

4241-M Comparison

PS 4241-M				RRECS					
Ref. No.	Description	Office Time	Route Time	Std. No.	RRECS Standard Description	Standard Minutes	Per Unit	Location	Comments
	Route Length		Miles x 12.0	DSM	Drive Speed Matrix				See Explanation and Drive Speed Matrix
				S134	Stop sign (SS)	0.0499	SS	Street	All Traffic Control Points (SS, YS, TL , etc.) are credited per mapped occurrence multiplied by the total number per week.
				S135	Yield sign (YS)	0.0159	YS	Street	
				S136	Traffic light (TL)	0.0251	TL	Street	
				S137	School cross walk (SCW)	0.0092	SCW	Street	
				S138	Railroad crossing (RRC)	0.0165	RRC	Street	
				S140	Access gate (AG)	0.1805	AG	Street	
				S143	Creep Time (CT)	0.0208	Space	Street	Each space between boxes mounted together
	Regular Boxes		Boxes x 2.0 Boxes x 1.82 (L)	S100	Box time CURB (one-bundle)	0.1483	Box	Street	No DPS (.8898 per week per box)
				S101	Box time CURB (two-bundle)	0.2027	Box	Street	DPS Letters Only (1.2162 per week per box)
				S102	Box time CURB (three-bundle)	0.2572	Box	Street	DPS Letters and Flats (1.5432 per week per box)
				S104	Box time SDWK (one-bundle)	0.1356	Box	Street	No DPS (.8136 per week per box)
				S105	Box time SDWK (two-bundle)	0.1900	Box	Street	DPS Letters Only (1.14 per week per box)
				S106	Box time SDWK (three-bundle)	0.2445	Box	Street	DPS Letters and Flats (1.467 per week per box)
				S108	Box time OTHER (one-bundle)	0.1346	Box	Street	No DPS (.8076 per week per box)
				S109	Box time OTHER (two-bundle)	0.1890	Box	Street	DPS Letters Only (1.134 per week per box)
				S110	Box time OTHER (three-bundle)	0.2434	Box	Street	DPS Letters and Flats (1.4604 per week per box)
				S144	Verify letter addresses	0.0116	Piece	Street	Weekly Avg: Random Letters+DPS Letters+WSS Letters+Second-Run DPS Letters
				S145	Verify flat addresses	0.0142	Piece	Street	Weekly Avg: Random Flats+CR Flats+DPS Flats+WSS Flats
	Centralized Boxes		Boxes x 1.0	S112	Unit time CBU	0.3311	Unit	Street	Each CBU Unit (1.9866 per week per unit)
				S113	Box time CBU (one-bundle)	0.0528	Box	Street	No DPS (.3168 per week per box)
				S114	Box time CBU (two-bundle)	0.1077	Box	Street	DPS Letters Only (.6462 per week per box)
				S115	Box time CBU (three-bundle)	0.1625	Box	Street	DPS Letters and Flats (0.975 per week per box)
				S118	Unit time CENT	0.3803	Unit	Street	Each Central Unit (2.2818 per unit per week)
				S119	Box time CENT (one-bundle)	0.0528	Box	Street	No DPS (.3168 per week per box)
				S120	Box time CENT (two-bundle)	0.1077	Box	Street	DPS Letters Only (.6462 per week per box)
				S121	Box time CENT (three-bundle)	0.1625	Box	Street	DPS Letters and Flats (0.975 per week per box)
				S124	Unit time NPU	0.0983	Unit	Street	Each NP Unit (0.5898 per unit per week)
				S125	Box time NPU (one-bundle)	0.0528	Box	Street	No DPS (.3168 per week per box)
				S126	Box time NPU (two-bundle)	0.1077	Box	Street	DPS Letters Only (.6462 per week per box)
				S127	Box time NPU (three-bundle)	0.1625	Box	Street	DPS Letters and Flats (0.975 per week per box)
				S130	Unit time DET (VPO)	0.0983	Unit	Street	Each VPO Unit (0.5898 per unit per week)
				S131	Insert mail in customer boxes DET (VPO)	0.2084	Box	Street	Each VPO Box (1.2504 per box per week)
				S133	Presort mail for insertion in boxes DET	0.1256	Unit	Street	Each VPO Unit 0.7536 per unit per week)
				S144	Verify letter addresses	0.0116	Piece	Street	Weekly Avg: Random Letters+DPS Letters+WSS Letters+Second-Run DPS Letters
				S145	Verify flat addresses	0.0142	Piece	Street	Weekly Avg: Random Flats+CR Flats+DPS Flats+WSS Flats
	NDCBU Coll/Comp		Comp x 1.0	S116	Collection box CBU	0.0558	Coll box	Street	0.3348 per Collection box per wk - no sorting
				S122	Collection box CENT	0.0558	Coll box	Street	0.3348 per Collection box per wk - no sorting
				S128	Collection box NPU	0.0558	Coll box	Street	0.3348 per Collection box per wk - no sorting
				S132	Collection box DET	0.0558	Coll box	Street	0.3348 per Collection box per wk - no sorting
	Parcel Lockers		Lockers x 2.0	See S037 Under Parcels					Credited under parcels

