

## § 79.74

Once the appeals procedures are completed, an individual whose claim for compensation under the Act is affirmed on appeal may seek judicial review in a district court of the United States.

### § 79.74 Representatives and attorney's fees.

(a) *Representation.* In submitting and presenting a claim to the Program, a claimant or beneficiary may, but need not, be represented by an attorney or by a representative of an Indian Tribe or tribal organization. Non-attorneys (other than representatives of an Indian Tribe or tribal organization) are not permitted to represent claimants or beneficiaries before the Program. To the extent that resources are available, the Assistant Director will provide assistance to all persons who file claims for compensation. Only qualified attorneys, as described in paragraph (c) of this section, may receive from a claimant or beneficiary any fee in connection with a successful claim.

(b) *Fees.* (1) Notwithstanding any contract, the attorney of a claimant or beneficiary, along with any assistants or experts retained by the attorney on behalf of the claimant or beneficiary, may not receive from a claimant or beneficiary any fee for services rendered, including costs incurred, in connection with an unsuccessful claim.

(2) Notwithstanding any contract and except as provided in paragraph (b)(3) of this section, the attorney of a claimant or beneficiary, along with any assistants or experts retained by the attorney on behalf of the claimant or beneficiary, may receive from a claimant or beneficiary no more than 2% of the total award for all services rendered, including costs incurred, in connection with a successful claim.

(3)(i) If an attorney entered into a contract with the claimant or beneficiary for services before July 10, 2000, with respect to a particular claim, then that attorney may receive up to 10% of the total award for services rendered, including costs incurred, in connection with a successful claim.

(ii) If an attorney resubmits a previously denied claim, then that attorney may receive up to 10% of the total award to the claimant or beneficiary for services rendered, including costs

## 28 CFR Ch. I (7-1-05 Edition)

incurred, in connection with that subsequently successful claim. Resubmission of a previously denied claim includes only those claims that were previously denied and refiled under the Act.

(4) Any violation of paragraph (b) of this section shall result in a fine of not more than \$5,000.

(c) *Attorney qualifications.* An attorney may not represent a claimant or beneficiary unless the attorney is engaged in the private practice of law and an active member in good standing of the bar of the highest court of a state. Attorneys who are members of multiple state bars, and who are suspended, sanctioned, disbarred, or disqualified from the practice of law for professional misconduct in one state may not represent a claimant or beneficiary even though the attorney continues to remain in good standing of the bar of another state. If a claimant or beneficiary is represented by an attorney, then the attorney must submit the following documents to the Program along with the claim:

(1) A statement of the attorney's active membership in good standing of the bar of the highest court of a state; and

(2) A signed representation agreement, retainer agreement, fee agreement, or contract, documenting the attorney's authorization to represent the claimant or beneficiary. The document must acknowledge that the Act's fee limitations are satisfied.

### § 79.75 Procedures for payment of claims.

(a) All awards for compensation are made in the form of one time lump sum payments and shall be made to the claimant or to the legal guardian of the claimant, unless the claimant is deceased at the time of the payment. In cases involving a claimant who is deceased, payment shall be made to each eligible surviving beneficiary or to the legal guardian acting on his or her behalf, in accordance with the terms and conditions specified in the Act. Once the Program has received the claimant's or eligible surviving beneficiary's election to accept the payment, the Assistant Director shall ensure that the claim is paid within six

**Department of Justice****\$ 79.75**

weeks. All time frames for processing claims under the Act are suspended during periods when the Radiation Trust Fund is not funded.

(b) In cases involving the approval of a claim, the Assistant Director shall take all necessary and appropriate steps to determine the correct amount of any offset to be made to the amount awarded under the Act and to verify the identity of the claimant or, in the case of a deceased claimant, the existence of eligible surviving beneficiaries who are entitled by the Act to receive the payment the claimant would have received. The Assistant Director may conduct any investigation, and may require any claimant or eligible surviving beneficiary to provide or execute any affidavit, record, or document or authorize the release of any information the Assistant Director deems necessary to ensure that the compensation payment is made in the correct amount and to the correct person(s). If the claimant or eligible surviving beneficiary fails or refuses to execute an affidavit or release of information, or to provide a record or document requested, or fails to provide access to information, such failure or refusal may be deemed to be a rejection of the payment, unless the claimant or eligible surviving beneficiary does not have and cannot obtain the legal authority to provide, release or authorize access to the required information, records or documents.

(c) Prior to authorizing payment, the Assistant Director shall require the claimant or each eligible surviving beneficiary to execute and provide an affidavit (or declaration under oath on the standard claim form) setting forth the amount of any payment made pursuant to a final award or settlement on a claim (other than a claim for worker's compensation), against any person, that is based on injuries incurred by the claimant on account of:

(1) Exposure to radiation from an atmospheric detonation of a nuclear device while present in an affected area (as defined in § 79.11(a)) at any time during the periods described in § 79.11(c) or § 79.11(h);

(2) Exposure to radiation while participating onsite in an atmospheric detonation of a nuclear device (as de-

fined in § 79.11(b)) at any time during the periods described in § 79.11(h) (This paragraph (c) only applies to claims filed under section 4(a)(1)(A)(i)(III) of the Act); or

(3) Exposure to radiation during employment in a uranium mine at any time during the period described in section 5 of the Act. For purposes of this paragraph, a "claim" includes, but is not limited to, any request or demand for money made or sought in a civil action or made or sought in anticipation of the filing of a civil action, but shall not include requests or demands made pursuant to a life insurance or health insurance contract. If any such award or settlement payment was made, the Assistant Director shall subtract the sum of such award or settlement payments from the payment to be made under the Act.

(d) In the case of a claim filed under section 4(a)(2)(C) of the Act, the Assistant Director shall require the claimant or each eligible surviving beneficiary to execute and provide an affidavit (or declaration under oath on the standard claim form) setting forth the amount of any payment made pursuant to a final award or settlement on a claim (other than a claim for worker's compensation) against any person or any payment made by the Department of Veterans Affairs, that is based on injuries incurred by the claimant on account of exposure to radiation as a result of onsite participation in a test involving the atmospheric detonation of a nuclear device. For purposes of this paragraph, a "claim" includes, but is not limited to, any request or demand for money made or sought in a civil action or made or sought in anticipation of a civil action, but shall not include requests or demands made pursuant to a life-or health-insurance contract.

(1) Payments by the Department of Veterans Affairs shall include:

(i) Any disability payments or compensation benefits paid to the claimant and his or her dependents while the claimant is alive; and

(ii) Any Dependency and Indemnity Compensation payments made to survivors due to death related to the illness for which the claim under the Act is submitted.

## § 79.75

## 28 CFR Ch. I (7-1-05 Edition)

(2) Payments by the Department of Veterans Affairs shall not include:

(i) Active duty pay, retired pay, retainer pay, or payments under the Survivor Benefits Plan;

(ii) Death gratuities;

(iii) SGLI, VGLI, or mortgage, life, or health insurance payments;

(iv) Burial benefits or reimbursement for burial expenses;

(v) Loans or loan guarantees;

(vi) Education benefits and payments;

(vii) Vocational rehabilitation benefits and payments;

(viii) Medical, hospital, and dental benefits; or

(ix) Commissary and PX privileges.

(e) If any such award, settlement, or payment was made as described in paragraphs (c) or (d) of this section, the Assistant Director shall calculate the actuarial present value of such payment(s), and subtract the actuarial present value from the payment to be made under the Act. The actuarial present value shall be calculated using the worksheet in appendix C to this part in the following manner:

(1) Step 1. The sums of the past payments received in each year are entered in the appropriate rows in column (2). Additional rows will be added as needed to calculate the present value of payments received in the years prior to 1960 and after 1990.

(2) Step 2. The present CPI-U (to be obtained monthly from the Bureau of Labor Statistics, Department of Labor) is entered in column (3).

(3) Step 3. The CPI (Major Expenditure Classes—All Items) for each year in which payments were received is entered in the appropriate row in column (4). (This measure is provided for 1960 through 1990. The measure for subsequent years will be obtained from the Bureau of Labor Statistics.)

(4) Step 4. For each row, the amount in column (2) is multiplied by the corresponding inflator (column (3) divided by column (4)) and the product is entered in column (5).

(5) Step 5. The products in column (5) are added together and the sum is entered on the line labeled "Total of column (5) equals actuarial present value of past payments."

(6) Step 6. The sum in Step 5 is subtracted from the statutory payment of \$75,000 and the remainder is entered on the line labeled "Net Claim Owed To Claimant."

(f) When the Assistant Director has verified the identity of the claimant or each eligible surviving beneficiary who is entitled to the compensation payment or to a share of the compensation payment, and has determined the correct amount of the payment or the share of the payment, he or she shall notify the claimant or each eligible surviving beneficiary, or his or her legal guardian, and require such person(s) to sign an Acceptance of Payment Form. Such form shall be signed and returned within 60 days of the date of the form or such greater period as may be allowed by the Assistant Director. Failure to return the signed form within the required time may be deemed to be a rejection of the payment. Signing and returning the form within the required time shall constitute acceptance of the payment, unless the individual who has signed the form dies prior to receiving the actual payment, in which case the person who possesses the payment shall return it to the Assistant Director for redetermination of the correct disbursement of the payment.

(g) Rejected compensation payments or shares of compensation payments shall not be distributed to other eligible surviving beneficiaries, but shall be returned to the Trust Fund for use in paying other claims.

(h) Upon receipt of the Acceptance of Payment Form, the Assistant Director or the Constitutional and Specialized Torts Staff Director or Deputy Director, or their designee, shall authorize the appropriate authorities to issue a check to the claimant or to each eligible surviving beneficiary who has accepted payment out of the funds appropriated for this purpose.

(i) *Multiple payments.* (1) No claimant may receive payment under more than one subpart of this part for illnesses that he or she contracted. In addition to one payment for his or her illnesses, he or she may also receive one payment for each claimant for whom he or she qualifies as an eligible surviving beneficiary.

**Department of Justice****§ 79.75**

(2) An eligible surviving beneficiary who is not also a claimant may receive one payment for each claimant for whom he or she qualifies as an eligible surviving beneficiary.

## APPENDIX A TO PART 79—FVC AND FEV-1 LOWER LIMITS OF NORMAL VALUES

TABLE 1—CAUCASIAN MALES FVC LOWER LIMIT OF NORMAL VALUES, HANKINSON, ET AL. (1999)

[Reference value equation:  $-0.1933 + (0.00064)(\text{age}) + (-0.000269)(\text{age}^2) + (0.00015695)(\text{height}^2)$ ]

Height in inches	Height in centimeters	Age in years																
		49	51	53	55	57	59	61	63	65	67	69	71	73	75	77	79	81
61.0	154.9	2.96	2.91	2.85	2.79	2.74	2.67	2.61	2.55	2.48	2.41	2.34	2.26	2.19	2.11	2.03	1.94	1.86
61.5	156.2	3.02	2.97	2.91	2.86	2.80	2.74	2.67	2.61	2.54	2.47	2.40	2.33	2.25	2.17	2.09	2.01	1.92
62.0	157.5	3.09	3.03	2.98	2.92	2.86	2.80	2.74	2.67	2.61	2.54	2.46	2.39	2.31	2.23	2.15	2.07	1.99
62.5	158.8	3.15	3.10	3.04	2.99	2.93	2.87	2.80	2.74	2.67	2.60	2.53	2.45	2.38	2.30	2.21	2.14	2.05
63.0	160.0	3.21	3.16	3.10	3.05	2.99	2.93	2.86	2.80	2.73	2.66	2.59	2.51	2.44	2.36	2.28	2.20	2.11
63.5	161.3	3.28	3.22	3.17	3.11	3.05	2.98	2.93	2.86	2.80	2.73	2.65	2.58	2.50	2.43	2.34	2.26	2.18
64.0	162.6	3.34	3.29	3.23	3.18	3.12	3.06	2.99	2.93	2.86	2.79	2.72	2.65	2.57	2.49	2.41	2.33	2.24
64.5	163.8	3.40	3.35	3.30	3.24	3.18	3.12	3.06	2.99	2.92	2.85	2.78	2.71	2.63	2.55	2.47	2.39	2.30
65.0	165.1	3.47	3.42	3.36	3.31	3.25	3.19	3.12	3.06	2.99	2.92	2.85	2.77	2.70	2.62	2.54	2.46	2.37
65.5	166.4	3.54	3.48	3.43	3.37	3.31	3.25	3.19	3.12	3.06	2.99	2.91	2.84	2.76	2.69	2.61	2.52	2.44
66.0	167.6	3.60	3.55	3.50	3.44	3.38	3.32	3.26	3.19	3.12	3.05	2.98	2.91	2.83	2.75	2.67	2.59	2.50
66.5	168.9	3.67	3.62	3.56	3.51	3.45	3.39	3.32	3.26	3.19	3.12	3.05	2.97	2.90	2.82	2.74	2.66	2.57
67.0	170.2	3.74	3.69	3.63	3.57	3.52	3.45	3.39	3.33	3.26	3.19	3.12	3.04	2.97	2.89	2.81	2.72	2.64
67.5	171.5	3.81	3.76	3.70	3.64	3.59	3.52	3.46	3.40	3.33	3.26	3.19	3.11	3.04	2.96	2.88	2.79	2.71
68.0	172.7	3.87	3.82	3.77	3.71	3.65	3.59	3.53	3.46	3.39	3.32	3.25	3.18	3.10	3.02	2.94	2.86	2.77
68.5	174.0	3.94	3.89	3.84	3.78	3.72	3.66	3.60	3.53	3.46	3.39	3.32	3.25	3.17	3.09	3.01	2.93	2.85
69.0	175.3	4.02	3.96	3.91	3.85	3.79	3.73	3.67	3.60	3.53	3.47	3.39	3.32	3.24	3.16	3.08	3.00	2.92
69.5	176.5	4.08	4.03	3.97	3.92	3.86	3.80	3.73	3.67	3.60	3.53	3.46	3.39	3.31	3.23	3.15	3.07	2.98
70.0	177.8	4.15	4.10	4.05	3.99	3.93	3.87	3.81	3.74	3.67	3.60	3.53	3.46	3.38	3.30	3.22	3.14	3.06
70.5	179.1	4.23	4.17	4.12	4.06	4.00	3.94	3.88	3.81	3.75	3.68	3.60	3.53	3.45	3.38	3.30	3.21	3.13
71.0	180.3	4.29	4.24	4.19	4.13	4.07	4.01	3.95	3.88	3.81	3.74	3.67	3.60	3.52	3.44	3.36	3.28	3.20
71.5	181.6	4.37	4.32	4.26	4.20	4.15	4.08	4.02	3.96	3.89	3.82	3.75	3.67	3.60	3.52	3.44	3.35	3.27
72.0	182.9	4.44	4.39	4.34	4.28	4.22	4.16	4.10	4.03	3.96	3.89	3.82	3.75	3.67	3.59	3.51	3.43	3.34
72.5	184.2	4.52	4.46	4.41	4.35	4.29	4.23	4.17	4.10	4.04	3.97	3.90	3.82	3.74	3.67	3.59	3.50	3.42
73.0	185.4	4.59	4.53	4.48	4.42	4.36	4.30	4.24	4.17	4.11	4.04	3.97	3.89	3.81	3.74	3.66	3.57	3.49
73.5	186.7	4.66	4.61	4.56	4.50	4.44	4.38	4.32	4.25	4.18	4.11	4.04	3.97	3.89	3.81	3.73	3.65	3.56
74.0	188.0	4.74	4.69	4.63	4.58	4.52	4.46	4.39	4.33	4.26	4.19	4.12	4.04	3.97	3.89	3.81	3.73	3.64
74.5	189.2	4.81	4.76	4.70	4.65	4.59	4.53	4.46	4.40	4.33	4.26	4.19	4.11	4.04	3.96	3.88	3.80	3.71
75.0	190.5	4.89	4.84	4.78	4.72	4.66	4.60	4.54	4.48	4.41	4.34	4.27	4.19	4.12	4.04	3.96	3.87	3.79
75.5	191.8	4.97	4.91	4.86	4.80	4.74	4.68	4.62	4.55	4.49	4.42	4.34	4.27	4.19	4.12	4.03	3.95	3.87
76.0	193.0	5.04	4.99	4.93	4.87	4.82	4.75	4.69	4.63	4.56	4.49	4.42	4.34	4.27	4.19	4.11	4.02	3.94
76.5	194.3	5.12	5.06	5.01	4.95	4.89	4.83	4.77	4.70	4.64	4.57	4.50	4.42	4.35	4.27	4.19	4.10	4.02
77.0	195.6	5.20	5.14	5.09	5.03	4.97	4.91	4.85	4.78	4.72	4.65	4.57	4.50	4.42	4.35	4.27	4.18	4.10
77.5	196.9	5.28	5.22	5.17	5.10	5.05	4.99	4.93	4.86	4.80	4.73	4.66	4.58	4.50	4.43	4.35	4.26	4.18
78.0	198.1	5.35	5.30	5.24	5.19	5.13	5.07	5.00	4.94	4.87	4.80	4.73	4.66	4.58	4.50	4.42	4.34	4.25
78.5	199.4	5.43	5.38	5.32	5.27	5.21	5.15	5.09	5.02	4.95	4.88	4.81	4.74	4.66	4.58	4.50	4.42	4.33
79.0	200.7	5.51	5.46	5.41	5.35	5.29	5.23	5.17	5.10	5.03	4.96	4.89	4.82	4.74	4.66	4.58	4.50	4.42
79.5	201.9	5.59	5.54	5.48	5.43	5.37	5.31	5.24	5.18	5.11	5.04	4.97	4.89	4.82	4.74	4.66	4.58	4.49
80.0	203.2	5.67	5.62	5.57	5.51	5.45	5.39	5.33	5.26	5.19	5.12	5.05	4.98	4.90	4.82	4.74	4.66	4.57
80.5	204.5	5.76	5.70	5.65	5.59	5.53	5.47	5.41	5.34	5.28	5.21	5.13	5.06	4.98	4.91	4.82	4.74	4.66
81.0	205.7	5.83	5.78	5.67	5.61	5.55	5.49	5.43	5.35	5.28	5.21	5.13	5.06	5.00	4.98	4.91	4.82	4.73

**Department of Justice**

**Pt. 79, App. A**

TABLE 1A—CAUCASIAN MALES FEV-1 LOWER LIMIT OF NORMAL VALUES, HANKINSON, ET AL. (1999)

