

**National Health and Nutrition Examination Survey
Codebook for Data Release (2001-2002)**

**MEC Examination
Vision Examination (VIX_B)**

Person level data -- use Examination Weights for analysis

February 2005

SEQN	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Respondent sequence number
English Text: Respondent sequence number	
English Instructions:	

VIQ110	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	SP has a severe eye infection?
English Text: Does SP appear to have a severe eye infection in one or both eyes?	
English Instructions: The examiner observes the examinee's eyes for possible infection. If either eye has a sign of infection, the examinee is excluded from the vision component.	
Codes: 1= Yes 2= No	Skip To Values: VIQ130

VIQ121	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Which eye(s) infected?
English Text: if VIQ110 = "Yes" record which eye(s) is/are affected.	
English Instructions:	
Codes: 1= Right 2= Left 3= Both	Skip To Values: End of Section End of Section End of Section

VIQ130	Target

	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Is SP wearing an eye patch?
English Text: Is SP wearing an eye patch?	
English Instructions: Although the SP is not excluded from the vision examination because he/she wears an eye patch, the examiner will not conduct the examination on the affected eye.	
Codes: 1= Yes 2= No	Skip To Values: VIQ150

VIQ141	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Which eye has eye patch?
English Text: If VIQ130 = "Yes" record which eye(s) is/are affected.	
English Instructions:	
Codes: 1= Right 2= Left 3= Both	Skip To Values:

VIQ150	Target
	B(50 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Glasses/contact lenses for near work?
English Text: Do you wear glasses or contact lenses for reading or near work?	
English Instructions:	
Codes: 1= Yes 2= No 9= Don't know	Skip To Values: VIXNC1

VIQ160	Target
	B(50 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Glasses/contact lenses available?
English Text: If VIQ150 = "Yes", record if the examinee brought their near work glasses, contacts, or a combination of glasses and/or contacts to the testing facility.	

English Instructions:	
Codes: 1= Yes 2= No	Skip To Values: VIXNC1

VIQ170	Target
	B(50 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Glasses or contacts worn for near test?

English Text: If VIQ160 = "Yes", record whether the examinee wore glasses, contacts, or a combination of glasses and/or contacts for test of near vision.

English Instructions:	
Codes: 1= Glasses 2= Contacts 3= Both glasses and contact lenses	Skip To Values:

VIXNC1	Target
	B(50 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
0.0000 to 5.0000	Line read on near card

English Text: The number of the last line the examinee read with one or fewer misses, that is the number of the last line where the examinee read at least four out of the five characters correctly. Line 1 has the largest print: line 5 has the smallest print.

English Instructions:	
Codes: 8= Could not obtain	Skip To Values:

VIXNC2	Target
	B(50 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
1.0000 to 36.0000	Testing distance of near card

English Text: Record to the nearest inch the distance from the center of the card to the examinee's brow.

English Instructions: A measuring tape is used to determine the distance. (Rounding rule: Numbers less than 0.5, round down (example 16 1/4 = 16) and numbers equal to or greater than 0.5, round up (13 1/2 = 14, 21 3/4 = 22).)

Codes: 88= Could not obtain	Skip To Values:
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VIQ180	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Eye surgery for near sightedness?
English Text: Have you ever had eye surgery to treat or prevent nearsightedness or myopia?	
English Instructions: The interest is in laser or radial keratotomy (RK) surgeries used to improve nearsightedness. Some other terms to describe this surgery include: PRK, RK, Lasik, Eximer, or Refractive Surgery.	
Codes: 1= Yes 2= No 9= Don't know	Skip To Values: VIQ200 VIQ200

VIQ191	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Which eye(s) surgery - near-sightedness?
English Text: If VIQ180 = "Yes", record which eye(s) was/were operated on.	
English Instructions:	
Codes: 1= Right 2= Left 3= Both	Skip To Values:

VIQ200	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Eye surgery for cataracts?
English Text: Have you ever had eye surgery to treat cataracts?	
English Instructions:	
Codes: 1= Yes 2= No 9= Don't know	Skip To Values: VIQ220 VIQ220

VIQ211	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label

	Which eye(s) cataract surgery?
English Text: if VIQ200 = "Yes", record which eye(s) was/were operated on for cataracts.	
English Instructions:	
Codes: 1= Right 2= Left 3= Both 9= Don't know	Skip To Values:

