

1 **Appendix A** The nutrient of straw and ash in 2010-2017 (kg ha⁻¹)

Season	Returning method	Nutrient	2010	2011	2012	2013	2014	2015	2016	2017
Early rice	Ash	N	2.59	1.66	1.48	1.91	1.63	1.94	4.40	1.63
		P ₂ O ₅	3.41	7.18	3.53	4.55	3.88	6.80	11.90	3.90
	Straw	K ₂ O	90.00	106.76	67.09	86.39	73.66	115.50	125.70	75.09
		N	40.30	58.39	43.63	55.34	47.11	52.00	30.20	41.90
		P ₂ O ₅	5.99	11.98	7.82	9.92	8.45	9.00	8.80	7.53
		K ₂ O	105.23	115.65	98.92	125.48	106.83	112.50	129.70	94.76
Late rice	Ash	N	2.51	1.39	2.05	2.18	2.08	1.85	2.00	2.38
		P ₂ O ₅	3.44	5.90	4.87	5.19	4.95	4.40	9.00	5.47
	Straw	K ₂ O	92.01	91.38	92.54	98.59	94.11	83.67	73.00	99.96
		N	39.44	50.82	59.22	63.04	60.34	56.59	51.60	48.52
		P ₂ O ₅	4.43	10.79	10.62	11.30	10.82	10.15	7.00	8.95
		K ₂ O	97.93	110.70	134.28	142.93	136.82	128.31	72.50	98.98

2 **Appendix B** The amount of straw and ash in 2010-2017 (kg ha⁻¹)

Season	Returning method	2010	2011	2012	2013	2014	2015	2016	2017
Early rice	Ash	964	1100	918	1182	1008	1050	1037	902
	Straw	6980	8020	6630	8410	7160	7620	7410	6330
Late rice	Ash	1274	1281	1267	1349	1288	1145	1227	1184
	Straw	8120	8720	9000	9580	9170	8600	8470	8060

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