

SPECIES	Transect 1	1 METER SEGMENTS																									marsh end	2008 Duff and Essex Ag	# of intervals pres	% freq
		upland end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
Phragmites	2000	1	1	1																								3	12%	
<i>Phragmites australis</i>	2001	1	1	1	1																							5	20%	
Pre-Restoration	2002	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	11	44%	
	2003	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	56%	
Post Restoration:	2004	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	16	64%	
Is immature	2005	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19	76%	
	2006	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	20	80%	
	2007	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	25	100%	
	2008	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	24	96%	
Herbicide Sept. 09	2009	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	22	88%	
Herbicide Fall 2010	2010																											0	0%	
Herbicide Fall 2011	2011																											2	8%	
	2012																											0	0%	
Salt marsh Hay	2000																											5	20%	
<i>Spartina patens</i>	2001																											3	12%	
	2002																											6	24%	
	2003																											18	72%	
	2004																											18	72%	
	2005																											9	36%	
	2006																											15	60%	
	2007																											17	68%	
	2008																											16	64%	
	2009																											16	64%	
	2010																											12	48%	
	2011																											14	56%	
	2012																											0	0%	
Purple Loosestrife	2000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	9	36%	
<i>Lythrum salicaria</i>	2001	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10	40%	
	2002	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	9	36%	
	2003	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10	40%	
*'04 DEAD loosestrife	2004	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10	40%	
	2005																											0	0%	
	2006																											0	0%	
	2007																											0	0%	
	2008																											0	0%	
	2009																											0	0%	
	2010																											0	0%	
	2011																											0	0%	
	2012																											0	0%	
Switch grass	S 2000																											18	72%	
<i>Panicum virgatum</i>	F 2000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	21	84%	
	2001	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	24	96%	
	2002	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	17	68%	
	2003																											0	0%	
	2004																											0	0%	
	2005																											0	0%	
	2006																											0	0%	
	2007																											0	0%	
	2008																											0	0%	
	2009																											0	0%	
	2010																											0	0%	
	2011																											0	0%	
	2012																											0	0%	
Black Grass	S 2000																											16	64%	
<i>Juncus gerardii</i>	F 2000																											1	4%	
	2001																											0	0%	
	2002																											2	8%	
	2003																											0	0%	
	2004																											5	20%	
	2005																											1	4%	
	2006																											2	8%	
	2007																											2	8%	
	2007																											0	0%	
	2008																											3	12%	
	2009																											2	8%	
	2010																											0	0%	
	2011																											2	8%	
	2012																											0	0%	

