



## Federal Aviation Administration

---

# CHARTING NOTICE

---

Date: December 15, 2020  
To: Users of FAA Chart Supplement Publications  
From: Aeronautical Information Services  
Subject: Associated Data in Chart Supplement – Q-Routes

---

Starting with the April 22, 2021 effective date, the Chart Supplement U.S. publications will remove the Q-Route entries listed below within the Associated Data section.

These changes are in compliance with the Air Traffic Organization (ATO) AI/NOTAM Modernization Initiative. This initiative objective is to eliminate duplicative, redundant, and conflicting information used in flight planning and operations.

Q-Routes are available on IFR Enroute High Altitude aeronautical chart series and Gulf of Mexico Q-routes on specific IFR Enroute Low Altitude – U.S. aeronautical chart series at [https://www.faa.gov/air\\_traffic/flight\\_info/aeronav/digital\\_products/ifr/](https://www.faa.gov/air_traffic/flight_info/aeronav/digital_products/ifr/). It was also determined that DMEs listed alongside Q routes are not “critical DMEs.” There are no “critical DMEs” for the Q routes. Critical Distance Measuring Equipment (DME) can be found at [https://www.faa.gov/air\\_traffic/flight\\_info/aeronav/criticaldme/](https://www.faa.gov/air_traffic/flight_info/aeronav/criticaldme/).

Information about Q-Route can be found in handbooks, manuals, and orders through the Federal Aviation Administration (FAA) at [https://www.faa.gov/regulations\\_policies/](https://www.faa.gov/regulations_policies/). In addition,

- Aeronautical Information Manual (AIM)
- Aeronautical Information Publication (AIP)
- FAA Order JO 7400.11
- Aeronautical Information Services – Digital Products
- Aeronautical Information Services – Critical DMEs

For questions or comments, please contact [9-AWA-AJV-A2-Apt-MapTeam@faa.gov](mailto:9-AWA-AJV-A2-Apt-MapTeam@faa.gov)

The following entries are being removed from the Associated Data section:

## **ALL CHART SUPPLEMENT U.S.**

### **Q-ROUTES**

#### **GULF OF MEXICO "Q ROUTES"**

These area navigation routes extend more than 12 miles off shore in airspace controlled by the Federal Aviation Administration (FAA). Additional regulatory information for these routes can be found in the Notices to Airmen Publication, Part 2, International Notices to Airmen.

These routes have a Minimum Obstruction Clearance Altitude (MOCA) of 1500 feet (MSL). The Minimum Enroute Altitude (MEA) for these routes is 6000 feet (MSL).

#### **Q100**

LEV VORTAC

REDFN N28°52.98'/W088°42.11'

NAITE N28°42.64'/W088°05.00'

ROZZI N28°18.87'/W086°42.31'

REMIS N27°53.04'/W085°15.47'

SRQ

VOR/DME

#### **Q102**

LEZ VORTAC

BLVNS N28°22.94'/W088°02.05'

BUNNZ N28°00.58'/W086°45.76'

BACCA N27°35.51'/W085°20.66'

CIGAR N27°29.61'/W084°46.99'

BAGGS N27°08.06'/W082°50.45'

CYY VOR/DME

#### **Q105**

HRV VORTAC

FATSO N29°41.40'/W089°47.08'

REDFN N28°52.98'/W088°42.11'

BLVNS N28°22.94'/W088°02.05'

### Q-ROUTES REGULATORY

Q1, Q3, Q5, Q7, Q9 and Q11 are preferred single direction (Southbound) Q routes; flight planning Northbound not authorized.

Q routes are RNAV routes that require the use of GNSS or DME/DME/IRU RNAV, unless otherwise indicated. Please note that this section does not apply to Q routes in the Gulf of Mexico.

GNSS and DME/DME/IRU RNAV operations are authorized along Q routes at FL 180 and above. GNSS and DME/DME/IRU RNAV MEAs will only be published if above FL 180.

DME facilities that have been assessed for RNAV operations are listed below. Q routes with no DME facilities listed are limited to GNSS RNAV operations only. Those routes will have an enroute chart note "GNSS REQUIRED".

Route	Segment	DME
Q1	POINT REYES-ETCHY	LIN, ECA, RBL, SAC, OAK, PYE
	ETCHY-TOCOS	RBL, PYE, SAC, OAK, LIN, ECA, ENI
	TOCOS-ENVIE	OED, RBL, ENI, PYE
	ENVIE-ELENN	RBL, LMT, OED
	ELENN-EBINY	LMT, OED, CVO, EUG, RBL
	EBINY-EASON	CVO, DSD, OED, BTG, UBG, ONP, EUG, LMT
	EASON-ERAVE	SEA, BTG, OLM, HQM, LTJ, CVO, DSD, OED, UBG, ONP, EUG
	ERAVE-ELMAA	BTG, OLM, HQM, UBG, HUH
Q2	BOILE-HEDVI	HEC, PDZ, OCN, PMD, LAX, RZS, IPL, TRM, PKE, BLH, EED, BZA, GBN,
	HEDVI-HOBOL	BZA, GBN, BLH, EED, PXR, IPL, TFD, DRK, TUS
	HOBOL-ITUCO	TFD, GBN, BLH, PXR, TUS, CIE, SSO
	ITUCO-NEWMAN	EWM, TFD, PXR, CIE, SSO, TUS, TCS
Q3	FEPOT-FAMUK	OLM, TOU, HQM, CVO, BTG, DSD, LTJ, UBG, ONP, EUG
	FAMUK-FRFLY	BTG, DSD, OED, CVO, EUG, ONP, UBG, RBL, LMT
	FRFLY-FINER	OED, EUG, RBL, LMT, ENI, CVO, FJS
	FINER-FOWND	OED, PYE, ECA, LIN, OAK, ENI, RBL, LMT, SAC, FJS
Q4	FOWND-POINT REYES	LIN, ECA, PYE, RBL, SAC, ENI
	BOILE-HEDVI	HEC, PDZ, OCN, PMD, LAX, RZS, IPL, TRM, PKE, BLH, BZA, EED, GBN

Route	Segment	DME
	HEDVI-SCOLE	EED, BLH, BZA, GBN, TRM, IPL, TFD
	SCOLE-SPTFR	EED, BLH, BZA, GBN, TRM, IPL, TFD
	SPTFR-ZEBOL	EED, IPL, BZA, GBN, TFD, PXR, BLH
	ZEBOL-SKTTR	PXR, BLH, BZA, GBN, TFD, TUS, SSO, CIE, SVC, TCS
	SKTTR-EL PASO	EWM, CUS, SVC, TCS, SSO, CIE, ELP, DMN, CME
Q5	HAROB-HISKU	OLM, ONP, CVO, EUG, HQM, UBG, BTG, LTJ, DSD, HUH
	HISKU-HARPR	ONP, CVO, EUG, LTJ, DSD, UBG, BTG, RBL, OED, LMT, FJS, LKV
	HARPR-HOMEG	CVO, EUG, OED, RBL, LMT, ENI, FJS, LKV
	HOMEG-HUPTU	SAC, PYE, LIN, OAK, ECA, LMT, RBL, ENI, OED, FJS
	HUPTU-STIKM	OAK, ECA, PYE, LIN, SAC, ENI, RBL
Q7	JINMO-JOGEN	CVO, HQM, LTJ, UBG, BTG, ONP, IMB, EUG, OLM, DSD, YKM, PDT, SEA
	JOGEN-JUNEJ	LTJ, IMB, UBG, EUG, CVO, RBL, LMT, FMG, DSD, LKV, OED, BTG
	JUNEJ-JAGWA	RBL, LMT, FMG, LIN, SAC, ECA, ENI, MOD, SWR, OAK, LKV, CZQ, AVE, SNS
	JAGWA-AVENAL	OAK, MOD, ECA, EHF, PRB, AVE, SNS, CZQ
Q9	SUMMA-SMIGE	OLM, UBG, SEA, YKM, BTG, ONP, IMB, HQM, PDT, EUG, LTJ, CVO, DSD, OED, EPH, MWH
	SMIGE-SUNBE	IMB, UBG, EUG, IMB, RBL, LMT, FMG, SAC, OED, CVO, LKV, DSD, BTG
	SUNBE-REBRG	RBL, LMT, FMG, SAC, ECA, MVA, CZQ, OAK, EHF, PMD, LKV, LIN, MOD, AVE, OED, SWR
	REBRG-DERBB	CZQ, PMD, EHF, LAX, RZS, AVE, MOD, ECA
Q11	PAAGE-PAWLI	EPH, UBG, CVO, EUG, HQM, YKM, OLM, PDT, BTG, ONP, IMB, LTJ, DSD, LKV, OED, SEA
	PAWLI-PITVE	EUG, FMG, SAC, IMB, LKV, OED, DSD, RBL, LMT, CVO, REO
	PITVE-PUSHH	FMG, SAC, LIN, SWR, MOD, OAL, RBL, LKV, LMT, MVA, CZQ
	PUSHH-LOS ANGELES	SAC, ECA, FMG, LIN, OAL, MOD, EHF, LAX, PMD, POZ, HEC, OCN, CZQ, AVE, RZS
Q13	All segments	GNSS required
Q15	All segments	GNSS required
Q19	NASHVILLE-PLESS	BNA, BWG, CSX, ENL, FAM, GQO, IIU, PXV, STL
	PLESS-ST LOUIS	AXC, CSX, ENL, FAM, PXV, SPI, STL, UIN
	ST LOUIS-DES MOINES	ALO, AXC, CID, CSX, DSM, ENL, FAM, FOD, LOW, IRK, LMN, OVR, SPI, STL, UIN
	DES MOINES-SIOUX FALLS	ALO, CID, DSM, FOD, FSD, LOW, IRK, LMN, MCW, ONL, OVR, RWF
	SIOUX FALLS-ABERDEEN	ABR, FAR, FOD, FSD, ONL, RWF
Q20	CORONA-HONDS	CNX, ABQ, ACH, ONM, TXO, LVS, TCC, CME
	HONDS-UNNOS	CNX, INK, CME, TXO, TCC
	UNNOS-FUSCO	FST, ACH, INK, CME, SJT, TXO, TCC
	FUSCO-JUNCTION	ABI, CWK, CSI, INK, LZZ, JCT, SJT, STV, FST
Q21	JONEZ-RAZORBACK	BYP, EOS, TUL, TXK, ADM, RZC, OKM
Q22	GUSTI-OYSTY	AEX, LFT, LLA, VUH, LCH
	OYSTY-ACMES	LEV, HRV, PCU, ROR, MCB
	ACMES-CATLN	BFM, HRV, CEW, GCV, MCB
	CATLN-TWOUP	CEW, MGM, MVC, SJI, MEI
	TWOUP-SPARTANBURG	PDK, MCN, AHN, GOO, ODF
	SPARTANBURG-NYBLK	CAE, SPA, IRQ, SUG, ODF
	NYBLK-MASHI	SPA, BZM, GRD, CLT, GSO
	MASHI-KIDDO	SPA, BZM, GRD, CLT, GSO
	KIDDO-OMENS	SBV, LIB, PSK, GSO, RDU
	OMENS-BEARI	GVE, FAK, PSK, RIC, RDU
Q23	FORT SMITH-RAZORBACK	OKM, RZC, EOS, TUL
Q24	SAN ANTONIO-MOLLR	LFK, STV, AGJ, PSX, CWK, SAT, DAS, CSI, JCT, ELA, TNV
	MOLLR-LAKE CHARLES	LFK, LCH, PSX, AEX, DAS, ELA, TNV
	LAKE CHARLES-FIGHTING TIGER	AEX, DAS, LCH, MCB, LFT, LSU
	FIGHTING TIGER-IRUBE	AEX, LEV, MCB, LCH, RQR, HRV, LSU, GCV, PCU, SJI, LBY
	IRUBE-PAYTN	GCV, MCB, JYU, PCU, MEI, HRV, CEW, SJI
Q25	MEEOW-WALNUT RIDGE	ELD, MEM, LIT, FAM, RZC, EIC, TXK, ARG, GQE
	WALNUT RIDGE-WLSUN	MEM, STL, BWG, PXV, ENL, FAM, ARG, BNA, CSX, TTH
	WLSUN-POCKET CITY	BWG, PXV, ENL, BNA, TTH
Q26	WALNUT RIDGE-DEVAC	LIT, JKS, GQO, MEM, BNA, FAM, ARG, DYS, VUZ, RMG
Q27	FORT SMITH-ZALDA	OKM, SGF, RZC, EOS, TUL
Q28	GRAZN-PYRMD	EIC, LIT, ELD, OKM, TXK

