

2019 Rallye Glenwood Springs

INST #	DIST	CAST	Instruction
1	0.00	*	Begin 25 minute ODOMETER Check at "Start", (which is at the crosswalk at the parking lot exit onto Wadsworth, north of Gunther Toody's, just south of the big brick building. If you drive the speed limit, it should take you approximately 17 minutes to complete.)
2	0.00	*	RIGHT, redundant (This is a "course-directing action". It is redundant, since you are at a T. Also, there is no option to turn left.)
3	0.14	*	BOWLES AVE (This is a landmark, in this case, a street. The sign for a street can be anywhere.)
4	1.17	*	LEFT onto BELLEVIEW (Note the "onto". The Main Road has changed.)
5	1.28	*	CODY ST (This is a landmark, in this case, a street sign. Observe it, and don't move on to the next instruction until you have observed it.)
6	2.19	*	KIPLING ST
7	2.43	*	MILLER WAY
8	2.75	*	OWENS ST
9	3.18	*	SIMMS ST
10	3.67	*	VIVIAN CT
11	4.12	*	ALKIRE ST
12	4.39	*	ELDRIDGE ST (Get in the left lane approaching the roundabout) (Instructions in parentheses are there to help you, and will not lead you astray.)
13	4.58	*	STRAIGHT at ROUNDABOUT, redundant (This is redundant because of the "onto" when we turned onto BELLEVIEW. If this instruction had been omitted, you would have known to go straight because BELLEVIEW is the Main Road)
14	5.21	*	LYONS RIDGE
15	5.78	*	SPEED LIMIT 35
16	6.25	*	FOX HILLS
17	6.47	*	QUAIL RIDGE
18	6.51	*	RED CLIFF
19	6.82	*	TIGER BEND
20	7.74	*	RIGHT at T, redundant
21	7.83	*	RIGHT (Into the "Fort" parking lot. Pull into the upper lot, with your car to the right of the "Fort" sign.)
22	7.84	*	End ODOMETER CHECK at "Fort" (The restart is at the far end of the parking lot. Find a place for your car, and restart 25 minutes after your start time. Your restart should be 8:00 am + your car number + 25 minutes. Do not put anything on your scorecard, as you have not finished a leg yet.)
23		48	RIGHT, redundant
24			SPEED LIMIT 50
25			"Mount Falcon"
26		33	SPEED LIMIT 35
27		24	SPEED LIMIT 25
28			LEFT at TRAFFIC LIGHT, PAUSE 30 seconds

2019 Rallye Glenwood Springs

29			SPEED LIMIT 25
30			SPEED LIMIT 25
31		32	SPEED LIMIT 35
32			"Red Rocks"
33		28	SPEED LIMIT 30
34			SPEED LIMIT 30
35		23	SPEED LIMIT 25
36			"Saw Mill Gulch"
37		43	SPEED LIMIT 45
38			"Lair o' the Bear"
39			SPEED LIMIT 45
40			"Scenic Byway"
41		32	SPEED LIMIT 35
42			"Cold Spring Gulch"
43			"Corwina Park"
44		33	SPEED LIMIT 35
45			"Kerr Gulch"
46		28	SPEED LIMIT 30
47			"Parmalee Gulch"
48		27	SPEED LIMIT 30
49			LEFT at Y, redundant
50		33	SPEED LIMIT 35
51			TROUBLESOME GULCH RD
52			"National Historic District"
53			"200 FT"
54		23	SPEED LIMIT 25
55		28	RIGHT (MEADOW DR, street sign is hard to see)
56			SPEED LIMIT 30
57			CEDAR CIR
58			CEDAR CIR
59		21	RIGHT
60			SPEED LIMIT 25
61			STOP SIGN, PAUSE 10 seconds
62			JUNIPER
63			LEFT at SAGE, may be redundant
64			"Evergreen Family Dentistry"
65			RIGHT (Comes quickly. The turn is the first opportunity after the end of the guardrail.)
66			LEFT at Y
67			LEFT at T (STAGECOACH BLVD), PAUSE 10 seconds
68		28	TRAFFIC LIGHT, PAUSE 60 seconds
69			SPEED LIMIT 30
70		38	SPEED LIMIT 40
71			"Elk Meadow Park" (watch for pedestrians)
72			SPEED LIMIT 40
73			ALPINE LN