Height in inches	Height in centimeters	Age in years																	
		49	51	53	55	57	59	61	63	65	67	69	71	73	75	77	79	81	
81.5	207.0	5.92	5.86	5.81	5.75	5.69	5.63	5.57	5.50	5.44	5.37	5.30	5.22	5.15	5.07	4.99	4.90	4.82	
82.0	208.3	6.00	5.95	5.89	5.84	5.78	5.72	5.65	5.59	5.52	5.45	5.38	5.31	5.23	5.15	5.07	4.99	4.90	
82.5	209.6	6.09	6.03	5.98	5.92	5.86	5.80	5.74	5.67	5.61	5.54	5.47	5.39	5.32	5.24	5.16	5.07	4.99	
61.0	154.9	2.29	2.23	2.16	2.10	2.04	1.97	1.90	1.84	1.76	1.69	1.62	1.55	1.47	1.39	1.32	1.24	1.15	
61.5	156.2	2.33	2.27	2.21	2.15	2.08	2.02	1.95	1.88	1.81	1.74	1.67	1.59	1.52	1.44	1.36	1.28	1.20	
62.0	157.5	2.38	2.32	2.26	2.20	2.13	2.07	2.00	1.93	1.86	1.79	1.71	1.64	1.57	1.49	1.41	1.33	1.25	
62.5	158.8	2.43	2.37	2.31	2.24	2.18	2.11	2.05	1.98	1.91	1.84	1.76	1.69	1.61	1.54	1.46	1.38	1.30	
63.0	160.0	2.47	2.41	2.35	2.29	2.22	2.16	2.09	2.02	1.95	1.88	1.81	1.73	1.66	1.58	1.50	1.42	1.34	
63.5	161.3	2.52	2.46	2.40	2.34	2.27	2.21	2.14	2.07	2.00	1.93	1.86	1.78	1.71	1.63	1.55	1.47	1.39	
64.0	162.6	2.57	2.51	2.45	2.39	2.32	2.25	2.19	2.12	2.05	1.98	1.90	1.83	1.75	1.68	1.60	1.52	1.44	
64.5	163.8	2.62	2.56	2.49	2.43	2.37	2.30	2.23	2.16	2.09	2.02	1.95	1.88	1.80	1.72	1.64	1.56	1.48	
65.0	165.1	2.67	2.61	2.54	2.48	2.42	2.35	2.28	2.21	2.14	2.07	2.00	1.93	1.85	1.77	1.69	1.61	1.53	
65.5	166.4	2.71	2.65	2.59	2.53	2.46	2.40	2.33	2.26	2.19	2.12	2.05	1.97	1.90	1.82	1.74	1.66	1.58	
66.0	167.6	2.76	2.70	2.64	2.58	2.51	2.45	2.38	2.31	2.24	2.17	2.10	2.02	1.95	1.87	1.79	1.71	1.63	
66.5	168.9	2.81	2.75	2.69	2.63	2.56	2.50	2.43	2.36	2.29	2.22	2.15	2.07	2.00	1.92	1.84	1.76	1.68	
67.0	170.2	2.86	2.80	2.74	2.68	2.61	2.55	2.48	2.41	2.34	2.27	2.20	2.12	2.05	1.97	1.89	1.81	1.73	
67.5	171.5	2.92	2.86	2.79	2.73	2.67	2.60	2.53	2.46	2.39	2.32	2.25	2.18	2.10	2.02	1.94	1.86	1.78	
68.0	172.7	2.96	2.90	2.84	2.78	2.71	2.65	2.58	2.51	2.44	2.37	2.30	2.22	2.15	2.07	1.99	1.91	1.83	
68.5	174.0	3.02	2.96	2.89	2.83	2.77	2.70	2.63	2.56	2.49	2.42	2.35	2.28	2.20	2.12	2.04	1.96	1.88	
69.0	175.3	3.07	3.01	2.95	2.88	2.82	2.75	2.69	2.62	2.55	2.48	2.40	2.33	2.25	2.18	2.10	2.02	1.94	
69.5	176.5	3.12	3.06	3.00	2.93	2.87	2.80	2.73	2.67	2.60	2.52	2.45	2.38	2.30	2.22	2.15	2.07	1.99	
70.0	177.8	3.17	3.11	3.05	2.99	2.92	2.86	2.79	2.72	2.65	2.58	2.50	2.43	2.36	2.28	2.20	2.12	2.04	
70.5	179.1	3.23	3.16	3.10	3.04	2.98	2.91	2.84	2.77	2.70	2.63	2.56	2.48	2.41	2.33	2.25	2.17	2.09	
71.0	180.3	3.28	3.21	3.15	3.09	3.03	2.96	2.89	2.82	2.75	2.68	2.61	2.53	2.46	2.38	2.30	2.22	2.14	
71.5	181.6	3.33	3.27	3.21	3.14	3.08	3.01	2.95	2.88	2.81	2.74	2.66	2.59	2.51	2.44	2.36	2.28	2.20	
72.0	182.9	3.38	3.32	3.26	3.20	3.13	3.07	3.00	2.93	2.86	2.79	2.72	2.64	2.57	2.49	2.41	2.33	2.25	
72.5	184.2	3.44	3.38	3.32	3.25	3.19	3.12	3.06	2.99	2.92	2.85	2.77	2.70	2.62	2.55	2.47	2.39	2.31	
73.0	185.4	3.49	3.43	3.37	3.31	3.24	3.18	3.11	3.04	3.04	2.97	2.90	2.83	2.75	2.68	2.60	2.52	2.44	
73.5	186.7	3.55	3.49	3.43	3.36	3.30	3.23	3.16	3.10	3.03	2.95	2.88	2.81	2.73	2.65	2.58	2.50	2.42	
74.0	188.0	3.60	3.54	3.48	3.42	3.35	3.29	3.22	3.15	3.08	3.01	2.94	2.86	2.79	2.71	2.63	2.55	2.47	
74.5	189.2	3.66	3.60	3.53	3.47	3.41	3.34	3.27	3.20	3.13	3.06	2.99	2.92	2.84	2.76	2.69	2.61	2.52	
75.0	190.5	3.71	3.65	3.59	3.53	3.46	3.40	3.33	3.26	3.19	3.12	3.03	2.96	2.88	2.74	2.66	2.58	2.50	
75.5	191.8	3.77	3.71	3.65	3.59	3.52	3.46	3.39	3.32	3.25	3.18	3.11	3.03	2.96	2.88	2.72	2.64	2.56	
76.0	193.0	3.83	3.77	3.70	3.64	3.58	3.51	3.44	3.37	3.30	3.23	3.16	3.08	3.01	2.93	2.85	2.77	2.69	
76.5	194.3	3.88	3.82	3.76	3.70	3.63	3.57	3.50	3.43	3.36	3.29	3.14	3.07	2.99	2.91	2.83	2.75	2.67	
77.0	195.6	3.94	3.88	3.82	3.76	3.69	3.63	3.56	3.49	3.42	3.35	3.28	3.20	3.13	3.05	2.97	2.89	2.81	
77.5	196.9	4.00	3.94	3.88	3.82	3.75	3.69	3.62	3.55	3.48	3.41	3.34	3.26	3.19	3.11	3.03	2.95	2.87	
78.0	198.1	4.06	3.99	3.93	3.87	3.81	3.74	3.67	3.61	3.53	3.46	3.39	3.32	3.24	3.16	3.09	3.01	2.92	
78.5	199.4	4.12	4.06	3.99	3.93	3.87	3.80	3.73	3.67	3.59	3.52	3.45	3.38	3.30	3.22	3.15	3.07	2.98	
79.0	200.7	4.18	4.12	4.06	3.99	3.93	3.86	3.79	3.73	3.66	3.58	3.51	3.44	3.36	3.28	3.21	3.13	3.05	
79.5	201.9	4.23	4.17	4.11	4.05	3.98	3.92	3.85	3.78	3.71	3.64	3.57	3.49	3.42	3.34	3.26	3.18	3.10	

TABLE 1A—CAUCASIAN MALES FEV-1 LOWER LIMIT OF NORMAL VALUES, HANKINSON, ET AL. (1999)—Continued  
 [Reference value equation:  $0.5536 + (-0.01303)(\text{age}) + (-0.000172)(\text{age}^2) + (0.00011607)(\text{height}^2)$ ]

Height in inches	Height in centimeters	Age in years									
		49	51	53	55	57	59	61	63	65	67
80.0	203.2	4.29	4.23	4.17	4.11	4.04	3.98	3.91	3.84	3.77	3.70
80.5	204.5	4.36	4.30	4.23	4.17	4.11	4.04	3.97	3.90	3.83	3.76
81.0	205.7	4.41	4.35	4.29	4.23	4.16	4.10	4.03	3.96	3.89	3.82
81.5	207.0	4.48	4.42	4.35	4.29	4.23	4.16	4.09	4.02	3.95	3.88
82.0	208.3	4.54	4.48	4.42	4.35	4.29	4.22	4.15	4.09	4.02	3.94
82.5	209.6	4.54	4.48	4.42	4.35	4.29	4.22	4.15	4.08	4.01	3.93

TABLE 2—CAUCASIAN FEMALES FVC LOWER LIMIT OF NORMAL VALUES, HANKINSON, ET AL. (1999)  
 [Reference value equation:  $-0.356 + (0.0187)(\text{age}) + (-0.000382)(\text{age}^2) + (0.00012198)(\text{height}^2)$ ]

Height in inches	Height in centimeters	Age in years									
		49	51	53	55	57	59	61	63	65	67
61.0	154.9	2.57	2.53	2.49	2.44	2.40	2.34	2.29	2.23	2.17	2.11
61.5	156.2	2.62	2.54	2.49	2.44	2.39	2.34	2.28	2.22	2.16	2.09
62.0	157.5	2.67	2.63	2.59	2.54	2.49	2.44	2.39	2.33	2.27	2.21
62.5	158.8	2.72	2.68	2.64	2.59	2.54	2.49	2.44	2.38	2.32	2.26
63.0	160.0	2.77	2.73	2.68	2.64	2.59	2.54	2.49	2.43	2.37	2.30
63.5	161.3	2.82	2.78	2.74	2.69	2.64	2.59	2.54	2.48	2.42	2.36
64.0	162.6	2.87	2.83	2.79	2.74	2.69	2.64	2.59	2.53	2.47	2.41
64.5	163.8	2.92	2.88	2.83	2.79	2.74	2.69	2.64	2.58	2.52	2.45
65.0	165.1	2.97	2.93	2.89	2.84	2.79	2.74	2.69	2.63	2.57	2.51
65.5	166.4	3.02	2.98	2.94	2.89	2.85	2.80	2.75	2.70	2.62	2.56
66.0	167.6	3.07	3.03	2.99	2.94	2.90	2.85	2.80	2.75	2.67	2.61
66.5	168.9	3.12	3.08	3.04	3.00	2.95	2.90	2.84	2.79	2.73	2.67
67.0	170.2	3.18	3.14	3.10	3.05	3.00	2.95	2.90	2.84	2.78	2.72
67.5	171.5	3.23	3.19	3.15	3.10	3.06	3.01	2.95	2.89	2.83	2.77
68.0	172.7	3.28	3.24	3.20	3.16	3.11	3.06	3.00	2.94	2.88	2.82
68.5	174.0	3.34	3.30	3.26	3.21	3.16	3.11	3.06	3.00	2.94	2.88
69.0	175.3	3.39	3.35	3.31	3.27	3.22	3.17	3.11	3.05	2.99	2.93
69.5	176.5	3.44	3.40	3.36	3.32	3.27	3.22	3.16	3.11	3.05	2.98
70.0	177.8	3.50	3.46	3.42	3.37	3.32	3.27	3.22	3.16	3.04	2.97
70.5	179.1	3.56	3.52	3.47	3.43	3.38	3.33	3.28	3.22	3.16	3.09
71.0	180.3	3.61	3.57	3.53	3.48	3.43	3.38	3.33	3.27	3.21	3.15
71.5	181.6	3.67	3.63	3.58	3.54	3.49	3.44	3.39	3.33	3.27	3.21
72.0	182.9	3.72	3.68	3.64	3.60	3.55	3.50	3.44	3.39	3.33	3.26
72.5	184.2	3.78	3.74	3.70	3.66	3.61	3.56	3.50	3.44	3.38	3.32
73.0	185.4	3.84	3.80	3.75	3.71	3.66	3.61	3.56	3.50	3.44	3.37
73.5	186.7	3.89	3.86	3.81	3.77	3.72	3.67	3.62	3.56	3.49	3.43
74.0	188.0	3.95	3.92	3.87	3.83	3.78	3.73	3.67	3.62	3.56	3.48
74.5	189.2	4.01	3.97	3.93	3.88	3.84	3.78	3.73	3.67	3.61	3.55

TABLE 2A—CAUCASIAN FEMALES FEV-1 LOWER LIMIT OF NORMAL VALUES, HANKINSON, ET AL. (1999)											
[Reference value equation: $0.4333 + (-0.00361)(age) + (-0.00009283)(height^2)$ ]											
Height in inches	Height in centimeters	Age in years									
		49	51	53	55	57	59	61	63	65	67
61.0	154.9	2.02	1.97	1.92	1.88	1.82	1.77	1.72	1.66	1.61	1.55
61.5	156.2	2.06	2.01	1.96	1.91	1.86	1.81	1.76	1.70	1.64	1.59
62.0	157.5	2.09	2.05	2.00	1.95	1.90	1.85	1.79	1.74	1.68	1.62
62.5	158.8	2.13	2.09	2.04	1.99	1.94	1.89	1.83	1.78	1.72	1.66
63.0	160.0	2.17	2.12	2.07	2.02	1.97	1.92	1.87	1.81	1.76	1.70
63.5	161.3	2.21	2.16	2.11	2.06	2.01	1.96	1.91	1.85	1.79	1.74
64.0	162.6	2.24	2.20	2.15	2.10	2.05	2.00	1.95	1.89	1.83	1.77
64.5	163.8	2.28	2.24	2.19	2.14	2.09	2.04	1.98	1.93	1.87	1.81
65.0	165.1	2.32	2.27	2.23	2.18	2.13	2.08	2.02	1.97	1.91	1.85
65.5	166.4	2.36	2.31	2.27	2.22	2.17	2.11	2.06	2.01	1.95	1.89
66.0	167.6	2.40	2.35	2.31	2.26	2.21	2.15	2.10	2.04	1.99	1.93
66.5	168.9	2.44	2.39	2.35	2.30	2.25	2.19	2.14	2.08	2.03	1.97
67.0	170.2	2.48	2.43	2.39	2.34	2.29	2.23	2.18	2.12	2.07	2.01
67.5	171.5	2.52	2.47	2.43	2.38	2.33	2.28	2.22	2.17	2.11	2.05
68.0	172.7	2.56	2.51	2.47	2.42	2.37	2.31	2.26	2.20	2.15	2.09
68.5	174.0	2.60	2.56	2.51	2.46	2.41	2.36	2.30	2.25	2.19	2.13
69.0	175.3	2.64	2.60	2.55	2.50	2.45	2.40	2.34	2.29	2.23	2.17
69.5	176.5	2.68	2.64	2.59	2.54	2.49	2.44	2.38	2.33	2.27	2.21
70.0	177.8	2.73	2.68	2.63	2.58	2.53	2.48	2.43	2.37	2.31	2.26
70.5	179.1	2.77	2.72	2.67	2.63	2.57	2.52	2.47	2.41	2.36	2.30
71.0	180.3	2.81	2.76	2.71	2.67	2.61	2.56	2.51	2.45	2.40	2.34
71.5	181.6	2.85	2.81	2.76	2.71	2.66	2.61	2.55	2.50	2.44	2.38
72.0	182.9	2.90	2.85	2.80	2.75	2.70	2.65	2.60	2.54	2.48	2.37
72.5	184.2	2.94	2.89	2.85	2.80	2.75	2.70	2.64	2.59	2.53	2.47
73.0	185.4	2.98	2.94	2.89	2.85	2.80	2.75	2.70	2.64	2.59	2.57

Pt. 79, App. A

28 CFR Ch. I (7-1-05 Edition)

TABLE 2A—CAUCASIAN FEMALES FEV-1 LOWER LIMIT OF NORMAL VALUES, HANKINSON, ET AL. (1999)—Continued  
[Reference value equation:  $0.4333 + (-0.0036)(\text{age}) + (-0.000194)(\text{age}^2) + (0.00009283)(\text{height}^2)$ ]

Height in inches	Height in centimeters	Age in years																
		49	51	53	55	57	59	61	63	65	67	69	71	73	75	77	79	81
73.5	186.7	3.03	2.98	2.93	2.88	2.83	2.78	2.73	2.67	2.61	2.56	2.50	2.43	2.37	2.31	2.24	2.17	2.10
74.0	188.0	3.07	3.03	2.98	2.88	2.83	2.78	2.73	2.67	2.66	2.54	2.48	2.42	2.35	2.29	2.22	2.15	2.15
74.5	189.2	3.11	3.07	2.97	2.92	2.87	2.81	2.76	2.70	2.64	2.58	2.52	2.46	2.39	2.33	2.26	2.19	2.19
75.0	190.5	3.16	3.11	3.07	3.02	2.97	2.91	2.86	2.80	2.75	2.69	2.63	2.57	2.50	2.44	2.37	2.31	2.24
75.5	191.8	3.21	3.16	3.11	3.06	3.01	2.96	2.91	2.85	2.79	2.74	2.68	2.61	2.55	2.49	2.42	2.35	2.28
76.0	193.0	3.25	3.20	3.15	3.11	3.06	3.00	2.94	2.89	2.84	2.78	2.72	2.66	2.59	2.53	2.46	2.40	2.33
76.5	194.3	3.30	3.25	3.20	3.15	3.10	3.05	3.00	2.94	2.88	2.83	2.77	2.70	2.64	2.58	2.51	2.44	2.37
77.0	195.6	3.34	3.30	3.25	3.20	3.15	3.10	3.04	2.99	2.93	2.87	2.81	2.75	2.69	2.62	2.56	2.49	2.42
77.5	196.9	3.39	3.34	3.30	3.25	3.20	3.14	3.09	3.03	2.98	2.92	2.86	2.80	2.73	2.67	2.60	2.54	2.47
78.0	198.1	3.43	3.39	3.34	3.29	3.24	3.19	3.13	3.08	3.02	2.96	2.90	2.84	2.78	2.71	2.65	2.58	2.51
78.5	199.4	3.48	3.44	3.39	3.34	3.29	3.24	3.18	3.13	3.07	3.01	2.95	2.89	2.83	2.76	2.63	2.56	2.56
79.0	200.7	3.53	3.48	3.44	3.39	3.34	3.28	3.23	3.18	3.12	3.06	3.00	2.94	2.88	2.81	2.74	2.68	2.61
79.5	201.9	3.57	3.53	3.48	3.43	3.38	3.33	3.28	3.22	3.16	3.10	3.04	2.98	2.92	2.86	2.79	2.72	2.65
80.0	203.2	3.62	3.58	3.53	3.48	3.43	3.38	3.32	3.27	3.21	3.15	3.09	3.03	2.97	2.90	2.84	2.77	2.70
80.5	204.5	3.67	3.63	3.58	3.53	3.48	3.43	3.37	3.32	3.26	3.20	3.14	3.08	3.02	2.95	2.89	2.82	2.75
81.0	205.7	3.72	3.67	3.62	3.58	3.53	3.47	3.42	3.36	3.31	3.25	3.19	3.13	3.06	3.00	2.93	2.87	2.80
81.5	207.0	3.77	3.72	3.67	3.63	3.57	3.52	3.47	3.41	3.36	3.31	3.24	3.18	3.11	3.05	2.98	2.92	2.85
82.0	208.3	3.82	3.77	3.72	3.68	3.63	3.57	3.52	3.46	3.41	3.35	3.29	3.23	3.16	3.10	3.03	2.97	2.90
82.5	209.6	3.87	3.82	3.78	3.73	3.68	3.63	3.57	3.51	3.46	3.40	3.34	3.28	3.21	3.15	3.08	3.02	2.95

