Standardized Mixes

We use standardized mixes to keep it simple. Here are some parameters of the mixes:

Bottom mixes have an MOD PPO2 of 1.4 ata
Bottom mixes have an average PPO2 of 1.2 ata for "our" working depth
Bottom mixes have a buffer from "our" working depth and the MOD of 1.4
Bottom mixes are created by adding HE and then topping with Nitrox 32% (easy for banking 32% and doing trimix fills) or by quick formulas for "air top"
Bottom mixes have a END of 100'/30m or shallower
Deco mixes have an MOD PPO2 of 1.6 ata
Deco mixes have an average PPO2 of 1.2 ata except for the O2 at 20'/6m (averaged over the range the deco mix is used
Deco mixes are used over an average of 5 - 10'/3m stops except for the O2
HE used is consider to be the higher the better but always enough to have a END of 100'/30m or less based on a conservative formula of END=(1-HE)
*ATA's. This formula assumes O2 to be narcotic.

Bottom/Deco Mix	"Our" Working depth to be used	MOD	END at "Our" max depth	EAD	"Air top" mixing*
Nitrox 32%	0 - 100'/30m	111'/33m	-	20% depth reduction	14% O2
Helitrox 25/25	100'/30m - 130'/39m	151'/46m	88'/26m	10% depth reduction	12% O2 - 25% HE
Helitrox 21/35	130'/39m - 160'/48m	190'/57m	98'/29m	0%	9% O2 - 35% HE
Trimix 18/45	170'/51m - 200'/60m	220'/66m	94'/28m	0%	8% O2 - 45% HE
Trimix 15/55	210'/63m - 240'/72m	275'/83m	90'/27m	0%	7% O2 - 55% HE
Trimix 12/60	250'/75m - 300'/90m	352'/106m	100'/30m	0%	5% O2 - 60% HE
Trimix 10/70	310'/93m - 360'/110m	429'/130m	88"/26m	0%	4% O2 - 70% HE
O2	20'/6m	20'/6m	-	-	O2
Nitrox 50	70'/21m - 30'/9m	70'/21m	-	-	36% O2
Helitrox 35/25	120'/36m - 80'/24m	120'/36m	-	-	25% O2 - 25% HE
Helitrox 21/35	190'/57m - 130'/39m	190'/57m	-	-	9% O2 - 35% HE