



DATABASE OF AGRICULTURAL MECHANIZATION IN INDONESIA

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OUTLINE

I

- **INTRODUCTION**

II

- **DEVELOPMENT OF AGRICULTURAL MACHINERY IN INDONESIA**

III

- **PROBLEMS AND CONSTRAINTS**





INTRODUCTION



INTRODUCTION

- **New Government policy on food: Food surplus mainly (rice, maize and soybean) within 3 years then sugar and meat.**
- **Strategy to achieve food surplus:**
 - **Increase planting area 1 million ha through intensification and increasing crop index**
 - **Improve and revitalize of irrigation facility**
 - **Provide good quality of HYV seed at proper quantity, variety and time**
 - **Increase the number of agricultural machinery, improve the capability of operator and custom hiring**



STATUS OF AGRICULTURE DEVELOPMENT IN INDONESIA (2014)

- Total paddy, maize and soybean area: 13.57, 3.78 and 0.61 million ha respectively.
- Size of farmland : (0.3-1.0 ha/farmer)
- Labor working in agriculture decreases from 31.17 mill in 2003 to 26.13 mill people in 2013





DEVELOPMENT OF AGRICULTURAL MACHINERY IN INDONESIA



NUMBER OF AGRICULTURAL MACHINERY IN INDONESIA YEAR 2009-2013

Year	2 W Tractor	4W Tractor	Water Pump	Transplanter	Thresher	Combine Harvester	RMU	Dryer
2009	126.453	2.969	87.324	-	151.284	-	97.779	2.021
2010	126.016	2.969	87.801	-	201.241	-	97.881	2.436
2011	115.834	2.945	97.253	204	395.005	21	98.255	2.560
2012	121.397	3.153	107.876	360	397.255	221	98.219	3.311
2013	192.905	3.338	140.233	636	401.132	754	98.223	2.943



Impact of Custom Hiring on food production

	2008	2009	2010	2011	2012	2013
PADDY :						
- Total land (mil. ha)	12.299	12.669	12.870	13.204	13.446	13.569
- Production (mil. ton dried)	60.326	64.399	65.150	65.757	69.056	71.291
MAIZE :						
- Total land (mil. ha)	4.002	4.161	4.134	3.865	3.958	3.786
- Production (mil. ton dried)	16.317	17.630	17.845	17.643	19.387	18.506
SOYBEAN :						
- Total land (mil. ha)	0.591	0.723	0.672	0.622	0.568	0.601
- Production (mil. ton dried)	0.776	0.975	0.905	0.851	0.843	0.780

Year	Number of custom hiring			Total
	Beginner	Developing	Professional	
2006	7,390	141	39	7,570
2007	7,543	409	65	8,017
2008	8,571	851	100	9,522
2009	8,145	1,783	318	11,103
2010	8,887	2,250	219	11,356
2011	8,801	2,693	453	11,947
2012	9,485	2,136	423	12,044



AGRICULTURAL MACHINERY INDUSTRY

COMPANY NAME	PRODUCT
PT YAMINDO	4 WHEELS TRACTOR , 2 WHEELS TRACTOR , TRANSPLANTER, CULTIVATOR, POWER WEEDER, REAPER, POWER THRESHER, RMU
PT KUBOTA INDONESIA	DIESEL ENGINE SINGLE CYLINDER, GENERATOR
PT AGRINDO	4 WHEELS TRACTOR , 2 WHEELS TRACTOR , REAPER, RMU, DRYER, SEPARATOR, HULLER, RICE POLISHER, PADDY CLEANER, DIESEL ENGINE, WATER PUMP
CV KARYA HIDUP SANTOSA	2 WHEELS TRACTOR , , POWER THRESHER, GENSET, RMU, WATER PUMP, SPARE PART
PT PURA BARUTAMA	DRYER, BURNER, RMU, CORN SHELLER, PADDY CLEANER, POWER THRESHER, GRANULATOR, COMPOST SIEVING MACHINE



CONTINUED

COMPANY NAME	RODUCT
PT. TRAKTOR NUSANTARA	DISTRIBUTOR OF 4 WHEELS TRACTOR MF
PT. BINA PERTIWI	DISTRIBUTOR OF 4 WHEELS TRACTOR KUBOTA
PT. ALTRAK 1978	DISTRIBUTOR OF 4 WHEELS TRACTOR KUBOTA
PT. SATRINDO MITRA UTAMA	DISTRIBUTOR OF 4 WHEELS TRACTOR JOHN DEERE





PROBLEMS AND CONSTRAINTS



PROBLEMS AND CONSTRAINTS OF AGRICULTURAL MECHANIZATION DEVELOPMENT

- **Agricultural sector generate smaller income to the people compare to other sectors**
- **Small farming size → too many levee in the field**
- **Farm road is very limited**
- **Price of agricultural machinery is high**
- **Low capability custom hiring to operate agricultural machinery**
- **Low capability operator of agricultural machinery and custom hiring.**
- **Poor access to the data and information of agricultural machineries**





THANK YOU



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