Route	Segment	DME
	PYRMD-HAKAT	ARG, LIT, FAM, ELD, SGF, RZC, MEM, TXK
	HAKAT-ESTEE	ARG, LIT, FAM, SGF, MEM
	ESTEE-POCKET CITY	ARG, CSX, FAM, PXV, ENL, MEM, STL, BWG, TTH, BNA
Q29	HARES-BAKRE	AEX, EIC, ELD, LIT, MEM, MHZ, SQS, SWB, TXK
	BAKRE-MEMPHIS	ARG, ELD, LIT, MEM, MHZ, SQS
	MEMPHIS-OMDUE	ARG, BNA, FAM, LIT, MEM, PXV, SQS
	OMDUE-SIDAE	ARG, BNA, BWG, ENL, FAM, IIU, MEM, PXV
	SIDAE-CREEP	APE, BNA, BWG, ENL, FLM, FWA, IIU, OKK, PXV, ROD, TTH, VHP
	CREEP-KLYNE	PAE, CRL, DJB, DXO, FLM, FWA, IIU, OKK, ROD, VHP
	KLYNE-DUTSH	APE, CRL, CXR, DJB, DXO, FWA
	DUTSH-WWSHR	APE, CRL, CXR, DJB, DXO, EWC
	WWSHR-DORET	APE, CRL, CXR, DJB, DXO, EWC
	DORET-JAMESTOWN	BUF, CXR, DJB, DKK, DXO, ETG, EWC, JHW, PSB, SLT
	JAMESTOWN-HANKK	BFD, BUF, DKK, ELZ, ETG, EWC, GEE, HNK, JHW, PSB, ROC, SLT, SYR, TDT
	HANKK-GONZZ	BUF, DKK, GEE, HNK, HUO, ITH, JHW, MSS, ROC, SLT, SYR
	GONZZ-KRAZZ	BUF, GFL, GGT, HNK, HUO, MSS, PUT, SYR
	KRAZZ-NIPPY	GFL, HNK, HUO, MSS, PUT, SYR
	NIPPY-CABCI	BGR, BTV, ENE, GFL, MPV, MSS, PUT
	CABCI-EBONY	AUG, BGR, ENE, MLT, MPV, MSS, PNN, PQI
	EBONY-DUNOM	BGR, MLT, PNN
	DUNOM-US CANADIAN BORDER	BGR, MLT, PNN
Q30	SIDON-VULCAN	GLH, MEM, VUZ, JAN, JYU, MEI, MGM, SQS, RMG
Q31	DHART-JODOX	SQS, LIT, TXK
	JODOX-MARVELL	SQS, LIT, ELD, MEM, ARG
	MARVELL-TIIDE	ARG, BWG, PXV, FAM, LIT, MEM, ENL, TTH
	TIIDE-POCKET CITY	BWG, PXV, ENL, TTH
Q32	EL DORADO-GAGLE	AEX, JAN, MEM, SQS, SWB, ELD, LIT, TXK
	GAGLE-CRAMM	JAN, SQS, MEM, ARG, VUZ, BNA, LIT
	CRAMM-NASHVILLE	BWG, MEM, VUZ, BNA, GQO
	NASHVILLE-SWAPP	BWG, IIU, PXV, VXV, BNA, GQO
Q33	DHART-LITTLE ROCK	AEX, ELD, LIT, TXK, SWB, ARG, MEM, SQS
	LITTLE ROCK-PROWL	ELD, SGF, FAM, LIT, ARG, MEM, RZC, CSX, STL
Q34	TEXARKANA-MATIE	LIT, SWB, TXK, BYR, EIC, ELD, SQS
	MATIE-MEMPHIS	LIT, ARG, MEM, ELD, SQS
	MEMPHIS-SWAPP	BWG, ARG, MEM, MKL, SQS, PXV, BNA, GQO, IIU, VXV
Q35	DRAKE-CORKR	TFD, INW, GCN, FLG, PGS, DRK, BLD, BCE, TBC
	CORKR-WINEN	DRK, INW, PGS, TBC, MLF, ILC, BLD, BCE, CDC
	WINEN-NEERO	BCE, MLF, CDC, ELY, DTA, ILC, BVL, REO, BAM, SDO, BQU
	NEERO-KOATA	REO, LKV, BOI, PDT, BAM, IMB, DSD
	KOATA-KIMBERLY	LKV, REO, PDT, DSD, LTJ
Q36	RAZORBACK-TWITS	RZC, MEM, SGF, BUM, TUL, EOS, FAM, ARG, LIT
	TWITS-DEPEC	MEM, GQO, BNA, BWG, FAM, ARG, PXV, IIU
	DEPEC-NASHVILLE	GQO, BWG, BNA, PXV, IIU
	NASHVILLE-SWAPP	VXV, BWG, BNA, GQO, PXV, IIU
Q37	FORT STOCKTON-CAVRN	SJT, ELP, INK, CME, FST
	CAVRN-YORUB	TXO, ELP, CME, INK, FST, SJT
	YORUB-IMMAS	CME, ABQ, TXO, ACH, FTI, CNX, TCC, CIM, INK
	IMMAS-PUEBLO	FTI, CIM, ALS, PUB, LAA, HGO, FQF, DVV, DEN, BVR, BJC, AKO, ACH, TCC, TXO, CNX
Q38	ROKIT-INCIN	DAS, LCH, SWB, IAH, LFK, HUB, AEX
	INCIN-LAREY	JAN, MCB, SWB, AEX
	LAREY-BESOM	JAN, JYU, MEI, SQS, VUZ
Q39	CLAWD-TARCI	AIR BKW GSO HNN HVQ PSK RDU SPA
	TARCI-ASERY	AIR HVQ BKW HNN
Q40	ALEXANDRIA-DOOMS	LCH, SWB, AEX, MCB, HEL
	DOOMS-WINAP	JAN, SWB, AEX, MCB, HEZ
	WINAP-MISLE	JAN, SQS, MEI, MCB
	MISLE-BFOLO	LDK, VUL, OKW, MEL, JYU
	BFOLO-NIOLA	LGC, VUZ, GOO, RMG, GAD
	NIOLA-JAARE	ATL, ODF, GOO, RMG, VXV

Route	Segment	DME
	JAARE-OJESS	SPZ, ODF, GOO, SOT, VXV
	OJESS-ALEAN	SPA, ODF, HMV, SOT, VXV
	ALEAN-FEEDS	BLF, BKW, HMV, GZG, GSO
	FEEDS-MAULS	BLF, BKW, LWB, ROA, GSO
	MAULS-FANPO	FAK, RIC, MOL, GVE, CSN
Q42	KIRKSVILLE-STRUK	CID, IOW, UIN, LMN, IRK, BDF, STL, DEC, ENL, CSX
	STRUK-DANVILLE	ENL, IOW, UIN, BDF, DEC, STL, CSX, SPI, TTH, BVT, JOT, VHP, OXI, ENL, OKK, OBK, GIJ, FWA, GSH, IRK
	DANVILLE-MUNCIE	GIJ, SPI, BDF, OBK, OKK, VHP, BVT, DEC, GSH, FWA, JOT, TTH, OXI, ROD, FLM
	MUNCIE-HIDON	FLM, VHP, GSH, TTH, GIJ, OKK, FWA, ROD, OXI, CRL, GSH, APE, DJB, DXO, HNN, AIR, HVQ, CXR, EWC
	HIDON-BUBAA	AIR, APE, HNN, CXR, HVQ, EWC, DJB
	BUBAA-PSYKO	AIR, APE, DJB, CXR, HNN, EWC, SLT, CSN, JHW, ETG, PSB
	PSYKO-BRNAN	PSB, JHW, EWC, AIR, ETG, CSN, EMI, SLT
	BRNAN-HOTEE	SLT, PSB, THS, ETG, RAV, THS, HAR, SEG, LRP, EMI
	HOTEE-MIKYG	RAV PSB LRP EMI RBV PTW HNK HUO SIE HNK SAX
	MIKYG-SPOTZ	FJC SIE CYN LRP SAX JFK PTW ETX EMI
	SPOTZ-ZIMMZ	BWZ SAX CYN ETX HNK
Q50	LOUISVILLE-HELUB	HYK, FLM, IIU, ABB, EWO, BWG
	HELUB-ENGRA	HYK, FLM, IIU, LOZ, BWG, VXV
	ENGRA-IBATE	HYK, FLM, IIU, LOZ, AZO, VXV
	IBATE-CUBIM	AZQ, FLM, IIU, LOZ, VXV
Q52	CHOPZ-IPTAY	ODF, RMG, MCN, AHN, IRQ
	IPTAY-AWYAT	IRQ, CLT, SPA, GRD, CAE
	AWYAT-COLZI	BZM, RDU, SPA, PSK, GSO
Q54	GREENWOOD-NYLLA	IRQ, SPA, CAE, GRD, ELW, FLO, ODF
	NYLLA-CHYPS	CAE, IRQ, GRD, SPA, CLT, CTF, FLO, GSO
	CHYPS-AHOEY	CAE, SPA, GSO, CLT, RDU, FLO
	AHOEY-RAANE	SPA, FLO, GSO, RDU, SDZ, CTF
	RAANE-NUTZE	ILM, SDZ, RDU, TYI, FLO, LIB, ORF, GSO, ISO, FAY
Q56	SAN ANTONIO-MOLLR	LFK, STV, AGJ, PSX, CWK, SAT, DAS, CSI, JCT, ELA, TNV
	MOLLR-PEKON	LFK, LCH, PSX, AEX, DAS, ELA, TNV
	PEKON-HARVEY	LCH, AEX, DAS, LEV, HRV, MCB
	HARVEY-SEMMES	SJI, CEW, GCV, LEV, MCB, HRV
	SEMMES-CATLN	MEI, MGM, SJI, CEW, GCV
	CATLN-KBLER	LGC, IRQ, RMG, ODF, MEI, MGM, SJI, CEW, GRD, MCN, ATL, VUZ, GCV
	KBLER-KELLN	ODF, SPA, CAE, GRD, IRQ, ATL, MCN, LGC, RMG
	KELLN-KTOWN	ODF, GSO, SPA, CAE, FLO, GRD, IRQ
	KTOWN-BYSCO	RDU, GSO, SPA, CAE, FLO, GRD, PSK
	BYSCO-JOOLI	RDU, GSO, FLO, PSK
	JOOLI-NUUMN	RDU, GSO, PSK
	NUUMN-ORACL	FAK, RDU, GSO, PSK, RIC
	ORACL-KIWII	FAK, RDU, GSO, GVE, PSK, RIC
Q58	KELLN-GLOVR	FLO, GRD, GSO, ODF, CAE, CLT, SPA, ELW, IRQ, RDU, ODF, LIB
	GLOVR-LUMAY	FLO, GSO, RDU, LIB, CLT, SPA, SDZ
	LUMAY-STUKI	FLO, GSO, RDU, LIB, SDZ, PSK
	STUKI-PEETT	FAK, PSK, GSO, RDU, RIC, LIB, SBV, GVE
Q60	SPARTANBURG-BYJAC	GRD, RDU, SUG, CLT, GSO, ODF, PSK, CAE, SPA, LIB, BZM, IRQ
	BYJAC-EVING	RDU, GSO, PSK, LIB
	EVING-LOOEY	RDU, GSO, PSK, GVE, SBV, FAK, LIB
	LOOEY-JAXSN	RDU, GSO, RIC, PSK, GVE, SBV, FAK
Q62	WATSN-DAIFE	OKK, OXL, BVT, GIJ, GRR, GSH, FWA
	DAIFE-NOLNN	GSH, BVT, OKK, OXI, ROD, CRL, FWA, GIJ, DXO, GRR, PMM
	NOLNN-WEEVR	DXO, GIJ, DJB, ROD, FWA
	WEEVR-PSKUR	APE, VWV, DJB, ROD, CRL, GSH, SKY, DXO, CXR, DJB, MFD
	PSKUR-FAALS	CRL CXR DJB SKY APE DXO EWC MFD AIR ACO BSV YNG ACO
	FAALS-ALEEE	YNG ACO EWC DJB AIR
	ALEEE-QUARM	CXR JHW EWC DJB AIR ETG CIP PSB MMJ
	QUARM-BURNI	PSB JHW TON JST EWC PSB SLT REC ETG
	BURNI-MCMAN	SEG ETG TON SLT EMI

