

Check Number	NCD Table Name	Check Name	Description	Check Type	Criticality Level
617	BaseYearVMT	Base Year for BaseYearVMT Data Type	This element must be reported as an integer.	Format	Critical
619	BaseYearVMT	Base Year for BaseYearVMT Range	Must be between 1970-2050.	Range	Critical
620	BaseYearVMT	FIPS County ID Code	Must match value in code list. Note - leading zeros may have been stripped.	Code	Critical
620	CountyNRFile	FIPS County ID Code	Must match value in code list. Note - leading zeros may have been stripped.	Code	Critical
620	CountyVMTMonth Allocation	FIPS County ID Code	Must match value in code list. Note - leading zeros may have been stripped.	Code	Critical
620	CountyYearMonth Hour	FIPS County ID Code	Must match value in code list. Note - leading zeros may have been stripped.	Code	Critical
621	BaseYearVMT	FIPS State ID Code	Must match value in code list. Note - leading zeros may have been stripped.	Code	Critical
621	CountyNRFile	FIPS State ID Code	Must match value in code list. Note - leading zeros may have been stripped.	Code	Critical
621	CountyVMTMonth Allocation	FIPS State ID Code	Must match value in code list. Note - leading zeros may have been stripped.	Code	Critical
621	CountyYearMonth Hour	FIPS State ID Code	Must match value in code list. Note - leading zeros may have been stripped.	Code	Critical
622	BaseYearVMT	Road Type Code	Must match value in HPMSRoadType Table code list.	Code	Critical
622	CountyVMTMonth Allocation	Road Type Code	Must match value in HPMSRoadType Table code list.	Code	Critical
624	BaseYearVMT	VClass Code	Must match value in M6VClass Table code list.	Code	Critical
625	BaseYearVMT	VMT Data Type	This element must be reported as a float or null.	Format	Critical
626	BaseYearVMT	VMT Range	Must be greater than or equal to 0.	Range	Critical
627	County	Altitude Data Type	This element must be reported as a character.	Format	Critical
628	County	Altitude Valid	Allowable values are 'H' or 'L'.	Range	Critical
629	County	Barometric Pressure Data Type	This element must be reported as a float.	Format	Critical
630	County	Barometric Pressure Range	Must be between 13 to 33.	Range	Critical
631	County	HDV Stage Two Percent Data Type	This element must be reported as a float or null.	Format	Critical
634	County	HDV Stage Two Percent Range	Must be between 0 to 100.	Range	Critical
635	County	LDV Stage Two Percent Data Type	This element must be reported as a float or null.	Format	Critical
636	County	LDV Stage Two Percent Range	Must be between 0 to 100.	Range	Critical
637	County	NGV Fraction File Name Code	Must match a valid State and County Fips code.	Code	Critical
638	County	NGV Fraction File Name External File	Included in the submission must be a file with the value as the file name with the extension ".ngv".	Conditional	Critical
639	County	Ozone Season End Day Data Type	This element must be reported as an integer.	Format	Critical

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640	County	Ozone Season End Day Range	Must be within 0 to 31.	Range	Critical
642	County	Ozone Season End Month Data Type	This element must be reported as an integer.	Format	Critical
643	County	Ozone Season End Month Range	Must be within 0 to 12.	Range	Critical
644	County	Ozone Season Start Day Data Type	This element must be reported as an integer.	Format	Critical
645	County	Ozone Season Start Day Range	Must be within 0 to 31.	Range	Critical
646	County	Ozone Season Start Month Data Type	This element must be reported as an integer.	Format	Critical
647	County	Ozone Season Start Month Range	Must be within 0 to 12.	Range	Critical
648	County	Phase In Years Data Type	This element must be reported as an integer or null.	Format	Critical
650	County	Phase In Years Range	Must be within 1 to 9.	Range	Critical
651	County	Stage 2 Start Year Data Type	This element must be reported as an integer or null.	Format	Critical
652	County	Stage 2 Start Year Range	Must be within 0 to 50 or 89 to 99.	Range	Critical
653	CountyNRFile	File Type ID Code	Must match value in FileType Table code list.	Code	Critical
654	CountyNRFile	County NR File Name Data Type	This element must be reported as eight Characters.	Format	Critical
655	CountyNRFile	County NR File Name Value	If the FileTypeID is "sea," "pop," or "grw" then this value must be SSCCC, and the external file it points to should be named SSCCCsea, or SSCCCpop, or SSCCCgrw (respectively).• If the FileTypeID is any of the other acceptable values, then this value must be SSCCCFileTypeID and the external file it points to should be named SSCCCFileTypeID.alo.	Conditional	Critical
656	CountyNRFile	County NR File Name External File	If this is provided, then the associated file must be in the submission.	Conditional	Critical
657	CountyVMTMonth Allocation	Month Data Type	This element must be reported as an integer.	Format	Critical
657	CountyYearMonth Hour	Month Data Type	This element must be reported as an integer.	Format	Critical
658	CountyVMTMonth Allocation	Month Range	Must be within 1 to 12.	Range	Critical
658	CountyYearMonth Hour	Month Range	Must be within 1 to 12.	Range	Critical
659	CountyVMTMonth Allocation	VType Code	Must match value in M6VType Table code list.	Code	Critical
660	CountyVMTMonth Allocation	Alloc Factor Data Type	This element must be reported as a float.	Format	Critical
661	CountyVMTMonth Allocation	Alloc Factor Range	Value must be within 1 to 100.	Range	Critical