2019 Rallye Glenwood Springs

74		BERGEN MOUNTAIN RD
75		SPEED LIMIT 40
76		CACTUS DR
77	28	SPEED LIMIT 30
78		SPEED LIMIT 30
79		CEDAR WAY
80		RIGHT onto WITTER GULCH RD, PAUSE 10 seconds
81		STAGECOACH BLVD ITIS
82	18	SPEED LIMIT 20
83		LEFT at ASPENWOOD, may be redundant
84		RIGHT at Y, may be redundant
85	28	LEFT at STOP SIGN, PAUSE 10 seconds
86		SPEED LIMIT 30
87		"Please Drive Safely"
88	38	SPEED LIMIT 40
89		"Mile 21" SOL
90		"Ski Area"
91		"Mile 19" SOL
92		"Mile 17" SOL
93		"Mile 15" (Hard to read)
94	28	SPEED LIMIT 30
95		LEFT after "Welcome Mt. Evans North America's Highest Auto Road" SOL, begin 15 minute TRANSIT ZONE (Comes quick. Park in either parking lot. Take a comfort break at Echo Lake Lodge, grab some coffee, and stretch your legs. To continue, exit the parking lot the way you came in.)
96	28	LEFT at T (CO 103), End TRANSIT ZONE
97		SPEED LIMIT 30
98		"Echo Lake Park"
99		"Mile 13"
100		"Steep Grade Sharp Curves"
101		"Mile 11" SOL
102		PEACEFUL VALLEY DR ITIS
103		"Mile 9" SOL
104		"Falling Rock" ITIS
105		"Mile 7" SOL
106	43	SPEED LIMIT 45
107		"Mile 5" SOL
108		"Catch Wild Trout" ITIS
109		"Blackstone Rivers Ranch" ITIS, PAUSE 60 seconds
110		"Mile 3" SOL
111	38	SPEED LIMIT 40
112		"Mile 1" SOL
113	28	SPEED LIMIT 30
114		"Idaho Spgs City Limit"
115		STRAIGHT at STOP SIGN, PAUSE 10 seconds

2019 Rallye Glenwood Springs

116		23	LEFT at STOP SIGN, PAUSE 10 seconds
117			11TH
118			9TH
119			8TH, PAUSE 10 seconds
120		13	RIGHT at 7TH ST ITIS
121			5TH
122			3RD
123			1ST
124			LEFT at Y (STANLEY RD)
125			STRAIGHT at STOP SIGN (may be redundant), PAUSE 10 seconds
126			"Share the Road"
127		24	SPEED LIMIT 45 (Construction ahead)
128			"Phoenix Gold Mine" SOL
129		43	"Colorado Adventure Center"
130		23	SPEED LIMIT 25
131			STOP SIGN, PAUSE 10 seconds
132		33	STOP SIGN, PAUSE 10 seconds
133			SPEED LIMIT 35
134		43	SPEED LIMIT 45
135		33	SPEED LIMIT 35
136			STRAIGHT at STOP SIGN, PAUSE 10 seconds, may be redundant (Do not go onto I-70)
137		43	SPEED LIMIT 45
138		28	SPEED LIMIT 30
139			"Your Speed"
140			LEFT at ALVARADO RD
141		33	SPEED LIMIT 35
142			SPEED LIMIT 35
143			"Easter Seal Camp"
144			STOP SIGN, PAUSE 10 seconds
145			SPEED LIMIT 35
146			"Your Speed"
147			ROUNDAABOUT
148			SPEED LIMIT 30
149			"Historic Business District"
150			DIYC at "Historic Georgetown", Begin 50 minute TRANSIT ZONE (Pull off in a safe place to record your score. Your TIME OUT is 2 minutes after your TIME IN. Due to an historic snowpack and construction, we were not able to use the originally planned route, so we have to take the Tunnel instead of Loveland Pass. It should take you about 30 minutes to make the drive. For those driving electric vehicles, there is a Supercharger station just beyond the end of the transit zone.)
151			U-TURN onto ARGENTINE ST (head back the way you just came)
152			LEFT at ROUNDAABOUT
153			STRAIGHT at STOP SIGN
154			LEFT onto I-70 WEST, may be redundant

