

2005 Survey Results
PTI Method for Design of Post-Tensioned Slabs
22 Respondents

- ▶ What parameters do you measure prior to determining PTI parameters?

EI	PI	%Clay	%Fines	Confined Swell/Suction	UCC or Triax
73%	91%	77%	64%	14%	5%

- ▶ If you do several tests, what do you give the most weight to?

EI	PI	%Clay	%Fines	Confined Swell/Suction
50%	27%	23%	5%	5%

- ▶ Do you measure depth to constant soil suction at the site?

No	Yes	Assume Worst Condition	Estimate
27%	5%	77%	14%

- ▶ Do you perform the above tests on every project?

No	Yes
57%	43%

- ▶ Do you follow the PTI procedure rigorously?

No	Yes
73%	27%

- ▶ Do you modify the procedure based on percent coarse grained material?

No	Yes	Sometimes
77%	18%	5%

- ▶ Do you use Volflo computer program?

No	Yes	Sometimes
68%	9%	23%

- ▶ Do you use the Thornthwaite Moisture Index from the PTI manual?

No	Yes	Sometimes
45%	41%	14%

- ▶ Do you give different numbers for conventional PT's vs. mat PT's (No Perimeter Beam)?

No	Yes	Haven't Done Mat Slabs
64%	27%	9%

- ▶ Do you recommend presoaking?

No	Yes	Sometimes
9%	77%	14%

- ▶ Do you believe that presoaking influences slab performance?

No	Yes	Sometimes
0%	86%	14%

- ▶ Do you recommend a minimum depth perimeter footing (or moisture cut-off wall)?

No	Yes	Sometimes
18%	73%	9%

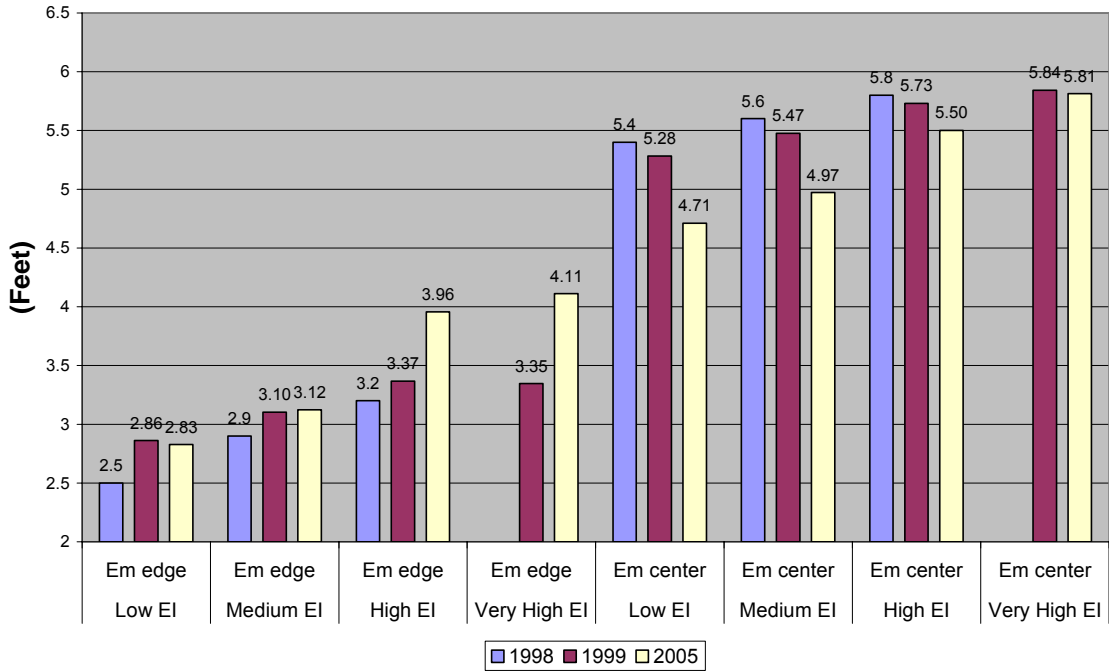
- ▶ Do you think a perimeter footing reduces moisture infiltration or just stiffens the slab?

No	Yes	Both
14%	0%	86%

- ▶ Do you modify PTI design parameters to account for other deflections caused by geotechnical conditions, for example deep fills?

No	Yes
48%	52%

Average Values For Edge and Center Moisture Variation (Em)



Average Values For Vertical Differential Movement (Ym)