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662	CountyVMTMonth Allocation	Alloc Factor Yearly Total	The twelve monthly values must sum to 100 for each County-type-roadtype combination.	Calculation	Critical
663	CountyYear	ATP File Name Data Type	Value must be "SSCCCY.atp" where SS = State Fips Code, CCC = County Fips Code, and YY = Year.	Format	Critical
664	CountyYear	Avg Speed Dist Base File Name	Value must be "SSCCCY" where SS = State Fips Code, CCC = County Fips Code, and YY = Year.	Format	Critical
666	CountyYear	Diesel Fract File Name	Value must be "SSCCCY" where SS = State Fips Code, CCC = County Fips Code, and YY = Year.	Format	Critical
667	CountyYear	Diurn Soak Activity File Name	Value must be "SSCCCY" where SS = State Fips Code, CCC = County Fips Code, and YY = Year.	Format	Critical
668	CountyYear	Hot Soak File Name	Value must be "SSCCCY" where SS = State Fips Code, CCC = County Fips Code, and YY = Year.	Format	Critical
669	CountyYear	IM File Name	Value must be "SSCCCY.imp" where SS = State Fips Code, CCC = County Fips Code, and YY = Year.	Format	Critical
670	CountyYear	Mile Accum File Name	Value Must be "SSCCCY" where SS = State Fips Code, CCC = County Fips Code, and YY = Year.	Format	Critical
671	CountyYear	NRACT File Name	Value must be "SSCCCY" where SS = State Fips Code, CCC = County Fips Code, and YY = Year.	Format	Critical
672	CountyYear	Reg Dist File Name	Value must be "SSCCCY" where SS = State Fips Code, CCC = County Fips Code, and YY = Year.	Format	Critical
673	CountyYear	Soak Dist File Name	Value must be "SSCCCY" where SS = State Fips Code, CCC = County Fips Code, and YY = Year.	Format	Critical
674	CountyYear	Start Dist File Name	Value must be "SSCCCY" where SS = State Fips Code, CCC = County Fips Code, and YY = Year.	Format	Critical
675	CountyYear	Trip Length File Name	Value must be "SSCCCY" where SS = State Fips Code, CCC = County Fips Code, and YY = Year.	Format	Critical
676	CountyYear	Trips Per Day File Name	Value must be "SSCCCY" where SS = State Fips Code, CCC = County Fips Code, and YY = Year.	Format	Critical
677	CountyYear	VMT By Hour File Name	Value must be "SSCCCY" where SS = State Fips Code, CCC = County Fips Code, and YY = Year.	Format	Critical
678	CountyYear	ATP File Name File Exists	If a value is reported for this file name, the file must exist in the submission.	Conditional	Critical
679	CountyYear	Avg Speed Dist Base File Name Files Exist	If a value is reported for this file name, there must be 18 files that match this name with extensions of ".fwX" and ".arX" where "X" is an integer 1 to 9.	Conditional	Critical
680	CountyYear	Diesel Fract File Name File Exists	If a value is reported for this file name, the file must exist in the submission. Extension must be ".dsf".	Conditional	Critical

