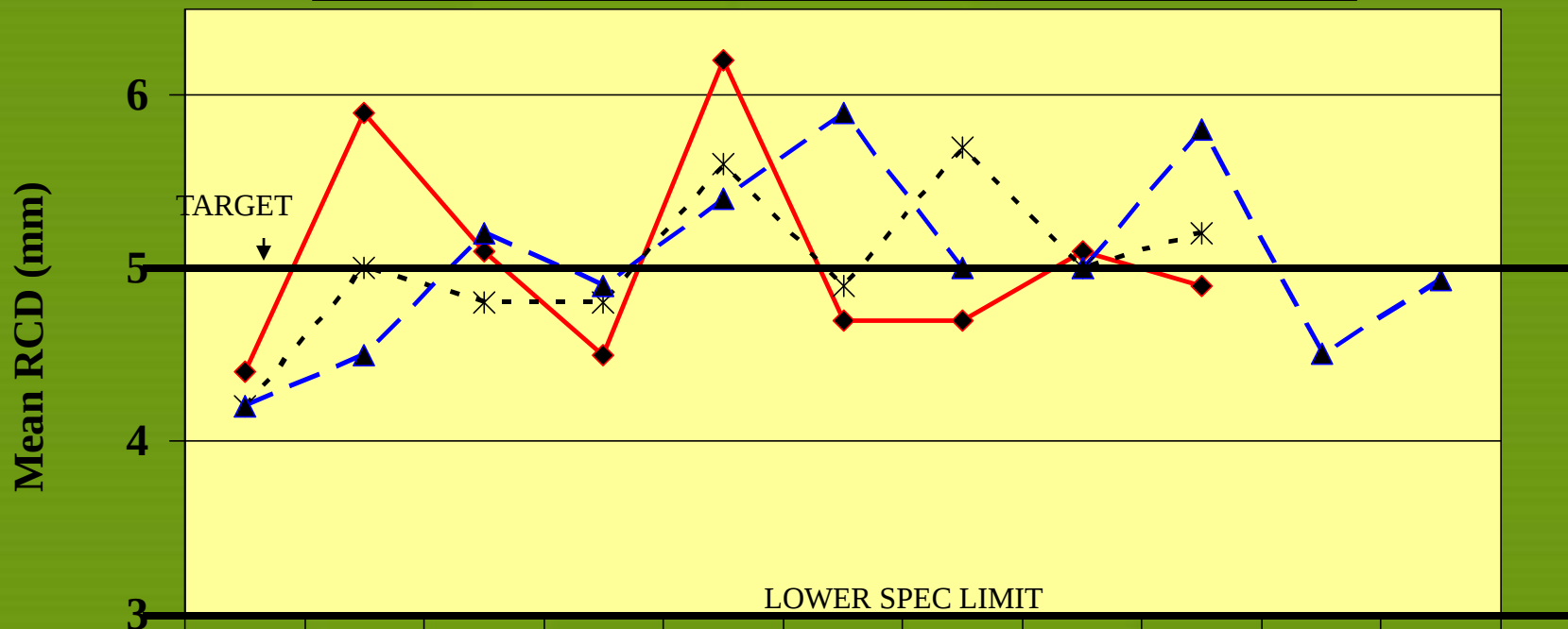
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Slash Pine	9.22	8.52	7.09	7.66	8.79	7.58	8.16	6.32	7		
Piedmont LOB	9.7	8.13	7.24	7.37	9.86	7.49	8.32	6.44	6.4		
Coastal LOB	8.07	6.66	6.88	6.58	6.01	4.47	5.79	6.2	6.21	5.9	6.26

