

Part A

-0.693147181		30	N ₂ Tissue Compartments											
Copyright (C) 1998 Benton P. Zwart				5	10	20	40	80	120	160	320	480	640	T1/2
Initial Tissue PN ₂		26.07		2.2990	2.0083	1.7060	1.3905	1.2726	1.2619	1.2548	1.2350	1.2208	1.2137	Slope
Safety Enhancement (0 - 100)		65		103.60	87.58	72.42	58.08	52.08	50.83	48.33	47.24	46.74	46.24	Intercept
Local Barometer (mmHg)		760		1.3168	1.2150	1.1092	0.9988	0.9575	0.9538	0.9513	0.9444	0.9394	0.9369	Safety Slope
Initial Steady State FiO ₂		0.21		53.16	47.55	42.25	37.23	35.13	34.69	33.82	33.43	33.26	33.08	Safety Intercept
Depth Gauge Must = 0 at Surface of Water!														
Linear Transition Time		6.00	2.7	53.65	40.85	33.37	29.60	27.78	27.20	26.91	26.49	26.35	26.28	PN ₂ (t)
Transition O ₂ Fraction		0.21												
Calculated Target PN ₂		89.27		287.52	248.24	208.90	169.32	153.89	151.78	148.71	146.04	144.40	143.34	Nxt Seg Ms
Initial PN ₂ Inspired		26.07		158.50	144.76	130.98	117.13	111.73	110.99	109.92	108.98	108.41	108.04	Safety Ms
Target - Initial		63.2		104.85	103.90	97.61	87.53	83.95	83.80	83.01	82.50	82.06	81.76	Buffer
Segment 1 Conditions														
Segment Depth (FSW)		80		58.26	44.10	35.28	30.62	28.31	27.56	27.18	26.62	26.44	26.35	PN ₂ (t)
Segment Time (Min)		1		241.54	208.08	174.78	141.51	128.44	126.54	123.62	121.34	119.99	119.06	Nxt Seg Ms
Inspired O ₂ Fraction		0.21		132.17	120.45	108.80	97.16	92.58	91.92	90.89	90.10	89.62	89.30	Safety Ms
Calculated PN ₂		89.27		73.91	76.36	73.52	66.53	64.27	64.36	63.71	63.47	63.19	62.95	Buffer
80.00														
Linear Transition Time		2.00	0.7											
Transition O ₂ Fraction		0.21		63.31	48.75	38.32	32.34	29.22	28.17	27.65	26.86	26.60	26.46	PN ₂ (t)
Calculated Target PN ₂		73.47		68.86	71.70	70.49	64.82	63.36	63.75	63.25	63.24	63.03	62.83	Buffer
Initial PN ₂ Inspired		89.27												
Target - Initial		-15.8												
Segment 2 Conditions														
Segment Depth (FSW)		60		70.93	61.11	48.61	38.88	32.89	30.71	29.59	27.86	27.27	26.97	PN ₂ (t)
Segment Time (Min)		10		395.57	342.63	289.08	234.67	213.70	211.09	207.69	204.09	201.78	200.38	Nxt Seg Ms
Inspired O ₂ Fraction		0.21		220.39	201.86	183.12	164.08	156.73	155.82	154.63	153.37	152.56	152.07	Safety Ms
Calculated PN ₂		73.47		149.46	140.75	134.51	125.19	123.84	125.11	125.04	125.51	125.30	125.10	Buffer
60.00														
Linear Transition Time		6.00	2.2											
Transition O ₂ Fraction		0.21		95.46	77.70	59.39	45.25	36.38	33.12	31.42	28.79	27.90	27.44	PN ₂ (t)
Calculated Target PN ₂		126.4		124.93	124.16	123.72	118.82	120.35	122.71	123.21	124.58	124.67	124.63	Buffer
Initial PN ₂ Inspired		73.47												
Target - Initial		52.93												
Segment 3 Conditions														
Segment Depth (FSW)		127		122.53	109.18	86.56	63.83	47.35	40.86	37.39	31.91	30.01	29.04	PN ₂ (t)
Segment Time (Min)		15		361.09	312.51	263.49	213.82	194.61	192.16	188.87	185.56	183.47	182.17	Nxt Seg Ms
Inspired O ₂ Fraction		0.21		200.64	183.64	166.48	149.09	142.37	141.51	140.36	139.20	138.47	138.02	Safety Ms
Calculated PN ₂		126.4		78.11	74.45	79.92	85.27	95.02	100.66	102.97	107.29	108.46	108.98	Buffer
127.00														
Linear Transition Time		15.00	0.5											
Transition O ₂ Fraction		0.21		116.84	114.18	99.28	76.42	56.15	47.41	42.59	34.74	31.94	30.51	PN ₂ (t)
Calculated Target PN ₂		114.6		83.79	69.45	67.20	72.67	86.22	94.10	97.77	104.47	106.53	107.51	Buffer
Initial PN ₂ Inspired		126.4												
Target - Initial		-11.85												
Segment 4 Conditions														
Segment Depth (FSW)		112		116.84	114.18	99.28	76.42	56.15	47.41	42.59	34.74	31.94	30.51	PN ₂ (t)
Segment Time (Min)		0		241.54	208.08	174.78	141.51	128.44	126.54	123.62	121.34	119.99	119.06	Nxt Seg Ms
Inspired O ₂ Fraction		0.21		132.17	120.45	108.80	97.16	92.58	91.92	90.89	90.10	89.62	89.30	Safety Ms
Calculated PN ₂		114.6		15.32	6.27	9.52	20.73	36.43	44.51	48.30	55.36	57.68	58.79	Buffer
112.00														
Linear Transition Time		1.70	1.7											
Transition O ₂ Fraction		0.21		110.96	111.61	98.89	76.91	56.70	47.86	42.97	34.95	32.09	30.63	PN ₂ (t)
Calculated Target PN ₂		73.47		21.21	8.84	9.92	20.25	35.88	44.05	47.93	55.14	57.53	58.67	Buffer
Initial PN ₂ Inspired		114.6												
Target - Initial		-41.08												