Route	Segment	DME
	MCMAN-VALLO	SEG, PSB, TON, SLT, EMI
	VALLO-RAVINE	SEG MIP RAV SLT EMI HAR ETG PSB
	RAVINE-SUZIE	SAX, EMI, RBV, MIP, PSB, LRP, ETG, PTW
	SUZIE-SARAA	LRP, SIE, SAX, PTW, ETX
Q63	DOOGIE-HAPKI	GZG VXV AZQ BKW HVQ
	HAPKI-TONIO	HVQ VXV AZQ FLM HNN
	TONIO-OCASE	HYK IIU CVG FLM
	OCASE-HEVAN	ROD IIU CVG RID VHP
Q64	CATLN-FIGEY	AHN, ATL, CAE, CEW, CSG, ELW, GRD, IRQ, JYU, LGC, MCN, MEL, MGM, MVC, ODF, PZD, RMG, SJI, SPA, TGE
	FIGEY-GREENWOOD	AHN, CAE, ELW, GRD, IRQ, MCN, ODF, SPA
	GREENWOOD-DARRL	CAE, CLT, ELW, FLO, GRD, GSO, IRQ, ODF, SPA
	DARRL-IDDA	CAE, CLT, CTF, FLO, GRD, GSO, IRQ, LIB, RDU, SDZ, SPA
	IDDA-TAR RIVER	CTF, FAK, FAY, FLO, GSO, ILM, LIB, ORF, RDU, RIC, SDZ, SPA, TYI
Q65	MGNTY-DOFFY	OMN, SRQ, LAL, ORL, CRG, PIE
	DOFFY-FETAL	OMN, LAL, OTK, ORL, CRG, AMG, PIE
	FETAL-ENEME	OMN, OTK, CRG, AMG
	ENEME-JEFOI	OTK, CRG, SAV, MCN, AMG
	JEFOI-TRASY	AMG, CRG, MCN, OTK, PZD, SAV
	TRASY-CESKI	AMG, MCN, OTK, PZD, SAV, IRQ
	CESKI-DAREE	ODF GRD HRS VXV RMG
	DAREE-LORNN	ODF GQO HRS VXV RMG
	LORNN-SOGEE	BWG, IIU, LOZ, VXV, FLM
	SOGEE-ENGRA	BWG IIU LOZ HYK FLM
	ENGRA-OCASE	CVG IIU FLM HYK
	OCASE-ROSEWOOD	FWA DQN FLM ROD APE
Q66	LITTLE ROCK-CIVKI	ELD, PBF, ARG, MEM
	CIVKI-RICKX	GOE, UJM, LIT, ARG, MEM
	RICKX-TROVE	SQS, HLI, VUZ, BNA, MEM
	TROVE-BAZOO	VXV, SYI, GOO, BNA, BWG
	BAZOO-METWO	VXV, LVT, GOO, HCH, BWG
	METWO-MXEEN	VXV, LVT, GOO, HCH, BNA
	MXEEN-ALEAN	VXV, FLM, GOO, HCH, BWG
Q67	SMTH-CEME	GQO, IIU, BWG, FLM, ODF, VXU
	CEME-IBATE	GQO, IIU, FLM, VXV
	IBATE-TONIO	IIU, FLM, BKW, VXU
	TONIO-JONEN	IIU, FLM, BKW, HNN, HVQ, VXV
	JONEN-DARYN	GQO, IIU, BWG, FLM, ODF, VXV
Q68	CHARLESTON-TOMCA	FLM, HNN, BKW, HVQ, AIR, PSK, EKN
	TOMCA-RONZZ	AIR, HNN, EKN, HVO, BKW, PSK, GVE
	RONZZ-HHOLZ	AIR, GVE, EKN, HVO, BKW, CSN, HNN, PSK
	HHOLZ-HAMME	CSN, GVE, FAK, ESL, LDN, BKW, EKN, HVO
	HAMME-CAPOE	CSN, EMI, FAK, ESL, LDN, GVE, RIC, AML, BKW, EKN
	CAPOE-OTTTO	LDN, EMI, GVE, ESL, RIC, CSN, AML
Q69	VIYAP-OLBEC	AMG, CRG, SAV
	OLBEC-ISUZO	AMG, CHS, CRG, SAV
	ISUZO-GURGE	AMG, CAE, CHS, CRG, IRQ, SAV
	GURGE-BLAAN	AMG, CAE, CHS, FLO, GRD, IRQ, SAV, SPA
	BLAAN-EMCET	CAE, CHS, FLO, IRQ, SPA, GRD
	EMCET-RYCKI	FAK, CAE, CHS, FLO, GRD, GSO, IRQ, PSK, RDU, SPA
	RYCKI-LUNDD	FAK, GSO, PSK, RDU
	LUNDD-ILLSA	FAK, GSO, HVQ, PSK, RDU
	ILLSA-EWESS	BKW, GSO, GVE, HNN, HVQ, PSK
	EWESS-RICCS	AIR, BKW, GVE, HNN, HVQ, PSK
Q70	HAILO-LAS VEGAS	BLD, BTY, EED, LAS
	LAS VEGAS-IFEYE	BLD, EED, LAS, PGS
	IFEYE-BLIPP	BLD, ILC, EED, LAS, PGS
	BLIPP-EEVUN	BLD, ILC, CDC, LAS, PGS, MLF
	EEVUN-BLOBB	BLD, ILC, CDC, MLF, PGS
	BLOBB-BAWER	BCE, ILC, MLF



Route	Segment	DME
Q71	BAWER-SAKES	FFU, DVC, BCE, ILC, DTA, HVE, JNC, PUC, MTU
	BOBBD-ATUME	FLM, AZO, BKW, VXV
	ATUME-HAPKI	FLM, AZO, BKW, VXV, HVQ
	HAPKI-KONGO	HNN, AZO, BKW, GZG, HVQ
	KONGO-WISTA	HNN, HVQ, BKW, PSK
	WISTA-GEFFS	HNN, HVQ, BKW, AIR
	GEFFS-EMNEM	AIR, BKW, EWC, HNN, HVQ
	EMNEM-PSYKO	AIR, ETG, EWC, PSB, SLT
	PSYKO-PHILIPSBURG	AIR, EMI, ETG, EWC, JHW, PSB, SLT
	HACKS-GEQUE	AIR, CKB, APE, HVQ, JPU, EKN, BKW, HNN, MGW
Q72	GEQUE-BENSH	AIR, EKN, MGW, HVQ, CKB, ESL, CSN, GVE, LDN, EMI, HNN, BKW
	BENSH-RAMAY	AML, EMI, GVE, MRB, CSN, MGW, ESL, AIR, LDN, EK
Q73	HAKMN-ZZYX	BLD, EED, GOG, LAS, PKE
	ZZYX-CORDU	PGS, BLD, EED, PKE, GOG, LAS
Q74	NATEE-BOULDER CITY	PGS, BLD, EED, LAS
	BOULDER CITY-ZAINY	ILC, BCE, PGS, BLD, EED, LAS
	ZAINY-FIZZL	ILC, BCE, PGS, BLD, CDC, LAS, MLF
	FIZZL-GARDD	BCE, PGS, BLD, MLF, TBC
	GARDD-DEANN	BCE, PGS, HVE, TBC
Q75	ENEME-TEUFL	AMG, CRG, OTK, SAV
	TEUFL-TEEM	AMG, CRG, IRQ, MCN, SAV, OTK
	TEEM-SHRIL	AMG, CAE, CHS, GRD, IRQ, MCN, SAV
	SHRIL-FISHO	CAE, CHS, GRD, IRQ, SAV, AMG
	FISHO-ILBEE	CAE, CHS, FLO, GRD, IRQ, SAV, SPA
	ILBEE-SLOJO	CAE, FLO, GRD, GSO, IRQ, SPA
	SLOJO-GREENSBORO	CAE, FLO, GRD, GSO, IRQ, PSK, RDU, SPA
	GREENSBORO-BROSK	RDU, GSO, PSK
	BROSK-DRAIK	FAK, GSO, RDU, GVE, PSK, RIC
	DRAIK-GORDONSVILLE	FAK, GSO, RDU, GVE, PSK, RIC, CSN
	GORDONSVILLE-HAMMZ	EMI, FAK, GVE, RIC, CSN
	HAMMZ-TOOBN	EMI, FAK, GVE, RIC, CSN
	TOOBN-MURPH	EMI, FAK, RBV, GVE, RIC, SIE, CSN
	MURPH-SACRI	EMI, RBV, CYN, SIE, CSN
	SACRI-STOEN	EMI, RBV, CYN, SAX, SIE, CSN
	STOEN-MODENA	EMI, RBV, CYN, SAX, SIE, JFK
	MODENA-COPES	EMI, HUO, RBV, CYN, SAX, SIE, JFK
	COPES-BIGGY	EMI, HUO, RBV, CYN, SAX, JFK, SIE
	BIGGY-SOLBERG	HUO, HNK, RBV, CYN, SAX, JFK, SIE
	SOLBERG-JERSY	HTO, HUO, HNK, RBV, CYN, SAX, JFK, SIE
	JERSY-DUEYS	HTO, HUO, HNK, RBV, CYN, SAX, JFK
	DUEYS-BIZEX	HTO, HUO, HNK, RBV, CYN, SAX, PUT, JFK
	BIZEX-GREKI	HTO, HUO, HNK, RBV, CYN, SAX, PUT, JFK, PVD
	GREKI-NELIE	HTO, HUO, HNK, RBV, BOS, SAX, JFK, PUT, PVD
	NELIE-SWALO	HTO, HUO, BOS, SAX, LFV, PUT, JFK, PVD
	SWALO-BOSTON	HTO, BOS, ACK, ENE, LFV, PUT, PVD
	BOSTON-COPLY	BOS, ACK, ENE, LFV, PUT, PVD
Q77	OCTAL-MATLK	OMN, PHK, SRQ, VKZ, PBI, LAL, FLL, ORL, TRV, DHP, PIE
	MATLK-STYMY	OMN, PHK, SRQ, PBI, LAL, ORL, TRV, PIE
	STYMY-WAKKO	OMN, PHK, SRQ, LAL, ORL, TRV, PIE
	WAKKO-MJAMS	OMN, PHK, SRQ, LAL, ORL, TRV, CRG, PIE
	MJAMS-ETORE	CRG, LAL, OMN, ORL, PIE, TRV
	ETORE-SHRKS	AMG, CRG, OMN, ORL, OTK, PIE, SAV
	SHRKS-TEUFL	AMG, CRG, MCN, OMN, OTK, SAV
	TEUFL-WIGVO	AMG, CAE, CRG, IRQ, MCN, OTK, SAV
Q78	MARUE-DUGGN	BLD, DRK, EED, LAS, PGS, PKE, TBC
	DUGGN-TOADD	ZUN, BCE, BLD, DRK, FLG, INW, LAS, PGS TBC, PKE
Q79	MCLAW-VAULT	PHK, DHP, EYW, FLL, VKZ, ZBV
	VAULT-FEMID	PHK, DHP, EYW, FLL, VKZ, ZBV, PBI, PIE, SRQ
	FEMID-WULFF	PHK, EYW, LAL, ORL, PBI, PIE, SRQ, TRV, ZBV, DHP, FLL, VKZ