Crop Year

Seedling Quality Trends: 1990-2000

Seedling Caliper

—◆— Slash Pine - * - Piedmont LOB —▲— Coastal LOB

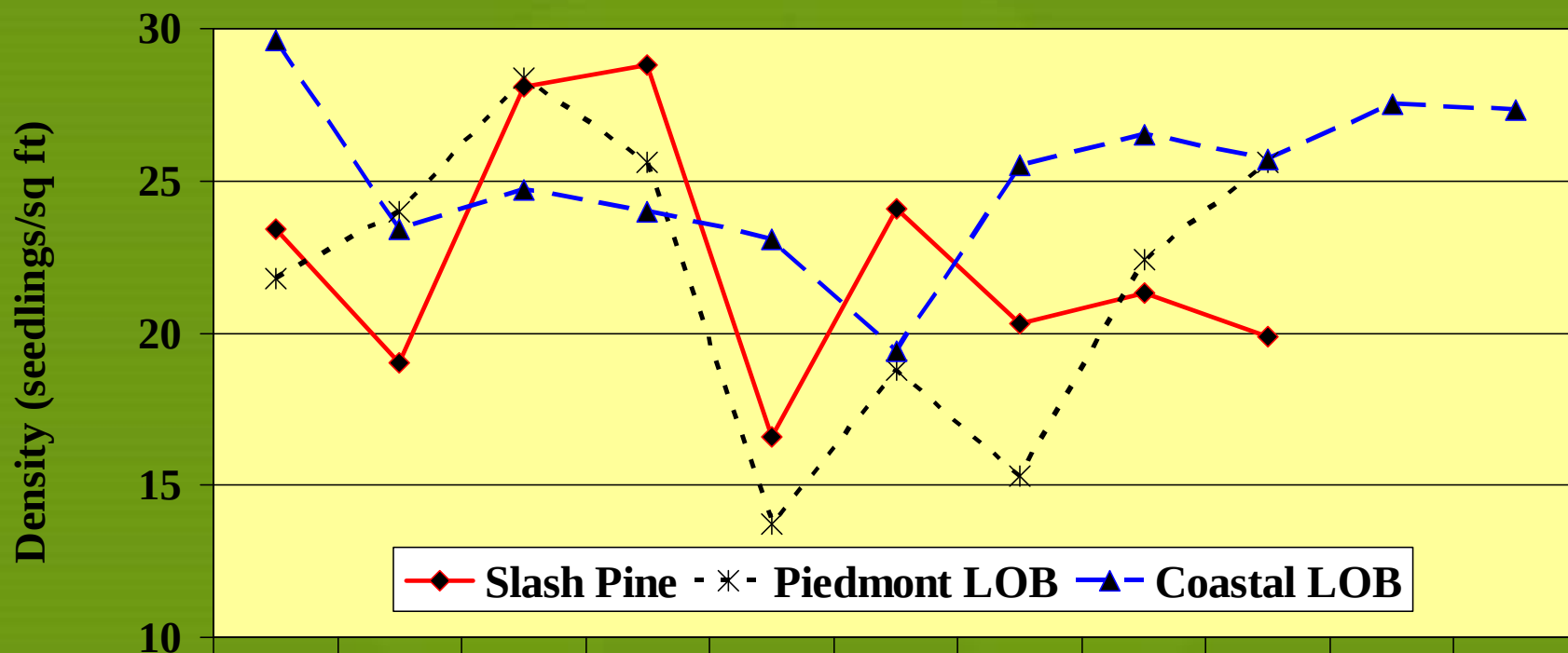


	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Slash Pine	4.4	5.9	5.1	4.5	6.2	4.7	4.7	5.1	4.9		
Piedmont LOB	4.2	5	4.8	4.8	5.6	4.9	5.7	5	5.2		
Coastal LOB	4.2	4.5	5.2	4.9	5.4	5.9	5	5	5.8	4.51	4.93