VIQ220	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Glasses/contact lenses worn for distance
English Text: Do you wear glasses or contact lenses for distance vision, such as when you watch television?	
English Instructions:	
Codes: 1= Yes 2= No 9= Don't know	Skip To Values: VIXOCMT

VIQ230	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Is distance correction available?
English Text: If VIQ220 = "Yes", record if examinee brought their distance correction to the testing center.	
English Instructions: The SP could be wearing the correction or brought it with them.	
Codes: 1= Yes 2= No	Skip To Values:

VIQ240	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Which type? Glasses or contacts?
English Text: If VIQ230 = "Yes", record the type of correction (glasses, contacts, or a combination of glasses and contacts) the SP has with them.	
English Instructions: This specifies the type of correction worn by the SP for the presenting VA tests	

(VIDRVA and VIDLVA).

Codes:

- 1= Glasses
- 2= Contacts
- 3= Both glasses and contact lenses

Skip To Values:

VIXOCMT

VIQ250	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Was prescription obtained?
English Text: Did the examiner capture the prescription of the examinee's lens?	
English Instructions: This pertains to the lens prescription used for viewing distant objects.	
Codes:	Skip To Values:
1= Yes	
2= No	

VIXPRS	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
-25.0000 to 25.0000	Prescription, right sphere
English Text: The prescription of the sphere in the right lens used for distance correction.	
English Instructions: For distance eyeglasses only.	
Codes:	Skip To Values:
88= Could not obtain	

VIXPRC	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
-9.9900 to 9.9900	Prescription, right cylinder
English Text: Prescription of the cylinder in the right lens used for distance correction	
English Instructions: For distance eyeglasses only	
Codes:	Skip To Values:
88= Could not obtain	

VIXPRA	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
0.0000 to 180.0000	Prescription, right axis

English Text: Prescription of the axis in the right lens used for distance correction	
English Instructions: For distance eyeglasses only.	
Codes: 888= Could not obtain	Skip To Values:

VIXPLS	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
-25.0000 to 25.0000	Prescription, left sphere
English Text: Prescription of the sphere in the left lens used for distance correction.	
English Instructions: For distance eyeglasses only.	
Codes: 88= Could not obtain	Skip To Values:

VIXPLC	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Prescription, left cylinder
English Text: Prescription of the cylinder in the left lens used for distance correction.	
English Instructions: For distance eyeglasses only.	
Codes: 88= Could not obtain	Skip To Values:

VIXPLA	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
0.0000 to 180.0000	Prescription, left axis
English Text: Prescription of the axis in the left lens used for distance correction.	
English Instructions: For distance eyeglasses only	
Codes: 888= Could not obtain	Skip To Values:

VIXOCMT	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Visual Acuity Comments
English Text: The examiner can note special circumstances related to a visual acuity test.	

English Instructions: These apply to distance vision tests.

Codes:

- 1= Monovision glasses/contacts worn for visual acuity
- 2= Cataract contact lenses worn for objective refraction
- 3= Contacts worn for objective refraction
- 4= Artificial eye
- 5= Monovision contacts worn for objective refraction
- 6= Contact in right eye only for presenting visual acuity
- 7= Contact in left eye only for presenting visual acuity

Skip To Values:

VIXORSM	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
-23.0000 to 23.0000	OR right sphere, average
English Text: Spherical dioptric power (averaging three objective refractions) of the examinee's right eye.	
English Instructions:	
Codes:	Skip To Values:
88= Could not obtain	

VIXORCM	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
0 to 8	OR right cylinder, average
English Text: Cylindrical dioptric power (averaging three objective refractions) of the examinee's right eye	
English Instructions:	
Codes:	Skip To Values:
88= Could not obtain	

VIXORAM	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
0.0000 to 180.0000	OR right axis, average
English Text: Axis of refractive astigmatism (averaging three objective refractions) of the examinee's right eye.	
English Instructions:	
Codes:	Skip To Values:

888= Could not obtain

VIDORFM	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
5.0000 to 9.0000	OR right confidence level reading
English Text: The confidence level of the objective refraction reading for the right eye (mean of three measures).	
English Instructions: Lower values equate to less confidence in the objective refraction values.	

