

M712 COPPERHEAD MET + VE WORK SHEET

For use of this form, see FM 6-40. The proponent agency is TRADOC.

NOTE: Use FT 155-AS-1

STEP	ACTION	VALUE	STEP	ACTION	VALUE
1	Record the Chart Rg to Tgt		26	Record Dir of Fire [25](100)	
2	Record the Chart Df to Tgt		27	Record 6400 (If [26] > 6400)	
3	Record Obsr Visibility		28	Compute Dir of Fire [26] - [27]	
4	Record Obsr Cld Ht		29	Record Wind Direction [17]	
5	Record Tgt Altitude		30	Record 6400 (If [29] < [28])	
6	Record Obsr Altitude		31	Compute Wind Direction [29] + [30]	
7	Compute OT VI [5] - [6]		32	Record Dir of Fire [28](100)	
8	Compute Tgt Cld Ht [4] - [7]		33	Compute Chart Dir Wind [31] - [32]	
9	Enter Chg, Visibility, Cld Ceiling Tbl With [1], [3], [8]; Extract Change and Mode		34	Enter Tbl C With [33]; Record the Range Wind Component	
10	Record Tgt Altitude [5]		35	Record Wind Speed [18]	
11	Record Btry Altitude		36	Compute Rg Wind [34]X[35] (1 knot)	
12	Compute VI [10] - [11]		37	Enter Tbl C With [33]; Record the Crosswind Component	
13	Compute Δ Si (GST) [12], [1]		38	Record Wind Speed [18]	
14	Enter Tbl F with [1]; Record EI From Col 3		39	Compute Crosswind [37]X[38] (1 knot)	
15	Compute Trial QE VI [13] + [14]		40	Enter Tbl F With [1]; Record the Crosswind Correction	
16	Enter Tbl A with [15]; Record Met Message Line Number		41	Compute Tot Df Corr [39]X[40] (1 mil)	
17	Record Wind Dir		42	Record Chart Df [2]	
18	Record Wind Speed		43	Compute Df to Fire [41] + [42]	
19	Record Air Temp		44	Record Btry Altitude [11] (10 meters)	
20	Record Air Density		45	Record MDP Altitude From Met Msg	
21	Record Common Df		46	Compute Δ h [44] - [45]	
22	Record Chart Df [2]		47	Enter Tbl D With [46]; Record the Temp Correction	
23	Compute Difference [21] - [22] (+/-)		48	Record Air Temp [19]	
24	Record AOL		49	Compute Corr Air Temp [47] + [48]	
25	Compute Dir of Fire [23] + [24] (1 mil)		DTG Tgt Number		

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STEP	ACTION	VALUE	STEP	ACTION	VALUE
50	Enter Tbl D With [46]; Record the Density Corr		73	Compute Corr Air Density [52]	
51	Record Air Density [20]		74	Enter 100	
52	Compute Corr Air Density [50] + [51]		75	Compute Variation From Std [73] - [74]	
53	Record Propellant Temp		76	Enter Tbl F With [1]; Record the Density	
54	Enter Tbl E With [53]; Record the Change in MV (0.1 m/s)		77	Compute Density Rg Corr [75]X[76] (0.1)	
55	Record MVV; Go to [62]; If Unknown, Enter 0; Go to [56]		78	Record ΔV Rg Corr [64]	
56	Record Pullover Gauge Reading		79	Compute Rg Wind Corr [67]	
57	Enter Approx Loss in MV Tbl With [56], EFCs Equal to [56]		80	Record Air Temp Corr [72]	
58	Record the Erosion EFCs Since Last Pullover Gauge Reading		81	Compute Tot Rg Corr [77] + [78] + [79] + [80] (10 meters)	
59	Compute Total EFCs [57] + [58]		82	Record Chart Rg [1]	
60	Enter Approx Loss in MV Tbl With [59]; Record Loss in MV		83	Compute Corr Rg [81] + [82]	
61	Record Propellant Efficiency		84	Enter Tbl F With [83]; Interpolate the EI From Col 3 (1 mil)	
62	Compute ΔV [54] + [55] or +[60] + 61] (I/D) if no entry available		85	Record $\angle$ Si [13]	
63	Enter Tbl F With [1]; Record the MV Unit Correction		86	Enter Tbl G With [82]; Record the CSF for 1 mil Angle of Site	
64	Compute ΔV Rg Corr [62]X[63]		87	Compute CAS [85]X[86] Same Sign as [86] (0.1 mil)	
65	Record Range Wind [36]		88	Record $\angle$ Si [85]	
66	Enter Tbl F With [1]; Record the Rg Wind Correction		89	Compute Si [87] + [88]	
67	Compute Rg Wind Corr [65]X[66]		90	Record EI [84] (1 mil)	
68	Record Corr Air Temp [49]		91	Compute QE to Fire [89] + [90]	
69	Enter 100		92	Enter Tbl F With [83]; Record the Time Setting	
70	Compute Variation From Std [68] - [69]		93	Record Switch Setting [92] Followed by Obsr PRF Code	
71	Enter Tbl F With [1]; Record the Air Temp Rg Unit Corr		94	Enter Tbl F With [83]; Record the Designate Time	
72	Compute Air Temp Rg Corr [70]X[71] (0.1 meter)		Firing Data Chg [9] _____ Switch Setting [93] _____ Df [43] _____ QE [91] _____		