TABLE 3—AFRICAN AMERICAN MALES FVC LOWER LIMIT OF NORMAL VALUES, HANKINSON, ET AL. (1999)  
[Reference value equation:  $-0.1517 + (-0.01821)(\text{age}) + (0.0001367)(\text{height}^2)$ ]

Height in inches	Height in centimeters	Age in years																
		49	51	53	55	57	59	61	63	65	67	69	71	73	75	77	79	81
61.0	154.9	2.24	2.20	2.16	2.13	2.09	2.05	2.02	1.98	1.94	1.91	1.87	1.84	1.80	1.76	1.73	1.69	1.65
61.5	156.2	2.29	2.25	2.22	2.18	2.15	2.11	2.07	2.04	2.00	1.96	1.93	1.89	1.85	1.82	1.78	1.74	1.71
62.0	157.5	2.35	2.31	2.27	2.24	2.20	2.16	2.13	2.09	2.06	2.02	1.98	1.95	1.92	1.87	1.84	1.80	1.76
62.5	158.8	2.40	2.37	2.33	2.29	2.26	2.22	2.18	2.15	2.11	2.08	2.04	2.00	1.97	1.93	1.89	1.86	1.82
63.0	160.0	2.46	2.42	2.38	2.35	2.31	2.27	2.24	2.20	2.16	2.13	2.09	2.05	2.02	1.98	1.95	1.91	1.87
63.5	161.3	2.51	2.48	2.44	2.40	2.37	2.33	2.30	2.26	2.22	2.18	2.15	2.11	2.08	2.04	2.00	1.97	1.93
64.0	162.6	2.57	2.53	2.50	2.46	2.42	2.39	2.35	2.32	2.28	2.24	2.21	2.17	2.13	2.10	2.06	2.02	1.99
64.5	163.8	2.62	2.59	2.55	2.51	2.48	2.44	2.41	2.37	2.33	2.30	2.26	2.22	2.19	2.15	2.11	2.08	2.04
65.0	165.1	2.68	2.65	2.61	2.57	2.54	2.50	2.46	2.43	2.39	2.35	2.32	2.28	2.25	2.21	2.17	2.14	2.10
65.5	166.4	2.74	2.70	2.67	2.63	2.59	2.56	2.52	2.48	2.45	2.41	2.38	2.34	2.30	2.27	2.23	2.19	2.16
66.0	167.6	2.80	2.76	2.72	2.69	2.65	2.62	2.58	2.54	2.51	2.47	2.43	2.40	2.36	2.32	2.29	2.25	2.21
66.5	168.9	2.86	2.82	2.78	2.75	2.71	2.67	2.64	2.60	2.56	2.53	2.49	2.46	2.42	2.38	2.35	2.31	2.27
67.0	170.2	2.92	2.88	2.84	2.81	2.77	2.73	2.70	2.66	2.62	2.59	2.55	2.52	2.48	2.44	2.41	2.37	2.33
67.5	171.5	2.98	2.94	2.90	2.87	2.83	2.79	2.76	2.72	2.69	2.65	2.61	2.58	2.55	2.50	2.47	2.43	2.39
68.0	172.7	3.03	3.00	2.96	2.89	2.85	2.82	2.78	2.74	2.71	2.67	2.63	2.60	2.56	2.52	2.49	2.45	2.45

## **Department of Justice**

Pt. 79, App. A

88.5	174.0	3.09	2.99	2.95	2.91	2.88	2.84	2.80	2.77	2.73	2.69	2.66	2.62	2.58	2.55	
89.0	175.3	3.06	3.02	3.05	3.01	2.97	2.94	2.90	2.87	2.83	2.79	2.76	2.66	2.62	2.57	
89.5	176.5	3.21	3.18	3.14	3.11	3.07	3.03	2.96	2.92	2.89	2.85	2.81	2.78	2.74	2.70	2.67
90.0	177.8	3.28	3.24	3.20	3.17	3.13	3.10	3.06	2.99	2.95	2.91	2.88	2.84	2.80	2.77	2.73
90.5	179.1	3.34	3.30	3.29	3.23	3.20	3.16	3.12	3.09	3.05	3.01	2.94	2.90	2.87	2.83	2.79
91.0	180.3	3.40	3.36	3.33	3.29	3.25	3.22	3.18	3.14	3.11	3.07	3.04	3.00	2.96	2.93	2.87
91.5	181.6	3.46	3.43	3.39	3.35	3.32	3.28	3.25	3.21	3.17	3.14	3.10	3.06	3.03	2.99	2.92
92.0	182.9	3.53	3.49	3.46	3.42	3.38	3.35	3.31	3.27	3.24	3.20	3.16	3.13	3.10	3.06	3.02
92.5	184.2	3.59	3.56	3.52	3.48	3.45	3.41	3.38	3.34	3.30	3.27	3.23	3.19	3.16	3.12	3.08
93.0	185.4	3.65	3.62	3.58	3.55	3.51	3.47	3.44	3.40	3.36	3.33	3.29	3.25	3.22	3.18	3.14
93.5	186.7	3.72	3.68	3.61	3.58	3.54	3.50	3.47	3.43	3.39	3.36	3.32	3.28	3.25	3.21	3.17
94.0	188.0	3.79	3.71	3.68	3.64	3.61	3.57	3.53	3.50	3.46	3.42	3.39	3.36	3.33	3.30	3.26
94.5	189.2	3.85	3.81	3.78	3.74	3.70	3.67	3.63	3.59	3.56	3.52	3.49	3.45	3.41	3.38	3.34
95.0	190.5	3.92	3.88	3.84	3.81	3.77	3.73	3.70	3.66	3.63	3.59	3.55	3.52	3.48	3.44	3.40
95.5	191.8	3.98	3.95	3.91	3.88	3.84	3.80	3.77	3.73	3.69	3.66	3.62	3.58	3.55	3.51	3.47
96.0	193.0	4.05	4.01	3.98	3.94	3.90	3.87	3.83	3.79	3.76	3.72	3.68	3.65	3.61	3.57	3.54
96.5	194.3	4.12	4.08	4.04	4.01	3.97	3.93	3.90	3.86	3.83	3.79	3.75	3.72	3.68	3.64	3.53
97.0	195.6	4.19	4.15	4.11	4.08	4.04	4.01	3.97	3.93	3.89	3.86	3.82	3.79	3.75	3.71	3.60
97.5	196.9	4.26	4.22	4.18	4.15	4.11	4.07	4.04	3.96	3.93	3.89	3.86	3.82	3.78	3.74	3.71
98.0	198.1	4.32	4.28	4.25	4.21	4.17	4.14	4.10	4.07	4.03	3.99	3.96	3.92	3.88	3.84	3.81
98.5	199.4	4.39	4.35	4.32	4.28	4.25	4.21	4.17	4.14	4.10	4.06	4.03	3.99	3.95	3.92	3.88
99.0	200.7	4.46	4.43	4.39	4.35	4.32	4.28	4.24	4.21	4.17	4.13	4.10	4.06	4.03	3.99	3.92
99.5	201.9	4.53	4.49	4.46	4.42	4.38	4.35	4.31	4.27	4.24	4.20	4.16	4.13	4.09	4.05	3.98
200.0	203.2	4.60	4.56	4.53	4.49	4.45	4.42	4.38	4.35	4.31	4.27	4.24	4.20	4.17	4.13	4.09
200.5	204.5	4.67	4.64	4.60	4.56	4.53	4.49	4.45	4.42	4.38	4.35	4.31	4.27	4.24	4.20	4.16
201.0	205.7	4.74	4.70	4.67	4.63	4.59	4.56	4.52	4.49	4.45	4.41	4.38	4.34	4.30	4.27	4.16
201.5	207.0	4.78	4.74	4.70	4.67	4.63	4.59	4.56	4.52	4.49	4.45	4.41	4.38	4.34	4.30	4.23
202.0	208.3	4.84	4.81	4.78	4.74	4.71	4.67	4.63	4.60	4.56	4.52	4.49	4.45	4.41	4.38	4.30
202.5	209.6	4.93	4.89	4.85	4.82	4.78	4.74	4.71	4.67	4.63	4.60	4.56	4.52	4.49	4.45	4.42

TABLE 3A—AFRICAN AMERICAN MALES FEV-1 LOWER LIMIT OF NORMAL VALUES, HANKINSON, ET AL. (1999)

		Age in years																
Height in inches	Height in centimeters	49	51	53	55	57	59	61	63	65	67	69	71	73	75	77	79	81
61.0	154.9	1.74	1.70	1.65	1.61	1.56	1.51	1.47	1.42	1.37	1.33	1.28	1.24	1.19	1.14	1.10	1.05	1.00
61.5	156.2	1.79	1.74	1.69	1.65	1.60	1.56	1.51	1.46	1.42	1.37	1.32	1.28	1.23	1.19	1.14	1.09	1.05
62.0	157.5	1.83	1.78	1.74	1.69	1.64	1.60	1.55	1.51	1.46	1.41	1.37	1.32	1.28	1.23	1.18	1.14	1.09
62.5	158.8	1.87	1.83	1.78	1.73	1.69	1.64	1.60	1.55	1.50	1.46	1.41	1.36	1.32	1.27	1.23	1.18	1.13
63.0	160.0	1.91	1.87	1.82	1.77	1.73	1.68	1.64	1.59	1.54	1.50	1.45	1.41	1.36	1.31	1.27	1.22	1.17
63.5	161.3	1.96	1.91	1.87	1.82	1.77	1.73	1.68	1.63	1.59	1.54	1.50	1.45	1.40	1.36	1.31	1.26	1.22
64.0	162.6	2.00	1.96	1.91	1.86	1.82	1.77	1.72	1.68	1.63	1.59	1.54	1.45	1.40	1.36	1.31	1.26	1.22
64.5	163.8	2.04	2.00	1.95	1.90	1.86	1.81	1.77	1.72	1.67	1.63	1.58	1.49	1.44	1.40	1.35	1.30	1.26
65.0	165.1	2.09	2.04	2.00	1.95	1.90	1.86	1.81	1.77	1.72	1.67	1.63	1.58	1.53	1.49	1.44	1.40	1.35
65.5	166.4	2.13	2.09	2.04	1.99	1.95	1.90	1.86	1.81	1.76	1.72	1.67	1.62	1.58	1.53	1.49	1.44	1.40
66.0	167.6	2.18	2.13	2.09	2.04	1.99	1.95	1.90	1.85	1.81	1.76	1.72	1.67	1.62	1.58	1.53	1.48	1.44
66.5	168.9	2.22	2.18	2.13	2.08	2.04	1.99	1.95	1.90	1.85	1.81	1.76	1.71	1.67	1.62	1.58	1.53	1.48

TABLE 3A—AFRICAN AMERICAN MALES FEV-1 LOWER LIMIT OF NORMAL VALUES, HANKINSON, ET AL. (1999)—Continued  
 [Reference value equation: 0.3411 + (-0.02369)(age) + (0.00010561)(height<sup>2</sup>)]

Height in inches	Height in centimeters	Age in years																
		49	51	53	55	57	59	61	63	65	67	69	71	73	75	77	79	81
67.0	170.2	2.27	2.22	2.18	2.13	2.08	2.04	1.99	1.95	1.90	1.85	1.81	1.76	1.71	1.67	1.62	1.58	1.53
67.5	171.5	2.32	2.27	2.22	2.18	2.13	2.09	2.04	1.99	1.94	1.89	1.85	1.81	1.76	1.71	1.67	1.62	1.58
68.0	172.7	2.36	2.31	2.27	2.22	2.17	2.13	2.08	2.04	1.99	1.94	1.90	1.85	1.81	1.76	1.71	1.67	1.62
68.5	174.0	2.41	2.36	2.31	2.27	2.22	2.18	2.13	2.08	2.04	1.99	1.95	1.90	1.85	1.81	1.76	1.71	1.67
69.0	175.3	2.46	2.41	2.36	2.31	2.27	2.22	2.18	2.13	2.08	2.04	1.99	1.95	1.90	1.85	1.81	1.76	1.72
69.5	176.5	2.50	2.45	2.41	2.36	2.31	2.27	2.22	2.18	2.13	2.08	2.04	1.99	1.95	1.90	1.85	1.81	1.76
70.0	177.8	2.55	2.50	2.46	2.41	2.36	2.31	2.27	2.23	2.18	2.13	2.09	2.04	1.99	1.95	1.90	1.86	1.81
70.5	179.1	2.60	2.55	2.50	2.46	2.41	2.37	2.32	2.27	2.23	2.18	2.13	2.09	2.04	1.99	1.95	1.90	1.86
71.0	180.3	2.64	2.60	2.55	2.50	2.46	2.41	2.37	2.32	2.27	2.23	2.18	2.13	2.09	2.04	2.00	1.95	1.90
71.5	181.6	2.69	2.65	2.60	2.55	2.51	2.46	2.42	2.37	2.32	2.28	2.23	2.18	2.14	2.09	2.05	2.00	1.95
72.0	182.9	2.74	2.70	2.65	2.60	2.56	2.51	2.47	2.42	2.37	2.33	2.28	2.23	2.19	2.14	2.10	2.05	2.00
72.5	184.2	2.79	2.75	2.70	2.65	2.61	2.56	2.52	2.47	2.42	2.38	2.33	2.29	2.24	2.19	2.15	2.10	2.05
73.0	185.4	2.84	2.79	2.75	2.70	2.66	2.61	2.56	2.52	2.47	2.42	2.38	2.33	2.29	2.24	2.19	2.15	2.10
73.5	186.7	2.89	2.84	2.80	2.75	2.70	2.66	2.61	2.57	2.52	2.48	2.43	2.38	2.34	2.29	2.24	2.20	2.15
74.0	188.0	2.94	2.90	2.85	2.80	2.75	2.70	2.67	2.62	2.57	2.53	2.48	2.43	2.39	2.34	2.30	2.25	2.20
74.5	189.2	2.99	2.94	2.90	2.85	2.81	2.76	2.71	2.67	2.62	2.57	2.53	2.48	2.44	2.39	2.34	2.30	2.25
75.0	190.5	3.04	2.95	2.90	2.86	2.81	2.77	2.72	2.67	2.62	2.57	2.53	2.48	2.44	2.39	2.34	2.30	2.25
75.5	191.8	3.09	3.05	3.00	2.96	2.91	2.86	2.82	2.77	2.73	2.68	2.63	2.58	2.54	2.49	2.45	2.40	2.36
76.0	193.0	3.14	3.10	3.05	3.01	2.96	2.91	2.87	2.82	2.77	2.73	2.68	2.64	2.59	2.54	2.50	2.45	2.40
76.5	194.3	3.20	3.15	3.10	3.06	3.01	2.97	2.92	2.87	2.82	2.78	2.73	2.69	2.64	2.60	2.55	2.50	2.46
77.0	195.6	3.25	3.20	3.16	3.11	3.07	3.02	2.97	2.93	2.88	2.83	2.79	2.74	2.70	2.65	2.60	2.56	2.51
77.5	196.9	3.30	3.26	3.21	3.17	3.12	3.07	3.03	2.98	2.93	2.89	2.84	2.80	2.75	2.70	2.66	2.61	2.57
78.0	198.1	3.35	3.31	3.26	3.22	3.17	3.12	3.08	3.03	3.00	2.94	2.89	2.85	2.80	2.75	2.71	2.66	2.62
78.5	199.4	3.41	3.36	3.32	3.27	3.22	3.18	3.13	3.09	3.04	2.99	2.95	2.90	2.85	2.81	2.76	2.72	2.67
79.0	200.7	3.46	3.42	3.37	3.33	3.28	3.23	3.19	3.14	3.09	3.05	3.00	2.96	2.91	2.86	2.82	2.77	2.72
79.5	202.0	3.51	3.47	3.42	3.38	3.33	3.28	3.24	3.19	3.15	3.10	3.05	3.01	2.96	2.91	2.87	2.82	2.78
80.0	203.2	3.57	3.52	3.48	3.43	3.39	3.34	3.29	3.25	3.20	3.15	3.11	3.06	3.02	2.97	2.92	2.88	2.83
80.5	204.5	3.63	3.58	3.53	3.49	3.44	3.40	3.35	3.30	3.26	3.21	3.16	3.12	3.07	3.03	2.98	2.93	2.89
81.0	205.7	3.68	3.63	3.59	3.54	3.49	3.45	3.40	3.36	3.31	3.26	3.21	3.17	3.12	3.08	3.03	2.99	2.94
81.5	207.0	3.73	3.69	3.64	3.60	3.55	3.50	3.46	3.41	3.37	3.32	3.27	3.23	3.18	3.13	3.09	3.04	3.00
82.0	208.3	3.79	3.75	3.70	3.65	3.61	3.56	3.51	3.47	3.42	3.38	3.33	3.28	3.24	3.19	3.15	3.10	3.05
82.5	209.6	3.85	3.80	3.76	3.71	3.66	3.62	3.57	3.53	3.48	3.43	3.39	3.34	3.30	3.25	3.20	3.16	3.11

TABLE 4—AFRICAN AMERICAN FEMALES FVC LOWER LIMIT OF NORMAL VALUES, HANKINSON, ET AL. (1999)  
 [Reference value equation: -0.3039 + (0.00536)(age) + (-0.000265)(height<sup>2</sup>) + (0.00010916)(height<sup>2</sup>)<sup>2</sup>]

Height in inches	Height in centimeters	Age in years																
		49	51	53	55	57	59	61	63	65	67	69	71	73	75	77	79	81
61.0	154.9	1.94	1.90	1.85	1.81	1.76	1.71	1.66	1.60	1.54	1.48	1.42	1.36	1.29	1.23	1.16	1.08	1.01
61.5	156.2	1.99	1.94	1.90	1.85	1.80	1.75	1.70	1.65	1.59	1.53	1.47	1.40	1.34	1.27	1.20	1.13	1.05