VIXOLSM	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
-23.0000 to 23.0000	OR left sphere, average
English Text: Spherical dioptric power (averaging three objective refractions) of the examinee's left eye	
English Instructions:	
Codes: 88= Could not obtain	Skip To Values:

VIXOLCM	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
0 to 8	OR left cylinder, average
English Text: Cylindrical dioptric power (averaging three objective refractions) of the examinee's left eye.	
English Instructions:	
Codes: 88= Could not obtain	Skip To Values:

VIXOLAM	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
0.0000 to 180.0000	OR left axis, average
English Text: Axis of refractive astigmatism (averaging three objective refractions) of the examinee's left eye.	
English Instructions:	
Codes:	Skip To Values:

888= Could not obtain

VIDOLFM	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
5.0000 to 9.0000	OR left confidence level reading
English Text: The confidence level of the objective refraction reading of the left eye (mean of three measures).	
English Instructions: Lower values equate to less confidence in the objective refraction values.	

VIXKRM1	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
5.0000 to 10.0000	Right keratometry radius?flat curve (mm)
English Text: Keratometric measure. Radius of corneal curvature (in mm) in the least power meridian of the examinee's right eye.	
English Instructions:	
Codes: 88= Could not obtain	Skip To Values:

VIXKRD1	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
33.7500 to 67.5000	Right keratometry?power?flat curve (D)
English Text: Keratometric measure. Dioptric power in the least power meridian of the cornea in the examinee's right eye.	
English Instructions:	
Codes: 88= Could not obtain	Skip To Values:

VIXKRG1	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
0.0000 to 180.0000	Right keratometry axis?flat curve (deg)
English Text: Keratometric measure. Axis of corneal astigmatism (in degrees) in the least power meridian of the examinee's right eye.	
English Instructions:	
Codes:	Skip To Values:

888= Could not obtain

VIXKRM2	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
5.0000 to 10.0000	Right keratometry radius?steep curve(mm)
English Text: Keratometric measure. Radius?of corneal curvature (in mm) in the greatest power meridian of the examinee's right eye	
English Instructions:	
Codes: 88= Could not obtain	Skip To Values:

VIXKRD2	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
33.7500 to 67.5000	Right keratometry?power?steep curve (D)
English Text: Keratometric measure. Dioptic power in the meridian of the cornea with the greatest power in the examinee's right eye.	
English Instructions:	
Codes: 88= Could not obtain	Skip To Values:

VIXKRG2	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
0.0000 to 180.0000	Right keratometry axis?steep curve (deg)
English Text: Keratometric measure. Axis of corneal astigmatism (in degrees) in the greatest power meridian of the examinee's right eye.	
English Instructions:	
Codes: 888= Could not obtain	Skip To Values:

VIXKRMM	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
5.0000 to 10.0000	Right keratometry radius, average?(mm)
English Text: Keratometric measure. Radius of corneal curvature (in mm) averaged across meridians in the examinee's right eye.??	
English Instructions:	
Codes:	Skip To Values:

English Instructions:	
Codes: 88= Could not obtain	Skip To Values:

VIXKRDM	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
33.7500 to 67.5000	Right keratometry?power, average (D)?
English Text: Keratometric measure. Dioptric power of the cornea averaged across meridians in the examinee's right eye	
English Instructions:	
Codes: 88= Could not obtain	Skip To Values:

VIXKRCD	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Right keratometry?cylinder?
English Text: Keratometric measure. Difference in dioptric power between meridians of the cornea in the examinee's right eye	
English Instructions:	
Codes: 88= Could not obtain	Skip To Values:

VIXKRCG	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
0.0000 to 180.0000	Right keratometry axis, average (deg)
English Text: Keratometric measure. Axis of corneal astigmatism (in degrees) in the steepest meridian of the cornea in the examinee's right eye. ?	
English Instructions:	
Codes: 888= Could not obtain	Skip To Values:

VIXKLM1	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Left keratometry radius?flat curve (mm)

English Text: Keratometric measure. Radius of corneal curvature (in mm) in the least power meridian of the examinee's left eye.

English Instructions:

Codes:

88= Could not obtain

Skip To Values:

VIXKLD1	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Left keratometry?power?flat curve (D)

English Text: Keratometric measure. Dioptric power in the least power meridian of the cornea in the examinee's left eye.

English Instructions:

Codes:

88= Could not obtain

Skip To Values:

VIXKLG1	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
0.0000 to 180.0000	Left keratometry axis flat curve (deg)

English Text: Keratometric measure. Axis of corneal astigmatism (in degrees) in the least power median of the examinee's left eye.

