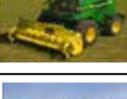


IoH Engineering Matrix

IoH Category	Photo	Vehicle ID	Vehicle Make	EMPTY CONFIGURATION					FULLY-LOADED CONFIGURATION				
				Gross Weight	Meets FBF?	Controlling Element for FBF	BRIDGE Impact	PAVEMENT Impact	Gross Weight	Meets FBF?	Controlling Element for FBF	BRIDGE Impact	PAVEMENT Impact
I		T1	John Deere 8430	Total = 30,240 lbs	YES	Axle 2 = 17,300 lbs	LOW	LOW	Total = 30,240 lbs	YES	Axle 2 = 17,300 lbs	LOW	LOW
				Axle 1 = 12,900		87% of FBF			Axle 1 = 12,900		87% of FBF		
				Axle 2 = 17,300 lbs					Axle 2 = 17,300 lbs				
I		T2	M. Ferguson 8470	Total = 21,780 lbs	YES	Axle 2 = 12,700 lbs	LOW	LOW	Total = 21,780 lbs	YES	Axle 2 = 12,700 lbs	LOW	LOW
				Axle 1 = 9,080 lbs		64% of FBF			Axle 1 = 9,080 lbs		64% of FBF		
				Axle 2 = 12,700 lbs					Axle 2 = 12,700 lbs				
I		T6	John Deere 8230	Total = 30,820 lbs	YES	Axle 2 = 17,600 lbs	LOW	LOW	Total = 30,820 lbs	YES	Axle 2 = 17,600 lbs	LOW	LOW
				Axle 1 = 13,220 lbs		88% of FBF			Axle 1 = 13,220 lbs		88% of FBF		
				Axle 2 = 17,600 lbs					Axle 2 = 17,600 lbs				
I		T7	Case IH 275	Total = 32,900 lbs	YES	Axle 2 = 19,020 lbs	LOW	LOW	Total = 32,900 lbs	YES	Axle 2 = 19,020 lbs	LOW	LOW
				Axle 1 = 13,880 lbs		95% of FBF			Axle 1 = 13,880 lbs		95% of FBF		
				Axle 2 = 19,020 lbs					Axle 2 = 19,020 lbs				
I		G1	Case IH 9330	Total = 27,400 lbs	YES	Axle 2 = 14,800 lbs	LOW	LOW	Total = 27,400 lbs	YES	Axle 2 = 14,800 lbs	LOW	LOW
				Axle 1 = 12,600 lbs		74% of FBF			Axle 1 = 12,600 lbs		74% of FBF		
				Axle 2 = 14,800 lbs					Axle 2 = 14,800 lbs				
I		T8	Case IH Steiger 485	Total = 53,430 lbs	NO	Axle 2 = 26,950 lbs	MEDIUM	HIGH	Total = 53,430 lbs	NO	Axle 2 = 26,950 lbs	MEDIUM	HIGH
				Axle 1 = 26,480 lbs		135% of FBF			Axle 1 = 26,480 lbs		132% of FBF		
				Axle 2 = 26,950 lbs					Axle 2 = 26,950 lbs				
II		N/A	John Deere Forage Harvester	Total = 36,538 lbs	NO	Axle 1 = 21,923 lbs	LOW	MEDIUM	Total = 45,718 lbs	NO	Axle 2 = 27,431 lbs	MEDIUM	MEDIUM
				Axle 1 = 21,923 lbs		110% of FBF			Axle 1 = 27,431 lbs		137% of FBF		
				Axle 2 = 14,615 lbs					Axle 2 = 18,287 lbs				
II		S3	AGCO Terragator 8204	Total = 31,600 lbs	YES	Axle 2 = 17,860 lbs	LOW	LOW	Total = 49,000 lbs	NO	Axle 2 = 29,000 lbs	MEDIUM	HIGH
				Axle 1 = 13,920 lbs		89% of FBF			Axle 1 = 20,000 lbs		145% of FBF		
				Axle 2 = 17,860 lbs					Axle 2 = 29,000 lbs				
II		R4	AGCO Terragator 9203	Total = 37,540 lbs	NO	Axle 2 = 23,840 lbs	LOW	HIGH	Total = 58,000 lbs	NO	Axle 2 = 41,200 lbs	MEDIUM	HIGH
				Axle 1 = 13,700 lbs		119% of FBF			Axle 1 = 16,800 lbs		206% of FBF		
				Axle 2 = 23,840 lbs					Axle 2 = 41,200 lbs				
II		R5	AGCO Terragator 8144	Total = 31,730 lbs	YES	Axle 2 = 16,440 lbs	LOW	LOW	Total = 47,100 lbs	NO	Axle 2 = 30,700 lbs	MEDIUM	HIGH
				Axle 1 = 15,290 lbs		82% of FBF			Axle 1 = 16,400 lbs		153% of FBF		
				Axle 2 = 16,440 lbs					Axle 2 = 30,700 lbs				
II		R6	AGCO Terragator 3104	Total = 42,050 lbs	NO	Axle 1 = 24,150 lbs	LOW	HIGH	Total = 74,700 lbs	NO	Axle 2 = 48,700 lbs	HIGH	VERY HIGH