2019 Rallye Glenwood Springs

155		"Exit 226 Silver Plume"
156		SPEED LIMIT 65
157		"Exit 221 Bakerville"
158		"Entering Arapahoe Natl Forest"
159		"Exit 218"
160		"Eisenhower Tunnel 1973"
161		BEAR RIGHT at EXIT 205 (Silverthorne Dillon)
162		RIGHT at TRAFFIC LIGHT (Use TURN POCKET)
163		RIGHT at RAINBOW DR (First TRAFFIC LIGHT)
164		STRAIGHT at STOP SIGN, redundant
165		LEFT, Cancel NOTE ROUNDER (Into parking lot. Take a break here, there's a Starbucks across the street for a drink and comfort break. If you are driving an electric vehicle and would like a charger, continue straight and a bank of them will be on your right, after Starbucks. Your next instruction will be at the first stop sign you passed coming in.)
166	20	RIGHT at STOP SIGN (RAINBOW DR), End TRANSIT ZONE, Begin FREE ZONE (A FREE ZONE is an area free of checkpoints. Also, you may stop in a FREE ZONE without penalty, even if you can see a checkpoint. This is used largely as a safety measure, to allow you to accumulate pauses, knowing you will be able to spend any remaining time before the end of the FREE ZONE.)
167		STRAIGHT at STOP SIGN, redundant, PAUSE 10 seconds, NOTE RED-LIGHT-GREEN-LIGHT: TRAFFIC LIGHT, if action is LEFT, then PAUSE 45 seconds; if action is STRAIGHT, then PAUSE 30 seconds; if action is RIGHT, then PAUSE 15 seconds (even when using TURN POCKET); (There will be a lot of pauses coming up. Keep track of how long you should pause, and how long you were stationary. If you have additional time you need to pause, do it in a safe place. Do not wait at a green light and do not stop where you might impede traffic.)
168	33	LEFT at TRAFFIC LIGHT (BLUE RIVER PKWY)
169	38	SPEED LIMIT 40
170	47	SPEED LIMIT 50
171	52	SPEED LIMIT 55
172	33	RIGHT onto SWAN MOUNTAIN RD (via TURN POCKET)
173		SPEED LIMIT 35
174		"Mile 4" (Hard to see)
175		"Prospector"
176		"Sapphire Point" (Parking lot is at the top of the hill. Sign is parallel to the road, between the entrances of the parking lot. This would be a good place to spend any PAUSE time you have left.)
177		(Bicycles) "May Use Full Lane" (Watch for cyclists.)
178		"Mile 1", End FREE ZONE
179	47	RIGHT at TRAFFIC LIGHT
180		SPEED LIMIT 50
181		"Mile 94"
182		"Be Prepared to Stop"
183		"Frisco" (Comes very quickly)

2019 Rallye Glenwood Springs

184		"Frisco Adventure Park"
185	19	RIGHT, Begin FREE ZONE
186		SPEED LIMIT 20, End FREE ZONE
187		RIGHT (CO 9)
188		LEFT onto MAIN ST
189		LEFT onto I-70 WEST
190		"Mile 199"
191		"Mile 197"
192		BEAR RIGHT at EXIT 195 (Copper Mtn, use the far right lane)
193		SPEED LIMIT 45
194		RIGHT at TRAFFIC LIGHT (COPPER RD)
195		LEFT into "Alpine Lot" (Turn around and find a place to wait out the rest of your TRANSIT ZONE. Your next instruction will be the stop sign at the entrance of the parking lot.)
196	20	RIGHT at STOP SIGN (exiting parking lot), End TRANSIT ZONE, NOTE COPPER: PAUSE 30 seconds at "Cooper"
197	43	RIGHT
198	60	SPEED LIMIT 65, Cancel NOTE RED-LIGHT-GREEN-LIGHT, Cancel NOTE COPPER
199		"Keep Right Except to Pass"
200		"Leaving White River" ITIS
201		SPEED LIMIT 65
202	52	SPEED LIMIT 55
203		"Mile 13" SOL
204	43	SPEED LIMIT 45
205		"Fremont Pass", PAUSE 60 seconds (Sign parallel to road)
206		SPEED LIMIT 45
207	60	SPEED LIMIT 65
208		"Arkansas River"
209		"San Isabel" SOL
210		SPEED LIMIT 65
211		"Mile 5" SOL
212		"Arkansas River"
213	48	SPEED LIMIT 50
214		"Mile 1" SOL
215	33	SPEED LIMIT 35
216		RIGHT after "Ski Area" (via TURN POCKET, comes quickly)
217	48	SPEED LIMIT 50
218		"10th Mountain Division Memorial Highway"
219	38	SPEED LIMIT 40
220		"San Isabel"
221	52	SPEED LIMIT 55
222		EAST TENNESSEE PASS
223		"Home Stake" SOL
224	43	SPEED LIMIT 45
225		"Mile 167" SOL