Route	Segment	DME
	WULFF-MOLIE	PHK, LAL, ORL, PIE, SRQ, TRV, DHP, FLL
	MOLIE-DOFFY	CRG, LAL, OMN, ORL, PIE, SRQ, OTK
	DOFFY-EVANZ	ORL, CRG, LAL, PIE, OTK, SZW, OMN
	EVANZ-IISLY	CRG, SZW, OTK, AMG
	IISLY-YUESS	CRG, MCN, AMG, SZW, OTK
	YUESS-ATLANTA	AMG, ATL, GQO, LGC, MCN, ODF, OTK, PZD, RMG, SZW
Q80	FAREV-JEDER	BWG, IIU, FLM, VXV, LOZ, HYK
	JEDER-ENGRA	HYK, IIU, FLM, VXV, LOZ, AZQ, BWG
	ENGRA-DEWAK	HVQ, IIU, FLM, AZQ, HNN, ECB, BKW, LOZ, VXV, HYK
	DEWAK-CEGMA	ECB, BKW, FLM, AZQ, HNN, HVQ
	CEGMA-JONEN	ECB, BKW, AZQ, HNN, FLM, HVQ
	JONEN-BULVE	ECB, HVQ, FLM, BKM, HNN, AZQ
	BULVE-WISTA	ECB, HVQ, BKM, HNN, FLM
	WISTA-LEVII	HNN, HVQ, FLM, BKM, PSK, AIR, EKN
	LEVII-RONZZ	HNN, HVQ, AIR, EKN, PSK, BKM, FLM, GVE
	RONZZ-HHOLZ	GVE, HVQ, AIR, EKN, BKM, CSN, PSK, HNN
	HHOLZ-HAMME	GVE, ESL, CSN, EKN, BKM, FAK, LDN, HVQ, AIR
	HAMME-CAPOE	EMI, ESL, CSN, FAK, LDN, GVE, RIC, AML, BKM, EKN
	CAPOE-OTTO	LDN, EMI, GVE, ESL, RIC, CSN, AML
Q81	TUNSL-KARTR	ZBV, PHK, DHP, EYW, VKZ, FLL
	KARTR-FIPES	ZBV, PHK, DHP, EYW, FLL, VKZ
	FIPES-THMPR	PHK, DHP, EYW, FLL, LAL, PIE, SRQ, VKZ, ZBV
	THMPR-LEEHI	PHK, FLL, LAL, PIE, SRQ, DHP
	LEEHI-FARLU	LAL, ORL, PIE, SRQ
	FARLU-MGNTY	SRQ, LAL, ORL, PIE
	MGNTY-ENDEW	SRQ, LAL, ORL, PIE
	ENDEW-BITNY	SRQ, LAL, ORL, PIE
	BITNY-NICKI	OMN, SZW, SRQ, LAL, OTK, ORL, CRG, PIE
	NICKI-SNAPY	SZW, OMN, OTK, CRG, PIE
	SNAPY-BULZI	SZW, OMN, OTK, CRG
	BULZI-IPOKE	SZW, OTK, CRG, AMG
	IPOKE-HONID	SZW, OTK, CRG, MCN, LGC, AMG
Q82	WWSHR-DORET	AIR, APE, CRL, CXR, DJB, DKK, DXO, EWC, JHW, SLT
	DORET-JAMESTOWN	BUF, CXR, DJB, DKK, ETG, EWC, JHW, PSB, SLT
	JAMESTOWN-WAYLA	BUF, CXR, DKK, ETG, EWC, JHW, PSB, SLT, SYR
	WAYLA-VIEEW	BUF, DKK, ETG, HNK, JHW, PSB, SLT, SYR
	VIEEW-MEMMS	BUF, ETG, HNK, JHW, SAX, SLT, SYR
	MEMMS-LOXXE	HNK, HUO, SAX, SLT, SYR
	LOXXE-PONCT	HNK, HUO, SAX, SLT, SYR
Q83	JEVED-ROYCO	AMG, CHS, CRG, SAV
	ROYCO-TAALN	AMG, CHS, CRG, SAV
	TAALN-KONEY	AMG, CAE, CHS, SAV
	KONEY-WURFL	AMG, CAE, CHS, IRQ, SAV
	WURFL-JUSEE	AMG, CAE, CHS, FLO, GRD, IRQ, SAV
	JUSEE-EFFAY	CAE, CHS, FLO, GRD, IRQ, SAV, SPA
	EFFAY-SLOJO	CAE, CHS, FLO, GRD, GSO, IRQ, SPA
Q84	JAMESTOWN-AUDIL	BUF, DKK, ETG, EWC, HNK, JHW, MSS, PSB, SAX, SLT, SYR
	AUDIL-PUPPY	BUF, HNK, MSS, SAX, SYR
	PUPPY-PAYGE	HNK, MSS, PUT, SAX, SYR
	PAYGE-CAMBRIDGE	HNK, MSS, PUT, SAX, SYR
Q85	LPERD-BEEGE	OMN, ORL, SAV, CRG, AMG, CHS
	BEEGE-GIPPL	SAV, CRG, AMG, CHS
	GIPPL-ROYCO	CHS, AMG, CRG, SAV
	ROYCO-IGARY	CHS, AMG, CAE, CRG, SAV
	IGARY-PELIE	CHS, CAE, FLO, SAV
	PELIE-BUMMA	CHS, RDU, CAE, FLO, ILM
	BUMMA-KAATT	CHS, RDU, CAE, FLO, ILM
	KAATT-SMPRR	CHS, RDU, FLO, ILM
Q86	TTRUE-YORRK	BLD, BLH, EED, IPL, PKE

Route	Segment	DME
	YORRK-SCHLS	BLD, DRK, EED, PGS, PKE
	SCHLS-CUTRO	BLD, DRK, EED, PGS, TBC
	CUTRO-VALEQ	DRK, INW, PGS, TBC
	VALEQ-PLNDL	DRK, INW, PGS, TBC
Q87	PEAKY-GOPEY	PHK, DHP, EYW, FLL, VKZ, ZBV
	GOPEY-GRIDS	PHK, DHP, EYW, FLL, PBI, TRV, VKZ, ZBV
	GRIDS-TIRCO	PHK, DHP, EYW, FLL, PBI, PIE, SRQ, TRV, VKZ, ZBV, LAL, ORL
	TIRCO-MATLK	ORL, PHK, DHP, FLL, PBI, PIE, SRQ, TRV, LAL, OMN
	MATLK-ONEWY	LAL, PHK, OMN, DHP, FLL, PBI, PIE, SRQ, TRV, ORL
	ONEWY-ZERBO	LAL, ORL, PHK, OMN, CRG, PIE, TRV
	ZERBO-DUCEN	ORL, OMN, CRG, PIE, TRV, LAL, AMG
	DUCEN-OVENP	OMN, LAL, ORL, CRG, AMG
	OVENP-FEMON	OMN, LAL, ORL, CRG, AMG
	FEMON-VIYAP	OMN, OTK, ORL, CRG, SAV, AMG, CHS
	VIYAP-SUSYQ	OMN, SAV, CRG, AMG, CHS
	SUSYQ-TAALN	FLO, SAV, CRG, AMG, CHS
	TAALN-JROSS	AMG, CHS, CAE, SAV
	JROSS-RAYVO	AMG, CHS, CAE, FLO, IRQ, SAV
	RAYVO-HINTZ	CHS, CAE, FLO, ILM
	HINTZ-REDFH	CHS, CAE, FLO, ILM, RDU
	REDFH-LCAPE	CHS, CAE, FLO, ILM, RDU, GSO
Q88	HAKMN-ZZYX	BLD, EED, GOG, LAS, PKE
	ZZYX-LAKRR	PGS, BLD, EED, GOG, LAS, PKE
	LAKRR-NOOTN	PGS, ILC, BCE, BLD, CDC, EED, LAS, PKE
	NOOTN-GARDD	PGS, ILC, BCE, BLD, LAS, MLF, TBC
	GARDD-VERKN	PGS, BCE, BLD, HVE, MLF, TBC
	VERKN-PROMT	BCE, HVE, TBC
	PROMT-CHESZ	PUC, JNC, BCE, DVC, HVE, TBC
	CHESZ-SINRY	PUC, JNC, DVC, HVE, MTJ
	SINRY-ZAKRY	JNC, CHE, DBL, DVC, MTJ
	ZAKRY-YAMPA	JNC, AKO, BJC, CHE, CYS, DBL, DEN, DVV, FQF, GLL, RLG, SNY, BFF
	YAMPA-BICAR	AKO, BFF, BJC, CYS, DEN, FQF, GLL, SNY, DVV
	BICAR-CHUWY	AKO, BFF, CYS, GLL, SNY, HCT, DEN, DVV
	CHUWY-KEEFF	HCT, AKO, BFF, CYS, RAP, SNY, GLL, MCK
	KEEFF-GUDDY	ABR, HCT, BFF, DPR, ONL, RAP, SNY
	GUDDY-VIVID	ABR, DPR, ONL, RAP
	VIVID-JOYCC	ABR, DPR, FSD, ONL
	JOYCC-DKOTA	ABR, DPR, FAR, FSD, ONL, RWF
Q89	MANLE-WAKUP	GNV, OMN, LAL, PIE, TRV, ORL
	WAKUP-PRMUS	GNV, ORL, AMG, OMN, CRG, PIE, LAL, TRV
	PRMUS-OVENP	ORL, AMG, CRG
	OVENP-SHRKS	ORL, AMG, OMN, CRG, OTK, SAV
	SHRKS-YANTI	GNV, ORL, AMG, OMN, CRG, MCN, OTK, PZD, SAV
	YANTI-ATLANTA	AMG, ATL, GQO, IRQ, LGC, MCN, ODF, OTK, PZD, RMG, SAV
Q90	DNERO-ESGEE	BLD, EED, LAS, PGS, PKE
	ESGEE-AREAF	BLD, BLH, DRK, LAS, PGS, PKE, EED
	AREAF-JASSE	FLG, BCE, BLD, DRK, INW, PGS, TBC
	JASSE-NAVJO	DVC, INW, GUP, TBC, BCE, HVE, RSK, DRK, PGS
	NAVJO-YAMHA	GUP, DVC, HVE, INW, RSK, TBC
	YAMHA-DAAYE	MTJ, GUP, DVV, ALS, RSK, DEN, DVC, HGO, TBC, HVE, HBU, FQF, BJC, PUB
	DAAYE-SKWYR	AKO, ALS, BJC, DEN, DVV, FQF, GLD, HBU, HGO, LAA, PUB, GCK, GLL
	SKWYR-HUSQA	AKO, DVV, FQF, GCK, GLD, HCT, HGO, HLC, LAA, LBL, MCK, PUB, BJC, DEN, SLN
	HUSQA-VARNE	GCK, GLD, HCT, HLC, MCK, OBH, SLN
	VARNE-ATIJA	HLC, ICT, LNK, MCK, OBH, PWE, SLN, STJ, OVR
	ATIJA-LEFAM	LMN, LNK, MCI, OBH, OVR, PWE, SLN, STJ
	LEFAM-BOVEY	DSM, LMN, LNK, MCI, OVR, PWE, SLN, STJ, IRK
	BOVEY-WELKY	DSM, FOD, IRK, LMN, LNK, MCI, OVR, PWE, STJ, CID, IOW, UIN
Q92	CHUWY-KUTCH	MCK, AKO, BFF, CYS, HCT, OBH, ONL, SNY, GLL
	KUTCH-WYYTE	MCK, HCT, LNK, OBH, ONL, SNY