Part A

Segment 5 Conditions

Segment Depth (FSW)	60	63.73	84.58	86.08	71.76	54.77	46.77	42.23	34.65	31.91	30.49	PN ₂ (t)
Segment Time (Min)	4	195.56	167.91	140.66	113.70	102.98	101.31	98.52	96.64	95.57	94.79	Nxt Seg Ms
Inspired O ₂ Fraction	1	105.83	96.15	86.62	77.18	73.43	72.84	71.87	71.21	70.84	70.56	Safety Ms
Calculated PN ₂	0	42.10	11.57	0.53	5.42	18.66	26.07	29.64	36.56	38.93	40.07	Buffer

60.00

Linear Transition Time	0.70	0.7										
Transition O ₂ Fraction	1	57.83	80.58	84.02	70.89	54.44	46.58	42.10	34.60	31.88	30.47	PN ₂ (t)
Calculated Target PN ₂	0	48.00	15.58	2.59	6.29	18.99	26.26	29.77	36.61	38.96	40.09	Buffer
Initial PN ₂ Inspired	0											
Target - Initial	0											

Segment 6 Conditions

Segment Depth (FSW)	40	9.54	32.73	53.55	56.59	48.64	43.21	39.79	33.64	31.28	30.05	PN ₂ (t)
Segment Time (Min)	13	149.58	127.75	106.54	85.89	77.53	76.07	73.43	71.94	71.16	70.51	Nxt Seg Ms
Inspired O ₂ Fraction	1	79.50	71.85	64.43	57.20	54.28	53.77	52.84	52.32	52.05	51.82	Safety Ms
Calculated PN ₂	0	69.96	39.13	10.89	0.61	5.64	10.55	13.05	18.68	20.76	21.78	Buffer

40.00

Linear Transition Time	0.70	0.7										
Transition O ₂ Fraction	0.21	13.17	33.51	53.45	56.51	48.64	43.24	39.82	33.66	31.30	30.06	PN ₂ (t)
Calculated Target PN ₂	41.87	66.33	38.35	10.98	0.69	5.63	10.53	13.02	18.66	20.74	21.76	Buffer
Initial PN ₂ Inspired	57.67											
Target - Initial	-15.8											

Fill In "Part B" Segment 7!