2019 Rallye Glenwood Springs

226			DIYC at "Continental Divide" (RIGHT into small parking lot after "Continental Divide" to record your time. Your TIME OUT will be your TIME IN plus 2 minutes. Your restart will be the STOP SIGN at the other end of the parking lot.)
227		33	RIGHT, redundant
228			"Eagle County"
229			SPEED LIMIT 35
230			"Enjoy Your National Forest" (Hard to see)
231		43	SPEED LIMIT 45
232			"Standard Service" SOL
233		52	SPEED LIMIT 55
234			"Mile 161" SOL
235			"Mile 159" SOL
236		48	SPEED LIMIT 50
237			"Mile 157" SOL
238		28	SPEED LIMIT 40 (construction ahead)
239			"Homestake Road", PAUSE 60 seconds
240		43	SPEED LIMIT 45
241			"Snowplows Turning on Highway"
242			LEFT OR "Minturn Red Cliff" WCF
243			LEFT at T ITIS
244		38	SPEED LIMIT 40
245			"Fallen Rocks"
246			"Eagle River"
247			SPEED LIMIT 40
248			"Notch Mountain" SOL
249		30	SPEED LIMIT 35
250			"Natl Forest Access"
251		48	SPEED LIMIT 50
252			"Minturn"
253		43	SPEED LIMIT 45
254		33	SPEED LIMIT 35
255		20	RIGHT after "Cemetery" (Comes quickly)
256			RIGHT, may be redundant (MAIN ST)
257			SPEED LIMIT 30 (Comes quickly)
258			"Cowboy Bar" SOL
259			SPEED LIMIT 25
260			SPEED LIMIT 40
261			"End Scenic Byway"
262			"Jct 70 6"
263			SPEED LIMIT 35
264		43	SPEED LIMIT 45, End TRANSIT ZONE
265			"EagleVail"
266			SPEED LIMIT 45
267			TRAFFIC LIGHT, PAUSE 30 seconds

2019 Rallye Glenwood Springs

268		EAGLE ROAD, PAUSE 30 seconds
269		STONE CREEK DR, PAUSE 30 seconds OR STONE CREEK RD, PAUSE 30 seconds, WCF
270	28	SPEED LIMIT 30
271	43	SPEED LIMIT 45
272	33	SPEED LIMIT 35
273	38	SPEED LIMIT 40
274		"RiverEdge"
275		BEAVER CREEK BLVD, PAUSE 30 seconds
276	47	SPEED LIMIT 50
277		"Ski Area"
278	19	RIGHT at MILLER RANCH RD
279		SPEED LIMIT 20
280		STOP SIGN, PAUSE 10 seconds
281	28	SPEED LIMIT 30
282		"Your Speed"
283	23	"Northstar Center" (Get in the left lane)
284		RIGHT at ROUNDABOUT onto EDWARDS ACCESS RD (First exit. Stay in the left lane. Don't accidentally get on I-70)
285		STRAIGHT at ROUNDABOUT, redundant (Get in the right lane for the next ROUNDABOUT)
286		STRAIGHT at ROUNDABOUT ("Beard/Berry Creek Rd") (Use the right lane on the entrance of the roundabout)
287		LEFT at ROUNDABOUT
288		SPEED LIMIT 25
289		RIGHT at ROUNDABOUT
290		RIGHT at ROUNDABOUT onto I-70 W (It takes about an hour to get to the Courtyard Marriott in Glenwood Springs from here. If you would like a more relaxing drive, exit I-70 at Wolcott, Exit 157, turn right on CO 131, then left on US 6. You can take US 6 all the way to Dotsero, or you can hop onto I-70 W at any point before that.)
291		BEAR RIGHT at Exit 114 (West Glenwood)
292		LEFT at ROUNDABOUT (Midland Ave, 5th exit)
293		STRAIGHT at ROUNDABOUT (Midland Ave, 2nd exit)
294		RIGHT at 2ND OPPORTUNITY (E MEADOWS DR)
295		LEFT at ROUNDABOUT (3rd exit)
296		(You will see the Courtyard Marriott ahead and to the left.)
297		Bring your scorecard to the scoring committee at the MGCC Hospitality Table inside the Courtyard Marriott. Then enjoy a cold beverage and a snack.

Rallye Glenwood Springs 2019 – Rallye Supplement

Put your car number on the inside, lower, passenger side, of your windshield.

If you have competed in very few Time Speed Distance (TSD) rallyes previously, or this is your first one, you will probably want to download and read the “RALLYE PRIMER” which is available on the mgcc.org website (Glenwood/Event Information). Also everyone should download, print, read and bring along a copy of the ROCKY MOUNTAIN AREA TSD RALLYE GENERAL INSTRUCTIONS (2015) from the same spot on the mgcc.org website. The Primer gives Novices the basics while the Rallye Generals explains the rules in detail.

If you are a Novice: Read through the Rallye Instructions. The Odometer Check (Instructions 1-32) is written in such a way as to be some hands-on rallye training. There will be a very short Q & A session in the Mimi’s Parking Lot at 7:25am. Read through the first eight Numbered Instructions before you leave the Start Line.

For all rallyists, make sure to read the following sections in the GENERAL INSTRUCTIONS.

- Main Road Rule (B.1.)
- Course Following (B.2.)
- ITIS and WCF (B.2.a)
- NOTE: (B.2.b)
- EXECUTION PRIORITIES (B.7.)
- SPECIAL SIGNS (C.5.)
- Do It Yourself Control (DIYC) (D.2.b.)
- Time Allowance (D.3.)
- GLOSSARY (Read all items, especially the ones below.)
- FREE ZONE
- LEFT (RIGHT)
- REDUNDANT
- ROUNDABOUT
- PAUSE
- TRANSIT ZONE

This year’s rallye will feature a number of PAUSES. Some of those PAUSES will occur on busy roads with no opportunity to safely serve the PAUSE. When this is the case, FREE ZONES will be used to give rallyists the opportunity to serve those PAUSES safely. Please be wise and do not stop where you could impede other traffic.

Modifications to the TSD RALLYE GENERAL INSTRUCTIONS (2015):

B.1. Add to last paragraph in this section: Parking Lots and Parking Areas will be used during the rallye. They will only exist when you are specifically instructed to turn into a parking lot with a Numbered Rallye Instruction. They may also be used to serve excess PAUSE time, and may be suggested in a parenthetical instruction. Parking Lots will not be used as the basis of a trick or trap.

E.4. Laptops, tablets, calculators, GPS devices, and specialized Rallye Equipment are allowed in Computer Class only. Pre-1978 calculating equipment is allowed in Vintage class.

The Rallye route is about 220 miles from the Start Line at Gunther Toody's to the Marriot in Glenwood Springs. There are some very short sections dirt roads and parking lots, but the vast majority of the route is paved. Your Rallye Masters this year are Tyler Hicks-Wright and Jeff Keacher. We've put together a rallye with a number of different challenges along some of our favorite mountain roads. We hope you enjoy the route and the challenge of rallying!

Finally, as you prepare to rallye, don't forget to fill out the information on the top of your Scorecard and circle your Rallye Class.

RALLYE CLASSES:

Novice SOP (Seat-of-the-Pants) – Rallyists are eligible for Novice until they win a First or Second Place, or have competed in THREE TSD Rallyes. Pencil and paper calculations only. Included rallye charts are permitted.

Intermediate SOP – Rallyists are eligible for Intermediate Class until they have won First place twice in Intermediate Class. Pencil and paper calculations only. Included rallye charts are permitted.

Experienced – No limitation on experience. Pencil and paper calculations only. Rallye Charts and Tables are permitted.

Vintage – Cars must be 40 years old or older (1977 or older). No limitation on equipment, but, equipment must be period correct. If it was available for use when your car was born, then you can use it (Curta, Halda, slide rule, old calculators, etc.).

Computer – No limitation on experience or calculating equipment. This class is open to everyone.

Vintage Class is an optional Class. The car's age and the optional use of "old" computing equipment will qualify a car for Vintage Class. A car is not required to compete in Vintage Class. If you drive an old car and would qualify for any other Class, you are certainly welcome to enter the class that you feel you have the best chance of winning an award. There is no penalty for rallyists who voluntarily select to compete in a higher Rallye Class.

Any Scorecard with a missing Rallye Class will be placed in Experienced Class.

Optional Hints & Tips

How to do a DIYC

On your scorecard, in the "IN TIME" box for the current leg — write down your arrival time. Example: if leg 3 ends at a DIYC:

CAR NUMBER 12 CLASS NOVICE
 DRIVER _____ PLACE IN CLASS: _____
 NAVIGATOR _____ TOTAL POINTS: _____

Control #	1	2	3	4	5	6
IN TIME	8:56:12	9:22:18	9:34:15			
OUT TIME	8:12:00	8:59:00	9:24:00	9:36:15		
Elapsed						
Perfect						
Error						
Penalty						
POINTS						

In the "OUT TIME" box for the next leg — add 2 minutes to the time you wrote as your "IN TIME" and write it down as your departure time. Begin the next leg at your departure time. DIYCs are your friends. If you are running a little early or late, you can fudge your "in time". Write down the time you think you should have arrived. (You still have to add exactly 2 minutes.)

Rallye Math

It can be intimidating, but rallye math is actually pretty simple. Use the example below to help you figure out your perfect time. Calculate in decimal minutes, and only convert back to minutes:seconds when you need to.

- Step 1. Record the odometer reading at every CAST
- Step 2. Subtract the odometer reading from the previous odometer reading.
- Step 3. Look up the distance and previous CAST on the rallye chart. (If it's a decimal, you may have to piece it together using the rallye chart.)
- Step 4. That's your time for that leg. Keep a running total of times.

Example

Instruction #	CAST	ODO	Difference	Time	Total Time
1	30	0.00	0.00	0.00	0.00
10	44	3.10	3.10	6.20	6.20
24	30	7.80	4.70	6.41	12.61

On instruction 10, your first CAST from the start, you see that you've gone 3.10 mi and your previous CAST was 30 MPH. Looking up 3.0 mi at 30, you get 6.0 minutes. And 0.1 mi at 30 MPH is 0.2 minutes, meaning that section should have taken you 6.2 minutes. Compare to how long it actually took you to see if you're ahead or behind.

Time in Minutes (decimal)

Speed (MPH)