Route	Segment	DME
	WYYTE-MAASI	MCK, FSD, LNK, OBH, ONL, OVR, PWE
	MAASI-HANKU	DSM, FOD, FSD, LNK, MCW, OBH, ONL, OVR, PWE, LMN
	HANKU-JORDY	ALO, CID, DSM, FOD, FSD, IOW, LMN, LNK, MCW, OVR, DBQ, IRK, PWE
Q93	MCLAW-VAULT	PHK, DHP, EYW, FLL, ZBV, VKZ
	VAULT-LINEY	PHK, DHP, EYW, FLL, VKZ, ZBV, PBI
	LINEY-FOBIN	PHK, DHP, EYW, FLL, PBI, ZBV, VKZ
	FOBIN-EBAYY	OMN, PHK, DHP, EYW, FLL, LAL, PBI, PIE, TRV, VKZ, ZBV, ORL
	EBAYY-MALET	OMN, PHK, DHP, FLL, LAL, ORL, PIE, TRV, PBI
	MALET-DEBRL	AMG, OMN, CRG, LAL, ORL, PIE, TRV
	DEBRL-KENLL	AMG, CRG, LAL, ORL, PIE, OMN
	KENLL-PRMUS	AMG, OMN, CRG, ORL
	PRMUS-WOPNR	CHS, AMG, OMN, CRG, ORL, SAV
	WOPNR-GIPPL	CHS, AMG, OMN, CRG, SAV
	GIPPL-SUSYQ	OMN, SAV, CRG, AMG, CHS
	SUSYQ-ISUZO	OMN, SAV, CRG, AMG, CHS
	ISUZO-GURGE	CAE, CRG, SAV, IRQ, AMG, CHS
	GURGE-FISHO	CAE, GRD, IRQ, SAV, AMG, CHS
	FISHO-QUIWE	CHS, AMG, CAE, FLO, GRD, IRQ, SAV, SPA
Q94	WELUM-MNGGO	PGS, DRK, BLD, EED, LAS, PKE
	MNGGO-ROOLL	PGS, DRK, BCE, FLG, LAS, TBC, PKE, BLD
Q96	PURSE-DODDL	BLD, EED, LAS
	DODDL-BFUNE	BLD, EED, LAS, PGS, PKE
	BFUNE-GUNTR	ILC, BLD, EED, LAS, PGS, PKE
	GUNTR-PIIXR	ILC, BLD, CDC, LAS, PGS
	PIIXR-FIZZL	ILC, BLD, CDC, LAS, MLF, PGS
	FIZZL-BAWER	BCE, ILC, BLD, MLF, PGS
	BAWER-ROCCY	BCE, ILC, DTA, HVE
	ROCCY-SARAF	BCE, ILC, DTA, HVE, PUC
	SARAF-KIMMR	BCE, HVE, JNC, MTU, PUC
Q97	TOVAR-EBAYY	ORL, ZBV, DHP, FLL, LAL, PHK, PIE, TRV, VKZ, OMN, PBI
	EBAYY-MALET	ORL, DHP, FLL, LAL, OMN, PHK, PIE, TRV, PBI
	MALET-DEBRL	AMG, ORL, CRG, LAL, OMN, PIE, TRV
	DEBRL-KENLL	AMG, ORL, CRG, LAL, PIE, OMN
	KENLL-PRMUS	AMG, ORL, CRG, OMN
	PRMUS-WOPNR	AMG, ORL, CRG, OMN, SAV
	WOPNR-JEVED	AMG, ORL, CRG, OMN, SAV
	JEVED-CAKET	AMG, CAE, CHS, CRG, SAV
	CAKET-ELMSZ	AMG, GSO, CAE, CHS, FLO, ILM, SAV
	ELMSZ-YURCK	GSO, CAE, CHS, FLO, ILM
	YURCK-ELLDE	GSO, RDU, CHS, FLO, ILM
Q98	HAKMN-ZZYX	BLD, EED, GOG, LAS, PKE
	ZZYX-LAKRR	PGS, BLD, EED, GOG, LAS, PKE
	LAKRR-DUZIT	PGS, BCE, BLD, EED, LAS, PKE
	DUZIT-EEZY	PGS, BCE, BLD, DRK, LAS, TBC, HVE
	EEZY-PEEWE	DVC, PGS, BCE, DRK, HVE, TBC, BLD
Q99	KPASA-DOFFY	OMN, SRQ, LAL, OTK, ORL, TRV, CRG, PIE
	DOFFY-CAMJO	OMN, SZW, LAL, OTK, ORL, CRG, AMG, PIE
	CAMJO-HEPAR	SZW, OMN, OTK, ORL, CRG, SAV, AMG
	HEPAR-TEEEM	AMG, CRG, IRQ, MCN, OTK, PZD, SAV
	TEEEM-BLAAN	AMG, CAE, CHS, FLO, GRD, IRQ, MCN, SAV, SPA
	BLAAN-BWAGS	CAE, CHS, FLO, GRD, SPA, IRQ
	BWAGS-EFFAY	CAE, CHS, GRD, IRQ, SPA, FLO
	EFFAY-WNGUD	CAE, CHS, FLO, GRD, GSO, IRQ, SPA, RDU
	WNGUD-POLYY	CAE, FLO, GSO, RDU, SPA
Q103	CYNIA-PUPYY	AMG, CRG, OMN, OTK, SAV
	PUPYY-RIELE	AMG, CHS, CRG, GRD, IRQ, OTK, SAV, CAE, MCN
	RIELE-GRONK	CAE, CHS, FLO, GRD, IRQ, MCN, SAV, SPA, AMG
	GRONK-EMCET	CAE, CHS, FLO, GRD, IRQ, SAV, SPA
	EMCET-SLOJO	CAE, CHS, FLO, GSO, IRQ, SPA, GRD

Route	Segment	DME
	SLOJO-PULASKI	HVQ, FAK, CAE, FLO, GRD, GSO, PSK, RDU, SPA, IRQ
	PULASKI-ASBUR	HVQ, FAK, GSO, HNN, PSK
	ASBUR-OAKLE	HVQ, FAK, BKW, HNN, PSK
	OAKLE-PERRI	HVQ, FAK, BKW, HNN, PSK
	PERRI-PERKS	HVQ, AIR, BKW, HNN, PSK, FAK
	PERKS-RICCS	HVQ, FAK, AIR, BKW, HNN
	RICCS-EMNEM	HVQ, APE, FAK, AIR, BKW, EWC, HNN
	EMNEM-AIRRA	HVQ, APE, AIR, CXR, ETG, EWC, JHW, PSB, DKK
Q104	ACORI-CABLO	MGM, CEW, LGC, OTK, PZD, SZW
	CABLO-HEVVN	MGM, CRG, CEW, OTK, PZD, SZW
	HEVVN-LEGGT	CRG, OTK, PIE, SZW
	LEGGT-PLYER	CRG, LAL, OTK, PIE, SZW
	PLYER-SWABE	CRG, LAL, ORL, PIE, SRQ
	SWABE-ENDEW	CRG, LAL, ORL, PIE, SRQ
	ENDEW-ST PETERSBURG	CRG, LAL, ORL, PIE, SRQ
Q108	GADAY-HKUNA	CEW, JYU, MGM, SZW, RRS, PZD, MAI, OTK, GEF, MGR, TAY, AMG, GRG
Q109	KNOST-DEANR	OMN, SRQ, LAL, OTK, CRG, AMG, PIE
	DEANR-BRUTS	OMN, SZW, LAL, OTK, CRG, AMG, PIE
	BRUTS-EVANZ	SZW, OTK, CRG, PIE
	EVANZ-CAMJO	SZW, OMN, OTK, CRG, AMG, PIE
	CAMJO-HEPAR	AMG, CRG, OTK, PZD, SAV, SZW
	HEPAR-TEEEM	CHS, AMG, CRG, IRQ, MCN, OTK, PZD, SAV
	TEEEM-RIELE	CHS, AMG, CAE, IRQ, MCN, SAV
	RIELE-PANDY	CHS, AMG, CAE, FLO, GRD, IRQ, SAV
	PANDY-RAYVO	CHS, GSO, CAE, FLO, IRQ, SAV
	RAYVO-SESUE	CHS, GSO, CAE, FLO, ILM
	SESUE-BUMMA	CHS, GSO, CAE, FLO, ILM
	BUMMA-YURCK	CHS, GSO, CAE, FLO, ILM
	YURCK-LAANA	CHS, GSO, FLO, ILM, RDU
Q110	BLANS-BETIE	ARG, FAM, BNA, PXV, ENL, BWG, MEM
	BETIE-SKIDO	ARG, RMG, VUZ, BNA, BWG, GQO, PXY, MEM
	SKIDO-BFOLO	LGC, RMG, VUZ, BNA, GQO
	BFOLO-JYROD	ATL, LGC, RMG, VUZ, MGM, GQO
	JYROD-DAWWN	ATL, LGC, RMG, MCN, VUZ, SZW, MGM, OTK
	DAWWN-JOKKY	LGC, MCN, SZW, OMN, MGM, OTK, AMG
	JOKKY-AMORY	OMN, SZW, LAL, OTK, AMG, ORL, PIE
	AMORY-SMELZ	OMN, LAL, ORL, OTK, PIE, SRQ, TRV
	SMELZ-SHEEK	SRQ, OMN, PHK, TRV, LAL, ORL, PIE
	SHEEK-JAYMC	DHP, SRQ, PHK, TRV, PBI, LAL, ORL, VKZ, PIE, FLL
	JAYMC-OCTAL	DHP, SRQ, PHK, PBI, TRV, LAL, VKZ, ORL, PIE, FLL
Q113	RAYVO-CEELY	CAE, CHS, FLO, ILM
	CEELY-SARKY	CAE, CHS, FLO, ILM, RDU
Q114	NATEE-BOULDER CITY	PGS, BLD, EED, LAS
	BOULDER CITY-ZAINY	PGS, ILC, BLD, EED, LAS
	ZAINY-AHOWW	PGS, ILC, BLD, CDC, LAS, MLF
	AHOWW-BAWER	PGS, ILC, BCE, DTA, HVE, MLF, TBC
	BAWER-BUGGG	ILC, BCE, DTA, DVC, HVE, JNC, MTJ, MTU, PUC, TBC
	BUGGG-ZAKRY	MTU, RLG, JNC, DBL, EKR, DVC, HVE, PUC, MTJ
	ZAKRY-BULDG	RLG, JNC, DBL, EKR, DEN, DVV
	BULDG-COUGH	RLG, DBL, BJC, DEN, DVV, GLL, AKO, FQF
	COUGH-AVVVS	AKO, BJC, DEN, DVV, FQF, GLL, HGO
	AVVVS-BRAFF	AKO, BJC, DVV, FQF, HGO, DEN, GLL, SNY
	BRAFF-GOORE	AKO, BFF, BJC, DEN, DVV, GLD, GLL, HGO, SNY, FQF, HCT, MCK
	GOORE-AYOLE	AKO, BFF, GLD, GLL, HCT, MCK, OBH, SNY
	AYOLE-PECKS	HLC, HCT, LNK, MCK, OBH, ONL
	PECKS-LEONG	ALO, CID, DSM, FOD, HCT, IRK, LMN, LNK, MCK, MCW, OBH, ONL, OVR, PWE, STJ, IOW
Q116	VULCAN-DEEDA	CEW, LGC, MCN, MGM, PZD, RMG, SZW, VUZ
	DEEDA-JAWJA	OMN, LGC, MGM, OTK, PZD, SZW
	JAWJA-MICES	OMN, OTK, PIE, PZD, SZW