**Department of Justice**

**Pt. 79, App. A**

62.0	1575	1.99	1.94	1.90	1.86	1.80	1.74	1.69	1.63	1.57	1.51	1.45	1.38	1.32	1.25	1.17
62.5	158.8	2.08	2.03	1.99	1.94	1.89	1.84	1.79	1.73	1.68	1.62	1.56	1.49	1.43	1.36	1.29
63.0	160.0	2.12	2.07	2.03	1.98	1.94	1.88	1.83	1.78	1.72	1.66	1.60	1.54	1.47	1.40	1.33
63.5	161.3	2.16	2.12	2.08	2.03	1.98	1.93	1.88	1.82	1.76	1.71	1.64	1.58	1.52	1.45	1.38
64.0	162.6	2.21	2.17	2.12	2.08	2.03	1.98	1.92	1.87	1.81	1.75	1.69	1.63	1.56	1.49	1.42
64.5	163.8	2.25	2.21	2.16	2.12	2.07	2.02	1.97	1.91	1.85	1.79	1.73	1.67	1.60	1.54	1.47
65.0	165.1	2.30	2.26	2.21	2.16	2.12	2.07	2.01	1.96	1.90	1.84	1.78	1.72	1.65	1.58	1.51
65.5	166.4	2.34	2.30	2.26	2.21	2.16	2.11	2.06	2.00	1.95	1.89	1.83	1.76	1.70	1.63	1.56
66.0	167.6	2.39	2.35	2.30	2.26	2.21	2.16	2.10	2.05	1.99	1.93	1.87	1.81	1.74	1.68	1.61
66.5	168.9	2.44	2.39	2.35	2.30	2.26	2.20	2.15	2.10	2.04	1.98	1.92	1.86	1.79	1.72	1.65
67.0	170.2	2.48	2.44	2.40	2.35	2.30	2.25	2.20	2.14	2.09	2.03	1.97	1.90	1.84	1.77	1.70
67.5	171.5	2.53	2.49	2.45	2.40	2.35	2.30	2.25	2.19	2.14	2.08	2.01	1.95	1.89	1.82	1.75
68.0	172.7	2.58	2.54	2.49	2.45	2.40	2.35	2.29	2.24	2.18	2.12	2.06	2.00	1.93	1.86	1.79
68.5	174.0	2.63	2.59	2.54	2.49	2.45	2.39	2.34	2.29	2.23	2.17	2.11	2.05	1.98	1.91	1.84
69.0	175.3	2.68	2.63	2.59	2.54	2.50	2.44	2.39	2.34	2.28	2.22	2.16	2.10	2.03	1.96	1.89
69.5	176.5	2.72	2.64	2.59	2.54	2.49	2.44	2.38	2.33	2.27	2.20	2.14	2.08	2.01	1.94	1.87
70.0	177.8	2.77	2.73	2.69	2.64	2.59	2.54	2.49	2.43	2.38	2.32	2.26	2.19	2.13	2.06	1.99
70.5	179.1	2.82	2.78	2.74	2.69	2.64	2.59	2.54	2.48	2.43	2.37	2.31	2.24	2.18	2.11	2.04
71.0	180.3	2.87	2.83	2.78	2.74	2.69	2.64	2.59	2.53	2.47	2.41	2.35	2.29	2.22	2.16	2.09
71.5	181.6	2.92	2.88	2.84	2.79	2.74	2.69	2.64	2.58	2.52	2.47	2.40	2.34	2.28	2.21	2.14
72.0	182.9	2.97	2.93	2.89	2.84	2.79	2.74	2.69	2.63	2.58	2.52	2.46	2.39	2.33	2.26	2.19
72.5	184.2	3.03	2.98	2.94	2.89	2.84	2.79	2.74	2.69	2.63	2.57	2.51	2.44	2.38	2.31	2.24
73.0	185.4	3.07	3.03	2.99	2.94	2.89	2.84	2.79	2.73	2.68	2.62	2.56	2.49	2.43	2.36	2.29
73.5	186.7	3.13	3.09	3.04	2.99	2.95	2.89	2.84	2.79	2.73	2.67	2.61	2.55	2.48	2.41	2.34
74.0	188.0	3.18	3.14	3.09	3.05	3.00	2.95	2.90	2.84	2.78	2.72	2.66	2.60	2.53	2.47	2.40
74.5	189.2	3.23	3.19	3.14	3.10	3.05	3.00	2.94	2.89	2.83	2.77	2.71	2.65	2.58	2.52	2.45
75.0	190.5	3.28	3.24	3.20	3.15	3.10	3.05	3.00	2.94	2.89	2.83	2.77	2.71	2.65	2.58	2.52
75.5	191.8	3.34	3.30	3.25	3.20	3.16	3.11	3.05	3.00	2.94	2.88	2.82	2.76	2.70	2.64	2.57
76.0	193.0	3.39	3.35	3.30	3.26	3.21	3.16	3.10	3.05	2.99	2.93	2.87	2.81	2.74	2.67	2.60
76.5	194.3	3.44	3.40	3.36	3.31	3.26	3.21	3.16	3.10	3.05	2.99	2.93	2.86	2.80	2.73	2.66
77.0	195.6	3.50	3.46	3.41	3.37	3.32	3.27	3.21	3.16	3.10	3.04	2.98	2.92	2.85	2.78	2.71
77.5	196.9	3.55	3.51	3.47	3.42	3.37	3.32	3.27	3.21	3.16	3.10	3.04	2.97	2.91	2.84	2.77
78.0	198.1	3.61	3.56	3.52	3.47	3.42	3.37	3.32	3.27	3.21	3.15	3.09	3.02	2.96	2.89	2.82
78.5	199.4	3.66	3.62	3.58	3.53	3.48	3.43	3.38	3.32	3.27	3.21	3.14	3.08	3.02	2.95	2.88
79.0	200.7	3.72	3.68	3.63	3.59	3.54	3.49	3.43	3.38	3.32	3.26	3.20	3.14	3.07	3.00	2.93
79.5	201.9	3.77	3.73	3.69	3.64	3.59	3.54	3.49	3.43	3.37	3.32	3.25	3.19	3.12	3.06	2.99
80.0	203.2	3.83	3.79	3.74	3.70	3.65	3.60	3.54	3.49	3.43	3.37	3.31	3.25	3.18	3.11	3.04
80.5	204.5	3.89	3.85	3.80	3.75	3.71	3.65	3.60	3.55	3.50	3.45	3.40	3.37	3.31	3.24	3.17
81.0	205.7	3.94	3.90	3.85	3.81	3.76	3.71	3.66	3.60	3.54	3.48	3.43	3.38	3.32	3.29	3.23
81.5	207.0	4.00	3.96	3.91	3.87	3.82	3.77	3.71	3.66	3.60	3.54	3.48	3.41	3.34	3.27	3.20
82.0	208.3	4.06	3.97	3.93	3.88	3.83	3.77	3.72	3.66	3.60	3.54	3.48	3.41	3.34	3.27	3.20
82.5	209.6	4.12	4.08	4.03	3.98	3.94	3.89	3.83	3.78	3.72	3.66	3.60	3.54	3.47	3.40	3.33

TABLE 4A—AFRICAN AMERICAN FEMALES FEV<sub>1</sub> LOWER LIMIT OF NORMAL VALUES, HANKINSON, ET AL. (1999)  
 [Reference value equation: 0.3433 + (-0.01283)(age) + (-0.0000897)(age<sup>2</sup>) + (0.00008546)(height<sup>2</sup>)]

Height in inches	Height in centimeters	Age in years															
		49	51	53	55	57	59	61	63	65	67	69	71	73	75	77	79
61.0	154.9	1.53	1.49	1.44	1.39	1.35	1.30	1.25	1.20	1.15	1.10	0.99	0.94	0.89	0.83	0.77	0.72
61.5	156.2	1.57	1.52	1.48	1.43	1.38	1.33	1.28	1.24	1.18	1.13	1.08	1.03	0.97	0.92	0.87	0.81
62.0	157.5	1.60	1.56	1.51	1.46	1.42	1.37	1.32	1.27	1.22	1.17	1.12	1.06	1.01	0.96	0.90	0.84
62.5	158.8	1.64	1.59	1.55	1.50	1.45	1.40	1.35	1.31	1.25	1.20	1.15	1.10	1.04	0.99	0.94	0.88
63.0	160.0	1.67	1.62	1.58	1.53	1.48	1.44	1.39	1.34	1.29	1.24	1.18	1.13	1.08	1.02	0.97	0.91
63.5	161.3	1.71	1.66	1.61	1.57	1.52	1.47	1.42	1.37	1.32	1.27	1.22	1.17	1.11	1.06	1.00	0.95
64.0	162.6	1.74	1.70	1.65	1.60	1.56	1.51	1.46	1.41	1.36	1.31	1.26	1.20	1.15	1.09	1.04	0.98
64.5	163.8	1.77	1.73	1.68	1.64	1.59	1.54	1.49	1.44	1.39	1.34	1.29	1.24	1.18	1.13	1.07	1.02
65.0	165.1	1.81	1.77	1.72	1.67	1.63	1.58	1.53	1.48	1.43	1.38	1.33	1.27	1.22	1.16	1.11	1.05
65.5	166.4	1.85	1.80	1.76	1.71	1.66	1.61	1.57	1.52	1.46	1.41	1.36	1.31	1.26	1.20	1.15	1.09
66.0	167.6	1.88	1.84	1.79	1.74	1.70	1.66	1.60	1.55	1.50	1.45	1.40	1.35	1.30	1.24	1.18	1.13
66.5	168.9	1.92	1.87	1.83	1.78	1.73	1.69	1.64	1.59	1.54	1.49	1.43	1.38	1.33	1.27	1.22	1.16
67.0	170.2	1.96	1.91	1.87	1.82	1.77	1.72	1.68	1.63	1.58	1.52	1.47	1.42	1.37	1.31	1.26	1.20
67.5	171.5	2.00	1.95	1.90	1.86	1.81	1.76	1.71	1.66	1.61	1.56	1.46	1.40	1.35	1.29	1.24	1.18
68.0	172.7	2.03	1.99	1.94	1.89	1.85	1.80	1.75	1.70	1.65	1.60	1.55	1.49	1.44	1.38	1.33	1.27
68.5	174.0	2.07	2.02	1.98	1.93	1.88	1.84	1.79	1.74	1.69	1.64	1.58	1.53	1.48	1.42	1.37	1.31
69.0	175.3	2.11	2.06	2.02	1.97	1.92	1.87	1.83	1.78	1.73	1.67	1.62	1.57	1.52	1.46	1.41	1.35
69.5	176.5	2.14	2.10	2.05	2.01	1.96	1.91	1.86	1.81	1.76	1.71	1.66	1.61	1.55	1.50	1.44	1.39
70.0	177.8	2.18	2.14	2.09	2.05	2.00	1.95	1.90	1.85	1.80	1.75	1.70	1.65	1.59	1.54	1.48	1.43
70.5	179.1	2.22	2.18	2.13	2.09	2.04	1.99	1.94	1.89	1.84	1.79	1.74	1.68	1.63	1.58	1.52	1.47
71.0	180.3	2.26	2.21	2.17	2.12	2.07	2.03	1.98	1.93	1.88	1.83	1.77	1.72	1.67	1.61	1.56	1.50
71.5	181.6	2.30	2.26	2.21	2.16	2.12	2.07	2.02	1.97	1.92	1.87	1.81	1.76	1.71	1.65	1.60	1.54
72.0	182.9	2.34	2.30	2.25	2.20	2.16	2.11	2.06	2.01	1.96	1.91	1.86	1.80	1.75	1.69	1.64	1.58
72.5	184.2	2.38	2.34	2.29	2.24	2.20	2.15	2.10	2.05	2.00	1.95	1.90	1.84	1.79	1.74	1.68	1.62
73.0	185.4	2.42	2.37	2.33	2.28	2.23	2.19	2.14	2.09	2.04	1.99	1.93	1.88	1.83	1.77	1.72	1.66
73.5	186.7	2.46	2.42	2.37	2.32	2.28	2.23	2.18	2.13	2.08	2.03	1.98	1.92	1.87	1.81	1.76	1.70
74.0	188.0	2.50	2.46	2.41	2.36	2.32	2.27	2.22	2.17	2.12	2.07	2.02	1.96	1.91	1.86	1.80	1.74
74.5	189.2	2.54	2.50	2.45	2.40	2.36	2.31	2.26	2.21	2.16	2.11	2.06	2.00	1.95	1.89	1.84	1.78
75.0	190.5	2.58	2.54	2.49	2.44	2.39	2.34	2.29	2.24	2.19	2.14	2.09	2.04	1.99	1.94	1.88	1.77
75.5	191.8	2.63	2.58	2.53	2.49	2.44	2.39	2.34	2.29	2.24	2.19	2.14	2.09	2.03	1.98	1.92	1.81
76.0	193.0	2.67	2.62	2.57	2.53	2.48	2.43	2.38	2.33	2.28	2.23	2.18	2.13	2.07	2.02	1.96	1.91
76.5	194.3	2.71	2.66	2.62	2.57	2.52	2.48	2.43	2.38	2.33	2.27	2.22	2.17	2.12	2.06	2.01	1.95
77.0	195.6	2.75	2.71	2.66	2.61	2.57	2.52	2.47	2.42	2.37	2.32	2.27	2.21	2.16	2.11	2.05	1.94
77.5	196.9	2.79	2.75	2.70	2.66	2.61	2.56	2.51	2.46	2.41	2.36	2.31	2.26	2.20	2.15	2.09	1.98
78.0	198.1	2.84	2.79	2.74	2.70	2.65	2.60	2.55	2.50	2.45	2.40	2.35	2.30	2.24	2.19	2.13	2.08
78.5	199.4	2.88	2.83	2.79	2.74	2.69	2.65	2.60	2.55	2.50	2.45	2.39	2.34	2.29	2.23	2.18	2.12
79.0	200.7	2.92	2.88	2.83	2.79	2.74	2.69	2.64	2.59	2.54	2.49	2.44	2.39	2.33	2.28	2.22	2.17
79.5	201.9	2.97	2.92	2.87	2.83	2.78	2.73	2.68	2.63	2.58	2.53	2.48	2.43	2.37	2.32	2.26	2.21
80.0	203.2	3.01	2.97	2.92	2.87	2.83	2.78	2.73	2.68	2.63	2.58	2.52	2.47	2.42	2.36	2.31	2.25
80.5	204.5	3.06	3.01	2.96	2.92	2.87	2.82	2.77	2.72	2.67	2.62	2.57	2.52	2.46	2.41	2.35	2.30
81.0	205.7	3.10	3.05	3.01	2.96	2.91	2.86	2.82	2.77	2.72	2.66	2.61	2.56	2.51	2.45	2.40	2.34
81.5	207.0	3.14	3.10	3.05	3.01	2.96	2.91	2.86	2.81	2.76	2.71	2.66	2.61	2.55	2.50	2.44	2.38
82.0	208.3	3.19	3.14	3.10	3.05	3.01	3.00	2.96	2.91	2.86	2.81	2.76	2.71	2.66	2.61	2.55	2.49

**Department of Justice**

**Pt. 79, App. A**

**TABLE 5—MEXICAN AMERICAN MALES FVC LOWER LIMIT OF NORMAL VALUES, HANKINSON, ET AL. (1999)**  
 [Reference value equation:  $0.2376 + (-0.00891)(\text{age}) + (-0.00182)(\text{age}^2) + (0.0014947)(\text{height}^2)$ ]