Crop Year

Seedling Quality Trends: 1990-2000

Nursery Seedbed Density



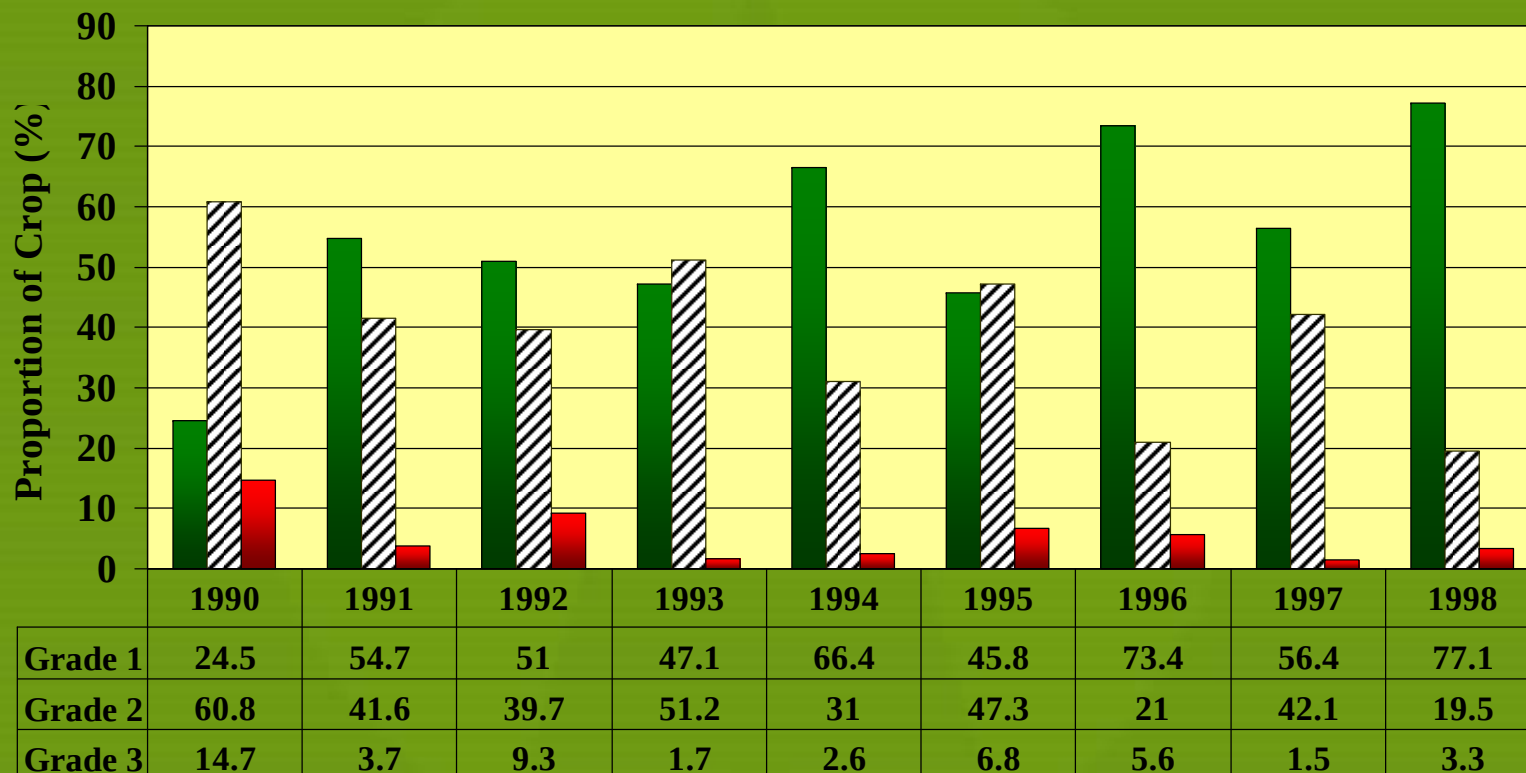
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Slash Pine	23.4	19	28.1	28.8	16.6	24.1	20.3	21.3	19.9		
Piedmont LOB	21.8	24	28.4	25.6	13.7	18.8	15.3	22.4	25.6		
Coastal LOB	29.6	23.4	24.7	24	23.1	19.4	25.5	26.5	25.7	27.52	27.31

