

VSCC Events Tonnage CO2 Calculator Derived from Clear.eco Data

Ver:Prelim	MRD	29/01/2022	
Ver:1	DJB	30/01/2022	'ACPE' : Average Charge per Entrant
Ver: 2	MRD	31/01/2022	
Ver: 2.1	DJB	31/01/2022	
Ver: 2.2 / 2.3	DJB	02/02/2022	Added admin charges
Ver: 2.4	MRD/DJB	10/03/2022	Modify Scenario A for 400% total offset based on later ('Option 7') Tree V proposal (£5152 for 400% offset including admin charges)
Ver: 2.5	MRD/DJB	10/03/2022	Addition of -75% MPG for hillclimbs and +15 miles to Pomeroy (per Annabel Jones (AJ) request)
Ver: 3.0	DJB	11/03/2022	Apply (2.4) and (2.5) to all scenarios. Include Woodland Trust levy/deduction.
Ver: 3.1	DJB	13/03/2022	Modify to allow for Tree-V 0.5t rounding and the fact that admin charges are not now levied per entrant. Add Scenario A less AJ modifications at end for reference.
Ver: 3.2	DJB	14/03/2022	Version showing all scenarios with/without AJ modifications. For sub-committee and board perusal.
Ver: 3.3	MRD	14/03/2022	Tree-V rounding incorporated explicitly into the calculator to avoid built-in loss. For sub-committee and board perusal.
Ver: 3.4	DJB	02/04/2022	Final version based on 2021 events as agreed upon by board meeting 16/3/2022.

Constants

CO2 (t) per gallon used	0.01278	(Clear.eco data)
Offset cost / tonne	£ 18.40	(Tree-V)
Admin charge /entrant	£ -	(N/A V:3.1+)
Recover percentage	400%	
Woodland Trust (WT) levy	£ 1.00	(As added to entry fees up to 2021)
Tree-V Rounding Up Factor	1.0047	(Based on actuals in spreadsheet)

SCENARIO A (Original, without AJ changes) : Assuming Average MPG in Normal Road Use of 20-25mpg																
(2021) DISCIPLINE	No. of Events	Avg. MPG	Avg. miles per event (VSCC data)	VSCC advice based on MPG above	2021 average entry/event	Avg. CO2 per event (Tonnes)	Avg. CO2 per entrant per event	Offset cost		Offset Cost Per Entry		Total for Events in Year (incl admin)		Total entry costs in Year less WT levy	Average total Season Cost per Entrant (incl admin)	Total Number of Entrants
								(excl admin) /event	(incl admin) /entry	less WT levy	less WT Levy Rounded	Tonnes	Cost			
Race Mtg (4 races)	4	10	29.4	Lower Fig -10	163	6.125	0.038	£ 450.77	£ 2.77	£1.77	£1.78	24.50	£ 1,803.06	£ 1,151.06	£ 11.06	652
Pomeroy (2020)	1	10	36	Lower Fig -10	114	5.245	0.046	£ 386.03	£ 3.39	£2.39	£2.40	5.24	£ 386.03	£ 272.03	£ 3.39	114
Hill Climb	8	10	2.9	Lower Fig -10	134	0.497	0.004	£ 36.55	£ 0.27	-£0.73	-£0.73	3.97	£ 292.42	-£ 779.58	£ 2.18	1072
Speed Trial	1	10	2	Lower Fig -10	112	0.286	0.003	£ 21.07	£ 0.19	-£0.81	-£0.81	0.29	£ 21.07	-£ 90.93	£ 0.19	112
Trials	7	20	65	Lower Fig	83	3.447	0.042	£ 253.73	£ 3.06	£2.06	£2.07	24.13	£ 1,776.13	£ 1,195.13	£ 21.40	581
Auto Solo	2	15	1	Lower Fig -5	36	0.031	0.001	£ 2.26	£ 0.06	-£0.94	-£0.94	0.06	£ 4.51	-£ 67.49	£ 0.13	72
Driving Test	3	15	1.5	Lower Fig -5	57	0.073	0.001	£ 5.36	£ 0.09	-£0.91	-£0.91	0.22	£ 16.08	-£ 154.92	£ 0.28	171
Rally	2	20	74	Lower Fig	28	1.324	0.047	£ 97.45	£ 3.48	£2.48	£2.50	2.65	£ 194.90	£ 138.90	£ 6.96	56
Tour	6	25	90	Higher Fig	33	1.518	0.046	£ 111.75	£ 3.39	£2.39	£2.40	9.11	£ 670.48	£ 472.48	£ 20.32	198
Totals:												70.17	£ 5,164.69	£ 2,136.69		3028
With Tree-V Rounding Up:												70.50	£ 5,188.80			
															ACPE Required	£ 1.706
															ACPE Rounded	£ 1.714
Total CO2 offset 2021 (tonnes):												280.69			ACPE Required (less WT levy)	£ 0.706
Total CO2 offset (t) paid for:												282.00			ACPE Rounded (less WT levy)	£ 0.714