

# UTD 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”

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