Height in inches	Height in centimeters	Age in years																
		49	51	53	55	57	59	61	63	65	67	69	71	73	75	77	79	81
82.5	209.6	3.24	3.19	3.15	3.10	3.05	3.00	2.95	2.90	2.85	2.80	2.75	2.70	2.64	2.59	2.53	2.48	2.42
83.0	210.3	3.26	3.21	3.16	3.11	3.06	3.01	2.96	2.91	2.86	2.81	2.76	2.71	2.66	2.61	2.56	2.51	2.46
83.5	211.0	3.28	3.23	3.18	3.13	3.08	3.03	2.98	2.93	2.88	2.83	2.78	2.73	2.68	2.63	2.58	2.53	2.48
84.0	211.7	3.30	3.25	3.20	3.15	3.10	3.05	3.00	2.95	2.90	2.85	2.80	2.75	2.70	2.65	2.60	2.55	2.50
84.5	212.4	3.32	3.27	3.22	3.17	3.12	3.07	3.02	2.97	2.92	2.87	2.82	2.77	2.72	2.67	2.62	2.57	2.52
85.0	213.1	3.34	3.29	3.24	3.19	3.14	3.09	3.04	2.99	2.94	2.89	2.84	2.79	2.74	2.69	2.64	2.59	2.54
85.5	213.8	3.36	3.31	3.26	3.21	3.16	3.11	3.06	3.01	2.96	2.91	2.86	2.81	2.76	2.71	2.66	2.61	2.56
86.0	214.5	3.38	3.33	3.28	3.23	3.18	3.13	3.08	3.03	2.98	2.93	2.88	2.83	2.78	2.73	2.68	2.63	2.58
86.5	215.2	3.40	3.35	3.30	3.25	3.20	3.15	3.10	3.05	3.00	2.95	2.90	2.85	2.80	2.75	2.70	2.65	2.60
87.0	215.9	3.42	3.37	3.32	3.27	3.22	3.17	3.12	3.07	3.02	2.97	2.92	2.87	2.82	2.77	2.72	2.67	2.62
87.5	216.6	3.44	3.39	3.34	3.29	3.24	3.19	3.14	3.09	3.04	2.99	2.94	2.89	2.84	2.79	2.74	2.69	2.64
88.0	217.3	3.46	3.41	3.36	3.31	3.26	3.21	3.16	3.11	3.06	3.01	2.96	2.91	2.86	2.81	2.76	2.71	2.66
88.5	218.0	3.48	3.43	3.38	3.33	3.28	3.23	3.18	3.13	3.08	3.03	2.98	2.93	2.88	2.83	2.78	2.73	2.68
89.0	218.7	3.50	3.45	3.40	3.35	3.30	3.25	3.20	3.15	3.10	3.05	3.00	2.95	2.90	2.85	2.80	2.75	2.70
89.5	219.4	3.52	3.47	3.42	3.37	3.32	3.27	3.22	3.17	3.12	3.07	3.02	2.97	2.92	2.87	2.82	2.77	2.72
90.0	220.1	3.54	3.49	3.44	3.39	3.34	3.29	3.24	3.19	3.14	3.09	3.04	2.99	2.94	2.89	2.84	2.79	2.74
90.5	220.8	3.56	3.51	3.46	3.41	3.36	3.31	3.26	3.21	3.16	3.11	3.06	3.01	2.96	2.91	2.86	2.81	2.76
91.0	221.5	3.58	3.53	3.48	3.43	3.38	3.33	3.28	3.23	3.18	3.13	3.08	3.03	2.98	2.93	2.88	2.83	2.78
91.5	222.2	3.60	3.55	3.50	3.45	3.40	3.35	3.30	3.25	3.20	3.15	3.10	3.05	3.00	2.95	2.90	2.85	2.80
92.0	222.9	3.62	3.57	3.52	3.47	3.42	3.37	3.32	3.27	3.22	3.17	3.12	3.07	3.02	2.97	2.92	2.87	2.82
92.5	223.6	3.64	3.59	3.54	3.49	3.44	3.39	3.34	3.29	3.24	3.19	3.14	3.09	3.04	2.99	2.94	2.89	2.84
93.0	224.3	3.66	3.61	3.56	3.51	3.46	3.41	3.36	3.31	3.26	3.21	3.16	3.11	3.06	3.01	2.96	2.91	2.86
93.5	225.0	3.68	3.63	3.58	3.53	3.48	3.43	3.38	3.33	3.28	3.23	3.18	3.13	3.08	3.03	2.98	2.93	2.88
94.0	225.7	3.70	3.65	3.60	3.55	3.50	3.45	3.40	3.35	3.30	3.25	3.20	3.15	3.10	3.05	3.00	2.95	2.90
94.5	226.4	3.72	3.67	3.62	3.57	3.52	3.47	3.42	3.37	3.32	3.27	3.22	3.17	3.12	3.07	3.02	2.97	2.92
95.0	227.1	3.74	3.70	3.65	3.60	3.55	3.50	3.45	3.40	3.35	3.30	3.25	3.20	3.15	3.10	3.05	3.00	2.95
95.5	227.8	3.76	3.72	3.67	3.62	3.57	3.52	3.47	3.42	3.37	3.32	3.27	3.22	3.17	3.12	3.07	3.02	2.97
96.0	228.5	3.78	3.74	3.69	3.64	3.59	3.54	3.49	3.44	3.39	3.34	3.29	3.24	3.19	3.14	3.09	3.04	2.99
96.5	229.2	3.80	3.76	3.71	3.66	3.61	3.56	3.51	3.46	3.41	3.36	3.31	3.26	3.21	3.16	3.11	3.06	3.01
97.0	229.9	3.82	3.78	3.73	3.68	3.63	3.58	3.53	3.48	3.43	3.38	3.33	3.28	3.23	3.18	3.13	3.08	3.03
97.5	230.6	3.84	3.80	3.75	3.70	3.65	3.60	3.55	3.50	3.45	3.40	3.35	3.30	3.25	3.20	3.15	3.10	3.05
98.0	231.3	3.86	3.82	3.77	3.72	3.67	3.62	3.57	3.52	3.47	3.42	3.37	3.32	3.27	3.22	3.17	3.12	3.07
98.5	232.0	3.88	3.84	3.79	3.74	3.69	3.64	3.59	3.54	3.49	3.44	3.39	3.34	3.29	3.24	3.19	3.14	3.09
99.0	232.7	3.90	3.86	3.81	3.76	3.71	3.66	3.61	3.56	3.51	3.46	3.41	3.36	3.31	3.26	3.21	3.16	3.11
99.5	233.4	3.92	3.88	3.83	3.78	3.73	3.68	3.63	3.58	3.53	3.48	3.43	3.38	3.33	3.28	3.23	3.18	3.13
100.0	234.1	3.94	3.90	3.85	3.80	3.75	3.70	3.65	3.60	3.55	3.50	3.45	3.40	3.35	3.30	3.25	3.20	3.15
100.5	234.8	3.96	3.92	3.87	3.82	3.77	3.72	3.67	3.62	3.57	3.52	3.47	3.42	3.37	3.32	3.27	3.22	3.17
101.0	235.5	3.98	3.94	3.89	3.84	3.79	3.74	3.69	3.64	3.59	3.54	3.49	3.44	3.39	3.34	3.29	3.24	3.19
101.5	236.2	4.00	3.96	3.91	3.86	3.81	3.76	3.71	3.66	3.61	3.56	3.51	3.46	3.41	3.36	3.31	3.26	3.21
102.0	236.9	4.02	3.98	3.93	3.88	3.83	3.78	3.73	3.68	3.63	3.58	3.53	3.48	3.43	3.38	3.33	3.28	3.23
102.5	237.6	4.04	3.99	3.94	3.89	3.84	3.79	3.74	3.69	3.64	3.59	3.54	3.49	3.44	3.39	3.34	3.29	3.24
103.0	238.3	4.06	4.01	3.96	3.91	3.86	3.81	3.76	3.71	3.66	3.61	3.56	3.51	3.46	3.41	3.36	3.31	3.26
103.5	239.0	4.08	4.04	3.99	3.94	3.89	3.84	3.79	3.74	3.69	3.64	3.59	3.54	3.49	3.44	3.39	3.34	3.29
104.0	239.7	4.10	4.06	3.99	3.94	3.89	3.84	3.79	3.74	3.69	3.64	3.59	3.54	3.49	3.44	3.39	3.34	3.29
104.5	240.4	4.12	4.08	3.99	3.94	3.89	3.84	3.79	3.74	3.69	3.64	3.59	3.54	3.49	3.44	3.39	3.34	3.29
105.0	241.1	4.14	4.10	4.01	3.96	3.91	3.86	3.81	3.76	3.71	3.66	3.61	3.56	3.51	3.46	3.41	3.36	3.31
105.5	241.8	4.16	4.12	4.02	3.97	3.92	3.87	3.82	3.77	3.72	3.67	3.62	3.57	3.52	3.47	3.42	3.37	3.32
106.0	242.5	4.18	4.14	4.04	3.99	3.94	3.89	3.84	3.79	3.74	3.69	3.64	3.59	3.54	3.49	3.44	3.39	3.34
106.5	243.2	4.20	4.16	4.06	3.97	3.92	3.87	3.82	3.77	3.72	3.67	3.62	3.57	3.52	3.47	3.42	3.37	3.32
107.0	243.9	4.22	4.20	4.10	4.01	3.96	3.91	3.86	3.81	3.76	3.71	3.66	3.61	3.56	3.51	3.46	3.41	3.36
107.5	244.6	4.24	4.22	4.12	4.03	3.98	3.93	3.88	3.83	3.78	3.73	3.68	3.63	3.58	3.53	3.48	3.43	3.38
108.0	245.3	4.26	4.24	4.14	4.05	3.99	3.94	3.89	3.84	3.79	3.74	3.69	3.64	3.59	3.54	3.49	3.44	3.39
108.5	246.0	4.28	4.26	4.16	4.06	3.99	3.94	3.89	3.84	3.79	3.74	3.69	3.64	3.59	3.54	3.49	3.44	3.39
109.0	246.7	4.30	4.28	4.18	4.08	3.99	3.94	3.89	3.84	3.79	3.74	3.69	3.64	3.59	3.54	3.49	3.44	3.39
109.5	247.4	4.32	4.30	4.20	4.11	4.02	3.97	3.92	3.87	3.82	3.77	3.72	3.67	3.62	3.57	3.52	3.47	3.42
110.0	248.1	4.34	4.32	4.22	4.13	4.04	3.99	3.94	3.89	3.84	3.79	3.74	3.69	3.64	3.59	3.54	3.49	3.44
110.5	248.8	4.36	4.34	4.24	4.15	4.06	3.99	3.94	3.89	3.84	3.79	3.74	3.69	3.64	3.59	3.54	3.49	3.44
111.0	249.5	4.38	4.36	4.26	4.17	4.08	3.99	3.94	3.89	3.84	3.79	3.74	3.69	3.64	3.59	3.54	3.49	3.44
111.5	250.2	4.40	4.38	4.28	4.19	4.10	4.01	3.96	3.91	3.86	3.81	3.76	3.71	3.66	3.61	3.56	3.51	3.46
112.0	250.9	4.42	4.40															

TABLE 5—MEXICAN AMERICAN MALES FVC LOWER LIMIT OF NORMAL VALUES, HANKINSON, ET AL. (1999)—Continued  
 [Reference value equation:  $0.2376 + (-0.00891)(\text{age}) + (-0.0014947)(\text{height}^2)$ ]

Height in inches	Height in centimeters	Age in years											
		49	51	53	55	57	59	61	63	65	67	69	71
81.0	205.7	5.69	5.63	5.58	5.52	5.46	5.40	5.34	5.28	5.21	5.08	5.01	4.94
81.5	207.0	5.77	5.71	5.66	5.60	5.54	5.48	5.42	5.36	5.29	5.16	5.02	4.87
82.0	208.3	5.85	5.80	5.74	5.68	5.62	5.56	5.50	5.44	5.37	5.31	5.17	5.10
82.5	209.6	5.93	5.88	5.82	5.76	5.70	5.64	5.58	5.52	5.46	5.39	5.25	5.18

TABLE 5A—MEXICAN AMERICAN MALES FEV-1 LOWER LIMIT OF NORMAL VALUES, HANKINSON, ET AL. (1999)  
 [Reference value equation:  $0.6306 + (-0.02929)(\text{age}) + (0.0001267)(\text{height}^2)$ ]

Height in inches	Height in centimeters	Age in years											
		49	51	53	55	57	59	61	63	65	67	69	71
61.0	154.9	2.24	2.18	2.12	2.06	1.94	1.88	1.83	1.77	1.71	1.65	1.59	1.53
61.5	156.2	2.29	2.23	2.17	2.11	2.05	1.99	1.93	1.87	1.81	1.76	1.70	1.64
62.0	157.5	2.34	2.28	2.22	2.16	2.10	2.04	1.98	1.92	1.86	1.81	1.75	1.69
62.5	158.8	2.39	2.33	2.27	2.21	2.16	2.10	2.04	1.98	1.92	1.86	1.81	1.75
63.0	160.0	2.44	2.38	2.32	2.26	2.21	2.15	2.09	2.03	1.97	1.91	1.85	1.80
63.5	161.3	2.49	2.43	2.38	2.32	2.26	2.20	2.14	2.08	2.02	1.96	1.91	1.85
64.0	162.6	2.55	2.49	2.43	2.37	2.31	2.25	2.19	2.14	2.08	2.02	1.96	1.90
64.5	163.8	2.60	2.54	2.48	2.42	2.36	2.30	2.24	2.19	2.13	2.07	2.01	1.95
65.0	165.1	2.65	2.59	2.53	2.47	2.42	2.36	2.30	2.24	2.18	2.12	2.06	2.01
65.5	166.4	2.70	2.64	2.58	2.52	2.47	2.41	2.35	2.29	2.23	2.18	2.12	2.06
66.0	167.6	2.76	2.70	2.64	2.58	2.52	2.46	2.41	2.35	2.29	2.23	2.17	2.11
66.5	168.9	2.81	2.75	2.69	2.64	2.58	2.52	2.46	2.40	2.34	2.28	2.22	2.17
67.0	170.2	2.87	2.81	2.75	2.69	2.63	2.57	2.51	2.46	2.40	2.34	2.30	2.24
67.5	171.5	2.92	2.86	2.81	2.75	2.69	2.63	2.57	2.51	2.45	2.40	2.34	2.28
68.0	172.7	2.97	2.92	2.86	2.80	2.74	2.68	2.62	2.56	2.51	2.45	2.39	2.33
68.5	174.0	3.03	2.97	2.91	2.86	2.80	2.74	2.68	2.62	2.56	2.50	2.45	2.39
69.0	175.3	3.09	3.03	2.97	2.91	2.86	2.80	2.74	2.68	2.62	2.56	2.50	2.45
69.5	176.5	3.14	3.08	3.03	2.97	2.91	2.85	2.79	2.73	2.67	2.62	2.56	2.50
70.0	177.8	3.20	3.14	3.08	3.03	2.97	2.91	2.85	2.79	2.73	2.67	2.62	2.56
70.5	179.1	3.26	3.20	3.14	3.08	3.03	2.97	2.91	2.85	2.79	2.73	2.67	2.62
71.0	180.3	3.31	3.26	3.20	3.14	3.08	3.03	2.97	2.91	2.85	2.79	2.73	2.67
71.5	181.6	3.37	3.32	3.26	3.20	3.14	3.08	3.03	2.97	2.91	2.85	2.79	2.73
72.0	182.9	3.43	3.38	3.32	3.26	3.20	3.14	3.08	3.02	2.97	2.91	2.85	2.79
72.5	184.2	3.49	3.44	3.38	3.32	3.26	3.20	3.14	3.08	3.03	2.97	2.91	2.85
73.0	185.4	3.55	3.49	3.43	3.38	3.32	3.26	3.20	3.14	3.09	3.03	2.97	2.91
73.5	186.7	3.61	3.55	3.50	3.44	3.38	3.32	3.26	3.20	3.14	3.09	3.03	2.97
74.0	188.0	3.67	3.62	3.56	3.50	3.44	3.38	3.32	3.26	3.20	3.15	3.09	3.03
74.5	189.2	3.73	3.67	3.61	3.56	3.50	3.44	3.38	3.32	3.26	3.20	3.15	3.09
75.0	190.5	3.79	3.74	3.68	3.62	3.56	3.50	3.44	3.38	3.32	3.26	3.20	3.15
75.5	191.8	3.86	3.80	3.74	3.68	3.62	3.56	3.50	3.44	3.38	3.32	3.26	3.20

Height in inches	Height in centimeters	49	51	53	55	57	59	61	63	65	67	69	71	73	75	77	79	81
76.0	193.0	3.86	3.80	3.74	3.68	3.62	3.56	3.51	3.45	3.39	3.33	3.27	3.21	3.15	3.10	3.04	2.98	
76.5	194.3	3.98	3.92	3.86	3.80	3.74	3.69	3.63	3.57	3.51	3.45	3.39	3.33	3.28	3.22	3.16	3.10	3.04
77.0	195.6	4.04	3.98	3.75	3.87	3.81	3.76	3.69	3.63	3.57	3.52	3.46	3.40	3.34	3.28	3.22	3.16	3.11
77.5	196.9	4.11	4.05	3.99	3.93	3.87	3.82	3.76	3.70	3.64	3.58	3.52	3.46	3.41	3.35	3.29	3.23	3.17
78.0	198.1	4.17	4.11	4.05	3.99	3.93	3.88	3.82	3.76	3.70	3.64	3.58	3.52	3.47	3.41	3.35	3.29	3.23
78.5	199.4	4.23	4.17	4.12	4.06	4.00	3.94	3.88	3.82	3.77	3.71	3.65	3.59	3.53	3.47	3.41	3.36	3.30
79.0	200.7	4.30	4.24	4.18	4.12	4.07	4.01	3.95	3.89	3.83	3.77	3.71	3.66	3.60	3.54	3.48	3.42	3.36
79.5	201.9	4.36	4.30	4.24	4.18	4.13	4.07	4.01	3.95	3.89	3.83	3.78	3.72	3.66	3.60	3.54	3.48	3.42
80.0	203.2	4.43	4.37	4.31	4.25	4.19	4.13	4.08	4.02	3.96	3.90	3.84	3.78	3.72	3.67	3.61	3.55	3.49
80.5	204.5	4.49	4.44	4.38	4.32	4.26	4.20	4.14	4.08	4.03	3.97	3.91	3.85	3.79	3.73	3.67	3.62	3.56
81.0	205.7	4.56	4.50	4.44	4.38	4.32	4.26	4.21	4.15	4.09	4.03	3.97	3.91	3.85	3.80	3.74	3.68	3.62
81.5	207.0	4.62	4.57	4.51	4.45	4.39	4.33	4.27	4.21	4.16	4.10	4.04	3.98	3.92	3.86	3.81	3.75	3.69
82.0	208.3	4.69	4.63	4.58	4.52	4.46	4.40	4.34	4.28	4.22	4.17	4.11	4.05	3.99	3.93	3.87	3.81	3.76
82.5	209.6	4.76	4.70	4.64	4.59	4.53	4.47	4.41	4.35	4.29	4.24	4.18	4.12	4.06	4.00	3.94	3.88	3.83

TABLE 6—MEXICAN AMERICAN FEMALES FVC LOWER LIMIT OF NORMAL VALUES, HANKINSON, ET AL. (1999)  
 [Reference value equation:  $0.121 + (0.00307/\text{age}) + (-0.000237)(\text{age}^2) + (0.0001570)(\text{height}^2)$ ]

Height in inches	Height in centimeters	Age in years																
		49	51	53	55	57	59	61	63	65	67	69	71	73	75	77	79	81
61.0	154.9	2.48	2.44	2.39	2.35	2.30	2.25	2.20	2.15	2.10	2.04	1.98	1.92	1.86	1.79	1.73	1.66	1.59
61.5	156.2	2.53	2.48	2.44	2.40	2.35	2.30	2.25	2.20	2.14	2.09	2.03	1.97	1.91	1.84	1.78	1.71	1.64
62.0	157.5	2.57	2.53	2.49	2.44	2.40	2.35	2.30	2.24	2.19	2.13	2.07	2.01	1.95	1.89	1.82	1.75	1.68
62.5	158.8	2.62	2.58	2.54	2.49	2.44	2.39	2.34	2.29	2.24	2.18	2.12	2.06	2.00	1.94	1.87	1.80	1.73
63.0	160.0	2.66	2.62	2.58	2.53	2.49	2.44	2.39	2.34	2.28	2.22	2.17	2.11	2.04	1.98	1.91	1.85	1.78
63.5	161.3	2.71	2.67	2.63	2.58	2.54	2.49	2.44	2.38	2.33	2.27	2.21	2.15	2.09	2.03	1.96	1.89	1.82
64.0	162.6	2.76	2.72	2.68	2.63	2.58	2.54	2.49	2.43	2.38	2.32	2.26	2.20	2.14	2.08	2.01	1.94	1.87
64.5	163.8	2.81	2.77	2.72	2.68	2.63	2.58	2.53	2.48	2.42	2.37	2.31	2.25	2.19	2.12	2.06	1.99	1.92
65.0	165.1	2.86	2.81	2.77	2.73	2.68	2.63	2.58	2.53	2.48	2.42	2.36	2.30	2.24	2.17	2.11	2.04	1.97
65.5	166.4	2.90	2.86	2.82	2.78	2.73	2.68	2.63	2.58	2.52	2.47	2.41	2.35	2.28	2.22	2.15	2.09	2.02
66.0	167.6	2.95	2.91	2.87	2.82	2.78	2.73	2.68	2.63	2.57	2.51	2.46	2.40	2.33	2.27	2.20	2.14	2.07
66.5	168.9	3.00	2.96	2.92	2.87	2.83	2.78	2.73	2.67	2.62	2.56	2.51	2.45	2.38	2.32	2.25	2.19	2.12
67.0	170.2	3.05	3.01	2.97	2.92	2.88	2.83	2.78	2.73	2.67	2.61	2.56	2.50	2.43	2.37	2.30	2.24	2.17
67.5	171.5	3.11	3.06	3.02	2.98	2.93	2.88	2.83	2.78	2.72	2.67	2.61	2.55	2.49	2.42	2.36	2.29	2.22
68.0	172.7	3.15	3.11	3.07	3.02	2.98	2.93	2.88	2.82	2.77	2.71	2.66	2.60	2.53	2.47	2.40	2.34	2.27
68.5	174.0	3.21	3.16	3.12	3.08	3.03	2.98	2.93	2.88	2.82	2.77	2.71	2.65	2.59	2.52	2.46	2.39	2.32
69.0	175.3	3.26	3.22	3.17	3.13	3.08	3.03	2.98	2.93	2.87	2.82	2.76	2.70	2.64	2.57	2.51	2.44	2.37
69.5	176.5	3.31	3.27	3.22	3.18	3.13	3.08	3.03	2.98	2.92	2.87	2.81	2.75	2.69	2.62	2.56	2.49	2.42
70.0	177.8	3.36	3.32	3.28	3.23	3.18	3.13	3.08	3.03	2.98	2.92	2.86	2.80	2.74	2.68	2.61	2.54	2.47
70.5	179.1	3.41	3.37	3.33	3.28	3.24	3.19	3.14	3.09	3.03	2.97	2.92	2.86	2.79	2.73	2.66	2.60	2.53
71.0	180.3	3.46	3.42	3.38	3.33	3.29	3.24	3.19	3.13	3.08	3.02	2.97	2.91	2.84	2.78	2.71	2.65	2.58
71.5	181.6	3.52	3.48	3.43	3.39	3.34	3.29	3.24	3.19	3.13	3.08	3.02	2.96	2.90	2.83	2.77	2.70	2.63
72.0	182.9	3.57	3.53	3.49	3.44	3.40	3.35	3.30	3.24	3.19	3.13	3.07	3.01	2.95	2.89	2.82	2.75	2.69
72.5	184.2	3.63	3.59	3.54	3.50	3.45	3.40	3.35	3.30	3.24	3.19	3.13	3.07	3.01	2.94	2.88	2.81	2.74
73.0	185.4	3.68	3.64	3.59	3.55	3.50	3.45	3.40	3.35	3.30	3.24	3.18	3.12	3.06	3.00	2.93	2.86	2.79
73.5	186.7	3.74	3.69	3.65	3.61	3.56	3.51	3.46	3.41	3.35	3.30	3.24	3.18	3.12	3.05	2.99	2.92	2.85
74.0	188.0	3.79	3.75	3.71	3.66	3.62	3.57	3.52	3.46	3.41	3.35	3.30	3.24	3.18	3.12	3.05	3.04	2.97

