

## HEMOGLOBIN AND HEMATOCRITE STANDARDS BY ALTITUDE FOR NONSMOKERS AND SMOKERS

From 1998 CDC Guidelines

AREA AND ELEVATION	HCT/HGB NS AND S	BLOOD VALUES FOR HEMOGLOBIN AND HEMATOCRIT							Infants 6-24 mo	Children 2-5 yrs
		Women								
		Pregnant weeks gestation:			Nonpregnant					
		0-13	14-29	30-40	12-14 yrs	15-17 yrs	≥18 yrs			
Less than 3000 feet  Henderson Las Vegas Pahrump Mesquite	Hemoglobin g%									
	Nonsmoker	11.0	10.5	11.0	11.8	12.0	12.0	11.0	11.1	
	Smoker									
	<1 pack/day	11.3	10.8	11.3	12.1	12.3	12.3			
	1-2 packs/day	11.5	11.0	11.5	12.3	12.5	12.5			
	≥2 packs/day	11.7	11.2	11.7	12.5	12.7	12.7			
	Hematocrit %									
	Nonsmoker	33.0	32.0	33.0	35.7	35.9	35.7	32.9	33.0	
	Smoker									
	<1 pack/day	34.0	33.0	34.0	36.7	36.9	36.7			
1-2 packs/day	34.5	33.5	34.5	37.2	37.4	37.2				
≥2 packs/day	35.0	34.0	35.0	37.7	37.9	37.7				
3000-3999 feet  Alamo Beatty Fallon Lovelock Stillwater	Hemoglobin g%									
	Nonsmoker	11.2	10.7	11.2	12.0	12.2	12.2	11.2	11.3	
	Smoker									
	<1 pack/day	11.5	11.0	11.5	12.3	12.5	12.5			
	1-2 packs/day	11.7	11.2	11.7	12.5	12.7	12.7			
	≥2 packs/day	11.9	11.4	11.9	12.7	12.9	12.9			
	Hematocrit %									
	Nonsmoker	33.5	32.5	33.5	36.2	36.4	36.2	33.4	33.5	
	Smoker									
	<1 pack/day	34.5	33.5	34.5	37.2	37.4	37.2			
1-2 packs/day	35.0	34.0	35.0	37.7	37.9	37.7				
≥2 packs/day	35.5	34.5	35.5	38.2	38.4	38.2				

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		Women							
		Pregnant weeks gestation:			Nonpregnant				
4000-4999 feet	<b>Hemoglobin g%</b>								
Battle Mountain	Nonsmoker	11.3	10.8	11.3	12.1	12.3	12.3	11.3	11.4
Babbit	Smoker								
Caliente	<1 pack/day	11.6	11.1	11.6	12.4	12.6	12.6		
Carlin	1-2 packs/day	11.8	11.3	11.8	12.6	12.8	12.8		
Carson City	≥2 packs/day	12.0	11.5	12.0	12.8	13.0	13.0		
Dayton									
Dresslerville	<b>Hematocrit %</b>								
Dyer									
Fernley	Nonsmoker	34.0	33.0	34.0	36.7	36.9	36.7	33.9	34.0
Gabbs	Smoker								
Gardnerville	<1 pack/day	35.0	34.0	35.0	37.7	37.9	37.7		
Hawthorne	1-2 packs/day	35.5	34.5	35.5	38.2	38.4	38.2		
Imlay	≥2 packs/day	36.0	35.0	36.0	38.7	38.9	38.7		
McDermitt									
Mina									
Minden									
Montello									
Orvada									
Panaca									
Reno									
Schurz									
Silver Springs									
Wendover									
Winnemucca									
Yerington									
5000 -5999 feet	<b>Hemoglobin g%</b>	0-13	14-29	30-40	12-14 yrs	15-17 yrs	≥18 yrs	6-24 mo	2-5 yrs
Duckwater	Nonsmoker	11.5	11.0	11.5	12.3	12.5	12.5	11.5	11.6
Elko	SMOKER								
Goldfield	<1 pack/day	11.8	11.3	11.8	12.6	12.8	12.8		
Jackpot	1-2 packs/day	12.0	11.5	12.0	12.8	13.0	13.0		
Lund	≥2 packs/day	12.2	11.7	12.2	13.0	13.2	13.2		
Mountain City									
Owyhee	<b>Hematocrit %</b>								
Topaz									
Wells	Nonsmoker	34.5	33.5	34.5	37.2	37.4	37.2	34.4	34.5
	Smoker								
	<1 pack/day	35.5	34.5	35.5	38.2	38.4	38.2		
	1-2 packs/day	36.0	35.0	36.0	38.7	38.9	38.7		
	≥2 packs/day	36.5	35.5	36.5	39.2	39.4	39.2		

AREA AND ELEVATION	HCT/HGB NS AND S	BLOOD VALUES FOR HEMOGLOBIN AND HEMATOCRIT						Infants	Children
		Women							
		Pregnant weeks gestation:			Nonpregnant				
6000-6999 feet	<b>Hemoglobin g%</b>								
Austin	Nonsmoker	11.7	11.2	11.7	12.5	12.7	12.7	11.7	11.8
Beowawe	Smoker								
Ely	<1 pack/day	12.0	11.5	12.0	12.8	13.0	13.0		
Eureka	1-2 packs/day	12.2	11.7	12.2	13.0	13.2	13.2		
McGill	≥2 packs/day	12.4	11.9	12.4	13.4	13.4	13.4		
Pioche									
Round Mountain	<b>Hematocrit %</b>								
Ruth									
Stalene	Nonsmoker	35.0	34.0	35.0	37.7	37.9	37.7	34.9	35.0
Tonopah	Smoker								
Virginia City	<1 pack/day	36.0	35.0	36.0	38.7	38.9	38.7		
Zepher Cove	1-2 packs/day	36.5	35.5	36.5	39.2	39.4	39.2		
	≥2 packs/day	37.0	36.0	37.0	39.7	39.9	39.7		