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681	CountyYear	Diurn Soak Activity File Name File Exists	If a value is reported for this file name, the file must exist in the submission. Extension must be ".dsa".	Conditional	Critical
682	CountyYear	Hot Soak File Name File Exists	If a value is reported for this file name, the file must exist in the submission. Extension must be ".hsa".	Conditional	Critical
683	CountyYear	IM File Name File Exists	If a value is reported for this file name, the file must exist in the submission. Extension must be ".imp".	Conditional	Critical
684	CountyYear	Mile Accum File Name File Exists	If a value is reported for this file name, the file must exist in the submission. Extension must be ".mil".	Conditional	Critical
685	CountyYear	NRACT File Name File Exists	If a value is reported for this file name, the file must exist in the submission. Extension must be ".act".	Conditional	Critical
686	CountyYear	Reg Dist File Name File Exists	If a value is reported for this file name, the file must exist in the submission. Extension must be ".reg".	Conditional	Critical
687	CountyYear	Soak Dist File Name File Exists	If a value is reported for this file name, the file must exist in the submission. Extension must be ".sok".	Conditional	Critical
688	CountyYear	Start Dist File Name File Exists	If a value is reported for this file name, the file must exist in the submission. Extension must be ".str".	Conditional	Critical
689	CountyYear	Trip Length File Name File Exists	If a value is reported for this file name, the file must exist in the submission. Extension must be ".wdt".	Conditional	Critical
690	CountyYear	Trips Per Day File Name File Exists	If a value is reported for this file name, the file must exist in the submission. Extension must be ".tpd".	Conditional	Critical
691	CountyYear	VMT By Hour File Name File Exists	If a value is reported for this file name, the file must exist in the submission. Extension must be ".vmt".	Conditional	Critical
692	CountyYearMonth	Hwy Diesel ID Code	Must match a diesel identification value in the diesel table or be null.	Code	Critical
693	CountyYearMonth	Hwy Gasoline ID Code	Must match a gasoline identification value in the gasoline table or be null.	Code	Critical
694	CountyYearMonth	NG ID Code	Must match a natural gas identification value in the natural gas table or be null.	Code	Critical
695	CountyYearMonth	NR Gasoline ID Code	Must match a gasoline identification value in the gasoline table or be null.	Code	Critical
696	CountyYearMonth	RM Diesel ID Code	Must match a diesel identification value in the diesel table or be null.	Code	Critical
698	CountyYearMonth	NR Diesel ID Code	Must match a diesel identification value in the diesel table or be null.	Code	Critical
709	CountyYearMonth Hour	Hour ID Data Type	This element must be reported as an integer.	Format	Critical

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710	CountyYearMonth Hour	Hour ID Range	Must be within 1 to 24.	Range	Critical
711	CountyYearMonth Hour	Year Data Type	This element must be reported as an integer.	Format	Critical
712	CountyYearMonth Hour	Year Range	Must be 2008.	Range	Critical
714	CountyYearMonth Hour	Relative Humidity Data Type	This element must be reported as a float.	Format	Critical
715	CountyYearMonth Hour	Relative Humidity Range	Must be within 0 to 100.	Range	Critical
716	CountyYearMonth Hour	Temperature Data Type	This element must be reported as a float.	Format	Critical
717	CountyYearMonth Hour	Temperature Range	Must be within 0 to 120.	Range	Critical
718	CountyYearMonth Hour	Temperature and Relative Humidity Relationship	If temperature or relative humidity change from the default NCD, both values must change.	Conditional	Critical
719	Diesel	Diesel ID Data Type	This element must be reported as an integer.	Format	Critical
720	Diesel	Diesel ID Range	Must be greater than or equal to 0.	Range	Critical
721	Diesel	Diesel Sulfur Data Type	This element must be reported as a float.	Format	Critical
722	Diesel	Diesel Sulfur Range	Must be greater than or equal to 0.	Range	Critical
723	Gasoline	Gasoline ID Data Type	This element must be reported as an integer.	Format	Critical
724	Gasoline	Gasoline ID Value	Must match reference in CountyYearMonth table.	Conditional	Critical
725	Gasoline	Aromatic Content Data Type	This element must be reported as a float.	Format	Critical
726	Gasoline	Aromatic Content Range	Must be within 10 to 55.	Range	Critical
727	Gasoline	Benzene Content Data Type	This element must be reported as a float.	Format	Critical
728	Gasoline	Benzene Content Range	Must be within 0 to 5.	Range	Critical
729	Gasoline	E 200 Data Type	This element must be reported as a float.	Format	Critical
730	Gasoline	E 200 Range	Must be within 30 to 70.	Range	Critical
731	Gasoline	E 300 Data Type	This element must be reported as a float.	Format	Critical
732	Gasoline	E 300 Range	Must be within 70 to 100.	Range	Critical
733	Gasoline	ETBE Mkt Share Data Type	This element must be reported as a float.	Format	Critical
734	Gasoline	ETBE Mkt Share Range	Must be within 0 to 1.	Range	Critical
735	Gasoline	ETBE Volume Data Type	This element must be reported as a float.	Format	Critical
736	Gasoline	ETBE Volume Range	Must be within 0 to 17.6.	Range	Critical
737	Gasoline	ETOH Mkt Share Data Type	This element must be reported as a float.	Format	Critical
738	Gasoline	ETOH Mkt Share Range	Must be within 0 to 1.	Range	Critical