Route	Segment	DME
	MICES-DEANR	SZW, PIE, OTK, LAL, AMG, OMN
	DEANR-PATOY	PIE, OMN, OTK, ORL, LAL, AMG
	PATOY-SMELZ	PIE, TRV, OMN, ORL, LAL, SRQ
	SMELZ-SHEEK	PIE, TRV, OMN, ORL, LAL, SRQ, PHK
	SHEEK-JAYMC	PIE, TRV, ORL, PBI, LAL, FLL, SRQ, VKZ, PHK, DHP
	JAYMC-OCTAL	PIE, TRV, ORL, PBI, LAL, FLL, SRQ, VKZ, PHK, DHP
Q118	MARION-HEVAN	BVT, CVG, FLA, FWA, GIJ, GSH, IIU, MZZ, OKK, OXI, RID, ROD, SHB, TTH, VHP
	HEVAN-VOSTK	BWG, CVG, FLM, FWA, HYK, IIU, OKK, RID, ROD, TTH
	VOSTK-HELUB	BWG, CVG, FLM, HYK, IIU, LOZ, VXV
	HELUB-JEDER	BWG, CVG, FLM, HYK, IIU, LOZ, LVT, VXV
	JEDER-GLAZR	BNA, BWG, FLM, GQO, HCH, HYK, IIU, LOZ, LVT, VXV
	GLAZR-KAILL	BNA, BWG, GQO, HCH, HRS, LGC, LVT, MCN, ODF, PDK, RMG, VXV
	KAILL-ATLANTA	GQO, LGC, MCN, ODF, RMG
	ATLANTA-JOHN	AMG, ATL, LGC, MCN, ODF, OTK, PZD, RMG, SZW, GQO
	JOHN-JAMIZ	AMG, CRG, MCN, OTK, PZD, SZW
	JAMIZ-BRUTS	AMG, CRG, OTK, PIE, SZW, PZD
	BRUTS-JINOS	CRG, LAL, OMN, ORL, OTK, PIE, SRQ, SZW
	JINOS-KPASA	LAL, ORL, PIE, SRQ, TRV, OMN
	KPASA-SHEEK	PHK, LAL, OMN, ORL, PIE, SRQ, TRV, FLL
	SHEEK-CHHRI	LAL, ORL, PBI, PIE, SRQ, TRV, PHK, DHP, FLL
	CHHRI-FEMID	PHK, DHP, EYW, FLL, ORL, PBI, PIE, SRQ, TRV, ZBV, LAL, VKZ
	FEMID-PEAKY	EYM, PHK, SRQ, VKZ, PBI, FLL, DHP
Q120	ORRCA-BETBE	CZQ, ECA, ENI, FMG, HZN, LIN, LLC, MOD, MVA, OAK, PYE, RBL, SAC, SDO
	BETBE-ZORUN	FMG, HZN, MVA, SDO
	ZORUN-GALLI	BAM, FMG, HZN, MVA, SDO
	GALLI-JAJAY	BAM, FMG, LLC, MVA, REO
	JAJAY-TRAKY	BAM, BQU, BVL, ELY, LCU, LLC, MLD, MVA, TWF
	TRAKY-PROXI	BVL, ELY, IDA, LCU, MLD, PIH, TCH
	PROXI-BIG PINEY	BOY, BPI, BVL, DBS, IDA, LCU, MLD, OCS, PIH, TCH
	BIG PINEY-JUGIV	BOY, BPI, CZI, DDY, OCS
	JUGIV-HIKOX	BOY, BPI, CZI, DDY, OCS
	HIKOX-JASTI	ABR, ANW, BOY, CKW, CZI, DDY, DPR, GCC, ONL, PHP, RAP, TST
	JASTI-UFFDA	ABR, ANW, BRD, DPR, FSD, GER, ONL, PHP, RAP, RWF
Q121	PARZZ-POCATELLO	BVL, BAM, LCU, MLD, PIH, BOI, TCH, IDA, DBS
	POCATELLO-SWTHN	MLD, PIH, DBS, IDA, BPI, DNW, BOY, BIL, BZN, DDY, MLS, CZI, GCC, DIK, TCH
Q122	MOGEE-MACUS	LIN, OAK, ECA, PYE, HNW, MOD, SAC, SWR, FMG, HZN, LLC, MVA
	MACUS-MCORD	LLC, BAM, FMG, MVA, SDO, HZN
	MCORD-LUCIN	BVL, TCH, PIH, LCU, ELY, MLD, TWF, SDO, BAM, MVA, BQU, FMG, LLC
	LUCIN-BEARR	PIH, TCH, BVL, MLD, FFU, LCU, IDA
	BEARR-KURSE	PIH, TCH, BVL, LCU, MLD, OCS, BPI, CKW, MTU, BOY, CHE, RLG, CYS, BFF, CZI, DDY, GLL
	KURSE-O'NEILL	BFF, CYS, CDR, SNY, AIA, HCT, ONL, TDD, OBH, CUZ, FSD
	O'NEILL-FORT DODGE	YKN, OBH, ONL, OFK, FSD, SUX, FOD, OVR, SPW, MCW, DSM
Q123	PARZZ-COKEE	BIL, MLS, GGW, LWT, HLN, HIA, BZN, DBS, IDA, LKT, PIH, MLD, LCU, BOI, BAM, BVL
Q124	MOGEE-MACUS	LIN, OAK, ECA, PYE, HNW, MOD, SAC, SWR, FMG, HZN, LLC, MVA, BAM
	MACUS-MCORD	FMG, LLC, BAM, MVA, HZN, SDO
	MCORD-SLOWN	BQU, SDO, BAM, MVA, FMG, LLC, HZN
	SLOWN-FASTE	BQU, SDO, BAM, BVL, TWF, LCU, ELY, FFU, DTA
	FASTE-BONNEVILLE	TCH, FFU, LCU, DTA, BVL, ELY
	BONNEVILLE-WAATS	TCH, OGD, LCU, DTA, BVL, FFU
Q125	PARZZ-WLLES	GTF, LWT, CTB, HLN, BZN, DLN, HIA, IDA, LKT, DBS, PIH, MLD, LCU, BVL, BOI, BAM
Q126	TIPRE-INSLO	MVA, TPH, LLC, HZN, CZQ, ECA, FMG, LIN, MOD, OAK, OAL, PYE, SAC, ENI
	INSLO-CHUKR	MVA, ILC, TPH, HZN, OAL
	CHUKR-TTOES	MVA, DTA, ILC, BQU, TPH, BVL, EHK, ELY, OAL
	TTOES-GAROT	DTA, ILC, BVL, FFU, EHK, ELY, MLF
	GAROT-KREYK	DTA, BVL, FFU, TCH
	KREYK-DRRSI	DTA, BVL, FFU, HVE, PUC, TCH
	DRRSI-LBATO	MTU, HVE, PUC
	LBATO-BASNN	CHE, MTU, EKR, PUC, VEL
	BASNN-BRAFF	GLL, CHE, DBL, MTU, JNC, EKR, BJC, BQZ, DEN, DVV, FQF, RIL, RLG, SNY, VEL



Route	Segment	DME
Q128	SYRAH-JSICA	CZQ, ECA, LIN, LLC, MOD, MVA, OAK, OAL, PYE, SAC, TPH.
	JSICA-TABLL	MVA, OAL, TPH, ILC, CDC, DTA, ELY, MLF, BCE, HVE, PIC, JNC, DVC, MTJ, MTU
	TABLL-EDLES	BCE, CDC, DTA, DVC, FFU, HVE, ILC, JNC, MLF, MTJ, MTU, PUC.
	EDLES-FLOOD	JNC, PUC, HVE, MTU, DVC, HBU, MTJ, RSK, EKR, ETL, ALS, RLQ, FQF, HGO, PUB, BJC, LAA
	FLOOD-ZAROS	AKO, BJC, DEN, FCS, FQF, DVV, GCK, GLD, HGO, LAA, LBL, PUB.
	ZAROS-VEGUC	EOS, GCK, GLD, HLC, ICT, IFI, LAA, LBL, MMB, OKM, PER, PUB, TUL
	VEGUC-VLUST	EOS, ICT, OKM, PER, RZC, SGF, TUL.
	VLUST-ECIGE	ARG, EOS, LIT, OKM, RZC, SGF, SQS, TUL.
	ECIGE-MUDHO	ARG, LIT, MEM, SQS.
	MUDHO-JILLS	ARG, JYU, MEI, MEM, MGM, MHZ, SQS, VUZ.
Q130	SYRAH-JSICA	CZQ, ENI, FMG, LIN, MOD, MVA, OAK, OAL, PYE, SAC, TPH
	JSICA-REANA	BLD, CDC, DTA, ELY, ILC, MLF, MVA, OAL, TPH
	REANA-ROCCY	BCE, CDC, DTA, MLF, HVE, TBC, PUC, ILC
	ROCCY-HASSL	BCE, DTA, DVC, HVE, PUC, TBC
	HASSL-TAHIB	BCE, DVC, GUP, HVE, RSK, TBC
	TAHIB-DIXAN	ABQ, ACH, ALS, DVC, FTI, GUP, RSK
	DIXAN-MIRME	ABQ, ACH, CIM, FTI, TCC, TXO
	MIRME-PANHANDLE	ACH, CIM, LBL, PNH, TCC, TXO
Q132	WEBGO-ANAHO	LLC, HZN, FMG, SAC, SWR, LIN
	ANAHO-MYBAD	LLC, HZN, FMG, SDO
	MYBAD-ZERAM	LLC, BAM, REO, MVA, SDO
	ZERAM-MAGPY	LLC, SDO, BAM, REO, MVA, FMG
Q134	DUGLE-TATOO	MOD, SAC, CZQ, ECA, LIN, OAL, MVA, TPH, LLC
	TATOO-JULIK	MVA, OAL, TPH, ILC, DTA, BVL, CDC, ELY, MLF, BCE, HCE
	JULIK-HERSH	BCE, MLF, DTA, HVE, CDC, TCH, PUC, MTU
	HERSH-VOAXA	HVE, PUC, MTU, JNC, MTJ, EKR, RIL, DBL, RLQ, FQF
Q135	JROSS-PELIE	CAE, CHS, FLO, SAV
	PELIE-ELMSZ	RDU, CAE, CHS, FLO, ILM
	ELMSZ-RAPZZ	RDU, CAE, CHS, FLO, ILM
Q136	CRLES-GDGET	BVL, DTA, EHK, ELY, ILC, MLF, FFU
	GDGET-TRALP	BCE, BVL, DTA, EHK, FFU, HVE, ILC, MLF, TCH
	TRALP-MANRD	BCE, DTA, EHK, FFU, HVE, JNC, MTU, PUC, BVL, MLF, TCH
	MANRD-WEEMN	DVC, FFU, HVE, JNC, MTJ, MTU, PUC, EKR
	WEEMN-ELLFF	EKR, HVE, JNC, MTJ, MTU, PUC, DVC, FFU
	ELLFF-VOAXA	EKR, CHE, DBL, FQF, MTJ, MTU, RIL, RLQ
	VOAXA-COUGH	BJC, CYS, DBL, DEN, DVV, FQF, GLL, RLQ, CHE, AKO
	COUGH-BIIKE	AKO, BJC, CYS, DEN, DVV, FQF, GLD, GLL, HGO, SNY, HCT, TXC
	BIIKE-ZIRKL	AKO, BJC, CYS, DEN, FQF, GLD, GLL, HCT, HGO, HLC, MCK, SNY, TXC, DVV
	ZIRKL-KAWWA	GRI, AKO, GLD, HCT, HLC, LNK, MCK, OBH, SLN, SNY, ONL
	KAWWA-SYTHH	GRI, HCT, HSI, LNK, MCK, OBH, PWE, HLC, ONL, SLN
	SYTHH-AYEGI	HSI, LNK, OBH, OVR, PWE, GRI
	AYEGI-TURCK	LMN, LNK, OBH, OVR, PWE, STJ, DSM
	TURCK-WRNCH	DSM, LMN, LNK, OVR, STJ, PWE
	WRNCH-BVEEE	DSM, IRK, LMN, LNK, OVR, PWE, STJ
	BVEEE-HIBAV	DSM, IRK, LNK, OVR, PWE, STJ, IOW, CID
Q138	HIBAV-BAAACN	ALO, CID, DSM, IOW, IRK, LMN, OVR, STJ, PWE
	WILLIAMS-FIMUV	ENI, RBL, MXW, PYE, ECA, ILA, LIN, SAC, FMG, SWR, HZN
	FIMUV-JENSA	FMG, RBL, HZN, LIN, SAC, LLC
	JENSA-PUHGI	HZN, BAM, FMG, MVA, SDO, LLC
	PUHGI-ROOHZ	REO, LLC, BAM, SDO, BQU
	ROOHZ-PARZZ	PIH, BVL, LCU, BAM, BQU, REO, SDO, LLC
	PARZZ-UROCO	BOY, MLD, IDA, DBS, BPI, PIH, BVL, TCH, LCU, BAM
	UROCO-RICCO	CZI, DDY, BOY, RLY, COD, BPI, DA, DBS, MLD
	RICCO-MOTLY	DIK, GCC, RAP, DPR, CZI, DDY, BOY, SHR
	MOTLY-DKOTA	ABR, DIK, DPR, FAR, FSD, GCC, RAP, RWF
	DKOTA-WELOK	ABR, BRD, DLH, FAR, GEP, FSD, RWF
	WELOK-CESNA	BRD, DLH, FAR, FGT, GEP, ODI, RWF
	CESNA-GUUME	BRD, DLH, FGT, GEP, ODI
	GUUME-SNARG	BRD, DLH, DLL, FGT, GEP, ODI