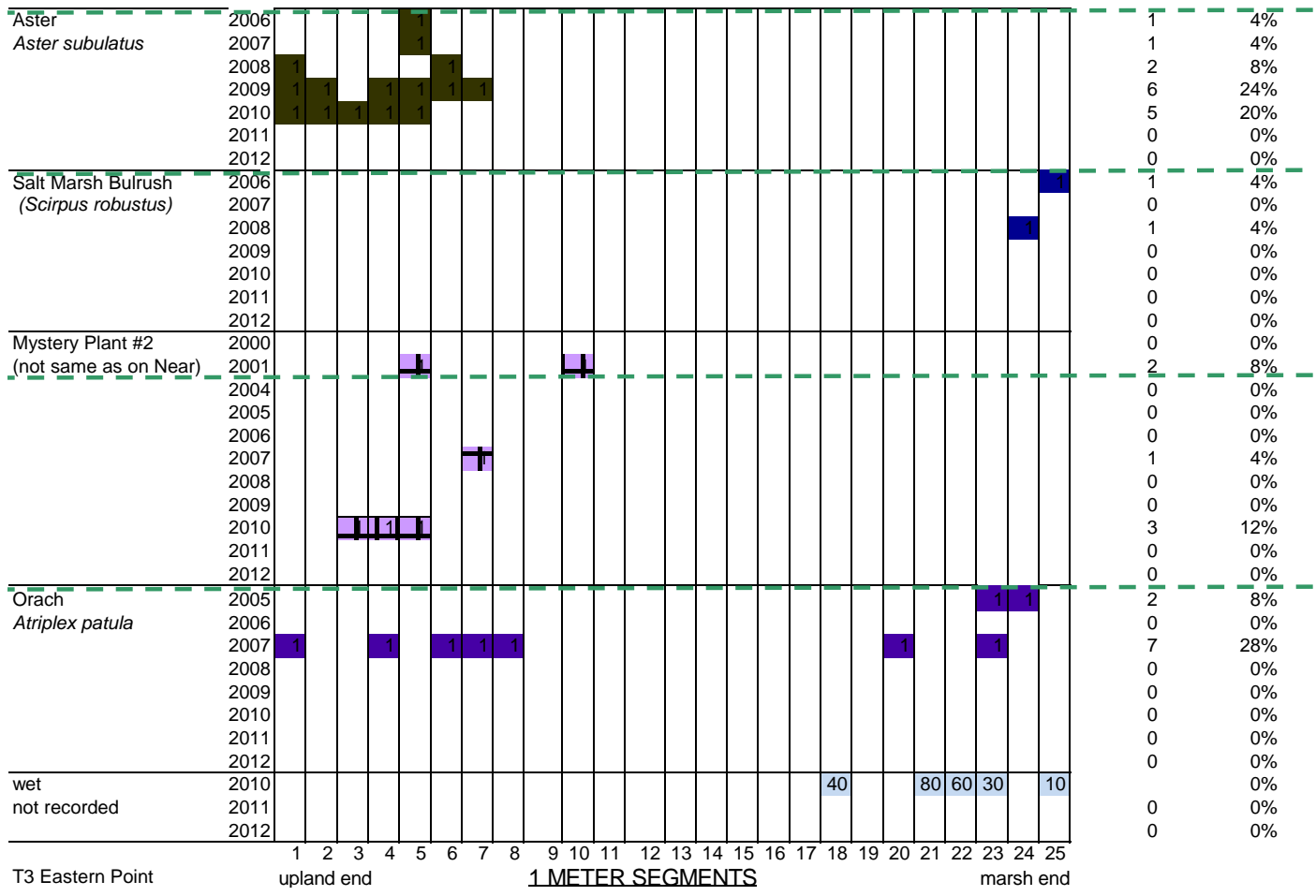
<i>Sea Blite</i>	2004					1	1	1	1	1																5	20%		
	<i>Suaeda linearis</i>	2005									1							1	1	1									4
	2006																										0	0%	
	2007																	1									1	4%	
	2008																										0	0%	
	2009																										0	0%	
	2010																										0	0%	
	2011																										0	0%	
	2012																										0	0%	
<i>Spartina Caespitosa Hybrid!</i>	2004																										1	4%	
	2005																										0	0%	
	2006																										6	24%	
	2007																										19	76%	
	2008																										5	20%	
	2009																										1	4%	
	2010																										0	0%	
	2011																										2	8%	
	2012																										0	0%	
	<i>Seaside Goldenrod Solidago sempervirens</i>	2004	1	1	1	1		1		1								1	1								8	32%	
		2005	1	1	1		1	1		1		1		1	1	1	1			1							12	48%	
		2006	1	1	1	1	1	1	1		1			1	1	1	1				1						12	48%	
2007										1																	2	8%	
2008																							1				1	4%	
2009					1																						1	4%	
2010					1																						1	4%	
2011			1	1							1																3	12%	
2012																											0	0%	
<i>Quack Grass</i>	2010																										0	0%	
	2011																										0	0%	
	2012																										0	0%	