English Instructions:

Codes:

888= Could not obtain

Skip To Values:

VIXKLM2	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Left keratometry radius?steep curve (mm)

English Text: Keratometric measure. Radius of corneal curvature (in mm) in the greatest power meridian of the examinee's left eye.

English Instructions:

Codes:

88= Could not obtain

Skip To Values:

VIXKLD2	Target
	B(12 Yrs. to 150 Yrs.)

Hard Edits	SAS Label
	Left keratometry?power?steep curve (D)
English Text: Keratometric measure. Dioptric power in the meridian of the cornea with the greatest power in the examinee's left eye.	
English Instructions:	
Codes: 88= Could not obtain	Skip To Values:

VIXKLG2	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
0.0000 to 180.0000	Left keratometry axis?steep curve (deg)
English Text: Keratometric measure. Axis of corneal astigmatism (in degrees) in the greatest power meridian of the examinee's left eye.	
English Instructions:	
Codes: 888= Could not obtain	Skip To Values:

VIXKLMM	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
5.0000 to 10.0000	Left keratometry radius, average?(mm)?
English Text: Keratometric measure. Radius of corneal curvature (in mm) averaged across meridians in the examinee's left eye.	
English Instructions:	
Codes: 88= Could not obtain	Skip To Values:

VIXKLDM	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
33.7500 to 67.5000	Left keratometry?power, average?(D)?
English Text: Keratometric measure. Dioptric power of the cornea averaged across meridians in the examinee's left eye.	
English Instructions:	
Codes: 88= Could not obtain	Skip To Values:

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VIXKLCD	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Left keratometry?cylinder?
English Text: Keratometric measure. Difference in dioptric power between meridians of the cornea in the examinee's left eye.	
English Instructions:	
Codes: 88= Could not obtain	Skip To Values:

VIXKLCG	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
0.0000 to 180.0000	Left keratometry axis, average (deg)
English Text: Keratometric measure. Axis of corneal astigmatism (in degrees) in the steepest meridian of the cornea in the examinee's left eye.	
English Instructions:	
Codes: 888= Could not obtain	Skip To Values:

VIDRVA	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Right visual acuity, presenting
English Text: The presenting visual acuity of the right eye with usual correction.	
English Instructions: Usual correction could be: eyeglasses, contacts, eyeglasses and contacts, or no correction depending on what the SP wore (or brought with them) to view distant objects on the day they visited the MEC (see VIQ230 and VIQ240).	
Codes: 20= 20/20 25= 20/25 30= 20/30 40= 20/40 50= 20/50 60= 20/60 80= 20/80 200= 20/200 666= 20/200+ 888= Could not obtain	Skip To Values:

VIDLVA	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Left visual acuity, presenting
English Text: The presenting visual acuity of the left eye with usual correction.	
English Instructions: Usual correction could be: eyeglasses, contacts, eyeglasses and contacts, or no correction depending on what the SP wore (or brought with them) to view distant objects on the day they visited the MEC (see VIQ230 and VIQ240).	
Codes:	Skip To Values:
20= 20/20	
25= 20/25	
30= 20/30	
40= 20/40	
50= 20/50	
60= 20/60	
80= 20/80	
200= 20/200	
666= 20/200+	
888= Could not obtain	

VIDROVA	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Right visual acuity, w/ obj. refraction
English Text: The visual acuity with objective refraction of the right eye.	
English Instructions: This is the visual acuity reported by the SP after the autorefractor inserted what it deemed, based on the objective refraction, to be the most appropriate lens (if any) to allow the eye to see 20/25 or better. This test was only performed on eyes whose presenting visual acuity was 20/30 or worse.	
Codes:	Skip To Values:
25= 20/25	
30= 20/30	
40= 20/40	
50= 20/50	
60= 20/60	
80= 20/80	
200= 20/200	
666= 20/200+	
888= Could not obtain	

VIDLOVA	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Left visual acuity, w/ obj. refraction
English Text: The visual acuity with objective refraction of the left eye.	
English Instructions: This is the visual acuity reported by the SP after the autorefractor inserted what it deemed, based on the objective refraction, to be the most appropriate lens (if any) to allow the eye to see 20/25 or better. This test was only performed on eyes whose presenting visual acuity was 20/30 or worse.	
Codes: 25= 20/25 30= 20/30 40= 20/40 50= 20/50 60= 20/60 80= 20/80 200= 20/200 666= 20/200+ 888= Could not obtain	Skip To Values: