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Theoritical Study on The Impact of Trade Liberalization to The -

by Muhammad Firdaus

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Theoritical Study on The Impact of Trade Liberalization to The Economic Performance of Corn In Indonesia

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ABSTRACT: This research purposed to: 1) analyze the full impact of trade liberalization on economic performance of maize in Indonesia. 2) Analyze the impact of external shock for the economic performance of corn in Indonesia on trade liberalization era. This research using secondary data about 1975 – 2014, that gotten from many sources, there are BPS, Kementan, APPI, , FAOSTAT, NASS-USDA, ERS-USDA, Unites States of Cencus Beureau, EPI, and Worldfood. Analyze of data using system of simultaneous equations (2SLS). The results of research show that: 1) when the trade liberalization totally implemented, the world corn import had been increased higher than the increment of world corn export, so the world corn price is increase. For Indonesia, if compared with basic condition, although the world corn price increase but the effect of totally implementation trade liberalization (import corn price equal with world corn price) so Indonesian import corn import. 2) the increment of corn's demand from main importer countries and the decrease of corn production from main exporter countries on trade liberalization era cause the increment of world corn price. That increase of world corn price and the increase of Indonesian corn price and decrease of Indonesian corn price and the other hand, Indonesian corn production is increase.

Keywords: Impact, Trade Liberalization, Performance, Economic, Corn

I. INTRODUCTION

Corn is the second important plant after rice (Deptan, 2005). Corn is use to support the endurance of food and the sufficienty of ensilage. The position of corn in food diversification is decreasing the dependence of rice. Corn is also useful in garment and food industries. The necessary of corn for industry is significally increase each year (Zubachtirodin, *et.al*, 2007). Corn is main component (60%) in field rations. The majority of domestic corn necessary is use for fodder or fodder industry (55%), about 30% for food, and its residual use to another industry and seed (Kasryono, et al, 2007).

The condition of corn market in Indonesia shows that demand of corn is higher than can produced. Its make Indonesia still importing corn to met the domestic demand. Corn importing is a dilemma that have to look for its solution, because in one hand import is detrimental to farmers because import price is cheaper than local corn price, on the other hand the necessary of fodder enterpriser can not be met from domestic.

The world trade liberalization effect efford to increase national corn production (if maybe attain corn selfsufficient), have to more pay attention external factor beside of internal factor. External factors like the totally applying of world trade liberalization, demand of world corn, and the supply of world corn that influence the world price. The world corn price is direct impacted to the Indonesian corn import price, then the corn import price influence the quantity of Indonesian corn import.

The totally trade liberalization happened when there is no obstacle on international trade. According to KTT VI WTO in Hongkong December 2005, all form of export subsidy and the rule that concerned with it is deleted on 2013 (Hutabarat, dkk, 2006; Haryadi, 2010). The abolition of export subsidy is expected to increase the competitiveness of Indonesian Pricultural product.

This research purposed to: 1) analyze the totally impact of trade liberalization for the economic performance of corn in Indonesia. 2) Analyze the impact of external shock for the economic performance of corn in Indonesia on trade liberalization era.

II. METHOD OF DATA RESEARCH

This research using secondary data about 1975 – 2014, that gotten from many sources, there are Contral Bureau Of Statistics (BPS), Agricultural Ministry, Association of Indonesian Manure Produser (APPI), Food Agriculture Organization (FAO), National Agriculture Statistic Service -United States Department of Agriculture (NASS USDA), Economics Research Service-United States Department of Agriculture (ERS USDA), Unites States of Cencus Beureau, Earth Policy Institute (EPI), dan Worldfood.

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Econometric Model

Econometric model of Indonesian corn economic is grouped in two blocks, there are domestic corn market block and world corn market block. This model is has been encountered several respecification then finally the entire variable is arrange each its equality have been met the economic criteria that expected.

1. Domestic Corn Market

Domestic market block include of supply (harvest area, productivity, production, and import), demand, and price of corn.

(1) Harvested area of Corn: LJIN = $a0 + a1PP + a2LLJIN + \mu 1$

(2) Price of corn in produsen level: $PP = b0 + b1PJIN + b2LPP + \mu 2$

(3) The productivity of Corn: YJIN = $c0+c1PP+c2LYJIN + \mu 3$

- (4) The production of corn: QJIN = LJIN * YJIN
- (5) The indonesian corn demand: DJIN = DJFE + DJFO + DJS DJFE = $d0 + d1PK + d2LDJFE + \mu 4$ PK = $e0 + e1PKIN + e2LPK + \mu 5$

 $DJFO = f0 + f1GDP + f2LDJFO + \mu 6$

 $GDP = g0 + g1POP + \mu7$

- (6) The Indonesia Corn Import: $IJIN = h0 + h1DJIN + h2QJIN + h3ERI + \mu 8$
- (7) The price of Indonesian Corn Import: PI = (1 + RESTI)PJW
- (8) The price of Indonesian Corn:

$PJIN = i0 + i1DJIN + i2QJIN + i3PI + \mu9$

Where:

where.	
LPIN	= Indonesian corn harvested area
PP	= The price of corn in produsen level
PJIN	= Price of corn
PKIN	= The price of indonesian soybean
POP	= The population of indonesia
GDP	= Gross Domestic Product
PI	= The price of indonesian corn import
PJW	= The price of world corn
YJIN	= Indonesian corn productivity
QJIN	= Indonesian corn production
DJIN	= Indonesian corn demand
DJFE	= Demand of corn to fodder
DJFO	= Demand of corn to food
DJS	= Demand of corn residual of indonesia
POP	= The population of indonesia
IJIN	= Quantity of Indonesian corn Import
ERI	= Exchange rate Indonesia
RESTI	= Trade Restriction of Incinesia
LLJIN	= Lag of Indonesian corn harvested area
LYJIN	= Lag of Indonesian corn productivity
LPP	= fag of corn price in producer level
LDJFE	= Lag of corn demand for fodder
LDJFO =	Lag of corn demand for food

2. World Market of Corn

The market consists of the world's corn exports, imports, and world corn prices.

(9) Price of Corn in World Market: $PJW = j1IJW + j2EJW + j3LPJW + \mu 10$

(10) The World Export of Corn:

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	1 cal Study On The Impact Of Trade Liberalization To The Economic Performance Of Corn In AS = k1PJW + k2QJAS + k3DJAS + k4LEJAS + μ 11
	$BR = 10 + 11PJW + 12QJBR + 13DJBR + 14LEJBR + \mu 12$
EJ	$AR = m0 + m1PJW + m2QJAR + m3DJAR + m4LEKAR + \mu13$
	odity Export of Corn
	V = IJJP + IJKO + IJME + IJIN + IJSW
IJJ	$P = n0 + n1DJJP + n2NPRJP + \mu 14$
IJŀ	$XO = o0 + o1DJKO + o2NPRKO + o3LIJKO + \mu 15$
IJ	$ME = p0 + p1DJME + p2NPRME + p3LIJME + \mu16$
Where:	
IJW	= The World Import of Corn
IJJP	= Japan Import of Corn
IJKO	= Korean Import of Corn
IJME	= Mexico Import of Corn
IJSW	= The World Import of Residual Corn
EJW	= The World Export of Corn
EJAS	= USA Import of Corn
EJBR	= Brazilia Import of Corn
EJAR	= Argentina Import of Corn
EJSW	= The World Export of Residual Corn
QJAS	= US Corn Production QJBR
	Corn Production QJAR =
-	Corn Production DJAS =
	nd of Corn
DJBR	= Brazilia Demand of Corn
DJAR	= Argentina Demand of Corn
DJJP	= Japan Demand of Corn
DJKO	= Korean Demand of Corn
DJME	= 1 exico Demand of Corn
NPRJP	= Nominal protection rate Jepang
NPRKO	= Nominal protection rate Korea
NPRME	= Nominal protection rate Meksiko
LPJW	= Lag of World Price of Corn
LEJAS	= Lag of US Export of Corn
LEBR	= Lag of Brazilia Export of Corn
LEJAR	= Lag of Argentina Export of Corn
LIJKO	= Lag of Korea Export of Corn
LIJME	= Lag of Mexico Export of Corn
1 This mode	el has 21 equations, which include of 5 identity equations and 16 structural equations.

This model has 21 equations, which include of 5 identity equations and 16 structural equations.

III. RESULT AND DISCUSSION

Econometric model is built representative enough to describe the impact of trade liberalization to the Indonesia economic performance of corn. This is look from the evaluation economic criteria and statistic indicator values that already got, there is coefficient determination (\mathbb{R}^2), F test ($F_{calculated}$ and real degree (α) and Durbin Watson Test (DW). The result of statistic indicator values is completely shown in table 1 below.

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Tabel 1: Statistic Indicate	or Values: R ²	, Fcalculated, Real	Degree, dan DW

No.	Endogen Variable		Fcalculated	α	DW
(1)	(2)	(3)	(4)	(5)	(6)
1.	Harvested Corn of Indonesia (LJIN,)	0.57681	24.53	<0.0001	2.133202
2.	Price of Corn in Producer Level (PP ₁)	0.98586	1254.89	<.0001	1.695970
3.	Indonesia Productivity of Corn (YJIN _t)	0.99418	3074.13	<.0001	2.004238
4.	Demand of Corn for Fodder(DJFE _t)	0.97051	592.45	<.0001	1.718123
5.	Price of Soybean (PK _t)	0.98566	1236.89	<.0001	1.797267

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Theoritical Study On The Impact Of Trade Li	beralization To Th	e Economic	: Performa	unce Of Corn <mark>In</mark>
6. Corn Demand for Food (DJFO ₁)	0.66838	36.28	<.0001	2.143777
7. Gross Domestic Product (GDP ₁)	0.67346	76.31	<.0001	0.104804
8. Indonesia Corn Import (IJIN _t)	0.99777	5230.24	<.0001	2.054065
9. Indonesia Price of Corn (PJIN,)	0.91524	125.97	<.0001	1.806903
10. World Price of Corn (PJW_1)	0.94975	226.83	<.0001	1.571683
11. US Corn Export (EJAS ₁)	0.97069	289.73	<.0001	2.111830
12. Brazilia Corn Export (EJBR _t)	0.92670	107.47	<.0001	2.566751
13. Argentina Corn Export (EJAR _t)	0.80432	34.94	<.0001	1.998061
14. Japan Corn Import (IJJP _t)	0.97508	704.26	<.0001	2.169830
15. Korea Corn Import (IJKO ₁)	0.91824	131.02	<.0001	2.312162
16. Mexico Corn Import (IJME _t)	0.78937	43.72	<.0001	2.398561
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Keterangan: α = real degree (*level of significance*)

The evaluation of economic criteria to the all of guesser parameter that find on each equation that used to build econometric model of Indonesian corn economic have mark and quantity that compatible with economic criteria that expected (table 2 column 2). Then, coefficient determination value of equation has high value. From table 1 column 2 shows that from 16 structural equations R^2 value (equation 2, 3, 4, 6, 7, 8, 9, 10, 12, 13, 15, 16, 17, 19, 20, 21), that has R^2 value >60% is 15 equation and that has R^2 value<60% is 1 equation. It means explanatory variables that entered to the equation are able to describe behavior of its endogen variables.

Tabel 2: Econometric Model of Corn						
Variable	Coefficient	t-statistic	Prob.			
(2)	(3)	(4)	(5)			
QJIN = YJIN*LJIN						
Intersep	63200.07	1.65	0.1074			
PJIN	0.08299	1.37	0.1793			
LPP _t	0.914108	7.8	<.0001			
Intersep	63200.07	1.65	0.1074			
PJINt	0.08299	1.37	0.1793			
LPP	0.914108	7.8	<.0001			
Intersep	0.122346	1.34	0.1894			
PP _t	7.14E-08	1.39	0.1742			
LYJIN,	0.96249	17.82	<.0001			
DJIN = DJFE+DJFO+DJS						
Intersep	1281525	3.05	0.0042			
GDP _t	0.000526	1.76	0.087			
LDJFO,	0.597749	4.35	0.0001			
Intersep	-9,13E+11	-6.69	<.0001			
stic Product (GDP _t)	6.065.034	8.74	<.0001			
Intersep	174953	1.53	0.1341			
PKt	0.125492	2.67	0.0114			
LDJFE,	0.899212	14.03	<.0001			
Intersep	238071.4	2.8	0.0082			
PJIN	0.165547	3.16	0.0032			
LPK,	0.777429	8.61	<.0001			
	-37878.5	-2.5	0.0171			
1	0.995703	83.43	<.0001			
	-0.99187	-73.63	<.0001			
	-1.1187	-0.35	0.7264			
· ·						
. ,	-2627606	-9.43	<.0001			
DJIN,	0.487273	2.69	0.0109			
	-0.23926	-1.17	0.2487			
	7074.417	4.05	0.0003			
IJWt	9.19E-07	2.42	0.0207			
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	EJWt	-2.22E-07	-0.72	0.4781
	LPJW t	0.543584	4.06	0.0003
14. EJW	EJW=EJAS+EJBR+EJAR+EJSW			
15. EJAS	PKW	28927.98	0.78	0.4414
	QJAS	0.054062	0.82	0.4192
	DJAS	-0.04165	-0.52	0.6051
	LEJAS	0.814667	7.06	<.0001

Tabel 2: Continue

(1)	(2)	(3)	(4)	(5)
16. EJBR	Intersep	-3426518	-2.77	0.0090
	(PJW	21864.10	3.07	0.0041
	QJBR _t	0.339739	4.89	<.0001
	DJBR	-0.26827	-3.22	0.0028
	LEJBR	0.391784	3.60	0.0010
17. EJAR	Intersep	-556206	-0.42	0.6741
	PJWt	14044.77	1.59	0.1217
	QJAR	0.589188	4.60	<.0001
	DJAR	-0.51538	-1.17	0.2518
	LEJAR	0.234825	1.97	0.0570
18. IJW	IJW = IJJP+IJKO+IJME+IJIN+IJSW			
19. IJJP	Intersep	-919511	-2.13	0.0403
	DJJPt	1.063011	37.2	<.0001
	NPRJP ₁	-267133	-1.59	0.1209
20. IJKO	Intersep	-10019.4	-0.03	0.979
	DJKO,	0.937592	10.6	<.0001
	NPRKO	-1978536	-9.39	<.0001
	LIJKO	0.160957	2.18	0.036
21. IJME	Intersep	-1209001	-1.66	0.1057
	QJME _t	0.20733	3.88	0.0004
	NPRME	-1037039	-1.8	0.0798
	LIJME	0.430008	3.07	0.0042

The result of F test (Look at table 1 column 4) to the entire equation that used to build econometric model of Indonesian corn economic show that all of the explanatory variables that arrange the equation simultaneous is really influenced to its endogen variables on the real degree at 1%. This is show if we did t test (partial test) to each equation, therefore any one or more explanatory variable is real influenced to its endogen variable (Look at table 2 column 5).

The result of Autocorrelation test to the entire equation that used to build econometric model of corn economic using Dubin Watson test (DW test) show that from 16 structural equations that used to build model, only 1 equation that has autocorrelation indication, so guessers of coefficient regression that gotten still unbias, but the varians of disturbance variable less efficient if compared with not any autocorrelation indication. Therefore, the result of prediction model in this research is good enough to describe corn economic phenomenon in Indonesia.

The result of Model Validation

The result of anlyzis economic model of Indonesia corn with using indicators *Root Mean Square Error* (RMSE) and *Root Means Square Percent Error* (RMSPE) that showed by deviation value on table 3.

Tabel 3: Validation Resul	t with Indicator Values: Deviasi,	U-Theil, $U^{\underline{M}}$, $U^{\underline{S}}$, and $U^{\underline{C}}$ —
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No.	Variable	Deviation (%)	U-Theil	$\mathbf{U}^{\mathbf{M}}$	U ^s	UC
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1.	Harvested Corn of Indonesia (LJIN _t)	-0.05	0.05	0.00	0.15	0.85
2.	Price of Corn in Producer Level (PPt)	-0.63	0.04	0.00	0.04	0.96
3.	Indonesia Productivity of Corn (YJINt)	-0.01	0.02	0.00	0.00	1.00
4.	Indonesia Production of Corn (QJIN _t)	0.43	0.05	0.00	0.00	1.00
5.	Indonesia Demand of Corn (DJIN _t)	0.00	0.03	0.00	0.02	0.98
6.	Demand of Corn for Fodder(DJFE _t)	0.00	0.05	0.00	0.01	0.99

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7.	Price of Soybean (PK _t)		0.00	0.04	0.00	0.00	1.00
8.	Corn Demand for Food (DJFOt)		0.00	0.05	0.00	0.15	0.85
9.	Gross Domestic Product (GDPt)		0.00	0.21	0.00	0.10	0.90
10.	Indonesia Corn Import (IJIN _t)		-5.27	0.23	0.00	0.11	0.89
11.	Import Price (PI _t)		-4.86	0.10	0.05	0.16	0.79
12.	Indonesia Price of Corn (PJIN _t)		-5.54	0.19	0.01	0.01	0.98
13.	World Price of Corn (PJW _t)		-0.57	0.11	0.00	0.22	0.78
14.	World Export of Corn (EJW _t)		-6.26	0.12	0.06	0.08	0.86
15.	US Corn Export (EJASt)		-0.04	0.07	0.00	0.46	0.54
16.	Brazilia Corn Export (EJBR _t)		-0.48	0.13	0.00	0.02	0.98
17.	Argentina Corn Export (EJAR ₁)		-0.12	0.11	0.00	0.06	0.94
18.	World Corn Import (IJW ₁)		-0.90	0.01	0.13	0.02	0.85
19.	Japan Corn Import (IJJP _t)		0.00	0.01	0.00	0.00	1.00
20.	Korea Corn Import (IJKO _t)		0.00	0.06	0.00	0.02	0.98
21.	Mexico Corn Import (IJME _t)		0.00	0.13	0.00	0.06	0.94
	Rata-rata		-1.16	0.09	0.01	0.08	0.91

Forecasting of Indonesia Corn Economic Basic Condition

The result of forecasting analyzis basic conditions economic Indonesian Corn to period 2016 - 2020 showed on table 4. From table 4 show that price of world corn is UDS \$207, 1 / ton and price of Indonesian corn import achieve 477/ton. That price of Indonesian corn import is higher than the price of world corn show any trade obstacle to the corn product from overseas coming into Indonesia. On that price rate, price of Indonesian corn is 7,41 million/ton rupiah and Indonesian Corn import only 260.393 ton. With the harvested corn area of Indonesia that achieve 4,45 million hectare and productivity Corn of Indonesia is 5,93 ton/ hectare, so the Indonesian corn production is 26,45 million ton. It means corn domestic production capable to met all of corn demand of Indonesia and only 0,98% that still imported from overseas.

Tabel 4: Forecasting of Indonesia Economic Basic Condition of Corn

No.	Variable	Basic Value
1.	Harvested Corn of Indonesia (LJIN)	4451956
2.	Indonesia Productivity of Corn (YJIN)	5.9335
3.	Indonesia Production of Corn (QJIN)	26451500
4.	Indonesia Demand of Corn (DJIN)	26662286
5.	Indonesia Corn Import (IJIN)	260393
6.	Indonesia Price of Corn (PJIN)	7410416
7.	Harga Jagung Impor Indonesia (PI)	477
8.	World Price of Corn (PJW)	207.1

Simulation Implementation of Trade Liberalization and the External Shocks

The result of simulation analyzis which totally happened implementation trade liberalization and external shocks showed in table 5.

N	Variable		Change (%)			
No.		Sim 1	Sim 2	Sim 3	Sim 4	
(1)	(2)	(3)	(4)	(5)	(6)	
1.	Harvested Corn of Indonesia (LJIN _t)	-0.87	0.02	0.01	0.03	
2.	Price of Corn in Producer Level (PPt)	-3.18	0.07	0.03	0.10	
3.	Indonesia Productivity of Corn $(YJIN_t)$	-0.18	0.00	0.00	0.01	
4.	Indonesia Production of Corn (QJIN _t)	-1.07	0.02	0.01	0.03	
5.	Indonesia Demand of Corn (DJIN _t)	0.00	0.00	0.00	0.00	

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6.	Demand of Corn for Fodder(DJFEt)	0.00	00.0	0.00	0.00
7.	Price of Soybean (PK _t)	0.00	00.0	0.00	0.00
8.	Corn Demand for Food (DJFO _t)	0.00	0.00	0.00	0.00
9.	Gross Domestic Product (GDPt)	0.00	00.0	0.00	0.00
10.	Indonesia Corn Import (IJIN _t)	51.56	-1.13	-0.52	-1.66
11.	Import Price (PI _t)	-130.15	2.77	1.29	3.98
12.	Indonesia Price of Corn (PJINt)	-33.07	0.72	0.33	1.05
13.	World Price of Corn (PJW _t)	0.10	2.77	1.29	3.98
14.	World Export of Corn (EJW _t)	0.01	0.23	-8.80	-8.53
15.	US Corn Export (EJAS _t)	0.01	0.31	-3.96	-3.62
16.	Brazilia Corn Export (EJBRt)	0.02	0.45	-30.42	-29.65
17.	Argentina Corn Export (EJAR _t)	0.02	0.41	-23.44	-22.81
18.	World Corn Import (IJW ₁)	0.21	4.64	0.00	4.64
19.	Japan Corn Import (IJJP _t)	0.00	15.14	0.00	15.14
20.	Korea Corn Import (IJKO _t)	0.00	20.77	0.00	20.77
21.	Mexico Corn Import (IJME _t)	0.00	15.68	0.00	15.68

Explanation:

Sim = simulation

Sim 1= Totally Implementation of Trade Liberalization

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Sim 2= Increased Corn Demand from Major Importer Countries by 25 %

Sim 3= Decreased Corn Demand from Major Exporter Countries by 20 %

Sim 4= Increased Corn Demand From Major Importer Countries by 25 % and Decreased Corn Demand From Major Exporter Countries by 20 %

Totally implementation of trade liberalization

Totally implementation trade liberalization without trade restriction impacted to the world corn import and world corn export. The world corn import increase about 0,21%, wher The import corn of Japan, Korea, and Mexico is constant, so predicted that increase is from another countries's import excepted of three countries above. The world corn export increase about 0,01% where USA corn export increase about 0,1%, Brasil and Argentina increase about 0,02%. The increment of world corn import higher than the increment of world corn export cause the world corn price increase about 0,10% (table 5 column 3).

For Indonesia, although the world corn price increase from US 207 to be US 207, 2(0,10%) but the impact of liberalization (the world corn price equal with the wold corn impor) so the first Indonesian impor corn price that was US 476.90 decrease to US 207.2. The cheaper corn price of impor impacted on the increment quantity of Indonesian corn import about 51,56%. Although from the percentage show high increment, but in fact only 277.164 ton, which was from 260.393 ton to 537.557. If compared with the total production of corn that produced, so that Indonesian import is too small.

The decrease of that corn price is also impacted to the decrease of corn price in Indonesia about 33,07%. The decrease of Indonesian corn price impacted to the decrease of corn price in produsen level (farmers) about 3,20%. This condition impact to decreasing of farming corn competitiveness, so Indonesian corn harvested area decrease about 0,89% and productivity decrease about 0,19%. Decrease of harvested area and productivity impact to decrease of Indonesian corn production about 1,08%. In other hand, in demand side, the decrease of Indonesian corn price there is no impact to the increment of Indonesian corn demand, good both of food and fodder.