T2 Eastern Point

upland end

1 METER SEGMENTS

marsh end



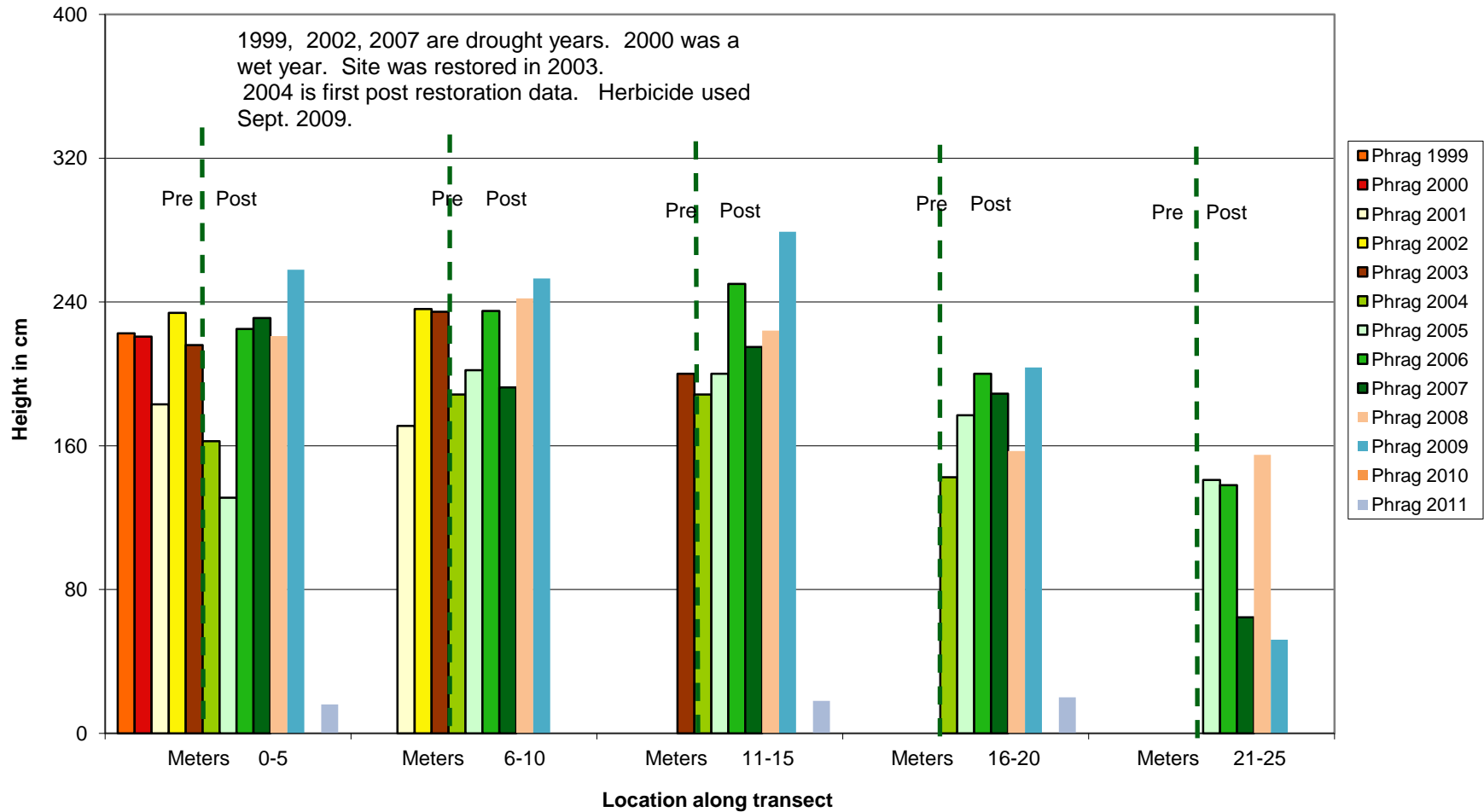