				Axle 1 = 24,150 lbs		121% of FBF			Axle 1 = 26,000 lbs		244% of FBF		
				Axle 2 = 17,900 lbs					Axle 2 = 48,700 lbs				
III		S4	Homemade	Total = 27,860 lbs	YES	Total = 27,860 lbs	LOW	LOW	Total = 65,000 lbs	NO	Tandem = 49,000 lbs	MEDIUM	MEDIUM
				Axle 1 = 12,680 lbs		70% of FBF			Axle 1 = 16,000 lbs		144% of FBF		
				Axle 2 = 6,480 lbs					Axle 2 = 24,500 lbs				
				Axle 3 = 8,700 lbs					Axle 3 = 24,500 lbs				
III		S5	Homemade	Total = 28,100 lbs	YES	Total = 28,100 lbs	LOW	LOW	Total = 62,300 lbs	NO	Tandem = 43,000 lbs	MEDIUM	LOW
				Axle 1 = 12,700 lbs		70% of FBF			Axle 1 = 19,300 lbs		126% of FBF		
				Axle 2 = 8,320 lbs					Axle 2 = 21,500 lbs				
				Axle 3 = 7,080 lbs					Axle 3 = 21,500 lbs				
IV		T1	John Deere 8430 w/Houle Tank	Total = 44,500 lbs	YES	Axle 2 = 17,300 lbs	LOW	LOW	Total = 81,000 lbs	NO	Axle 2 = 25,000 lbs	HIGH	MEDIUM
				Axle 1 = 12,940 lbs		87% of FBF			Axle 1 = 11,000 lbs		125% of FBF		
				Axle 2 = 17,300 lbs					Axle 2 = 25,000 lbs				
				Axle 3 = 6,280 lbs					Axle 3 = 21,000 lbs				
				Axle 4 = 7,980 lbs					Axle 4 = 24,000 lbs				
IV		T2	M. Ferguson 8470 w/Husky Tank	Total = 30,780 lbs	YES	Axle 2 = 12,700 lbs	LOW	LOW	Total = 63,900 lbs	NO	Tandem = 36,600 lbs	MEDIUM	LOW
				Axle 1 = 9,080 lbs		64% of FBF			Axle 1 = 9,500 lbs		108% of FBF		
				Axle 2 = 12,700 lbs					Axle 2 = 17,800 lbs				
				Axle 3 = 4,520 lbs					Axle 3 = 18,800 lbs				
				Axle 4 = 4,480 lbs					Axle 4 = 17,800 lbs				
IV		T6	John Deere 8230 w/Husky Tank	Total = 45,860 lbs	YES	Axle 2 = 17,600 lbs	LOW	LOW	Total = 89,700 lbs	NO	Tandem = 55,000 lbs	HIGH	HIGH
				Axle 1 = 13,220 lbs		88% of FBF			Axle 1 = 11,200 lbs		162% of FBF		
				Axle 2 = 17,600 lbs					Axle 2 = 23,500 lbs				
				Axle 3 = 7,140 lbs					Axle 3 = 23,500 lbs				
				Axle 4 = 7,900 lbs					Axle 4 = 31,500 lbs				
IV		T7	Case IH 275 w/Houle Tank	Total = 58,540 lbs	YES	Axle 2 = 19,020 lbs	LOW	MEDIUM	Total = 105,300 lbs	NO	Tridem = 71,000 lbs	HIGH	HIGH
				Axle 1 = 13,880 lbs		95% of FBF			Axle 1 = 10,300 lbs		169% of FBF		
				Axle 2 = 19,020 lbs					Axle 2 = 24,000 lbs				
				Axle 3 = 8,520 lbs					Axle 3 = 23,000 lbs				
				Axle 4 = 8,440 lbs					Axle 4 = 24,000 lbs				
IV		T8	Case IH 485 w/Houle Tank	Total = 78,290 lbs	NO	Axle 2 = 26,950 lbs	MEDIUM	HIGH	Total = 134,000 lbs	NO	Quad = 96,900 lbs	HIGH	HIGH
				Axle 1 = 26,480 lbs		132% of FBF			Axle 1 = 11,100 lbs		181% of FBF		
				Axle 2 = 26,950 lbs					Axle 2 = 26,000 lbs				
				Axle 3 = 6,120 lbs					Axle 3 = 22,500 lbs				
				Axle 4 = 6,140 lbs					Axle 4 = 24,800 lbs				
				Axle 5 = 6,080 lbs					Axle 5 = 24,800 lbs				
IV		G1	Case IH 9330 w/Parker 938 Cart	Total = 37,900 lbs	YES	Axle 2 = 14,800 lbs	LOW	LOW	Total = 87,400 lbs	NO	Axle 3 = 49,000 lbs	HIGH	HIGH
				Axle 1 = 12,600 lbs		74% of FBF			Axle 1 = 8,700 lbs		245% of FBF		
				Axle 2 = 14,800 lbs					Axle 2 = 29,700 lbs				
				Axle 3 = 10,500 lbs					Axle 3 = 49,000 lbs				

Last Updated: July 8, 2013