This clearly show that totally implementation of trade liberalization without trade restriction impacted to decressing domestic price of corn and increasing import of corn. Those results appropriate with the result of research that doing by Erwidodo and Hadi (1999), Triana (2009) and Ferrianta (2012). But the result of this research doesn't same with the research's result by Imron (2007) he declare that trade liberalization causing production and income of domestic corn is increase extremely because of the high increment of domestic corn price.

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External Shocks: The demand Increment of corn from Major Importer Country and The decrement of Corn Production from Major Exporter Country

The demand increment of corn from Major Importer Country and the decrement of corn production from Major Exporter Country that happened simultaneous have same impact with the demand increment of corn from Major Importer Country or the decrement of corn production from Major Exporter Country, that world price of corn is increase. But because of happened simultaneous, so the rate of change more big than before. From table 5 column 6 can be known that the demand increment from Major Importer Country and The production decrement of Corn from Major Exporter Country causing The world import of Corn increase about 4,64%. Whereas in export side, The world export of corn decrease 8,53%. Any increment of world corn import in one hand, and decrement of world corn export in another hand causing the world price of corn increase 3,98%.

For Indonesia, the increment of world price about 3,98% on trade liberalization era impacting the increment of import corn price on same rate (3,98%), Indonesian price of corn increment is 1,05%, and price of corn in produsen's level increase 0,1%. That increment causing Indonesian corn import is decrease about 1,66%. Whereas the increment of Indonesian corn price cause the corn farming competitiveness increase though small. Harvested area of corns increase is 0,03% and corn productivity is 0,01%. Finally, the production of corn increase 0,03%. Meanwhile, Indonesian demand of corn is relatively constan.

IV. CONCLUSION AND SUGGESTION

Conclusion

- 1. When the trade of liberalization totally implemented, the world import of corn through increment higher than increment of world corn export, therefore the world price of corn is increase. For Indonesia, if compared with basic condition, although the world price of corn increase but cause of totally implementation of trade liberalization so Indonesia price of corn still cheaper than before, therefore the decrement of Indonesian corn price and the increment of Indonesian corn import are happened.
- 2. The demand increment of corn from Major Importer Country and the production decrement of corn from Major Exporter Country causing the increment of world corn price. For Indonesia, the increment of world corn price on trade liberalization era causing the increment of Indonesian corn import price so the decrement of Indonesian corn price and the increment of Indonesian corn import are happened. In other hand, Indonesia production of corn is increase.

Suggestion

- The world price of corn tended to increase showing its unavailability in market. So the government of Indonesia, by Agriculture Ministry, must more seriously increase the production by the optimise productivity and extensification area.
- Efforts to coaching and mentoring the corn farmers must be intensified to enable them to carry out their farming efficiency and increase their corn farming productivity.
- 3. In order to extensification of corn farming can effectively did, so must doing together with all of stake holders, it was Ministry of Agriculture, the National Land Agency, and the Ministry of State-Owned Enterprises, especially farmers.
- 4. In trade liberalization era, Indonesia needs comprehensive policy to support corn chain management cohesiveness. Then, production increment effort by policy of increasing productivity and expansion, must pay attention for correlation with others subsystem, such as post harvest, management, transportation, and saving. Bulog also must involve in price stabilization and supports production.

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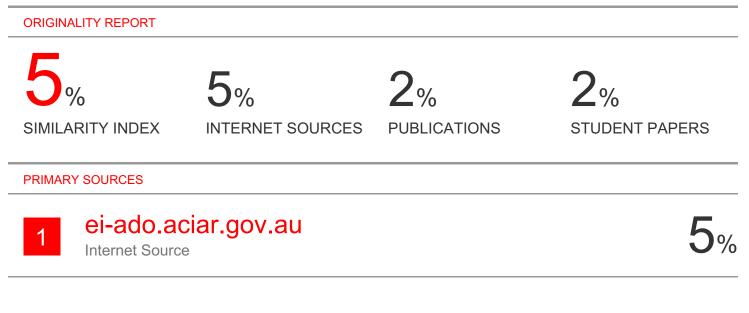
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