Torr Estimator: Alt (0-20000') = 8000 Torr = 561.21 Equiv = -8.63 FSW

Part A Dive Time (Min) 75.1

20.00

Part B

-0.693147181 30		N ₂ Tissue Compartments										
Copyright (C) 1998 Benton P. Zwart		5	10	20	40	80	120	160	320	480	640	T1/2
		2.2990	2.0083	1.7060	1.3905	1.2726	1.2619	1.2548	1.2350	1.2208	1.2137	Slope
Safety Enhancement (0 - 100)	65	103.60	87.58	72.42	58.08	52.08	50.83	48.33	47.24	46.74	46.24	Intercept
Local Barometer (mmHg)	760	1.3168	1.2150	1.1092	0.9988	0.9575	0.9538	0.9513	0.9444	0.9394	0.9369	Safety Slope
Initial Steady State FiO ₂	0.21	53.16	47.55	42.25	37.23	35.13	34.69	33.82	33.43	33.26	33.08	Safety Intercept
Depth Gauge Must = 0 at Surface of Water!												
Segment 7 Conditions												
Segment Depth (FSW)	20	27.52	35.96	51.61	55.30	48.36	43.20	39.87	33.75	31.38	30.12	PN ₂ (t)
Segment Time (Min)	5	149.58	127.75	106.54	85.89	77.53	76.07	73.43	71.94	71.16	70.51	Nxt Seg Ms
Inspired O ₂ Fraction	0.21	79.50	71.85	64.43	57.20	54.28	53.77	52.84	52.32	52.05	51.82	Safety Ms
Calculated PN ₂	41.87	51.98	35.90	12.83	1.91	5.92	10.57	12.97	18.57	20.67	21.70	Buffer
20.00												
Linear Transition Time	0.00	0.0										
Transition O ₂ Fraction	0.21	27.52	35.96	51.61	55.30	48.36	43.20	39.87	33.75	31.38	30.12	PN ₂ (t)
Calculated Target PN ₂	41.87	51.98	35.90	12.83	1.91	5.92	10.57	12.97	18.57	20.67	21.70	Buffer
Initial PN ₂ Inspired	41.87											
Target - Initial	0											
Segment 8 Conditions												
Segment Depth (FSW)	20	6.88	17.98	36.49	46.50	44.34	40.77	38.18	33.03	30.93	29.80	PN ₂ (t)
Segment Time (Min)	10	126.59	107.66	89.48	71.99	64.81	63.45	60.88	59.59	58.95	58.38	Nxt Seg Ms
Inspired O ₂ Fraction	1	66.33	59.70	53.34	47.22	44.70	44.23	43.33	42.88	42.65	42.45	Safety Ms
Calculated PN ₂	0	59.45	41.72	16.85	0.72	0.36	3.45	5.15	9.85	11.72	12.65	Buffer
20.00												
Linear Transition Time	0.30	0.3										
Transition O ₂ Fraction	1	6.60	17.61	36.11	46.26	44.23	40.70	38.13	33.01	30.92	29.79	PN ₂ (t)
Calculated Target PN ₂	0	59.73	42.09	17.23	0.96	0.47	3.52	5.20	9.87	11.74	12.66	Buffer
Initial PN ₂ Inspired	0											
Target - Initial	0											
Segment 9 Conditions												
Segment Depth (FSW)	10	0.14	2.53	13.68	28.47	34.70	34.63	33.77	31.07	29.69	28.90	PN ₂ (t)
Segment Time (Min)	28	103.60	87.58	72.42	58.08	52.08	50.83	48.33	47.24	46.74	46.24	Nxt Seg Ms
Inspired O ₂ Fraction	1	53.16	47.55	42.25	37.23	35.13	34.69	33.82	33.43	33.26	33.08	Safety Ms
Calculated PN ₂	0	53.02	45.02	28.56	8.75	0.43	0.06	0.04	2.37	3.57	4.18	Buffer
10.00												
Linear Transition Time	0.30	0.3										
Transition O ₂ Fraction	0.21	1.34	3.09	13.85	28.48	34.69	34.62	33.77	31.06	29.69	28.90	PN ₂ (t)
Calculated Target PN ₂	26.07	51.82	44.46	28.39	8.75	0.44	0.07	0.05	2.37	3.57	4.18	Buffer
Initial PN ₂ Inspired	33.97											
Target - Initial	-7.9											
Segment 10 Conditions												
Segment Depth (FSW)	0	1.34	3.09	13.85	28.48	34.69	34.62	33.77	31.06	29.69	28.90	PN ₂ (t)
Segment Time (Min)	0	103.60	87.58	72.42	58.08	52.08	50.83	48.33	47.24	46.74	46.24	Nxt Seg Ms
Inspired O ₂ Fraction	0.21	53.16	47.55	42.25	37.23	35.13	34.69	33.82	33.43	33.26	33.08	Safety Ms
Calculated PN ₂	26.07	51.82	44.46	28.39	8.75	0.44	0.07	0.05	2.37	3.57	4.18	Buffer
0.00												
Linear Transition Time	0.00	0.0										
Transition O ₂ Fraction	0.21	1.34	3.09	13.85	28.48	34.69	34.62	33.77	31.06	29.69	28.90	PN ₂ (t)
Calculated Target PN ₂	26.07	51.82	44.46	28.39	8.75	0.44	0.07	0.05	2.37	3.57	4.18	Buffer
Initial PN ₂ Inspired	26.07											
Target - Initial	0											
Segment 11 Conditions												
Segment Depth (FSW)	0	1.34	3.09	13.85	28.48	34.69	34.62	33.77	31.06	29.69	28.90	PN ₂ (t)
Segment Time (Min)	0	103.60	87.58	72.42	58.08	52.08	50.83	48.33	47.24	46.74	46.24	Nxt Seg Ms
Inspired O ₂ Fraction	0.21	53.16	47.55	42.25	37.23	35.13	34.69	33.82	33.43	33.26	33.08	Safety Ms
Calculated PN ₂	26.07	51.82	44.46	28.39	8.75	0.44	0.07	0.05	2.37	3.57	4.18	Buffer