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Ref. No.	Description	Office Time	Route Time	Std. No.	RRECS Standard Description	Standard Minutes	Per Unit	Location	Comments
1	Random Letters	0.0555		S004	Case random letters	0.0647	Piece	Office	Weekly Avg from Mail Count
				S011	Case WSS letters	0.0364	Piece	Office	Weekly Avg from Carrier MDD Input
2	Sector Segment Letters	0.0444		No corresponding Standard in RRECS					Sector Segment not used in RRECS
3a	DPS Letters- W/O Gov Vehicle		0.0333	S009	Case DPS letters	0.0294	Piece	Office	ONLY applies to Second-Run DPS and fewer than 400 pieces per day
3b	DPS Letters-With GOV Vehicle		0.0232	S009	Case DPS letters	0.0294	Piece	Office	ONLY applies to Second-Run DPS and fewer than 400 pieces per day
4	Flats,Cat.,Mag.,Papers,Rolls	0.1		S005	Case random flats	0.0862	Piece	Office	Weekly Avg from Mail Count
				S006	Case Carrier Route flats	0.0741	Piece	Office	Weekly Avg from Electronic Data
				S010	Case WSS flats	0.0741	Piece	Office	Weekly Avg from Carrier MDD Input
5a	DPS Flats-Without GOV Vehicle	0.0588		S016	Case DPS flats	0.0708	Piece	Office	Weekly Avg from EOR Reports
5b	DPS Flats-With GOV Vehicle		0.0232	S016	Case DPS flats	0.0708	Piece	Office	Wkly Avg from EOR Reports. LHD Gov vehicle only
6	Parcels	0.333	0.167	S018A	Gather parcels first cart	0.1774	1st Cart	Office	One cart = 62 parcels
				S018B	Gather parcels additional trip	0.4944	Addl Cart	Office	Additional trips credited for over 62 parcels/day
				S002	Office Walking Speed	0.00429	Foot	Office	From Office Walking Distance Database
				S019	Organize large parcels	0.5157	Piece	Office	Weekly Avg parcels taken to door - MDD input
				S020	Organize small and medium parcels	0.2367	Piece	Office	Weekly Avg parcels delivered to mailbox or parcel locker - MDD input
				S033	Driving Speed (mail stop to DDD stop)	DSM		Street	Distance from RSD
				S034	Walking speed (DDD stop to door)	0.00429	Foot	Street	Distance from RSD
				S035	Deliver parcels to door	0.1954	Piece	Street	Weekly Avg from Carrier MDD input
				S036	Deliver parcels to mailbox	0.1671	Piece	Street	Weekly Avg from Carrier MDD input
				S037	Deliver parcels to parcel locker	0.3589	Piece	Street	Weekly Avg from Carrier MDD input
				S047	Prelim & concluding at vehicle for trip to door	0.852	Trip	Street	Weekly Avg from Carrier MDD input
				S048F	Gather accountable mail/large parcel -fixed	0.205	Trip	Street	Weekly Avg from Carrier MDD input
				S048V	Gather accountable mail/large parcel -variable	0.0812	Piece	Street	Weekly Avg from Carrier MDD input
				S069	Deliver Miscellaneous to door	0.0854	Trip	Street	Weekly Avg from Carrier MDD input
7	Boxholders	0.04		S012	Case Boxholder flats	0.0646	Piece	Office	Weekly Avg from Carrier MDD input
				S013	Case Boxholder letters	0.0303	Piece	Office	Weekly Avg from Carrier MDD input
8	Accountable Mail	1.0	3.466	S002	Office Walking Speed	0.00429	Foot	Office	From Office Walking Distance Database
				S021	Process accountable mail, sig. items	1.4745	Piece	Office	Weekly Avg from Carrier MDD input
				S025	Perform fixed accountable cage activities	0.7418	Day	Office	Weekly Avg trips from Carrier MDD input
				S033	Driving Speed (mail stop to DDD stop)	DSM		Street	Distance from RSD
				S034	Walking speed (DDD stop to door)	0.00429	Foot	Street	Distance from RSD
				S038	Deliver accountable mail, sig. items	0.9615	Piece	Street	Weekly Avg from Carrier MDD input
				S047	Prelim & concluding at vehicle for trip to door	0.852	Trip	Street	Weekly Avg from Carrier MDD input
				S048F	Gather accountable mail/large parcel -fixed	0.205	Trip	Street	Weekly Avg from Carrier MDD input
				S048V	Gather accountable mail/large parcel -variable	0.0812	Piece	Street	Weekly Avg from Carrier MDD input