T3 Eastern Point

upland end

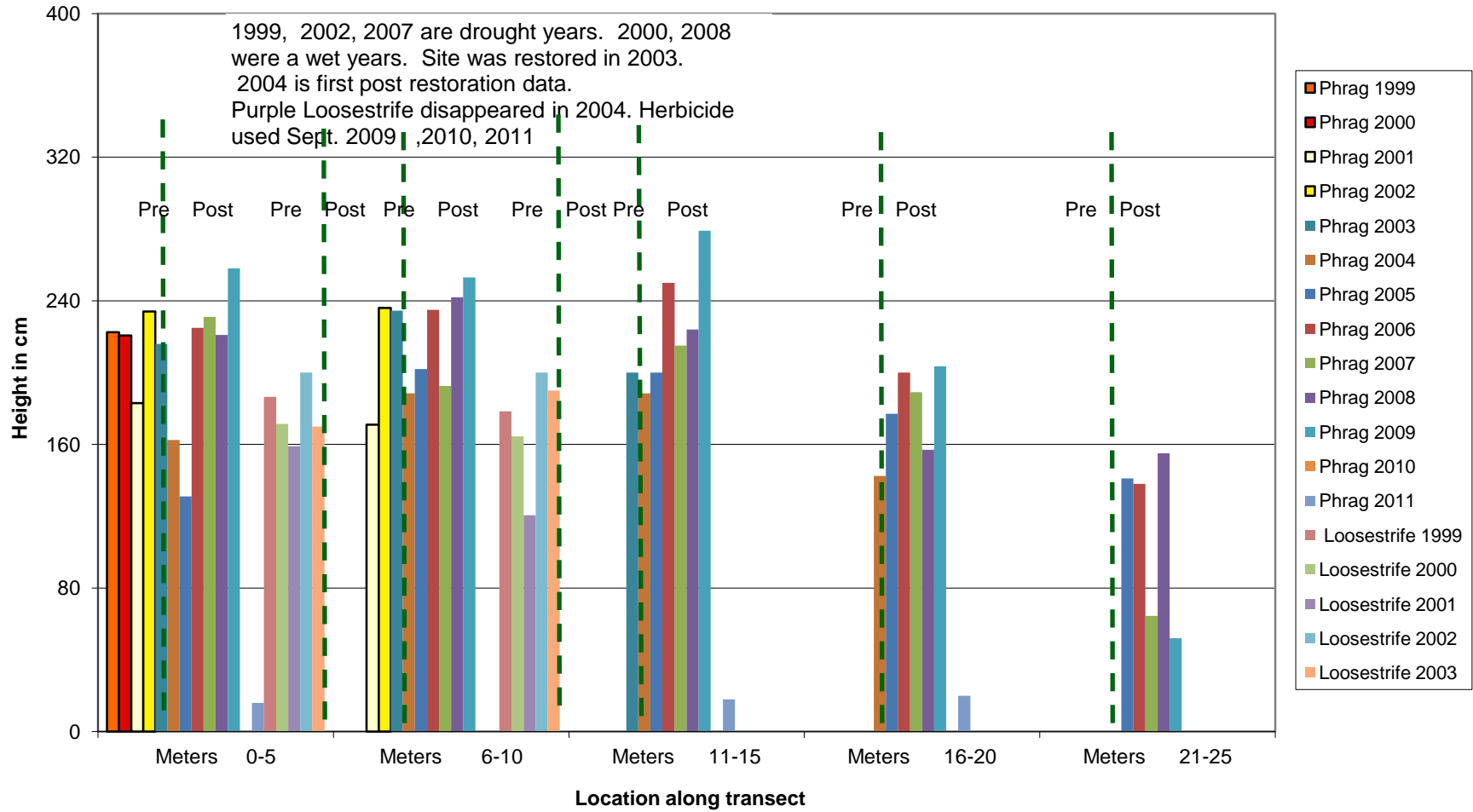
1 METER SEGMENTS

marsh end