Crop Year

Seedling Quality Trends: 1990-1998

Seedling Grade Distribution- Slash Pine

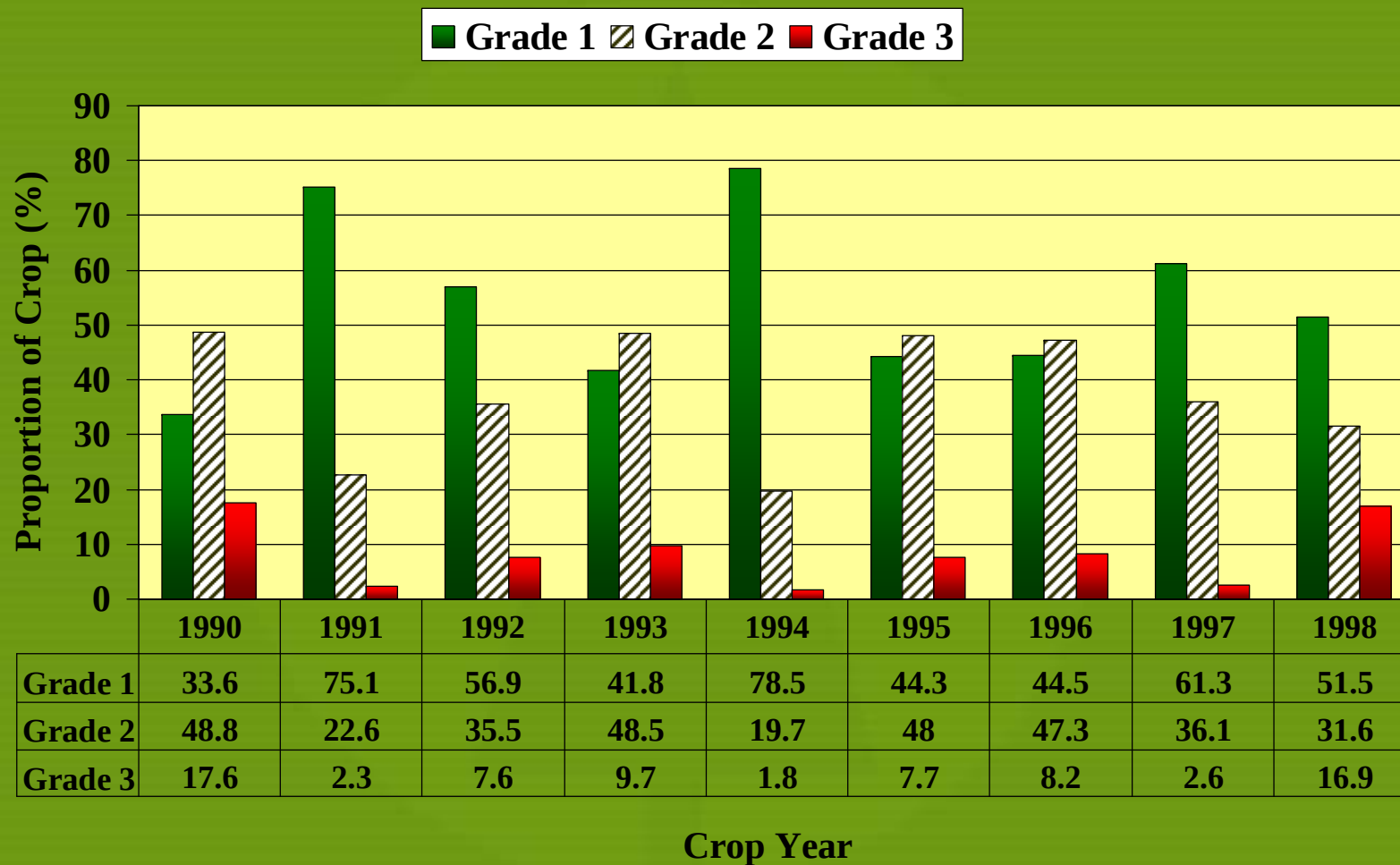
■ Grade 1 ▨ Grade 2 ■ Grade 3



Crop Year

Seedling Quality Trends: 1990-2000

Seedling Grade Distribution- Piedmont Loblolly



Seedling Quality Trends: 1990-2000

Seedling Grade Distribution - Coastal Loblolly