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Ref. No.	Description	Office Time	Route Time	Std. No.	RRECS Standard Description	Standard Minutes	Per Unit	Location	Comments
9	Customs Due, C.O.D.	1.5	4.466	S002	Office Walking Speed	0.00429	Foot	Office	From Office Walking Distance Database
				S022	Process customs due	1.4745	Piece	Office	Weekly Avg from Carrier MDD input
				S023	Process COD	1.4745	Piece	Office	Weekly Avg from Carrier MDD input
				S025	Perform fixed accountable cage activities	0.7418	Day	Office	Weekly Avg trips from Carrier MDD input
				S033	Driving Speed (mail stop to DDD stop)	DSM		Street	Distance from RSD
				S034	Walking speed (DDD stop to door)	0.00429	Foot	Street	Distance from RSD
				S039	Deliver Customs Due	1.6618	Piece	Street	Weekly Avg from Carrier MDD input
				S040	Deliver COD	1.6131	Piece	Street	Weekly Avg from Carrier MDD input
				S047	Prelim & concluding at vehicle for trip to door	0.852	Trip	Street	Weekly Avg from Carrier MDD input
				S048F	Gather accountable mail/large parcel -fixed	0.205	Trip	Street	Weekly Avg from Carrier MDD input
				S048V	Gather accountable mail/large parcel -variable	0.0812	Piece	Street	Weekly Avg from Carrier MDD input
10	Postage Due	.2 roundup to whole number		S002	Office Walking Speed	0.00429	Foot	Office	From Office Walking Distance Database
				S024	Process postage due	0.0345	Piece	Office	Weekly Avg from Carrier MDD input
				S025	Perform fixed accountable cage activities	0.7418	Day	Office	Weekly Avg from Carrier MDD input
				S041	Collect postage due	0.9127	Piece	Street	Weekly Avg from Carrier MDD input
11	Change of Address	2.0		No corresponding Standard in RRECS					Actual Time in End of Shift Activities.
12	PS Form 3982 (PARS Label)	0.25		S029	Process PARS label (Form 3982)	0.405	Piece	Office	Weekly Avg from Mail Count
13	Markup	0.25		S027	Process markups	0.4233	Bundle	Office	Based on Wkly Avg of addressed mail pieces
14	PS Form 3821	2.0		Actual	Included in End of Shift Actual Time Average				
15	Non Signature "Scan" Items		0.3	No corresponding Standard in RRECS					Scans included in standards for Ind pieces
16	Load Vehicle	Actual Total per week		Actual	Actual Average Daily Time				Weekly Avg from Carrier MDD input
17	Other Suitable Allowance	Actual Total per week		S049	Service (blue box) collection points	1.7928	Box	Street	Weekly Avg Serviced from RSD
				S065	Perform simple one-step RRECS input scans	0.0795	Scan	Offc/Strt	Weekly Avg from Carrier MDD input
				S066	Perform prompted two-step RRECS scans	0.0928	Scan	Offc/Strt	Weekly Avg from Carrier MDD input
				Actual	Safety/Service Talks			Office	Wkly Avg: supervisor input and OWD database
				Actual	Express Mail Deviations-Actual Time			Street	Weekly Avg from Carrier MDD input
				Actual	End of Shift Office Duties Actual Time			Office	Weekly Avg from Carrier MDD input
18	Authorized Dismounts		0.1	S107	Dismount and prep OTHER	0.8931	Stop	Street	Weekly Avg from RSD
				S107A	Additional trip OTHER	0.2076	Trip	Street	Weekly Avg from Carrier MDD input
				S103	Dismount and prep SDWK	0.6709	Stop	Street	Weekly Avg from RSD
				S103A	Additional trip SDWK	0.1544	Trip	Street	Weekly Avg from Carrier MDD input
				S111	Dismount and prep CBU	0.8816	Stop	Street	Weekly Avg from RSD
				S111A	Additional trip CBU	0.1544	Trip	Street	Weekly Avg from Carrier MDD input
				S117	Dismount and prep CENT	1.9112	Stop	Street	Weekly Avg from RSD
				S117A	Additional trip CENT	0.4409	Trip	Street	Weekly Avg from Carrier MDD input
				S123	Dismount and prep (NPU)	1.9112	Stop	Street	Weekly Avg from RSD
				S123A	Additional trip NPU	0.4409	Trip	Street	Weekly Avg from Carrier MDD input
				S129	Dismount and prep DET (VPO)	2.0761	Stop	Street	Weekly Avg from RSD
				S129A	Additional trip DET (VPO)	0.4958	Trip	Street	Weekly Avg from Carrier MDD input
19	Auth. Dismount Dist. (Feet)		0.00429	S142	Walking standard	0.00429	Foot	Street	Applied to Auth. Dismount Distances
20	Letters, Flats Collected	0.04		No corresponding Standard in RRECS					Part of Box Standards Above