	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
0.01	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.02	0.07	0.06	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02
0.03	0.10	0.09	0.08	0.08	0.07	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03
0.04	0.13	0.12	0.11	0.10	0.09	0.09	0.08	0.08	0.07	0.07	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04
0.05	0.17	0.15	0.14	0.13	0.12	0.11	0.10	0.09	0.09	0.08	0.08	0.08	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.05	0.05	0.05
0.06	0.20	0.18	0.16	0.15	0.14	0.13	0.12	0.11	0.11	0.10	0.09	0.09	0.09	0.08	0.08	0.08	0.07	0.07	0.07	0.06	0.06	0.06
0.07	0.23	0.21	0.19	0.18	0.16	0.15	0.14	0.13	0.12	0.12	0.11	0.11	0.10	0.10	0.09	0.09	0.08	0.08	0.08	0.08	0.07	0.07
0.08	0.27	0.24	0.22	0.20	0.18	0.17	0.16	0.15	0.14	0.13	0.13	0.12	0.11	0.11	0.10	0.10	0.10	0.09	0.09	0.09	0.08	0.08
0.09	0.30	0.27	0.25	0.23	0.21	0.19	0.18	0.17	0.16	0.15	0.14	0.14	0.13	0.12	0.12	0.11	0.11	0.10	0.10	0.10	0.09	0.09
0.10	0.33	0.30	0.27	0.25	0.23	0.21	0.20	0.19	0.18	0.17	0.16	0.15	0.14	0.14	0.13	0.13	0.12	0.12	0.11	0.11	0.10	0.10
0.20	0.67	0.60	0.55	0.50	0.46	0.43	0.40	0.38	0.35	0.33	0.32	0.30	0.29	0.27	0.26	0.25	0.24	0.23	0.22	0.21	0.21	0.20
0.30	1.00	0.90	0.82	0.75	0.69	0.64	0.60	0.56	0.53	0.50	0.47	0.45	0.43	0.41	0.39	0.38	0.36	0.35	0.33	0.32	0.31	0.30
0.40	1.33	1.20	1.09	1.00	0.92	0.86	0.80	0.75	0.71	0.67	0.63	0.60	0.57	0.55	0.52	0.50	0.48	0.46	0.44	0.43	0.41	0.40
0.50	1.67	1.50	1.36	1.25	1.15	1.07	1.00	0.94	0.88	0.83	0.79	0.75	0.71	0.68	0.65	0.63	0.60	0.58	0.56	0.54	0.52	0.50
0.60	2.00	1.80	1.64	1.50	1.38	1.29	1.20	1.13	1.06	1.00	0.95	0.90	0.86	0.82	0.78	0.75	0.72	0.69	0.67	0.64	0.62	0.60
0.70	2.33	2.10	1.91	1.75	1.62	1.50	1.40	1.31	1.24	1.17	1.11	1.05	1.00	0.95	0.91	0.88	0.84	0.81	0.78	0.75	0.72	0.70
0.80	2.67	2.40	2.18	2.00	1.85	1.71	1.60	1.50	1.41	1.33	1.26	1.20	1.14	1.09	1.04	1.00	0.96	0.92	0.89	0.86	0.83	0.80
0.90	3.00	2.70	2.45	2.25	2.08	1.93	1.80	1.69	1.59	1.50	1.42	1.35	1.29	1.23	1.17	1.13	1.08	1.04	1.00	0.96	0.93	0.90
1.00	3.33	3.00	2.73	2.50	2.31	2.14	2.00	1.88	1.76	1.67	1.58	1.50	1.43	1.36	1.30	1.25	1.20	1.15	1.11	1.07	1.03	1.00
2.00	6.67	6.00	5.45	5.00	4.62	4.29	4.00	3.75	3.53	3.33	3.16	3.00	2.86	2.73	2.61	2.50	2.40	2.31	2.22	2.14	2.07	2.00
3.00	10.00	9.00	8.18	7.50	6.92	6.43	6.00	5.63	5.29	5.00	4.74	4.50	4.29	4.09	3.91	3.75	3.60	3.46	3.33	3.21	3.10	3.00
4.00	13.33	12.00	10.91	10.00	9.23	8.57	8.00	7.50	7.06	6.67	6.32	6.00	5.71	5.45	5.22	5.00	4.80	4.62	4.44	4.29	4.14	4.00
5.00	16.67	15.00	13.64	12.50	11.54	10.71	10.00	9.38	8.82	8.33	7.89	7.50	7.14	6.82	6.52	6.25	6.00	5.77	5.56	5.36	5.17	5.00
6.00	20.00	18.00	16.36	15.00	13.85	12.86	12.00	11.25	10.59	10.00	9.47	9.00	8.57	8.18	7.83	7.50	7.20	6.92	6.67	6.43	6.21	6.00
7.00	23.33	21.00	19.09	17.50	16.15	15.00	14.00	13.13	12.35	11.67	11.05	10.50	10.00	9.55	9.13	8.75	8.40	8.08	7.78	7.50	7.24	7.00
8.00	26.67	24.00	21.82	20.00	18.46	17.14	16.00	15.00	14.12	13.33	12.63	12.00	11.43	10.91	10.43	10.00	9.60	9.23	8.89	8.57	8.28	8.00
9.00	30.00	27.00	24.55	22.50	20.77	19.29	18.00	16.88	15.88	15.00	14.21	13.50	12.86	12.27	11.74	11.25	10.80	10.38	10.00	9.64	9.31	9.00
10.00	33.33	30.00	27.27	25.00	23.08	21.43	20.00	18.75	17.65	16.67	15.79	15.00	14.29	13.64	13.04	12.50	12.00	11.54	11.11	10.71	10.34	10.00

Distance (Miles)

Sec	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Min	0.02	0.03	0.05	0.07	0.08	0.10	0.12	0.13	0.15	0.17	0.18	0.20	0.22	0.23	0.25	0.27	0.28	0.30	0.32	0.33
Sec	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Min	0.35	0.37	0.38	0.40	0.42	0.43	0.45	0.47	0.48	0.50	0.52	0.53	0.55	0.57	0.58	0.60	0.62	0.63	0.65	0.67
Sec	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Min	0.68	0.70	0.72	0.73	0.75	0.77	0.78	0.80	0.82	0.83	0.85	0.87	0.88	0.90	0.92	0.93	0.95	0.97	0.98	1.00