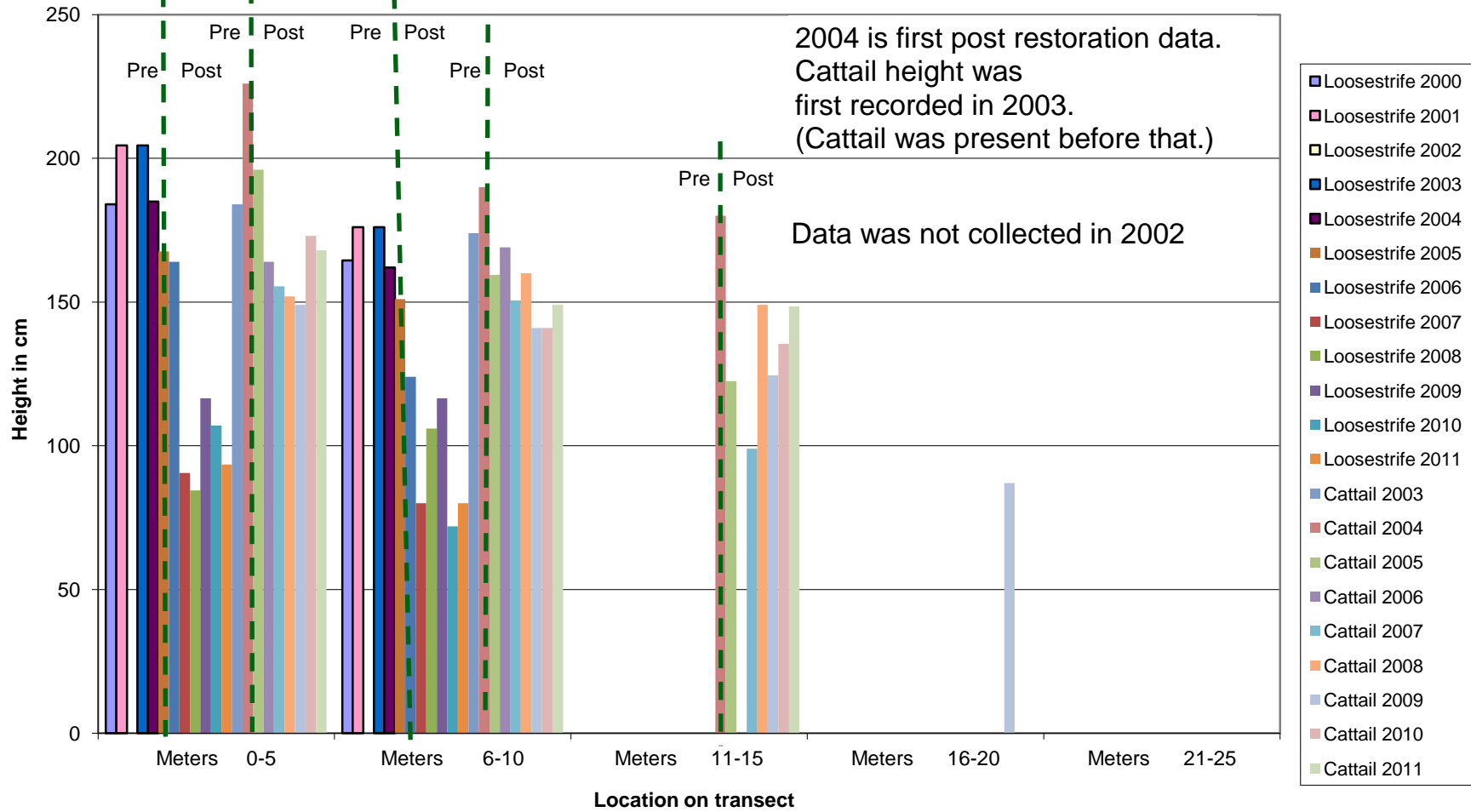
Average *Phragmites* Heights, Transect 1, Eastern Point Gloucester 1999-2009