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739	Gasoline	ETOH Volume Data Type	This element must be reported as a float.	Format	Critical
740	Gasoline	ETOH Volume Range	Must be within 0 to 10.6.	Range	Critical
741	Gasoline	Gas Max Sulfur Data Type	This element must be reported as a float.	Format	Critical
742	Gasoline	Gas Max Sulfur Range	Must be greater than or equal to the Gas Sulfur value.	Range	Critical
743	Gasoline	Gas Sulfur Data Type	This element must be reported as a float.	Format	Critical
744	Gasoline	Gas Sulfur Range	Must be greater than or equal to 0.	Range	Critical
745	Gasoline	MTBE Mkt Share Data Type	This element must be reported as a float.	Format	Critical
746	Gasoline	MTBE Mkt Share Range	Must be within 0 to 1.	Range	Critical
747	Gasoline	MTBE Volume Data Type	This element must be reported as a float.	Format	Critical
748	Gasoline	MTBE Volume Range	Must be within 0 to 15.1.	Range	Critical
749	Gasoline	Olefin Content Data Type	This element must be reported as a float.	Format	Critical
750	Gasoline	Olefin Content Range	Must be within 0 to 30.	Range	Critical
751	Gasoline	RFG Value	Must be 'Y' or 'N' single character.	Range	Critical
752	Gasoline	RVP Data Type	This element must be reported as a float.	Format	Critical
754	Gasoline	RVP Range	Must be within 6 to 17.	Range	Critical
755	Gasoline	RVP Oxy Waiver Value	Value must be 1.	Range	Critical
756	Gasoline	TAME Mkt Share Data Type	This element must be reported as a float.	Format	Critical
757	Gasoline	TAME Mkt Share Range	Must be within 0 to 1.	Range	Critical
758	Gasoline	TAME Volume Data Type	This element must be reported as a float.	Format	Critical
759	Gasoline	TAME Volume Range	Must be within 0 to 16.5	Range	Critical
760	Gasoline	Mkt Share Calculation	The sum of ETBE Mkt Share, ETOH Mkt Share, MTBE Mkt Share, and TAME Mkt Share must be less than or equal to 1.	Calculation	Critical
761	Gasoline	ETBE Mkt Share and Volume	If either ETBE Mkt Share or ETBE Volume is 0, the other must also be 0.	Conditional	Critical
762	Gasoline	ETOH Mkt Share and Volume	If either ETOH Mkt Share or ETOH Volume is 0, the other must also be 0.	Conditional	Critical
763	Gasoline	MTBE Mkt Share and Volume	If either MTBE Mkt Share or MTBE Volume is 0, the other must also be 0.	Conditional	Critical
764	Gasoline	TAME Mkt Share and Volume	If either TAME Mkt Share or TAME Volume is 0, the other must also be 0.	Conditional	Critical
765	NaturalGas	NG ID Data Type	This element must be reported as an integer.	Format	Critical
766	NaturalGas	NG ID Value	Must match reference in CountyYearMonth table.	Conditional	Critical
767	NaturalGas	NG Sulfur Data Type	This element must be reported as a float.	Format	Critical
768	NaturalGas	NG Sulfur Range	Must be greater than or equal to 0.	Range	Critical
769	NaturalGas	NG Sulfur Value	Must be an integer value equal to the NGId.	Conditional	Critical

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770	State	NLEV File Name	Value must be "SSCCC.nlv" where SS = State Fips Code and CCC = County Fips Code.	Format	Critical
771	State	NLEV File Name File Exists	If a value is reported for this file name, then the file must exist in the submission.	Conditional	Critical
772	State	T2 Cert File Name	Value must be "SSCCC" where SS = State Fips Code and CCC = County Fips Code.	Format	Critical
773	State	T2 Cert File Name File Exists	If a value is reported for this file name, the file must exist in the submission. Extension must be ".t2c".	Conditional	Critical
774	State	T2 Evap Phase In File Name	Value must be "SSCCC" where SS = State Fips Code and CCC = County Fips Code.	Format	Critical
775	State	T2 Evap Phase In File Name File Exists	If a value is reported for this file name, the file must exist in the submission. Extension must be ".t2v".	Conditional	Critical
776	State	T2 Exh Phase In File Name	Value must be "SSCCC" where SS = State Fips Code and CCC = County Fips Code.	Format	Critical
777	State	T2 Exh Phase In File Name File Exists	If a value is reported for this file name, the file must exist in the submission. Extension must be ".t2x".	Conditional	Critical