4241-M Comparison

Ref. No.	Description	Office Time	Route Time	Std. No.	RRECS Standard Description	Standard Minutes	Per Unit	Location	Comments
21	Carrier Pickup Request & Prepaid Parcel Event	0.75	0.75	S026	Process carrier pick-up event forms	0.114	Form	Office	Weekly Avg from Carrier MDD input
				S033	Driving Speed (mail stop to DDD stop)	DSM		Street	Distance from RSD
				S034	Walking speed (DDD stop to door)	0.00429	Foot	Street	Distance from RSD
				S045	Carrier pickup & prepaid event	1.1817	Event	Street	Weekly Avg from Carrier MDD input
				S070	Full Scan (manifest if provided)	0.1011	Scan	Street	Weekly Avg from Carrier MDD input
				S047	Prelim & concluding at vehicle for trip to door	0.852	Trip	Street	Weekly Avg from Carrier MDD input
22	Carrier PU Items & Prepaid Parcel over 2lbs		0.15	S046	Carrier pickup & prepaid items	0.1592	Piece	Street	Weekly Avg from Carrier MDD input
				S070	Full Scan	0.1011	1st Piece	Street	Weekly Avg from Carrier MDD input
				S071	Partial Scan	0.0223	Addl Pcs	Street	Weekly Avg from Carrier MDD input
23	Parcels Accepted, Ord., Ins., C.O.D.	2.0	2.0	S044	Accept ord., COD, ins. Parcels	0.1034	Piece	Street	Avg per address X number of addresses
				S069	Deliver Miscellaneous to door	0.0854	Trip	Street	Wkly Avg frm Carr MDD input (IF trip to door)
				S033	Driving Speed (mail stop to DDD stop)	DSM		Street	Distance from RSD (IF trip to door)
				S034	Walking speed (DDD stop to door)	0.00429	Foot	Street	Distance from RSD (IF trip to door)
24	Registered, Certified Accepted		2.0	S042	Collect registered/certified mail	0.0944	Piece	Street	Avg per address X number of addresses
				S069	Deliver Miscellaneous to door	0.0854	Trip	Street	Wkly Avg frm Carr MDD input (IF trip to door)
				S033	Driving Speed (mail stop to DDD stop)	DSM		Street	Distance from RSD (IF trip to door)
				S034	Walking speed (DDD stop to door)	0.00429	Foot	Street	Distance from RSD (IF trip to door)
25	Money Order Application Processed	1.5	2.0	S043	Collect money order applications	2.1799	Piece	Street	Avg per address X number of addresses
				S069	Deliver Miscellaneous to door	0.0854	Trip	Street	Wkly Avg frm Carr MDD input (IF trip to door)
				S033	Driving Speed (mail stop to DDD stop)	DSM		Street	Distance from RSD (IF trip to door)
				S034	Walking speed (DDD stop to door)	0.00429	Foot	Street	Distance from RSD (IF trip to door)
26	Return Receipts (L Route Only)	0.25		No corresponding Standard in RRECS					Included in Accountable Mail Standard
	Stamp Stock	20		S067	Contact Rural Reach customers	5.2458	Contact	Street	Weekly Avg from Carrier MDD input
				S068	Sell stamp stock	0.7140	Sale	Street	Wkly Avg from Carrier MDD input - street only
	Scanner (Retrieval/Setup/Return)	6		S001	Scanner Setup Activities	0.1882	Day	Office	1.1292 per week
				S002	Office Walking Speed	0.00429	Foot	Office	From Office Walking Distance Database
	Strapping Out	(1+2+4+5A-13) x 0.01428		S017A	Pull down-handle trays	0.2458	Tray	Office	Cased mail (220 pieces per tray)
				S017B1	Pull down handful	0.0291	Handful	Office	Cased mail (32 pieces per handful)
				S017B2	Pull down compartments	0.0326	Reach	Office	One Bundle: Total Addresses X Standard daily; 2 & 3 Bundle: Addresses/2 X Standard Daily
				S017C	Position and remove rubber bands	0.099	Rubber Bnd	Office	Cased mail (32 pieces per rubberband) *Cased Mail includes: Random Letters+Random Flats+CR Flats+WSS Flats+WSS Letters+Boxholders+Second-Run DPS
	Other Office & Personal	30		S030	Complete trip report (Form 4240)	0.491	Day	Office	2.946 per week
				S031	Move trays to storage	0.2643	Day	Office	1.5858 per week
	Lock Pouch Stops		# DAILY Stops x 30	S050	Service inter-unit mail (low volume)	1.4787	Unit	Street	Number of Units from RSD X weekly stops
				S051	Service inter-unit mail (high volume)	5.7659	Unit	Street	Number of Units from RSD X weekly stops
	Withdraw Mail Y=1 N=0	Yes=30 No=0		S003	Gather Random Mail	1.0517	Day	Office	6.3102 per week
				S002	Office Walking Speed	0.00429	Foot	Office	From Office Walking Distance Database
				S007	Gather DPS Letters	0.25	Tray	Office	425 pieces/tray from EOR
				S008	Locate and access DPS Letter trays	0.7689	Day	Office	4.6134 per week
				S014	Gather DPS flats	0.205	Tray	Office	115 pieces/tray from EOR
				S015	Locate and access DPS flat trays	0.1653	Day	Office	0.9918 per week

