



Diveline

Date _____

Dive No. _____



Reference Slate

NOAA CNS Limits (min.)		
ppO ₂	Single	24-hour
0.6	720	720
0.7	570	570
0.8	450	450
0.9	360	360
1.0	300	300
1.1	240	270
1.2	210	240
1.3	180	210
1.4	150	180
1.5	120	180
1.6	45	150

Optimized Nitrox	
Feet (m)	% Oxygen
60 (18)	49
70 (21)	44
80 (24)	41
90 (27)	37
100 (30)	34
110 (33)	32
120 (36)	30
130 (39)	28
140 (42)	26
150 (45)	25
160 (48)	23

Formulas

$$\text{ATA} = (\text{Depth} \div 33) + 1 \text{ (imperial)}$$

$$\text{ATA} = (\text{Depth} \div 10) + 1 \text{ (metric)}$$

$$\text{PO}_2 = \text{FO}_2 \times \text{ATA}$$

$$\text{FO}_2 = \text{PO}_2 \div \text{ATA}$$

SAC Rate (Imperial):

$$\frac{\{[(\text{PSI}_B - \text{PSI}_E) \div \text{PSI}_R] \times C\} \div \text{ATA}}{\text{Minutes}}$$

SAC Rate (Metric):

$$\frac{\{[(\text{BAR}_B - \text{BAR}_E) \div \text{BAR}_R] \times C\} \div \text{ATA}}{\text{Minutes}}$$

B = Beginning Pressure

E = Ending Pressure

R = Rated Tank Pressure

C = Rated Tank Capacity in Ft³ or L