TABLE 6—MEXICAN AMERICAN FEMALES FVC LOWER LIMIT OF NORMAL VALUES, HANKINSON, ET AL. (1999)—Continued  
[Reference value equation:  $0.121 + (0.00307)(\text{age}) + (-0.0000237)(\text{height}^2) + (0.00011570)(\text{height}^2)$ ]

Height in inches	Height in centimeters	Age in years															
		49	51	53	55	57	59	61	63	65	67	69	71	73	75	77	79
74.5	189.2	3.84	3.80	3.76	3.71	3.67	3.62	3.57	3.52	3.46	3.35	3.29	3.22	3.16	3.09	3.03	2.96
75.0	190.5	3.90	3.86	3.82	3.77	3.72	3.68	3.63	3.58	3.46	3.34	3.28	3.22	3.15	3.08	3.01	3.07
75.5	191.8	3.96	3.92	3.87	3.83	3.78	3.73	3.68	3.63	3.52	3.46	3.34	3.27	3.21	3.14	3.07	3.12
76.0	193.0	4.01	3.97	3.93	3.88	3.84	3.79	3.74	3.68	3.63	3.57	3.45	3.39	3.33	3.26	3.19	3.12
76.5	194.3	4.07	4.03	3.99	3.94	3.89	3.85	3.80	3.75	3.69	3.63	3.57	3.51	3.45	3.39	3.32	3.18
77.0	195.6	4.13	4.09	4.04	4.00	3.95	3.90	3.85	3.80	3.75	3.69	3.63	3.57	3.51	3.44	3.38	3.31
77.5	196.9	4.19	4.15	4.10	4.06	4.01	3.96	3.91	3.86	3.80	3.75	3.69	3.63	3.57	3.50	3.44	3.37
78.0	198.1	4.24	4.20	4.16	4.11	4.07	4.02	3.97	3.91	3.86	3.74	3.68	3.62	3.56	3.49	3.42	3.36
78.5	199.4	4.30	4.26	4.22	4.17	4.13	4.08	4.03	3.97	3.92	3.86	3.80	3.74	3.68	3.62	3.55	3.48
79.0	200.7	4.36	4.32	4.28	4.23	4.19	4.14	4.09	4.03	3.98	3.92	3.86	3.80	3.74	3.68	3.61	3.54
79.5	201.9	4.42	4.38	4.33	4.29	4.24	4.19	4.14	4.09	4.04	3.98	3.92	3.86	3.80	3.73	3.67	3.60
80.0	203.2	4.48	4.44	4.40	4.35	4.30	4.25	4.20	4.15	4.10	4.04	3.98	3.92	3.86	3.80	3.73	3.66
80.5	204.5	4.54	4.50	4.46	4.41	4.36	4.32	4.26	4.21	4.16	4.10	4.04	3.98	3.92	3.86	3.79	3.72
81.0	205.7	4.60	4.56	4.51	4.47	4.42	4.37	4.32	4.27	4.21	4.16	4.10	4.04	3.98	3.91	3.85	3.78
81.5	207.0	4.66	4.62	4.58	4.53	4.48	4.43	4.38	4.33	4.28	4.22	4.16	4.10	4.04	3.98	3.91	3.84
82.0	208.3	4.72	4.68	4.64	4.59	4.55	4.50	4.45	4.39	4.34	4.28	4.22	4.16	4.10	4.04	3.97	3.83
82.5	209.6	4.79	4.74	4.70	4.66	4.61	4.56	4.51	4.46	4.40	4.35	4.29	4.23	4.17	4.10	4.04	3.90

TABLE 6A—MEXICAN AMERICAN FEMALES FEV-1 LOWER LIMIT OF NORMAL VALUES, HANKINSON, ET AL. (1999)  
[Reference value equation:  $0.4529 + (-0.01178)(\text{age}) + (0.000113)(\text{height}^2) + (0.00009890)(\text{height}^2)$ ]

Height in inches	Height in centimeters	Age in years															
		49	51	53	55	57	59	61	63	65	67	69	71	73	75	77	79
61.0	154.9	1.98	1.93	1.88	1.84	1.79	1.74	1.69	1.64	1.58	1.53	1.48	1.42	1.36	1.31	1.25	1.19
61.5	156.2	2.02	1.97	1.92	1.88	1.83	1.78	1.73	1.68	1.62	1.56	1.46	1.40	1.35	1.29	1.23	1.17
62.0	157.5	2.06	2.01	1.96	1.91	1.87	1.82	1.77	1.72	1.66	1.61	1.56	1.50	1.44	1.39	1.33	1.27
62.5	158.8	2.10	2.05	2.01	1.96	1.91	1.86	1.81	1.76	1.70	1.65	1.60	1.54	1.48	1.43	1.37	1.31
63.0	160.0	2.14	2.09	2.04	1.99	1.95	1.90	1.85	1.79	1.74	1.69	1.63	1.58	1.52	1.47	1.41	1.35
63.5	161.3	2.18	2.13	2.08	2.04	1.99	1.94	1.89	1.84	1.78	1.73	1.68	1.62	1.56	1.51	1.45	1.39
64.0	162.6	2.22	2.17	2.13	2.08	2.03	1.98	1.93	1.88	1.82	1.77	1.72	1.66	1.61	1.55	1.49	1.43
64.5	163.8	2.26	2.21	2.16	2.12	2.07	2.02	1.97	1.92	1.86	1.81	1.76	1.70	1.64	1.59	1.53	1.47
65.0	165.1	2.30	2.25	2.21	2.16	2.11	2.06	2.01	1.96	1.91	1.85	1.80	1.74	1.69	1.63	1.57	1.51
65.5	166.4	2.34	2.30	2.25	2.20	2.15	2.10	2.05	2.00	1.95	1.89	1.84	1.78	1.73	1.67	1.61	1.55
66.0	167.6	2.38	2.34	2.29	2.24	2.19	2.14	2.09	2.04	1.99	1.94	1.88	1.83	1.77	1.71	1.66	1.60
66.5	168.9	2.43	2.38	2.33	2.28	2.24	2.19	2.14	2.08	2.03	1.98	1.92	1.87	1.81	1.76	1.70	1.64
67.0	170.2	2.47	2.42	2.38	2.33	2.28	2.23	2.18	2.13	2.07	2.02	1.97	1.91	1.86	1.80	1.74	1.68
67.5	171.5	2.51	2.47	2.42	2.37	2.32	2.27	2.22	2.17	2.12	2.07	2.01	1.96	1.90	1.84	1.78	1.73
68.0	172.7	2.55	2.51	2.46	2.41	2.36	2.31	2.26	2.21	2.16	2.11	2.05	2.00	1.94	1.88	1.83	1.77
68.5	174.0	2.60	2.55	2.51	2.46	2.41	2.36	2.31	2.26	2.20	2.15	2.10	2.04	1.99	1.93	1.87	1.81
69.0	175.3	2.64	2.60	2.55	2.51	2.46	2.41	2.36	2.31	2.26	2.20	2.15	2.10	2.04	1.99	1.93	1.86

**Department of Justice**

**Pt. 79, App. A**

69.5	2.69	2.64	2.59	2.54	2.50	2.45	2.39	2.34	2.29	2.24	2.18	2.13	2.07	2.01	1.96	1.90	1.84	
70.0	177.8	2.73	2.68	2.64	2.59	2.54	2.49	2.44	2.39	2.34	2.28	2.23	2.17	2.12	2.06	2.00	1.94	1.88
70.5	179.1	2.78	2.73	2.68	2.64	2.63	2.58	2.53	2.48	2.42	2.37	2.32	2.27	2.22	2.16	2.11	2.05	1.93
71.0	180.3	2.82	2.77	2.73	2.68	2.64	2.63	2.58	2.53	2.48	2.42	2.37	2.32	2.26	2.21	2.15	2.09	2.03
71.5	181.6	2.87	2.82	2.77	2.72	2.68	2.63	2.58	2.53	2.48	2.42	2.37	2.32	2.26	2.21	2.15	2.09	2.07
72.0	182.9	2.91	2.87	2.82	2.77	2.72	2.67	2.62	2.57	2.52	2.46	2.41	2.36	2.30	2.24	2.18	2.13	2.07
72.5	184.2	2.96	2.91	2.87	2.82	2.77	2.72	2.67	2.62	2.57	2.51	2.46	2.40	2.35	2.29	2.23	2.17	2.11
73.0	185.4	3.00	2.96	2.91	2.86	2.81	2.76	2.71	2.66	2.61	2.56	2.50	2.45	2.39	2.33	2.28	2.22	2.16
73.5	186.7	3.05	3.01	2.96	2.91	2.86	2.81	2.76	2.71	2.66	2.60	2.55	2.49	2.44	2.38	2.32	2.26	2.20
74.0	188.0	3.10	3.05	3.01	2.96	2.91	2.86	2.81	2.76	2.71	2.65	2.60	2.54	2.49	2.43	2.37	2.31	2.25
74.5	189.2	3.14	3.10	3.05	3.00	2.95	2.90	2.85	2.80	2.75	2.70	2.64	2.59	2.53	2.47	2.42	2.36	2.30
75.0	190.5	3.19	3.15	3.10	3.05	3.00	2.95	2.90	2.85	2.80	2.75	2.69	2.64	2.58	2.52	2.46	2.41	2.35
75.5	191.8	3.24	3.20	3.15	3.10	3.05	3.00	2.95	2.90	2.85	2.79	2.74	2.69	2.63	2.57	2.51	2.46	2.40
76.0	193.0	3.29	3.24	3.20	3.15	3.10	3.05	3.00	2.95	2.89	2.84	2.79	2.73	2.67	2.62	2.56	2.50	2.44
76.5	194.3	3.34	3.29	3.24	3.19	3.15	3.10	3.05	3.00	2.94	2.89	2.84	2.78	2.72	2.67	2.61	2.55	2.49
77.0	195.6	3.39	3.34	3.29	3.25	3.20	3.15	3.10	3.05	2.99	2.94	2.89	2.83	2.77	2.72	2.66	2.60	2.54
77.5	196.9	3.44	3.39	3.35	3.30	3.25	3.20	3.15	3.10	3.04	2.99	2.94	2.88	2.83	2.77	2.71	2.65	2.59
78.0	198.1	3.49	3.44	3.40	3.35	3.30	3.25	3.20	3.14	3.09	3.04	3.00	2.93	2.88	2.81	2.76	2.70	2.64
78.5	199.4	3.54	3.49	3.44	3.40	3.35	3.30	3.25	3.19	3.14	3.09	3.03	2.98	2.92	2.87	2.81	2.75	2.69
79.0	200.7	3.59	3.54	3.49	3.45	3.40	3.35	3.30	3.25	3.19	3.14	3.09	3.03	2.97	2.92	2.86	2.80	2.74
79.5	201.9	3.64	3.59	3.54	3.49	3.45	3.40	3.35	3.30	3.24	3.19	3.13	3.08	3.02	2.97	2.91	2.85	2.79
80.0	203.2	3.69	3.64	3.59	3.55	3.50	3.45	3.40	3.35	3.30	3.24	3.19	3.13	3.07	3.02	2.96	2.90	2.84
80.5	204.5	3.74	3.69	3.65	3.60	3.55	3.50	3.45	3.40	3.35	3.30	3.24	3.18	3.13	3.07	3.01	2.95	2.89
81.0	205.7	3.79	3.74	3.70	3.65	3.60	3.55	3.50	3.45	3.39	3.34	3.29	3.23	3.18	3.12	3.06	3.00	2.94
81.5	207.0	3.84	3.80	3.75	3.70	3.65	3.60	3.55	3.50	3.45	3.39	3.34	3.28	3.23	3.17	3.11	3.05	3.00
82.0	208.3	3.90	3.85	3.80	3.75	3.71	3.66	3.61	3.56	3.51	3.45	3.39	3.34	3.28	3.22	3.17	3.11	3.05
82.5	209.6	3.95	3.90	3.86	3.81	3.76	3.71	3.66	3.61	3.56	3.51	3.45	3.39	3.34	3.28	3.22	3.16	3.10

TABLE 7—NAVAJO MALES FVC LOWER LIMIT OF NORMAL VALUES, CRAPO, ET AL. (1988)  
[Reference value equation:  $[-6.2404 + (-0.0264)(\text{age}) + (0.0686)(\text{height})] \times (817)$ ]

Height in inches	Height in centimeters	Age in years															
		49	51	53	55	57	59	61	63	65	67	69	71	73	75	77	79
61.0	154.9	2.53	2.48	2.44	2.40	2.35	2.31	2.27	2.22	2.18	2.14	2.09	2.05	2.01	1.97	1.92	1.88
61.5	156.2	2.60	2.56	2.51	2.47	2.43	2.38	2.34	2.30	2.25	2.21	2.17	2.12	2.08	2.04	2.00	1.95
62.0	157.5	2.67	2.63	2.59	2.54	2.50	2.46	2.41	2.37	2.32	2.28	2.24	2.20	2.15	2.11	2.07	2.02
62.5	158.8	2.74	2.70	2.66	2.62	2.57	2.53	2.49	2.44	2.40	2.36	2.31	2.27	2.23	2.18	2.14	2.10
63.0	160.0	2.81	2.77	2.73	2.68	2.64	2.60	2.55	2.51	2.47	2.42	2.38	2.34	2.29	2.25	2.21	2.17
63.5	161.3	2.88	2.84	2.80	2.76	2.71	2.67	2.63	2.58	2.54	2.50	2.45	2.41	2.37	2.32	2.28	2.24
64.0	162.6	2.96	2.91	2.87	2.83	2.79	2.74	2.70	2.66	2.61	2.57	2.53	2.48	2.44	2.40	2.35	2.31
64.5	163.8	3.03	2.98	2.94	2.89	2.85	2.81	2.77	2.72	2.68	2.64	2.59	2.55	2.51	2.46	2.42	2.38
65.0	165.1	3.10	3.05	3.01	2.97	2.93	2.88	2.84	2.80	2.75	2.71	2.67	2.62	2.58	2.54	2.49	2.45
65.5	166.4	3.17	3.13	3.08	3.04	3.00	2.95	2.91	2.87	2.82	2.78	2.74	2.69	2.65	2.61	2.57	2.52
66.0	167.6	3.24	3.20	3.15	3.11	3.07	3.02	2.98	2.94	2.90	2.85	2.81	2.77	2.72	2.68	2.64	2.59
66.5	168.9	3.31	3.27	3.23	3.18	3.14	3.10	3.05	3.01	2.97	2.92	2.88	2.84	2.79	2.75	2.71	2.66
67.0	170.2	3.38	3.34	3.30	3.25	3.21	3.17	3.12	3.08	3.04	3.00	2.95	2.91	2.87	2.82	2.78	2.74
67.5	171.5	3.46	3.41	3.37	3.33	3.28	3.24	3.20	3.15	3.11	3.07	3.03	2.98	2.94	2.90	2.85	2.81

TABLE 7—NAVAJO MALES FVC LOWER LIMIT OF NORMAL VALUES, CRAPO, ET AL. (1988)—Continued  
 [Reference value equation:  $[-6.2404 + (-0.0264)(\text{age}) + (0.0686)(\text{height})] \times (817)$ ]

