

Appendix

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for the paper entitled

Factors influencing the wear of standard cultivator shares under practical operating conditions

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Table A1: Preliminary wear testing in accordance with ASTM G65

Wear testing in accordance with ASTM G65										
weight force: 130N			rotational speed: 200 1/min				duration time: 30 min			
sample:	7 (uncoated)	8 (uncoated)	9 (uncoated)	10 (uncoated)	1 (FeMoAl Plasma)	2 (FeMoAl Plasma)	3 (FeMoAl Plasma)	4 (Fe-based LiBo)	5 (Fe-based LiBo)	6 (Fe-based LiBo)
mass loss (mg)	390	360	330	500	200	320	320	140	160	150

Table A2: Raw measurements of share weights, mass loss, and changes in length

share	share weight before field test (g)	share weight after field test (g)	mass loss (g)	mass loss (g/ha)	length change (mm)	length change (mm/ha)
P0.1	2072,52	1554,52	518,00	9,42	54,00	0,98
P0.2	2080,27	1572,16	508,11	9,24	55,00	1,00
P0.3	2078,98	1702,11	376,87	6,85	43,00	0,78
P4	2145,54	1624,57	520,97	9,47	51,00	0,93
P5	2142,29	1571,06	571,23	10,39	55,00	1,00
P6	2133,94	1731,50	402,44	7,32	40,00	0,73
P7	2148,05	1778,46	369,59	6,72	38,00	0,69
P8	2143,89	1660,52	483,37	8,79	44,00	0,80
P9	2134,49	1584,81	549,68	9,99	53,00	0,96
P10	2088,46	1664,48	423,98	8,83	42,00	0,88
P11	2053,09	1634,25	418,84	8,73	50,00	1,04
P12	2063,34	1784,31	279,03	5,81	36,00	0,75
P13	2060,79	1773,91	286,88	5,98	35,00	0,73
P14	2056,39	1646,78	409,61	8,53	48,00	1,00
P15	2061,78	1634,88	426,90	8,89	50,00	1,04
P16	1991,04	1554,99	436,05	9,08	54,00	1,13
P17	1982,10	1658,09	324,01	6,75	43,00	0,90
P18	1976,94	1595,37	381,57	7,95	48,00	1,00
P28p	2401,50	2267,84	133,66	5,04	9,00	0,34
P29p	2396,91	2330,31	66,6	2,51	3,00	0,11
P30p	2398,48	2277,1	121,38	4,58	7,00	0,26
P1	2088,67	1994,87	93,8	3,54	11,00	0,42
P2	2096,53	1948,62	147,91	5,58	16,00	0,60
P3	2105,67	1923,78	181,89	6,86	17,00	0,64
P1.1	2082,8	1891,4	191,4	7,22	20,00	0,75
P1.2	2091,47	1929,84	161,63	6,10	20,00	0,75
P1.3	2090,9	1961,67	129,23	4,88	15,00	0,57