Part B

0.00													
Linear Transition Time	0.00	0.0											
Transition O ₂ Fraction	0.21		1.34	3.09	13.85	28.48	34.69	34.62	33.77	31.06	29.69	28.90	PN ₂ (t)
Calculated Target PN ₂	26.07		51.82	44.46	28.39	8.75	0.44	0.07	0.05	2.37	3.57	4.18	Buffer
Initial PN ₂ Inspired	26.07												
Target - Initial	0												
Segment 12 Conditions													
Segment Depth (FSW)	0		1.34	3.09	13.85	28.48	34.69	34.62	33.77	31.06	29.69	28.90	PN ₂ (t)
Segment Time (Min)	0		103.60	87.58	72.42	58.08	52.08	50.83	48.33	47.24	46.74	46.24	Nxt Seg Ms
Inspired O ₂ Fraction	0.21		53.16	47.55	42.25	37.23	35.13	34.69	33.82	33.43	33.26	33.08	Safety Ms
Calculated PN ₂	26.07		51.82	44.46	28.39	8.75	0.44	0.07	0.05	2.37	3.57	4.18	Buffer
0.00													
Linear Transition Time	0.00	0.0											
Transition O ₂ Fraction	0.21		1.34	3.09	13.85	28.48	34.69	34.62	33.77	31.06	29.69	28.90	PN ₂ (t)
Calculated Target PN ₂	26.07		51.82	44.46	28.39	8.75	0.44	0.07	0.05	2.37	3.57	4.18	Buffer
Initial PN ₂ Inspired	26.07												
Target - Initial	0												
Final Depth (FSW)	0												
Final Air PN ₂	26.1												
Total Dive Time (A+B Min)	118.7												
Residual PN ₂ (mm-min)	7593		-123.63	-229.79	-244.35	96.479	689.47	1025.67	1231.6	1598.22	1737.97	1811.48	
Residual PN ₂ Index (mm)	4.05												
0.00													

Torr Estimator: Alt (0-20000') = 10000 Torr = 519.34 Equiv = -10.45 FSW