4241-M Comparison

Ref. No.	Description	Office Time	Route Time	Std. No.	RRECS Standard Description	Standard Minutes	Per Unit	Location	Comments
	USPS Vehicle Y=1 N=0	Daily Rt. Mi x (6/100x4.5)+24		S032	Inspect Government Vehicle	1.8716	Day	Office	11.2296 per week
				S002	Office Walking Speed	0.00429	Foot	Office	From Office Walking Distance Database
				S052	Fuel Vehicle	3.1421	Refuel	Street	Weekly Avg based on 100 miles/Refuel
	Reload/Unload		18 min weekly	S053	Retrieve first mail tray behind bulkhead	0.7167	Tray	Street	Refer to Look-up Tables
				S054	Retrieve additional mail trays behind bulkhead	0.1785	Tray	Street	
				S055	Retrieve first mail tray under platform	1.4558	Tray	Street	
				S056	Retrieve additional mail trays under platform	0.1239	Tray	Street	
				S057	Retrieve first mail tray rear door	1.8073	Tray	Street	
				S058	Retrieve additional mail trays rear door	0.2221	Tray	Street	
				S059	Retrieve first med parcels tub behind bulkhead	0.7579	Tray	Street	
				S060	Retrieve addl med parcels tubs behind bulkhead	0.2006	Tray	Street	
				S061	Retrieve first med parcels tub rear door	1.2540	Tray	Street	
				S062	Retrieve addl med parcels tubs rear door	0.2221	Tray	Street	
				S063	Move large parcels from cargo area to rear door	0.1895	Piece	Street	Weekly Avg from Carrier MDD input

LOOKUP TABLE: DAILY STANDARD TIME FOR RELOADING
BASED ON NUMBER OF TRAYS AND 1, 2 OR 3 BUNDLES

Number of Trays	1-Bundle	2-Bundle	3-Bundle
1	0.6957	0.6957	0.6957
2	0.8689	0.8689	1.3914
3	2.2820	2.2820	2.8045
4	2.4023	3.6951	4.2176
5	4.1567	5.4495	5.9720
6	4.3723	5.6651	7.7264
7	4.5879	7.4195	9.4808
8	6.3423	7.6351	11.2352
9	6.5579	9.3895	12.9896
10	6.7735	9.6051	14.7440
11	8.5279	11.3595	16.4984
12	8.7435	11.5751	18.2528
13	8.9591	13.3295	20.0072
14	10.7135	13.5451	21.7616
15	10.9291	15.2995	23.5160