Height in inches	Height in centimeters	Age in years															
		49	51	53	55	57	59	61	63	65	67	69	71	73	75	77	79
68.0	172.7	3.52	3.48	3.44	3.39	3.35	3.31	3.27	3.22	3.18	3.14	3.09	3.01	2.96	2.92	2.88	2.83
68.5	174.0	3.60	3.55	3.51	3.47	3.42	3.38	3.34	3.29	3.25	3.21	3.17	3.12	3.04	2.99	2.95	2.91
69.0	175.3	3.67	3.63	3.58	3.54	3.50	3.45	3.41	3.37	3.32	3.28	3.24	3.20	3.15	3.11	3.07	3.02
69.5	176.5	3.74	3.69	3.65	3.61	3.56	3.52	3.48	3.43	3.39	3.35	3.31	3.26	3.22	3.18	3.13	3.09
70.0	177.8	3.81	3.77	3.72	3.68	3.64	3.60	3.55	3.51	3.46	3.42	3.38	3.34	3.30	3.25	3.21	3.16
70.5	179.1	3.88	3.84	3.80	3.75	3.71	3.67	3.62	3.58	3.54	3.49	3.45	3.41	3.36	3.32	3.28	3.19
71.0	180.3	3.95	3.91	3.86	3.82	3.78	3.73	3.69	3.65	3.60	3.56	3.52	3.48	3.43	3.39	3.35	3.30
71.5	181.6	4.02	3.98	3.94	3.89	3.85	3.81	3.76	3.72	3.68	3.63	3.59	3.55	3.51	3.46	3.42	3.38
72.0	182.9	4.10	4.05	4.01	3.97	3.92	3.88	3.84	3.79	3.75	3.71	3.66	3.62	3.58	3.53	3.49	3.45
72.5	184.2	4.17	4.13	4.08	4.04	4.00	3.95	3.91	3.87	3.82	3.78	3.74	3.69	3.65	3.61	3.56	3.52
73.0	185.4	4.24	4.19	4.15	4.11	4.06	4.02	3.98	3.93	3.89	3.85	3.80	3.76	3.72	3.67	3.63	3.59
73.5	186.7	4.31	4.27	4.22	4.18	4.14	4.09	4.05	4.01	3.96	3.92	3.88	3.83	3.79	3.75	3.70	3.66
74.0	188.0	4.38	4.34	4.30	4.25	4.21	4.17	4.12	4.08	4.04	3.99	3.95	3.91	3.86	3.82	3.78	3.73
74.5	189.2	4.45	4.41	4.36	4.32	4.28	4.23	4.19	4.15	4.10	4.06	4.02	3.97	3.93	3.89	3.84	3.80
75.0	190.5	4.52	4.48	4.44	4.39	4.35	4.31	4.26	4.22	4.18	4.13	4.09	4.05	4.00	3.96	3.92	3.87
75.5	191.8	4.59	4.55	4.51	4.46	4.42	4.38	4.34	4.29	4.25	4.21	4.16	4.12	4.08	4.03	3.99	3.95
76.0	193.0	4.66	4.62	4.58	4.53	4.49	4.45	4.40	4.36	4.32	4.27	4.23	4.19	4.14	4.10	4.06	4.01
76.5	194.3	4.73	4.69	4.65	4.61	4.56	4.52	4.48	4.43	4.39	4.35	4.30	4.26	4.22	4.17	4.13	4.09
77.0	195.6	4.81	4.76	4.72	4.68	4.63	4.59	4.55	4.51	4.46	4.42	4.38	4.33	4.29	4.25	4.20	4.16
77.5	196.9	4.88	4.84	4.79	4.75	4.71	4.66	4.62	4.58	4.54	4.49	4.45	4.41	4.36	4.32	4.28	4.19
78.0	198.1	4.95	4.90	4.86	4.82	4.77	4.73	4.69	4.65	4.60	4.56	4.52	4.47	4.43	4.39	4.34	4.30
78.5	199.4	5.02	4.98	4.93	4.89	4.85	4.80	4.76	4.72	4.68	4.63	4.59	4.55	4.50	4.46	4.42	4.37
79.0	200.7	5.09	5.05	5.01	4.96	4.92	4.88	4.83	4.79	4.75	4.70	4.66	4.62	4.58	4.53	4.49	4.40
79.5	202.0	5.16	5.12	5.07	5.03	4.99	4.94	4.90	4.86	4.82	4.77	4.73	4.69	4.64	4.60	4.56	4.51
80.0	203.2	5.23	5.19	5.15	5.10	5.06	5.02	4.97	4.93	4.89	4.85	4.80	4.76	4.72	4.67	4.63	4.59
80.5	204.5	5.31	5.26	5.18	5.13	5.09	5.05	5.00	4.96	4.92	4.87	4.83	4.79	4.75	4.70	4.66	4.62
81.0	205.7	5.37	5.33	5.29	5.24	5.20	5.16	5.11	5.07	5.03	4.99	4.94	4.90	4.86	4.81	4.77	4.73
81.5	207.0	5.45	5.40	5.36	5.32	5.27	5.23	5.19	5.14	5.10	5.06	5.01	4.97	4.93	4.89	4.84	4.76
82.0	208.3	5.52	5.48	5.43	5.39	5.35	5.30	5.26	5.22	5.17	5.13	5.09	5.04	5.00	4.96	4.92	4.87
82.5	209.6	5.59	5.55	5.51	5.46	5.42	5.38	5.33	5.29	5.25	5.20	5.16	5.12	5.07	5.03	4.99	4.94

TABLE 7A—NAVAJO MALES FEV-1 LOWER LIMIT OF NORMAL VALUES, CRAPO, ET AL. (1988)  
 [Reference value equation:  $[-4.7504 + (-0.0283)(\text{age}) + (0.0558)(\text{height})] \times (812)$ ]

Height in inches	Height in centimeters	Age in years															
		49	51	53	55	57	59	61	63	65	67	69	71	73	75	77	79
61.0	154.9	2.04	1.99	1.94	1.90	1.85	1.81	1.76	1.71	1.67	1.62	1.58	1.53	1.48	1.44	1.39	1.35
61.5	156.2	2.09	2.05	2.00	1.96	1.91	1.86	1.82	1.77	1.73	1.68	1.63	1.59	1.54	1.49	1.40	1.36
62.0	157.5	2.11	2.06	2.02	1.97	1.92	1.88	1.83	1.79	1.74	1.69	1.65	1.60	1.56	1.51	1.46	1.42
62.5	158.8	2.21	2.17	2.12	2.07	2.03	1.98	1.94	1.89	1.84	1.80	1.75	1.71	1.66	1.61	1.57	1.52

**Department of Justice**

**Pt. 79, App. A**

Height in inches	Height in centimeters	49	51	53	55	57	59	61	63	65	67	69	71	73	75	77	79	81
63.0	160.0	2.27	2.22	2.17	2.13	2.08	2.04	1.99	1.94	1.90	1.85	1.81	1.76	1.71	1.67	1.62	1.58	
63.5	161.3	2.33	2.28	2.23	2.19	2.14	2.10	2.05	2.00	1.96	1.91	1.87	1.82	1.77	1.73	1.68	1.64	1.59
64.0	162.6	2.38	2.34	2.29	2.25	2.20	2.15	2.11	2.06	1.97	1.92	1.88	1.83	1.79	1.74	1.69	1.65	1.65
64.5	163.8	2.44	2.39	2.35	2.30	2.25	2.21	2.16	2.12	2.07	2.02	1.98	1.93	1.89	1.84	1.79	1.75	1.70
65.0	165.1	2.50	2.45	2.41	2.36	2.31	2.27	2.22	2.18	2.13	2.08	2.04	1.99	1.95	1.90	1.85	1.81	1.76
65.5	166.4	2.55	2.51	2.46	2.42	2.37	2.33	2.28	2.23	2.19	2.14	2.10	2.05	2.00	1.96	1.91	1.87	1.82
66.0	167.6	2.61	2.57	2.52	2.47	2.43	2.38	2.34	2.29	2.24	2.20	2.15	2.11	2.06	2.01	1.97	1.92	1.88
66.5	168.9	2.67	2.62	2.58	2.53	2.49	2.44	2.39	2.35	2.30	2.26	2.21	2.16	2.12	2.07	2.03	1.98	1.93
67.0	170.2	2.73	2.68	2.64	2.70	2.65	2.60	2.56	2.51	2.41	2.36	2.31	2.27	2.22	2.18	2.13	2.08	2.04
67.5	171.5	2.79	2.74	2.70	2.65	2.60	2.56	2.51	2.47	2.42	2.37	2.33	2.28	2.24	2.19	2.14	2.10	2.05
68.0	172.7	2.84	2.80	2.75	2.70	2.66	2.61	2.57	2.52	2.47	2.43	2.38	2.34	2.29	2.24	2.20	2.15	2.11
68.5	174.0	2.90	2.85	2.81	2.76	2.72	2.67	2.62	2.58	2.53	2.49	2.44	2.39	2.35	2.30	2.26	2.21	2.17
69.0	175.3	2.96	2.91	2.87	2.82	2.78	2.73	2.68	2.64	2.59	2.55	2.50	2.45	2.41	2.36	2.32	2.27	2.22
69.5	176.5	3.01	2.97	2.92	2.88	2.83	2.78	2.74	2.69	2.65	2.60	2.55	2.51	2.46	2.42	2.37	2.32	2.28
70.0	177.8	3.07	3.03	2.98	2.93	2.89	2.84	2.80	2.75	2.71	2.66	2.61	2.57	2.52	2.48	2.43	2.38	2.34
70.5	179.1	3.13	3.09	3.04	2.99	2.95	2.90	2.86	2.81	2.76	2.72	2.67	2.63	2.58	2.53	2.49	2.44	2.40
71.0	180.3	3.19	3.14	3.09	3.05	3.00	2.96	2.91	2.86	2.82	2.77	2.73	2.68	2.63	2.59	2.54	2.50	2.45
71.5	181.6	3.24	3.20	3.15	3.11	3.06	3.02	2.97	2.92	2.88	2.83	2.79	2.74	2.69	2.65	2.61	2.56	2.51
72.0	182.9	3.30	3.26	3.21	3.17	3.12	3.07	3.03	2.98	2.94	2.89	2.84	2.80	2.75	2.71	2.66	2.61	2.57
72.5	184.2	3.36	3.32	3.27	3.22	3.18	3.13	3.09	3.04	3.00	2.95	2.90	2.86	2.81	2.77	2.72	2.67	2.63
73.0	185.4	3.42	3.37	3.33	3.33	3.28	3.23	3.19	3.14	3.10	3.05	3.00	2.96	2.91	2.87	2.82	2.77	2.73
73.5	186.7	3.48	3.43	3.38	3.34	3.29	3.25	3.20	3.15	3.11	3.06	3.02	2.97	2.92	2.88	2.83	2.79	2.74
74.0	188.0	3.53	3.49	3.44	3.40	3.35	3.31	3.26	3.21	3.17	3.12	3.08	3.03	2.98	2.94	2.89	2.85	2.80
74.5	189.2	3.59	3.54	3.50	3.45	3.41	3.36	3.31	3.27	3.22	3.18	3.13	3.08	3.04	2.99	2.95	2.90	2.85
75.0	190.5	3.65	3.60	3.56	3.51	3.46	3.42	3.37	3.33	3.28	3.23	3.19	3.14	3.10	3.05	3.00	2.96	2.91
75.5	191.8	3.71	3.66	3.62	3.57	3.52	3.48	3.43	3.39	3.34	3.29	3.25	3.20	3.16	3.11	3.06	3.02	2.97
76.0	193.0	3.76	3.72	3.67	3.62	3.58	3.53	3.49	3.44	3.39	3.35	3.30	3.26	3.21	3.16	3.12	3.07	3.03
76.5	194.3	3.82	3.77	3.73	3.68	3.64	3.59	3.54	3.50	3.45	3.41	3.36	3.31	3.27	3.22	3.18	3.13	3.08
77.0	195.6	3.88	3.83	3.79	3.74	3.70	3.65	3.60	3.56	3.51	3.47	3.42	3.37	3.33	3.28	3.24	3.19	3.14
77.5	196.9	3.94	3.89	3.85	3.80	3.75	3.71	3.66	3.62	3.57	3.52	3.48	3.43	3.39	3.34	3.29	3.25	3.20
78.0	198.1	3.99	3.95	3.90	3.85	3.81	3.76	3.72	3.67	3.62	3.58	3.53	3.49	3.44	3.40	3.35	3.30	3.26
78.5	199.4	4.05	4.01	3.96	3.91	3.87	3.82	3.78	3.73	3.68	3.64	3.59	3.55	3.50	3.45	3.41	3.36	3.32
79.0	200.7	4.11	4.06	4.02	3.97	3.93	3.88	3.83	3.79	3.74	3.69	3.65	3.60	3.56	3.51	3.47	3.42	3.37
79.5	201.9	4.16	4.12	4.07	4.03	3.98	3.93	3.89	3.84	3.80	3.75	3.71	3.66	3.61	3.57	3.52	3.48	3.43
80.0	203.2	4.22	4.18	4.13	4.09	4.04	3.99	3.95	3.90	3.86	3.81	3.76	3.72	3.67	3.63	3.58	3.53	3.49
80.5	204.5	4.28	4.24	4.19	4.14	4.10	4.05	4.01	3.96	3.91	3.87	3.82	3.78	3.73	3.69	3.64	3.59	3.55
81.0	205.7	4.34	4.29	4.24	4.20	4.15	4.11	4.06	4.02	3.97	3.92	3.88	3.83	3.79	3.74	3.69	3.65	3.60
81.5	207.0	4.40	4.35	4.30	4.26	4.21	4.17	4.12	4.07	4.03	3.98	3.94	3.89	3.84	3.80	3.75	3.71	3.66
82.0	208.3	4.45	4.41	4.36	4.32	4.27	4.22	4.18	4.13	4.08	4.04	4.00	3.95	3.90	3.86	3.81	3.77	3.72
82.5	209.6	4.51	4.47	4.42	4.38	4.33	4.28	4.24	4.19	4.15	4.10	4.05	4.01	3.96	3.92	3.87	3.82	3.78

TABLE 8—NAVAJO FEMALES FVC LOWER LIMIT OF NORMAL VALUES, CRAPO, ET AL. (1988)  
 [Reference value equation:  $[-2.9769 + (-0.0207)(\text{age}) + (0.0448)(\text{height})] \times (0.815)$ ]

Age in years																		
Height in inches	Height in centimeters	49	51	53	55	57	59	61	63	65	67	69	71	73	75	77	79	81
61.0	154.9	2.40	2.37	2.34	2.30	2.27	2.23	2.20	2.17	2.13	2.10	2.07	2.03	2.00	1.96	1.93	1.90	1.86

TABLE 8—NAVAJO FEMALES FVC LOWER LIMIT OF NORMAL VALUES, CRAPO, ET AL. (1988)—Continued  
 [Reference value equation:  $-2.9769 + (0.0448)(\text{height}) \times (0.815)$ ]

Height in inches	Height in centimeters	Age in years																
		49	51	53	55	57	59	61	63	65	67	69	71	73	75	77	79	81
61.5	156.2	2.45	2.42	2.38	2.35	2.32	2.28	2.25	2.21	2.18	2.15	2.11	2.08	2.05	1.98	1.94	1.91	
62.0	157.5	2.50	2.46	2.43	2.40	2.36	2.33	2.30	2.26	2.23	2.19	2.16	2.13	2.06	2.03	1.99	1.96	
62.5	158.8	2.55	2.51	2.48	2.44	2.41	2.38	2.34	2.31	2.28	2.24	2.21	2.17	2.14	2.11	2.07	2.04	2.01
63.0	160.0	2.59	2.56	2.52	2.49	2.45	2.42	2.39	2.35	2.32	2.29	2.25	2.22	2.18	2.15	2.12	2.08	2.05
63.5	161.3	2.64	2.60	2.57	2.54	2.50	2.47	2.43	2.40	2.37	2.33	2.30	2.27	2.23	2.20	2.17	2.13	2.10
64.0	162.6	2.68	2.65	2.62	2.58	2.55	2.52	2.48	2.45	2.41	2.38	2.35	2.31	2.28	2.25	2.21	2.18	2.14
64.5	163.8	2.73	2.69	2.66	2.63	2.59	2.56	2.53	2.49	2.46	2.42	2.39	2.36	2.32	2.29	2.26	2.22	2.19
65.0	165.1	2.78	2.74	2.71	2.67	2.64	2.61	2.57	2.54	2.51	2.47	2.40	2.37	2.34	2.31	2.27	2.24	2.24
65.5	166.4	2.82	2.79	2.75	2.72	2.69	2.66	2.62	2.59	2.55	2.52	2.48	2.45	2.42	2.38	2.35	2.32	2.28
66.0	167.6	2.87	2.83	2.80	2.77	2.73	2.70	2.67	2.63	2.60	2.56	2.53	2.50	2.46	2.43	2.40	2.36	2.33
66.5	168.9	2.91	2.88	2.85	2.81	2.78	2.75	2.71	2.68	2.64	2.61	2.58	2.54	2.51	2.48	2.44	2.41	2.37
67.0	170.2	2.96	2.93	2.89	2.86	2.83	2.79	2.76	2.73	2.69	2.66	2.62	2.59	2.56	2.52	2.49	2.46	2.42
67.5	171.5	3.01	2.98	2.94	2.91	2.87	2.84	2.81	2.77	2.74	2.71	2.67	2.64	2.60	2.57	2.54	2.50	2.47
68.0	172.7	3.05	3.02	2.99	2.95	2.92	2.88	2.85	2.82	2.78	2.75	2.72	2.68	2.65	2.61	2.58	2.55	2.51
68.5	174.0	3.10	3.07	3.03	3.00	2.97	2.93	2.90	2.86	2.83	2.80	2.76	2.73	2.70	2.66	2.63	2.59	2.56
69.0	175.3	3.15	3.11	3.08	3.05	3.01	2.98	2.95	2.91	2.88	2.84	2.81	2.78	2.74	2.71	2.68	2.64	2.61
69.5	176.5	3.19	3.16	3.12	3.09	3.06	3.02	2.99	2.96	2.92	2.89	2.85	2.82	2.79	2.75	2.72	2.69	2.65
70.0	177.8	3.24	3.21	3.17	3.14	3.10	3.07	3.04	3.00	2.97	2.94	2.90	2.87	2.83	2.80	2.77	2.73	2.70
70.5	179.1	3.29	3.25	3.22	3.19	3.15	3.12	3.08	3.05	3.02	2.98	2.95	2.92	2.89	2.85	2.81	2.78	2.75
71.0	180.3	3.33	3.30	3.26	3.23	3.20	3.16	3.13	3.10	3.06	3.03	2.99	2.96	2.93	2.89	2.86	2.82	2.79
71.5	181.6	3.38	3.34	3.31	3.28	3.24	3.21	3.18	3.14	3.11	3.07	3.04	3.01	2.97	2.94	2.91	2.87	2.84
72.0	182.9	3.43	3.39	3.36	3.32	3.29	3.26	3.22	3.19	3.16	3.12	3.09	3.05	3.02	2.99	2.95	2.92	2.89
72.5	184.2	3.47	3.44	3.41	3.37	3.34	3.30	3.27	3.24	3.20	3.17	3.14	3.10	3.07	3.03	2.99	2.97	2.93
73.0	185.4	3.52	3.48	3.45	3.42	3.38	3.35	3.31	3.28	3.25	3.22	3.18	3.15	3.11	3.08	3.04	3.01	2.98
73.5	186.7	3.56	3.53	3.50	3.46	3.43	3.40	3.36	3.33	3.29	3.26	3.23	3.19	3.16	3.13	3.09	3.06	3.02
74.0	188.0	3.61	3.58	3.54	3.51	3.48	3.44	3.41	3.38	3.34	3.31	3.27	3.24	3.21	3.17	3.14	3.11	3.07
74.5	189.2	3.66	3.62	3.59	3.55	3.52	3.49	3.45	3.42	3.39	3.35	3.32	3.28	3.25	3.22	3.18	3.15	3.12
75.0	190.5	3.70	3.67	3.64	3.60	3.57	3.53	3.50	3.47	3.43	3.40	3.37	3.33	3.30	3.26	3.23	3.20	3.16
75.5	191.8	3.75	3.72	3.68	3.65	3.62	3.58	3.55	3.51	3.48	3.45	3.41	3.38	3.35	3.31	3.28	3.24	3.21
76.0	193.0	3.79	3.76	3.73	3.69	3.66	3.63	3.59	3.56	3.52	3.49	3.46	3.42	3.39	3.36	3.32	3.29	3.25
76.5	194.3	3.84	3.81	3.77	3.74	3.71	3.67	3.64	3.61	3.57	3.54	3.50	3.47	3.44	3.40	3.37	3.34	3.30
77.0	195.6	3.88	3.86	3.82	3.79	3.75	3.72	3.69	3.65	3.62	3.59	3.55	3.52	3.48	3.45	3.42	3.38	3.35
77.5	196.9	3.94	3.90	3.87	3.84	3.80	3.77	3.73	3.70	3.67	3.63	3.57	3.53	3.50	3.46	3.43	3.40	3.37
78.0	198.1	3.98	3.95	3.91	3.88	3.85	3.81	3.78	3.74	3.71	3.68	3.64	3.61	3.58	3.55	3.47	3.44	3.41
78.5	199.4	4.03	3.99	3.96	3.93	3.89	3.86	3.83	3.79	3.76	3.72	3.69	3.66	3.62	3.59	3.56	3.52	3.49
79.0	200.7	4.08	4.04	4.01	3.97	3.94	3.91	3.87	3.84	3.81	3.77	3.74	3.70	3.67	3.64	3.60	3.57	3.54
79.5	201.9	4.12	4.09	4.05	4.02	3.98	3.95	3.92	3.88	3.85	3.82	3.78	3.75	3.71	3.68	3.65	3.61	3.58
80.0	203.2	4.17	4.13	4.10	4.07	4.03	4.00	3.96	3.93	3.89	3.86	3.83	3.80	3.76	3.73	3.69	3.66	3.63
80.5	204.5	4.21	4.18	4.15	4.11	4.08	4.05	4.02	3.98	3.94	3.91	3.88	3.84	3.81	3.78	3.74	3.71	3.67
81.0	205.7	4.26	4.22	4.19	4.16	4.12	4.09	4.06	4.02	3.99	3.95	3.92	3.89	3.85	3.82	3.79	3.75	3.72
81.5	207.0	4.31	4.27	4.24	4.20	4.17	4.14	4.10	4.07	4.04	4.01	3.97	3.93	3.90	3.87	3.83	3.80	3.77
82.0	208.3	4.35	4.32	4.29	4.25	4.22	4.18	4.15	4.12	4.08	4.05	4.02	3.98	3.95	3.91	3.88	3.85	3.81
82.5	209.6	4.40	4.37	4.33	4.30	4.27	4.23	4.20	4.16	4.13	4.10	4.06	4.03	4.00	3.96	3.93	3.89	3.86

