DRAFT: IoH Engineering Matrix

				EMPTY CONFIGURATION					FULLY-LOADED CONFIGURATION				
IoH Category	Photo	Vehicle ID	Vehicle Make		Meets FBF?		BRIDGE	PAVEMENT		Meets FBF?			PAVEMENT
				Gross Weight	Meets FBF?	Controlling Element for FBF	Impact	Impact	Gross Weight	Meets FBF?	Controlling Element for FBF	BRIDGE Impact	Impact
1	350	т1	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
				Axie 1 = 12,900 Axie 2 = 17,300 lbs		87% of FBF			Axle 1 = 12,900 Axle 2 = 17,300 lbs		87% of FBF		
				Total = 21,780 lbs		Axle 2 = 12,700 lbs			Total = 21,780 lbs		Axle 2 = 12,700 lbs		
1	1000	T2	M. Ferguson 8470	Axle 1 = 9,080 lbs	YES	64% of FBF	LOW	LOW	Axle 1 = 9,080 lbs	YES	64% of FBF	LOW	LOW
				Axle 2 = 12,700 lbs		04% OI FBF			Axle 2 = 12,700 lbs		04% UI FBF		
	6	Т6	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
1				Axle 1 = 13,220 lbs		88% of FBF			Axle 1 = 13,220 lbs		88% of FBF		
				Axie 2 = 17,600 lbs Total = 32,900 lbs		Axle 2 = 19,020 lbs			Axle 2 = 17,600 lbs Total = 32,900 lbs		Axle 2 = 19,020 lbs		
1	DOF	17	Case IH 275	Total = 32,900 lbs Axle 1 = 13,880 lbs	YES	Axle 2 = 19,020 lbs	LOW	LOW	Total = 32,900 lbs Axle 1 = 13,880 lbs	YES	Axie 2 = 19,020 lbs	LOW	LOW
				Axle 2 = 19,020 lbs		95% of FBF			Axle 2 = 19,020 lbs		95% of FBF	LOW	
	-			Total = 27,400 lbs		Axle 2 = 14,800 lbs			Total = 27,400 lbs		Axie 2 = 14,800 lbs		
1	00	G1	Case IH 9330	Axle 1 = 12,600 lbs	YES		LOW	LOW	Axle 1 = 12,600 lbs	YES	74% of FBF	LOW	LOW
				Axle 2 = 14,800 lbs		74% of FBF			Axle 2 = 14,800 lbs		74% of FBF		
	100			Total = 53,430 lbs		Axle 2 = 26,950 lbs			Total = 53,430 lbs		Axle 2 = 26,950 lbs		
1	000	Т8	Case IH Stieger 485	Axle 1 = 26,480 lbs	. NO	135% of FBF	MEDIUM	HIGH	Axle 1 = 26,480 lbs	NO	132% of FBF	MEDIUM	HIGH
				Axle 2 = 26,950 lbs Total = 36,538 lbs		Axle 1 = 21,923 lbs			Axle 2 = 26,950 lbs Total = 45,718 lbs				
		N/A	John Deere Forage Harvester	Total = 36,538 lbs Axle 1 = 21,923 lbs	NO	Axle 1 = 21,923 lbs	LOW	MEDIUM	Total = 45,718 lbs Axle 1 = 27,431 lbs	NO	Axle 2 = 27,431 lbs	MEDIUM	MEDIUM
				Axle 2 = 14,615 lbs		110% of FBF			Axle 2 = 18,287 lbs		137% of FBF		
				Total = 31,600 lbs		Axle 2 = 17,860 lbs			Total = 49,000 lbs		Axle 2 = 29,000 lbs		
ı		\$3	AGCO Terragator 8204	Axle 1 = 13,920 lbs	YES		LOW	LOW	Axle 1 = 20,000 lbs	NO		MEDIUM	HIGH
				Axle 2 = 17,680 lbs		89% of FBF			Axle 2 = 29,000 lbs		145% of FBF		
ıı		R4	AGCO Terragator 9203	Total = 37,540 lbs	NO	Axle 2 = 23,840 lbs	LOW	нібн	Total = 58,000 lbs	NO	Axle 2 = 41,200 lbs	MEDIUM	нідн
				Axle 1 = 13,700 lbs		119% of FBF			Axle 1 = 16,800 lbs		206% of FBF		
				Axie 2 = 23,840 lbs Total = 31,730 lbs		Axle 2 = 16,440 lbs			Axle 2 = 41,200 lbs Total = 47,100 lbs		Axle 2 = 30,700 lbs		
п		RS	AGCO Terragator 8144	Axle 1 = 15,290 lbs	YES	Axie 2 = 16,440 lbs	LOW	LOW	Axle 1 = 16,400 lbs	NO	Axie 2 = 30,700 lbs	MEDIUM	HIGH
				Axle 2 = 16,440 lbs	115	82% of FBF			Axle 2 = 30,700 lbs		153% of FBF		
ı	6	R6	AGCO Terragator 3104	Total = 42,050 lbs	NO	Axle 1 = 24,150 lbs	LOW	нісн	Total = 74,700 lbs	NO	Axie 2 = 48,700 lbs	нісн	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				