LOOKUP TABLE: DAILY STANDARD TIME
RELOADING MEDIUM PARCELS

Number of Trays	Standard
1	0.7357
2	0.9304
3	1.6661
4	1.8608
5	3.078
6	3.2936
7	4.5108
8	4.7264

Drive Speed Matrix

Distance Range (ft)	Standard Speed (mph)	Standard Speed (min/ft)
0 ft - 15 ft	4.57	0.00249
15 ft - 20 ft	6.44	0.00176
20 ft - 30 ft	6.43	0.00177
30 ft - 45 ft	6.77	0.00168
45 ft - 65 ft	7.42	0.00153
65 ft - 90 ft	8.05	0.00141
90 ft - 120 ft	8.86	0.00128
120 ft - 155 ft	9.79	0.00116
155 ft - 195 ft	10.77	0.00106
195 ft - 240 ft	11.79	0.00096
240 ft - 290 ft	12.87	0.00088
290 ft - 345 ft	13.91	0.00082
345 ft - 405 ft	14.89	0.00076
405 ft - 470 ft	15.93	0.00071
470 ft - 540 ft	17.00	0.00067
540 ft - 615 ft	18.01	0.00063
615 ft - 695 ft	18.97	0.00060
695 ft - 780 ft	19.93	0.00057
780 ft - 870 ft	20.89	0.00054
870 ft - 965 ft	21.78	0.00052
965 ft - 1065 ft	22.70	0.00050
1065 ft - 1170 ft	23.52	0.00048
1170 ft - 1280 ft	24.47	0.00046
1280 ft - 1395 ft	25.24	0.00045
1395 ft - 1515 ft	25.87	0.00044
1515 ft - 1640 ft	26.72	0.00043
1640 ft - 1770 ft	27.60	0.00041
1770 ft - 1905 ft	28.29	0.00040
1905 ft - 2045 ft	29.00	0.00039
2045 ft - 2190 ft	29.58	0.00038
2190 ft - 2340 ft	29.76	0.00038
2340 ft - 2495 ft	30.74	0.00037
2495 ft - 2665 ft	31.41	0.00036
2665 ft - 2820 ft	31.66	0.00036
2820 ft - 2990 ft	32.22	0.00035
2990 ft - 3165 ft	32.49	0.00035
3165 ft - 3345 ft	33.03	0.00034
3345 ft - 3530 ft	33.91	0.00034
3530 ft - 3720 ft	34.13	0.00033
3720 ft - 3915 ft	34.41	0.00033
3915 ft - 4115 ft	35.07	0.00032
4115 ft - 4320 ft	35.35	0.00032
4320 ft - 4530 ft	35.90	0.00032
4530 ft - 4745 ft	35.88	0.00032
4745 ft - 4965 ft	35.80	0.00032
4965 ft - 5190 ft	37.15	0.00031
> 5190 ft	39.45	0.00029

How Does the Drive Speed Matrix Work?

RRECS uses the table to the left to calculate drive time on the basic route. The process starts with carriers locating mailstops and traffic control points when they map their routes. The RRECS mapping program stores these GPS locations in the Rural Street Database (RSD). RRECS computer code calculates drive “intervals” distances based on the GPS data and a road grid, in a process that works much like plotting a route on Google Maps. In RRECS, an interval is defined as the distance from one mailstop, traffic control point, or segment end point (right or left turn, new road name, etc.) to the next mailstop, traffic control point or segment end point. The result of analyzing the mapping data is a listing of the route’s intervals distances in consecutive order.

Drive time for an interval equals DISTANCE times SPEED. The RRECS computer logic selects the appropriate speed for each interval from the Drive Speed Matrix (DSM). For example, if an interval is bound by two mailstops 40 feet apart, the appropriate speed from the DSM is 0.00168 minutes per foot (6.77 miles per hour), and the standard time for driving the interval is (Distance = 40 feet times Speed = 0.00168) 0.0672 minutes or about 4 seconds. If an interval is a mile long, say the distance from the post office to the first mailstop with no traffic control or segment end point in between, standard drive time is (5280 feet times 0.00029 minutes per foot) 1.5312 minute or about 92 seconds.

The computer code repeats the basic calculation for each interval and adds all the interval drive times to arrive at the total Drive Time for the Basic Route. This procedure results in drive times that reflect the specific realities of each rural route.

The DSM is also used to calculate total time for out-of-route driving for door deliveries and pickups. Once again, RRECS calculates these distances and then calculates standard drive time from the distances and the appropriate DSM speeds.