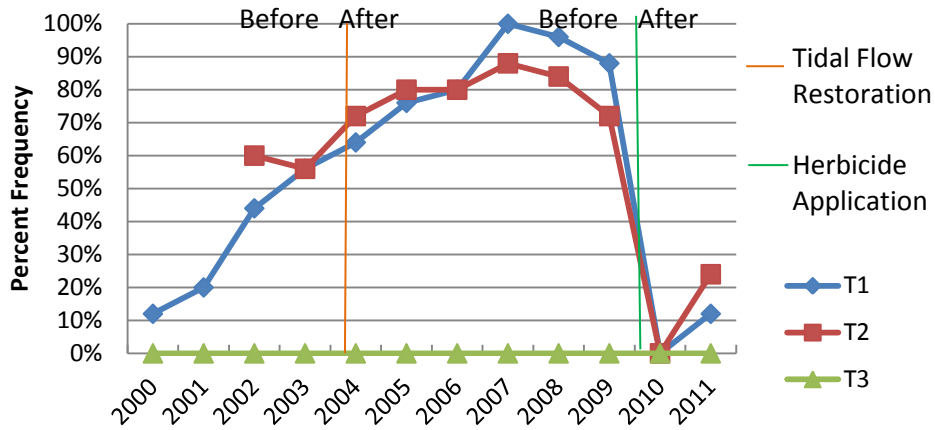
Average Invasives Heights, Transect 1, Eastern Point Gloucester, 1999-2011



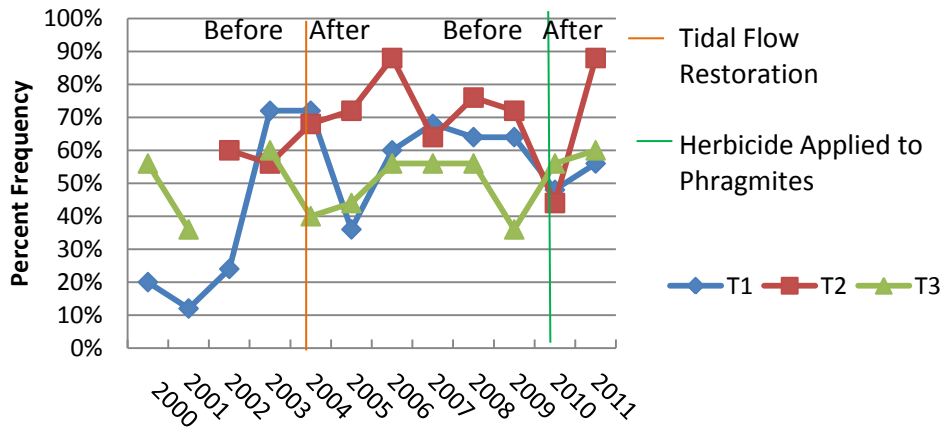
Transect 3 Loosestrife and Cattail Heights 2000-2011



Phragmites Eastern Point



Salt Marsh Hay Eastern Point



Year	T1	T2	T3	T1	T2	T3
2000		3		0	12%	0%
2001		5		0	20%	0%
2002		11	15	0	44%	60%
2003		14	14	0	56%	56%
2004		16	18	0	64%	72%
2005		19	20	0	76%	80%
2006		20	20	0	80%	80%
2007		25	22	0	100%	88%
2008		24	21	0	96%	84%
2009		22	18	0	88%	72%
2010		0	0	0	0%	0%
2011		3	6	0	12%	24%

Year	Salt Marsh Hay			T1	T2	T3
	T1	T2	T3			
2000		5		14	20%	56%
2001		3		9	12%	36%
2002		6	15		24%	60%
2003		18	14	15	72%	56%
2004		18	17	10	72%	68%
2005		9	18	11	36%	72%
2006		15	22	14	60%	88%
2007		17	16	14	68%	64%
2008		16	19	14	64%	76%
2009		16	18	9	64%	72%
2010		12	11	14	48%	44%
2011		14	22	15	56%	88%