ш	O	\$4	Homemade	Total = 27,860 lbs Axle 1 = 12.680 lbs	YES	Total = 27,860 lbs	LOW	LOW	Total = 65,000 lbs Axle 1 = 16,000 lbs	NO	Tandem = 49,000 lbs	MEDIUM	MEDIUM
				Axie 1 = 12,680 lbs Axie 2 = 6,480 lbs		70% of FBF			Axle 1 = 16,000 lbs Axle 2 = 24,500 lbs		144% of FBF		
				Axle 3 = 8,700 lbs					Axle 3 = 24,500 lbs				
		\$5	Homemade	Total = 28,100 lbs Axle 1 = 12,700 lbs	YES	Total = 28,100 lbs	LOW	LOW	Total = 62,300 lbs Axle 1 = 19,300 lbs	NO	Tandem = 43,000 lbs		LOW
				Axle 2 = 8,320 lbs		70% of FBF			Axle 2 = 21,500 lbs		126% of FBF	MEDIUM	
				Axle 3 = 7,080 lbs					Axle 3 = 21,500 lbs				
īv	1000	т1	John Deere 8430 w/Houle Tank	Total = 44,500 lbs Axle 1 = 12,940 lbs	YES	Axle 2 = 17,300 lbs	LOW	LOW	Total = 81,000 lbs Axle 1 = 11.000 lbs	NO	Axle 2 = 25,000 lbs	нібн	MEDIUM
				Axle 2 = 17,300 lbs					Axle 2 = 25,000 lbs				
				Axle 3 = 6,280 lbs Axle 4 = 7,980 lbs		87% of FBF			Axie 3 = 21,000 lbs Axie 4 = 24,000 lbs		125% of FBF		
				Total = 30,780 lbs		Axle 2 = 12,700 lbs			Total = 63,900 lbs		Tandem = 36,600 lbs		
īv	664	T2	M. Ferguson 8470 w/Husky Tank	Axle 1 = 9,080 lbs	YES	Axie 2 = 12,700 lbs	LOW	LOW	Axle 1 = 9,500 lbs	NO	1 andem = 36,600 lbs	MEDIUM	LOW
				Axle 2 = 12,700 lbs Axle 3 = 4,520 lbs		64% of FBF			Axle 2 = 17,800 lbs Axle 3 = 18,800 lbs		108% of FBF		
				Axle 4 = 4,480 lbs					Axle 4 = 17,800 lbs				
īv				Total = 45,860 lbs Axle 1 = 13,220 lbs	YES	Axle 2 = 17,600 lbs		row	Total = 89,700 lbs Axle 1 = 11,200 lbs		Tandem = 55,000 lbs	HIGH	нібн
		Т6	John Deere 8230 w/Husky Tank	Axie 1 = 13,220 lbs Axie 2 = 17,600 lbs			LOW		Axie 1 = 11,200 lbs Axie 2 = 23,500 lbs	NO			
				Axle 3 = 7,140 lbs		88% of FBF			Axle 3 = 23,500 lbs		162% of FBF		
\vdash		-		Axle 4 = 7,900 lbs Total = 58,540 lbs					Axle 4 = 31,500 lbs Total = 105,300 lbs				
īv		17	Case IH 275 w/Houle Tank	Axle 1 = 13,880 lbs		Axie 2 = 19,020 lbs	LOW	MEDIUM	Axle 1 = 10,300 lbs		Tridem = 71,000 lbs	— нібн	нібн
	000			Axle 2 = 19,020 lbs Axle 3 = 8,520 lbs	YES				Axle 2 = 24,000 lbs Axle 3 = 23,000 lbs	NO NO			
	1			Axie 3 = 8,520 lbs Axie 4 = 8,440 lbs					Axie 3 = 23,000 lbs Axie 4 = 24,000 lbs		169% of FBF		
				Axle 5 = 8,680 lbs					Axle 5 = 24,000 lbs				
īv	(Opport	TS	Case IH 485 w/Houle Tank	Total = 78,290 lbs Axle 1 = 26,480 lbs	NO	Axle 2 = 26,950 lbs	MEDIUM	HIGH	Total = 134,000 lbs Axle 1 = 11,100 lbs	NO	Quad = 96,900 lbs		нібн
				Axle 2 = 26,950 lbs					Axle 2 = 26,000 lbs			нібн	
				Axle 3 = 6,120 lbs Axle 4 = 6,140 lbs					Axle 3 = 22,500 lbs Axle 4 = 24,800 lbs				
				Axie 4 = 6,140 lbs Axie 5 = 6,080 lbs					Axle 4 = 24,800 lbs Axle 5 = 24,800 lbs		181% of FBF		
				Axle 6 = 6,520 lbs					Axle 6 = 24,800 lbs				
īv	7.5	G1	Case IH 9330 w/Parker 938 Cart	Total = 37,900 lbs Axle 1 = 12,600 lbs	YES	Axle 2 = 14,800 lbs	LOW	LOW	Total = 87,400 lbs Axle 1 = 8,700 lbs	NO	Axle 3 = 49,000 lbs	HIGH	HIGH
				Axle 2 = 14,800 lbs		74% of FBF			Axle 2 = 29,700 lbs		245% of FBF		
L				Axle 3 = 10,500 lbs					Axle 3 = 49,000 lbs				

Last Updated: July 8, 2013