**Department of Justice**

**Pt. 79, App. A**

TABLE 8A—NAVAJO FEMALES FEV-1 LOWER LIMIT OF NORMAL VALUES, CRAPO, ET AL. (1988)  
 [Reference value equation:  $-1.8110 + (-0.0233)(\text{age}) + (0.0347)(\text{height}) \times (0.808)$ ]

Height in inches	Height in centimeters	Age in years																
		49	51	53	55	57	59	61	63	65	67	69	71	73	75	77	79	81
61.0	154.9	1.96	1.92	1.88	1.84	1.81	1.77	1.73	1.69	1.66	1.62	1.58	1.54	1.51	1.47	1.43	1.39	1.35
61.5	156.2	1.99	1.96	1.92	1.88	1.84	1.80	1.77	1.73	1.69	1.65	1.62	1.58	1.54	1.50	1.47	1.43	1.39
62.0	157.5	2.03	1.99	1.95	1.92	1.88	1.84	1.80	1.77	1.73	1.69	1.65	1.61	1.58	1.54	1.50	1.47	1.43
62.5	158.8	2.07	2.03	1.99	1.95	1.92	1.88	1.84	1.80	1.77	1.73	1.69	1.65	1.61	1.58	1.54	1.50	1.46
63.0	160.0	2.10	2.06	2.02	1.99	1.95	1.91	1.87	1.84	1.80	1.76	1.72	1.68	1.65	1.61	1.57	1.53	1.49
63.5	161.3	2.14	2.10	2.06	2.02	1.99	1.95	1.91	1.87	1.83	1.80	1.76	1.72	1.68	1.65	1.61	1.57	1.53
64.0	162.6	2.17	2.14	2.10	2.06	2.02	1.98	1.95	1.91	1.87	1.83	1.79	1.75	1.72	1.68	1.64	1.60	1.56
64.5	163.8	2.21	2.17	2.13	2.09	2.06	2.02	1.98	1.94	1.90	1.87	1.83	1.79	1.75	1.72	1.68	1.64	1.60
65.0	165.1	2.24	2.21	2.17	2.13	2.09	2.05	2.02	1.98	1.94	1.90	1.86	1.83	1.79	1.75	1.71	1.68	1.64
65.5	166.4	2.28	2.24	2.20	2.17	2.13	2.09	2.05	2.02	1.98	1.94	1.90	1.86	1.83	1.79	1.75	1.71	1.68
66.0	167.6	2.31	2.28	2.24	2.20	2.16	2.12	2.09	2.05	2.01	1.98	1.94	1.90	1.86	1.82	1.79	1.75	1.71
66.5	168.9	2.35	2.31	2.27	2.24	2.20	2.16	2.12	2.08	2.05	2.01	1.97	1.93	1.90	1.86	1.82	1.78	1.74
67.0	170.2	2.39	2.35	2.31	2.27	2.24	2.20	2.16	2.12	2.08	2.05	2.01	1.97	1.93	1.90	1.86	1.82	1.78
67.5	171.5	2.42	2.39	2.35	2.31	2.27	2.23	2.19	2.16	2.12	2.08	2.04	2.00	1.97	1.93	1.89	1.85	1.81
68.0	172.7	2.46	2.42	2.38	2.34	2.31	2.27	2.23	2.19	2.16	2.12	2.08	2.04	2.00	1.97	1.93	1.89	1.85
68.5	174.0	2.49	2.46	2.42	2.38	2.34	2.30	2.27	2.23	2.19	2.15	2.12	2.08	2.04	2.00	1.97	1.93	1.89
69.0	175.3	2.53	2.50	2.47	2.42	2.38	2.34	2.30	2.27	2.23	2.19	2.15	2.12	2.08	2.04	2.00	1.96	1.93
69.5	176.5	2.56	2.53	2.49	2.45	2.41	2.37	2.34	2.30	2.26	2.22	2.19	2.15	2.11	2.07	2.04	2.00	1.96
70.0	177.8	2.60	2.56	2.52	2.49	2.45	2.41	2.37	2.34	2.30	2.26	2.22	2.19	2.15	2.11	2.07	2.03	2.00
70.5	179.1	2.64	2.60	2.56	2.52	2.49	2.45	2.41	2.37	2.33	2.30	2.26	2.22	2.18	2.15	2.11	2.07	2.03
71.0	180.3	2.67	2.63	2.59	2.56	2.52	2.48	2.44	2.41	2.37	2.33	2.29	2.26	2.22	2.18	2.14	2.10	2.07
71.5	181.6	2.71	2.67	2.63	2.59	2.55	2.52	2.48	2.44	2.40	2.37	2.33	2.29	2.25	2.22	2.18	2.14	2.10
72.0	182.9	2.74	2.70	2.67	2.63	2.59	2.55	2.52	2.48	2.44	2.40	2.37	2.33	2.29	2.25	2.22	2.18	2.14
72.5	184.2	2.78	2.74	2.70	2.67	2.63	2.59	2.55	2.52	2.48	2.44	2.40	2.36	2.33	2.29	2.25	2.21	2.18
73.0	185.4	2.81	2.77	2.74	2.70	2.66	2.62	2.59	2.55	2.51	2.47	2.43	2.40	2.36	2.32	2.28	2.25	2.21
73.5	186.7	2.85	2.81	2.77	2.74	2.70	2.66	2.62	2.59	2.55	2.51	2.47	2.43	2.40	2.36	2.32	2.28	2.24
74.0	188.0	2.89	2.85	2.81	2.77	2.73	2.70	2.66	2.62	2.58	2.55	2.51	2.47	2.43	2.40	2.36	2.32	2.28
74.5	189.2	2.92	2.88	2.84	2.81	2.77	2.73	2.69	2.66	2.62	2.58	2.54	2.50	2.47	2.43	2.39	2.35	2.32
75.0	190.5	2.96	2.92	2.88	2.84	2.80	2.77	2.73	2.69	2.65	2.62	2.58	2.54	2.50	2.47	2.43	2.39	2.35
75.5	191.8	2.99	2.95	2.92	2.88	2.84	2.80	2.77	2.73	2.69	2.65	2.62	2.58	2.54	2.50	2.46	2.43	2.39
76.0	193.0	3.03	2.99	2.95	2.92	2.88	2.84	2.80	2.76	2.72	2.69	2.65	2.61	2.57	2.53	2.50	2.46	2.42
76.5	194.3	3.06	3.02	2.99	2.95	2.92	2.87	2.84	2.80	2.76	2.72	2.68	2.65	2.61	2.57	2.53	2.50	2.46
77.0	195.6	3.10	3.06	3.02	2.99	2.95	2.92	2.87	2.83	2.80	2.76	2.72	2.68	2.65	2.61	2.57	2.53	2.50
77.5	196.9	3.13	3.10	3.06	3.02	2.98	2.95	2.92	2.87	2.83	2.80	2.76	2.72	2.68	2.65	2.61	2.57	2.53
78.0	198.1	3.17	3.13	3.09	3.06	3.02	2.98	2.94	2.90	2.87	2.83	2.79	2.75	2.72	2.68	2.64	2.60	2.57
78.5	199.4	3.20	3.17	3.13	3.09	3.05	3.02	2.98	2.94	2.90	2.87	2.83	2.79	2.75	2.72	2.68	2.64	2.60
79.0	200.7	3.24	3.20	3.17	3.13	3.09	3.05	3.02	2.98	2.94	2.90	2.86	2.83	2.79	2.75	2.71	2.67	2.63
79.5	201.9	3.28	3.24	3.20	3.16	3.12	3.09	3.05	3.01	2.97	2.94	2.90	2.86	2.82	2.78	2.75	2.71	2.67
80.0	203.2	3.31	3.27	3.24	3.20	3.16	3.12	3.09	3.05	3.01	2.97	2.93	2.90	2.86	2.82	2.78	2.75	2.71
80.5	204.5	3.35	3.31	3.27	3.23	3.20	3.16	3.12	3.08	3.05	3.01	2.97	2.93	2.90	2.86	2.82	2.78	2.75
81.0	205.7	3.38	3.34	3.31	3.27	3.23	3.19	3.16	3.12	3.08	3.04	3.01	2.97	2.93	2.89	2.85	2.82	2.78
81.5	207.0	3.42	3.38	3.34	3.31	3.27	3.23	3.19	3.15	3.12	3.08	3.04	3.00	2.97	2.93	2.89	2.85	2.81
82.0	208.3	3.45	3.42	3.38	3.34	3.31	3.27	3.23	3.19	3.15	3.12	3.08	3.04	3.00	2.97	2.93	2.89	2.85

TABLE 8A—NAVAJO FEMALES FEV-1 LOWER LIMIT OF NORMAL VALUES, CRAPO, ET AL. (1988)—Continued  
 [Reference value equation:  $[-1.8110 + (-0.0233)(\text{age}) + (0.0347)/(\text{height})] \times (0.808)$ ]

Height in inches	Height in centimeters	Age in years																
		49	51	53	55	57	59	61	63	65	67	69	71	73	75	77	79	81
82.5	209.6	3.49	3.45	3.42	3.38	3.34	3.30	3.26	3.23	3.19	3.15	3.11	3.08	3.04	3.00	2.96	2.93	2.89

**Department of Justice****Pt. 79, App. C****APPENDIX B TO PART 79—BLOOD-GAS STUDY TABLES**

For arterial blood-gas studies performed at test locations between sea level and 2,999 feet above sea level:

Arterial pCO <sub>2</sub>	and arterial pO <sub>2</sub>
25 mmHg or below .....	80 mmHg or below.
26 mmHg .....	79 mmHg or below.
27 mmHg .....	78 mmHg or below.
28 mmHg .....	77 mmHg or below.
29 mmHg .....	76 mmHg or below.
30 mmHg .....	75 mmHg or below.
31 mmHg .....	74 mmHg or below.
32 mmHg .....	73 mmHg or below.
33 mmHg .....	72 mmHg or below.
34 mmHg .....	71 mmHg or below.
35 mmHg .....	70 mmHg or below.
36 mmHg .....	69 mmHg or below.
37 mmHg .....	68 mmHg or below.
38 mmHg .....	67 mmHg or below.
39 mmHg .....	66 mmHg or below.
40–49 mmHg .....	65 mmHg or below.
Above 50 mmHg .....	Any value.

For arterial blood-gas studies performed at test locations above 3,000 feet above sea level:

Arterial pCO <sub>2</sub>	and arterial pO <sub>2</sub>
25 mmHg or below .....	75 mmHg or below.
26 mmHg .....	74 mmHg or below.
27 mmHg .....	73 mmHg or below.
28 mmHg .....	72 mmHg or below.
29 mmHg .....	71 mmHg or below.
30 mmHg .....	70 mmHg or below.
31 mmHg .....	69 mmHg or below.
32 mmHg .....	68 mmHg or below.
33 mmHg .....	67 mmHg or below.
34 mmHg .....	66 mmHg or below.
35 mmHg .....	65 mmHg or below.
36 mmHg .....	64 mmHg or below.
37 mmHg .....	63 mmHg or below.
38 mmHg .....	62 mmHg or below.
39 mmHg .....	61 mmHg or below.
40–49 mmHg .....	60 mmHg or below.
Above 50 mmHg .....	Any value.

**APPENDIX C TO PART 79—RADIATION EXPOSURE COMPENSATION ACT OFFSET WORKSHEET—ON SITE PARTICIPANTS**

[Present CPI = 185.20]

VA payments year	Payment	Indicated year CPI	Claim # * inflated PV
1960		29.60	\$0.00
1961		29.90	\$0.00
1962		30.20	\$0.00
1963		30.60	\$0.00
1964		31.00	\$0.00
1965		31.50	\$0.00
1966		32.40	\$0.00
1967		33.40	\$0.00
1968		34.80	\$0.00
1969		36.70	\$0.00
1970		38.80	\$0.00

**Pt. 79, App. C****28 CFR Ch. I (7-1-05 Edition)**

[Present CPI = 185.20]

VA payments year	Payment	Indicated year CPI	Claim # *inflated PV
1971		40.50	\$0.00
1972		41.80	\$0.00
1973		44.40	\$0.00
1974		49.30	\$0.00
1975		53.80	\$0.00
1976		56.90	\$0.00
1977		60.60	\$0.00
1978		65.20	\$0.00
1979		72.60	\$0.00
1980		82.40	\$0.00
1981		90.90	\$0.00
1982		96.50	\$0.00
1983		99.60	\$0.00
1984		103.90	\$0.00
1985		107.60	\$0.00
1986		109.60	\$0.00
1987		113.60	\$0.00
1988		118.30	\$0.00
1989		124.00	\$0.00
1990		130.70	\$0.00
1991		136.20	\$0.00
1992		140.30	\$0.00
1993		144.50	\$0.00
1994		148.20	\$0.00
1995		152.40	\$0.00
1996		156.90	\$0.00
1997		160.50	\$0.00
1998		163.00	\$0.00
1999		166.60	\$0.00
2000		172.20	\$0.00
2001		177.10	\$0.00
2002		179.90	\$0.00
2003		184.00	\$0.00
2004	.....	.....	.....
	Total, Column 4	"Actuarial Present Value" of past payments =	\$0.00
	NET AMOUNT OWED CLAIMANT (\$75,000 less APV)		\$75,000.00

**Department of Justice****§ 80.6**

[Present CPI = 185.20]

VA payments year	Payment	Indicated year CPI	Claim # *inflated PV
		Past CPI	
xxxx			??

\* Inflated PV is computed as {payment X (current CPI ÷ Year's CPI)}.

**PART 80—FOREIGN CORRUPT PRACTICES ACT OPINION PROCEDURE**

Sec.

- 80.1 Purpose.
- 80.2 Submission requirements.
- 80.3 Transaction.
- 80.4 Issuer or domestic concern.
- 80.5 Affected parties.
- 80.6 General requirements.
- 80.7 Additional information.
- 80.8 Attorney General opinion.
- 80.9 No oral opinion.
- 80.10 Rebuttable presumption.
- 80.11 Effect of FCPA Opinion.
- 80.12 Accounting requirements.
- 80.13 Scope of FCPA Opinion.
- 80.14 Disclosure.
- 80.15 Withdrawal.
- 80.16 Additional requests.

AUTHORITY: 28 U.S.C. 509, 510; 15 U.S.C. 78dd-1, 78dd-2.

SOURCE: Order No. 1620-92, 57 FR 39600, Sept. 1, 1992, unless otherwise noted.

**§ 80.1 Purpose.**

These procedures enable issuers and domestic concerns to obtain an opinion of the Attorney General as to whether certain specified, prospective—not hypothetical—conduct conforms with the Department's present enforcement policy regarding the antibribery provisions of the Foreign Corrupt Practices Act of 1977, as amended, 15 U.S.C. 78dd-1 and 78dd-2. An opinion issued pursuant to these procedures is a Foreign Corrupt Practices Act opinion (hereinafter FCPA Opinion).

**§ 80.2 Submission requirements.**

A request for an FCPA Opinion must be submitted in writing. An original and five copies of the request should be addressed to the Assistant Attorney General in charge of the Criminal Division, Attention: FCPA Opinion Group. The mailing address is P.O. Box 28188,

Central Station, Washington, DC 20038. The address for hand delivery is room 2424, Bond Building, 1400 New York Avenue, NW., Washington, DC 20005.

**§ 80.3 Transaction.**

The entire transaction which is the subject of the request must be an actual—not a hypothetical—transaction but need not involve only prospective conduct. However, a request will not be considered unless that portion of the transaction for which an opinion is sought involves only prospective conduct. An executed contract is not a prerequisite and, in most—if not all—instances, an opinion request should be made prior to the requestor's commitment to proceed with a transaction.

**§ 80.4 Issuer or domestic concern.**

The request must be submitted by an issuer or domestic concern within the meaning of 15 U.S.C. 78dd-1 and 78dd-2, respectively, that is also a party to the transaction which is the subject of the request.

**§ 80.5 Affected parties.**

An FCPA Opinion shall have no application to any party which does not join in the request for the opinion.

**§ 80.6 General requirements.**

Each request shall be specific and must be accompanied by all relevant and material information bearing on the conduct for which an FCPA Opinion is requested and on the circumstances of the prospective conduct, including background information, complete copies of all operative documents, and detailed statements of all collateral or oral understandings, if any. The requesting issuer or domestic concern is under an affirmative obligation to make full and true disclosure with respect to the conduct for which