Route	Segment	DME
Q140	SNARG-SAULT STE MARIE	ASP, BRD, DLH, DLL, FGT, GEP, GRB, ODI, SAW, SSM, TVC
	WOBED-GETNG	HUH, SEA, OLM, EPH, MWH
	GETNG-CORDU	GEG, EPH, PUW, MWH
	CORDU-PETIY	MLP, GEG, PUW, MSO
	PETIY-CHOTE	CTB, MSO, MLN, GTF
	CHOTE-LEWIT	GTF, CTB, LWT, BZN
	LEWIT-SAYOR	LWT, GGW, MLS, BIL
	SAYOR-WILTN	DIK, BIS, MOT, ISN
	WILTN-TTAIL	DVL, JMS, GFK, PKD
	TTAIL-CESNA	BRD, AXN, PKD, GEP, FGT, DLH
	CESNA-WISCN	BAE, BRD, DLH, DLL, FGT, GEP, GRB, ODI
	WISCN-EEGEE	ODI, DLL, BAE, GRB, SAW
	EEGEE-DAYYY	ASP, BAE, DLL, DXO, FNT, GRB, VIO, ODI, PMM, SAW, SSM, TVC
	DAYYY-US CANADIAN BORDER	ASP, DXO, FNT, SSM, TVC
	AHPAH-HANKK	BUF, DKK, ETG, HNK, JHW, SLT, SYR
	HANKK-BEEPS	BUF, DKK, HNK, SLT, SYR
	BEEPS-EXTOL	BUF, HNK, SLT, SYR
	EXTOL-MEMMS	BUF, HNK, SLT, SYR
	MEMMS-KODEY	HNK, HUO, SAX, SLT, SYR
	KODEY-ARKKK	HNK, HUO, SAX, SLT, SYR
	ARKKK-RODYY	HNK, HUO, JFK, SAX, SLT, SYR
	RODYY-YODAA	HNK, HTO, HUO, JFK, RBV, SAX
Q142	METOW-MULLAN PASS	EPH, GEG, MWH, SEA, PUW, MQG, MLP
	MULLAN PASS-KEETA	FCA, LKT, CTB, PUW, MQG, MLP
	KEETA-OKVUJ	CTB, HLN, GTF, BZN, LWT, HIA, DLN
Q144	OKVUJ-KIXCO	BIL, MLS, GGW, DIK
	ZIRAN-ZOOMR	OLM, PSC, PDT, GEG, EPH, SEA, MWH
	ZOOMR-BLOWS	PUW, MQG, MLP, FCA
	BLOWS-KEETA	FCA, CTB, HLN, CPN, LKT
Q145	KEETA-LEWIT	HLN, GTF, CTB, HVR, LWT, BZN
	KONGO-CHARLESTON	BKW, FLM, HNN, HVQ, PSK
	CHARLESTON-CLNTN	AIR, APE, BKW, EWC, FLM, HNN, HVQ
Q146	CLNTN-FOXEE	AIR, APE, CXR, DJB, DKK, EWC, HNN, HVQ, JHW
	CASHS-BLUNT	GEG, MWH, EPH, LTJ, SEA, OLM
	BLUNT-DIPHU	MLP, FCA, PUW
	DIPHU-CUSDA	DLN, HLN, HIA
	CUSDA-ZERZO	BZN, HLN, GFT, HIA
	ZERZO-KIXCO	BIL, MLS, GGW, LWT, ISN
	KIXCO-TIMMR	ISN, DIK, DPR, ABR, MOT
Q148	TIMMR-SMERF	FAR, JMS, GFK, HON, RWF, ATY
	SMERF-HUFFR	RWF, ATY, HON, FAR, BRD, AXN, GEP, FCM
	STEVs-ZAXUL	ELN, EPH, OLM, SEA, LTJ
	ZAXUL-FINUT	EPH, MWH, PDT, GEG, MLP, DNJ
	FINUT-WEDAK	MLP, DNJ, LKT, MWH, EPH, PDT, GEG, BZN, DLN, HIA
	WEDAK-WAIDE	BZN, DLN, HIA, DBS, PIH, LKT
	WAIDE-JUGIV	DBS, PIH, BPI, BOY, BIL, DNW, BZN, DLN, JDA, OCS, CZI, CKW, DDY
	JUGIV-MEDICINE BOW	OCS, CKW, DDY, CZI, BOY, BPI, CYS, BFF, DVV, GLL
	MEDICINE BOW-MOCTU	CYS, BFF, DVV, CKW, GLL, DDY, BJC, FQF, BVR, SNY, DEN, AKO
	MOCTU-LEWOY	GLL, SNY, BFF, DVV, DEN, AKO, FQF, CYS, HGO, GLD, HCT, MCK, BVR
	LEWOY-CUGGA	AKO, BVR, HGO, GLD, HCT, MCK, LAA, SNY, GLL, FQF, BFF, DVV, BJC, DEN, CYS, HCT, HLC, GCK
	CUGGA-PENUT	HLC, GCK, LBL, GLD, HCT, MCK, LAA, SLN
	PENUT-KIRKE	SLN, LBL, MMB, GCK, GLD, MCK, HLC, PER, ICT
Q150	KIRKE-MORRR	ICT, SNL, GCK, PER, HLC, IFI, TUL, OKM
	MORRR-BARTLESVILLE	IFI, IRW, PER, TUL, OKM, EOS, SLN, ICT, BUM
	STEVs-ZAXUL	ELN, EPH, OLM, SEA, LTJ
	ZAXUL-LEZLE	EPH, PDT, GEG, MWH, BKE
	LEZLE-BAXGO	DNJ, MLP, BKE, LKT
	BAXGO-LAMON	DLN, IDA, HIA, PIH, BZN, DBS, LKT
	LAMON-GANNE	BZN, BPI, DNW, BOY, OCS

Route	Segment	DME
	GANNE-DDRTH	DDY, CKW, CZI, CYS, CHE, GLL, MBW, RLG
	DDRTH-YAMPA	CHE, HGO, BFF, DVV, AKO, GLL, FQF, BJC, CYS, DEN, RLG, CKW, DDY, SNY
	YAMPA-BIIKE	BFF, AKO, DVV, GLL, RLG, DEN, LAA, HGO, FQF, BJC, CYS, PUB, GLD, SNY
	BIIKE-DUUZE	BFF, AKO, DVV, GLL, DEN, LAA, GCK, HGO, MCK, LBL, HCT, BJC, FQF, CYS, PUB, GLD, HLC, SNY
	DUUZE-EXHAS	HGO, MCK, AKO, LBL, HCT, LAA, GCK, HLC, GLD
Q152	SUNED-LEZLE	EPH, MWH, PDT, PSC, YKM, GEG, BKE
	LEZLE-WEDAK	DNJ, MLP, LKT
	WEDAK-IKFOM	BZN, HIA, DBS, IDA, HLN, GTF, BIL, BOY, LWT
	IKFOM-WUVUT	BIL, BOY, MLS, RLY, DDY
	WUVUT-O'NEILL	RAP, DPR, BFF, ONL, ANW, TDD
Q154	WANTA-JELTI	SEA, OLM, LTJ, BTG, PDT, YKM, MWH, EPH, IMB, DSD
	JELTI-HOVEL	DNJ, BKE
	HOVEL-VELUY	REO, BOI
	VELUY-BURLEY	DBS, IDA, PIH
	BURLEY-PIMIE	IDA, PIH, DBS, LCU, MLD
	PIMIE-NAGNE	TCH, BVL, FFU
	NAGNE-BONGO	FBR, OCS
	BONGO-PITMN	EKR, JNC, CHE, RLG
	PITMN-TAYLR	MTJ, DBL, HBU
	TAYLR-GOSIP	PUB, ALS, DEN, DVV, FQF, HGO
	GOSIP-KENTO	LAA, CIM, GCK
	KENTO-NOSEW	TCC, PNH, TXO, GCK, LBL, MMB
	NOSEW-BOWIE	IFI, SPS, PNH, TXO, ABI, MQP, FUZ, TTT, ADM
Q156	STEVZ-ZAXUL	SEA, YKM, MWH, LTJ, ELN, PDT, GEG
	ZAXUL-FINUT	SEA, LTJ, EPH, PDT, GEG, OLM, MWH, MLP
	FINUT-TUFFY	GEG, MLP, FCA, GTF, HLN, BZN
	TUFFY-UPUGE	HLN, MLP, FCA, GTF, DLN, BZN
	UPUGE-HEXOL	HLN, MLP, FCA, GTF, DLN, BZN
	HEXOL-SWTHN	CZI, BIL, MLS, GGW, GCC, DLN, BZN, DIK, GTF, LWT, HLN
	SWTHN-JELRO	RAP, MLS, GCC, DPR, DIK
	JELRO-KEKPE	RAP, ABR, MLS, DIK, DPR
	KEKPE-UFFDA	RWF, ABR, FGT, GEP, FAR, FSD, DIK, DPR
	UFFDA-HSTIN	FRM, RWF, MCW, ABR, FGT, GEP, ODI, FSD, MKT, FOD
	HSTIN-ZZIPR	ALO, FGT, GEP, MCW, CID, RST, FRM
Q158	NTELL-PPARK	AVE, CZO, ECA, EHF, LIN, MOD, SAC
	PPARK-TRTIS	AVE, BTY, CZO, EHF, HEC, MOD, OAL, PMD
	TRTIS-BIKKR	BTY, OAL, PMD
	BIKKR-MYCAL	BLD, BTY, HEC, OAL, PMD
	MYCAL-JEDNA	BLD, BTY, EED, LAS, OAL, PGS, PMD
Q160	SHVVR-FAANG	AVE, CZQ, ECA, EHF, LIN, MOD, SAC
	FAANG-RIVVO	AVE, BTY, CZQ, EHF, MOD, OAL, PMD
	RIVVO-BIKKR	BTY, OAL, PMD
Q162	NTELL-CABAB	AVE, CZO, ECA, EHF, LIN, MOD, MVA, SAC
	CABAB-VIKSN	AVE, BTY, CZO, ECA, EHF, LIN, MOD, MVA, OAL
	VIKSN-KENNO	AVE, BLD, BTY, ILC, MOD, MVA, OAL
	KENNO-ESSAA	BLD, BTY, ILC, MVA, OAL, PMD
	ESSAA-TUMBE	BLD, BTY, ILC, MVA, OAL, PMD
	TUMBE-MYCAL	BLD, BTY, HEC, ILC, LAS, MVA, OAL, PMD
Q164	NTELL-CABAB	AVE, CZQ, EHF, LIN, MOD, MVA, OAL, SAC
	CABAB-KICHI	AVE, BTY, CZQ, EHF, ILC, LIN, MOD, MVA, OAL, TPH
	KICHI-KATTS	ILC, LAS, MVA, OAL, TPH
	KATTS-KITTN	BLD, CDC, DTA, ILC, LAS, MVA, OAL, TPH, TQQ
	KITTN-ROCCY	BCE, BLD, CDC, DTA, ELY, HVE, ILC, MLF, MVA, PUC, TBC
Q166	VIKSN-UHILL	BTY, OAL, PMD, TPH
	UHILL-BIKKR	BTY, OAL, PMD, TPH
Q168	FNNDA-SHIVA	BLD, BLH, EED, PGS, PKE, IPL, LAS
	SHIVA-KRINA	BLD, BLH, DRK, EED, LAS, PGS, PKE
	KRINA-JASSE	FLG, BLD, DRK, INW, LAS, PGS, TBC
Q172	YUTEE-BWAGS	GSO, CAE, CHS, FLO, GRD, SPA, IRQ

Route	Segment	DME
	BWAGS-HINTZ	GSO, CAE, CHS, FLO, GRD, ILM, IRQ, SPA
	HINTZ-CEELY	GSO, CAE, CHS, FLO, ILM
	CEELY-OKNEE	GSO, CAE, CHS, FLO, ILM
	OKNEE-KAATT	GSO, CAE, CHS, FLO, ILM
	KAATT-RAPZZ	GSO, FLO, ILM
<b>Q406</b>	BROADWAY-DBABE	JFK, SAX, FJC, RBV, ARD, SBJ, STW, SIE, HTO, BWZ, CYN, HNK
	DBABE-BASYE	CMK, HTO, BDR, CYN, LGA
	BASYE-TRIBS	RBV, HTO, BDR, CYN, PWL, CMK, JFK, HNK
	TRIBS-BIGGO	SAX, HTO, BAF, BDR, PUT, IGN, CTR, HFD
	BIGGO-BARNES	HUO, HTO, IGN, BAF, HFD, CTR, BOS
<b>Q409</b>	ENEME-PUPYY	AMG, CRG, OTK, SAV
	PUPYY-ISUZO	GRD, AMG, CHS, CRG, OTK, SAV
	ISUZO-KONEY	GRD, AMG, CAE, CHS, SAV
	KONEY-JROSS	GRD, AMG, CAE, CHS, SAV
	JROSS-SESUE	RDU, GRD, CAE, CHS, FLO, SAV, ILM
	SESUE-OKNEE	RDU, GRD, CHS, FLO, ILM, CAE
	OKNEE-MRPIT	RDU, GRD, CHS, FLO, ILM, CAE
<b>Q436</b>	EMMMA-DIXSN	DXO, PMM, CRL, FNT, LAN
	DIXSN-BOOTT	CRL, ECK, GRR, FNT, SVM
	BOOTT-RRONS	PSI, ECK, CRL, CXR, DXO
	RRONS-YARRK	OJB, DKK, ECK, CXR, DXO
	YARRK-CHAAP	DJB, DKK, BUF, ERI, CXR
	CHAAP-RAAKK	DKK, SLT, BUF, ETG, JHW
	RAAKK-HERBA	DKK, ETG, BFD, PSB, JHW
	HERBA-REXXY	OKK, EGT, SLT, PSB, ELZ
	REXXY-REBBL	BUF, ETG, FQM, HNK, PSB
	REBBL-MTCAF	CFB, ULW, FQM, SAX, HUO
	MTCAF-DGRAF	CFB, SYR, SLT, HNK, HUO
	DGRAF-YYOST	JFK, SAX, LVZ, HNK, HUO
	YYOST-LAAYK	JFK, SLW, LVZ, HNK, HUO
	LAAYK-COATE	BWZ, RBV, LVZ, HNK, HUO
<b>Q438</b>	RUBY-BERYS	ASP, CRL, DXO, FNT, GRR, PMM
	BERYS-TWIGS	CRL, FNT, CXR, DXO, DJB
	TWIGS-JAAJA	DKK, ECK, CXR, JHW, DJB
	JAAJA-ICHOL	DKK, BUF, CXR, JHW
	ICHOL-FARGN	DKK, BUF, CXR, JHW, SLT
	FARGN-RAAKK	DKK, BUF, ETG, JHW, SLT
<b>Q440</b>	HUFFR-IDIOM	BAE, BRD, DLL, FGT, GER, GRB, ODI, RWF
	IDIOM-DEANI	BAAE, DLL, GRB, PMM, TVC
	DEANI-SLLAP	ASP, GRB, PMM, TVC
	SLLAP-BERYS	ASP, GRB, PMM, TVC
	BERYS-TWIGS	DXO, CRL, FNT, DJB, CXR
	TWIGS-JAAJA	JHW, DKK, ECK, DJB, CXR
	JAAJA-ICHOL	JHW, DKK, CXR, BUF, SLT
	ICHOL-FARGN	JHW, DKK, CXR, BUF, SLT
	FARGN-RAAKK	JHW, DKK, ETG, BUF, SLT
<b>Q448</b>	POTTSTOWN-LANNA	CYN, HUO, ETX, JFK, SIE, STW
	LANNA-DBABE	SIE, SBJ, BWZ, FJC, JFK, CYN, ARD, STW, HTO, SAX
	DBABE-BASYE	CYN, LGA, BDR, CMK, HTO
	BASYE-TRIBS	CYN, RBV, BDR, PWL, HTO, HNK, CMK, JFK
	TRIBS-BIGGO	PUT, SAX, BAF, BDR, HTO, HFD, IGN, CTR
	BIGGO-BARNES	PUT, SAX, BAF, BDR, HTO, HFD, IGN, CTR
<b>Q475</b>	COPLY-SCUPP	BOS, ACK, LFV, ENE, PUT, PVD
	SCUPP-CANAL	BOS, ACK, LFV, ENE, PUT, PVD
	CANAL-U.S. CANADIAN BORDER	GNSS REQUIRED
<b>Q480</b>	ZANDR-BELLAIRE	APE, CXR, JPU, CTW, DJB, HLG, EWC, AIR, HNN
	BELLAIRE-LEJOY	APE, AIR, EWC, HLG, CTW, AGC, MGW, IHD, JST, PSB
	LEJOY-VINSE	JST, PSB, EWC, GRV, IHD, REC, AIR, EMI, ETG, SLT, THS
	VINSE-BEETS	EMI, CSN, ETG, SLT, THS, HAR

Route	Segment	DME
	BEETS-HOTEE	EMI, CSN, HAR, SLT, THS, SIE, LRP, RAV, PSB, RBV
	HOTEE-MIKYG	EMI, PSB, RBV, RAV, LRP, PTW, HUO, SIE, HNK, SAX
	MIKYG-SPOTZ	FJC, SIE, CYN, LRP, SAX, JFK, PTW, ETX, EMI
	SPOTZ-CANDR	FJC, STW, CYN, ETX, LVZ, RBV, SBJ
	CANDR-JEFFF	JFK, STW, BWZ, SAX, SBJ, HNK, CYN
	JEFFF-KINGSTON	RBV, STW, CMK, HNK, SAX, JFK, HUO, IGN, RBV
	KINGSTON-LESWL	PUT, RBV, CMK, HNK, HUO, SAX, HTO, PVD
	LESWL-BARNES	BAF, SAX, JFK, HTO, PVD, HFD, HUO, BOS
	BARNES-KENNEBUNK	EEN, BOS, HFD, HTO, PUT, CTR, BAF, GDM, MHT, LWM, CON, LFV, ENE, PSM
Q806	MILLINOCKET-VIGDU	BGR, HUL, MLT, PQI
Q812	TIMMR-WELOK	BUF, DKK, JHW, SLT
	WELOK-CEWDA	BUF, DKK, JHW, SLT, SYR
	CEWDA-ZOHAN	ASP, BAE, CRL, DLL, DXO, FNT, GRB, PMM, SAW, TVC
	ZOHAN-U.S. CANADIAN BORDER	ASP, CRL, DKK, DXO, FNT, PMM, SSM, TVC
	KELTI-AHPAH	BUF, DKK, JHW, SLT, SYR
	AHPAH-GOATR	BUF, DKK, HNK, JHW, SLT, SYR
	GOATR-FABEN	BUF, HNK, SLT, SYR
	FABEN-LOXXE	BUF, ETG, HNK, HUO, SAX, SLT, SYR
	LOXXE-ARKKK	BUF, ETG, HNK, HUO, SAX, SLT, SYR
	ARKKK-STOMP	ETG, HNK, HUO, JFK, RBV, SAX, SLT, SYR
	STOMP-MSLIN	HNK, HUO, JFK, RBV, SAX
	MSLIN-GAYEL	CYN, HNK, HTO, HUO, JFK, RBV, SAX
Q816	HOCKE-US CANADIAN BORDER	ASP, CRL, DXO, FNT
	KELTI-AHPAH	BUF, DKK, JHW, SLT, SYR
	AHPAH-GOATR	BUF, DKK, HNK, JHW, MSS, SLT, SYR
	GOATR-ARNII	BUF, HNK, HUO, MSS, PUT, SLT, SYR
	ARNII-HANAA	HNK, HUO, MSS, PUT, SYR
Q818	FLINT-US CANADIAN BORDER	ASP, DXO, FNT, GRR, CRL
	WOZEE-KELIE	BUF, DKK, ETG, JHW, SLT, SYR
	KELIE-VIEEW	BUF, DKK, ETG, HNK, JHW, SLT, SYR
	VIEEW-BINGHAMTON	BUF, ETG, HNK, HUO, JHW, SAX, SLT, SYR
	BINGHAMTON-BUFFY	CYN, HNK, HUO, SAX, SLT, SYR
	BUFFY-STOMP	CYN, HNK, HUO, JFK, RBV, SAX, SYR
	STOMP-MSLIN	CYN, HNK, HUO, JFK, RBV, SAX
	MSLIN-GAYEL	CYN, HNK, HTO, HUO, JFK, RBV, SAX
Q822	FLINT-U.S. CANADIAN BORDER	ASP, CRL, DXO, FNT, GRR
	HOZIR-GONZZ	BUF, DKK, ETG, HNK, HUO, JHW, MSS, SLT, SYR
	GONZZ-PUPPY	BUF, HNK, HUO, MSS, SAX, SLT, SYR
	PUPPY-PAYGE	HNK, HUO, MSS, PUT, SAX, SYR
	PAYGE-CAMBRIDGE	BOS, HNK, HUO, MSS, PUT, SAX, SYR
	CAMBRIDGE-KENNEBUNK	BGR, BOS, ENE, HUO, LFV, PUT, PVD, SAX
	KENNEBUNK-AJJAY	BGR, BOS, ENE, LFV, MLT, PSM, PUT
	AJJAY-ALLEX	BGR, BOS, ENE, LFV, MLT, PNN
Q824	FLINT-HOCKE	ASP, CRL, DXO, FNT, VIO
	HOCKE-US CANADIAN BORDER	ASP, CRL, DXO, FNT
Q842	All segments	GNSS required
Q844	SYRACUSE-US CANADIAN BORDER	BUF, HNK, SYR, MSS
Q848	SLLAP-HHIPP	ASP, CRL, DJB, DXO, GRR, PMM, TVC
	HHIPP-KARIT	ASP, DJB, DXO, FNT
	KARIT-U.S. CANADIAN BORDER	ASP, DJB, DXO, FNT
Q905	HOCKE-SIKBO	ASP, BUF, CRL, CXR, DKK, DXO, FNT, JHW
Q907	POSTS-PADDE	CRL, DXO, ECK, FNT, FWA, GIJ, GRR, GSH, OXI, PMM
	PADDE-SALEM	CRL, DJB, DXO, ECK, FNT, FWA, GIJ, GRR, GSH, PMM
	SALEM-US CANADIAN BORDER	CRL, CXR, DJB, DKK, DXO, ECK, FNT, VIO

Route	Segment	DME
Q913	CABCI-TOPPS	BGR, ENE, HUL, LEB, ML T, MSS, PNN, PQI
Q917	SAULT STE MARIE-U.S. CANADIAN BORDER	ASP, SAW, SSM
	HOZIR-WOZEE	BUF, DKK, JHW, SLT
Q923	HOCKE-KARIT	ASP, CRL, DXO, FNT
	KARIT-DUTEL	ASP, CRL, DXO, FNT
Q935	MONEE-HOCKE	ASP, CRL, DXO, FNT, GRR, PMM
	HOCKE-U.S. CANADIAN BORDER	ASP, CRL, DXO, FNT
	WOZEE-HANKK	BUF, DKK, HNK, JHW, SLT, SYR
	HANKK-JOSSY	BUF, DKK, HNK, JHW, SLT, SYR
	JOSSY-AUDIL	BUF, HNK, SAX, SLT, SYR
	AUDIL-FABEN	BUF, HNK, SAX, SLT, SYR
	FABEN-PONCT	HNK, HUO, JFK, SAX, SLT
	PONCT-GARDNER	BOS, ENE, HNK, HUO, JFK, LFV, PUT, PVD, SAX
	GARDNER-BOSTON	ACK, BOS, ENE, LFV, PUT, PVD
Q937	WAYGO-KRAZZ	BUF, HNK, MSS, SYR
Q947	REVEN-TOPPS	BGR, ENE, HUL, MLT, PQI
	TOPPS-CUZWA	BGR, HUL, MLT, PQI
	CUZWA-DUVOK	BGR, HUL, MLT, PQI
Q951	POSTS-PADDE	CRL, DXO, FNT, FWA, GIJ, GRR, GSH, OXI, PMM
	PADDE-SALEM	CRL, DJB, DXO, FNT, FWA, GIJ, GRR, GSH, PMM
	SALEM-U.S. CANADIAN BORDER	CRL, CXR, DJB, DKK, DXO, FNT
	DAVDA-SAVAL	ART, BTV, MSS, SLK, SYR
	SAVAL-U.S. CANADIAN BORDER	ART, BTV, MSS, SYR