

93401



OUTSTANDING SCHOLARSHIP EXEMPLAR



QUALIFY FOR THE FUTURE WORLD KIA NOHO TAKATŪ KI TŌ ĀMUA AO!

Scholarship 2015 Geography

9.30 a.m. Thursday 19 November 2015 Time allowed: Three hours Total marks: 24

Check that the National Student Number (NSN) on your admission slip is the same as the number at the top of this page.

Pull out Resource Booklet 93401R from the centre of this booklet.

Carefully read the instructions on page 2 of this booklet.

Answer ALL three questions in this booklet. Each question is worth 8 marks.

If you need more room for any answer, use the extra space provided at the back of this booklet.

Check that this booklet has pages 2–24 in the correct order and that none of these pages is blank.

YOU MUST HAND THIS BOOKLET TO THE SUPERVISOR AT THE END OF THE EXAMINATION.

INSTRUCTIONS

The materials in Resource Booklet 93401R will enable you to become familiar with the theme and contexts of this examination: **Agriculture**.

Your answers to ALL three questions must incorporate a wide range of case studies from around the world, as well as information and ideas BOTH from the materials provided in the resource booklet and from your studies in geography.

Note: Key ideas should not be repeated in your answers to different questions.

Space for planning has been provided on pages 4, 10, and 16 of this booklet that will help you prepare your responses. These notes will not be marked. The questions on page 3 are repeated on their respective planning pages.

Begin your answer for Question One on page 5, for Question Two on page 11, and for Question Three on page 17.

QUESTION ONE (8 marks)

Discuss the importance of agriculture.

Your answer must include and refer to relevant, effective, original visuals.

Use page 4 to plan your ideas, and begin your answer to Question One on page 5.

QUESTION TWO (8 marks)

Justify the most significant challenges facing the agricultural industry today, with reference to different perspectives.

Your answer must include and refer to relevant, effective, original visuals.

Use page 10 to plan your ideas, and begin your answer to Question Two on page 11.

QUESTION THREE (8 marks)

Critically analyse the extent to which the future for agriculture in more economically developed countries (MEDCs), is similar to that for agriculture in less economically developed countries (LEDCs).

Use page 16 to plan your ideas, and begin your answer to Question Three on page 17.

QUESTION ONE (8 marks)

Discuss the importance of agriculture.

Your answer must include and refer to relevant, effective, original visuals.

PLANNING

Sood security feel andry secondary

Begin your answer for Question One here: SSESSOR'S USE ONLY In an vastly modernised contemporary society, agriculture acts a fundamental beacon for the sustenance of fubre quevations. Aside from this, a past, present and hilme generatures. AS PO O AS PE the world's population grows, so too does the importance of agriculture. The growth This importance branches arran variegaled realing of society; most notably in social, economic and environmental and potestical spheres. Though importance may be is qualitative and therefore difficult to quantify, angualty He most imp agriculture anguality holds utmost importance in economic influence. 1 Socially, agriculture acts as a harbinger of community A and spirit, especially in LEDCs. For many /--depen Further to this agriculture has held importance as a wears for female empowerment. Such sentiment is demonstrated in & Feleivelei, Fiji where agriculture tras acted outs as a vehicle 0 for donastic violence sur victims living in finding very purpose in society. Roughly their children residing in 7,000 nover and government funded HANZT' Housing water on in pastoral farmo small-scale terms internot just as a wears of finance, but as a place to seek salvation and make new frends. With a new sense of purpose and vitality, these nomen are able to sell their goods to small busivesses

engaging in setroly that marketing and accounting strategy-	ASSESSOR'S USE ONLY
that activities that, until previously, mere heavily	0
male-dominated. Some of these women are than able	Δ
to find hubber education for themselves and their	+
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in the Felcireli region, and though outside perspectives way argue that such a donestic setting cannot result	A
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(firancial support)	
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self-determination	TOV
opportunity to up-skill A (0)	
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In fact, McDonalds TM Rekivels: receives all of its salad	
ingredients from this female-our agricultural venture	
The example of women in Felciveli; evinces the	
importance of agriculture not only in social	
implications but also that of economic ordent. There	A
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one in employment and another in more tany output. In	
2010 agriculture pravided folis - and therefore a sense	
of purpose - to as much as 35% of the ever world's	

is the largest provider of jobs globally - some perhaps not donous at first Beyond farming and cultivation in the primary sector, jobs in the techning sector developing new feetilises were and the feets of governgueung, agriculture is vital to the livelyhood of a mide away array of molecus one statistics doors angue that only 4.2% of MEDGs molecus over employed directly by agricultural sectors, 4 ma a wore inclusive perspective (perhaps are of the FAO who avgres agricultural is garning most importance in MEDGs) shows from the vise of the third wave of agricultural resolution of the vise of the third wave of agricultural resolution. Fig. 2 Fig. 3 Fig. 4 Fig. 13 For The Latern Sector of NZ is made up of 38% of NZ is fertiary sector of NZ is made up of 38% of NZ is fertiary sector of NZ is made up of 38% of NZ is fertiary sector is comp vised of scientific discovery and modern manufacturing of goods and services for that correlate with agricultural recressity. From the correlate with agricultural recressity. From the services for that correlate with agricultural recressity. From the services for services for services for services for the services for s	economically active population - 75% in some LEDCs It
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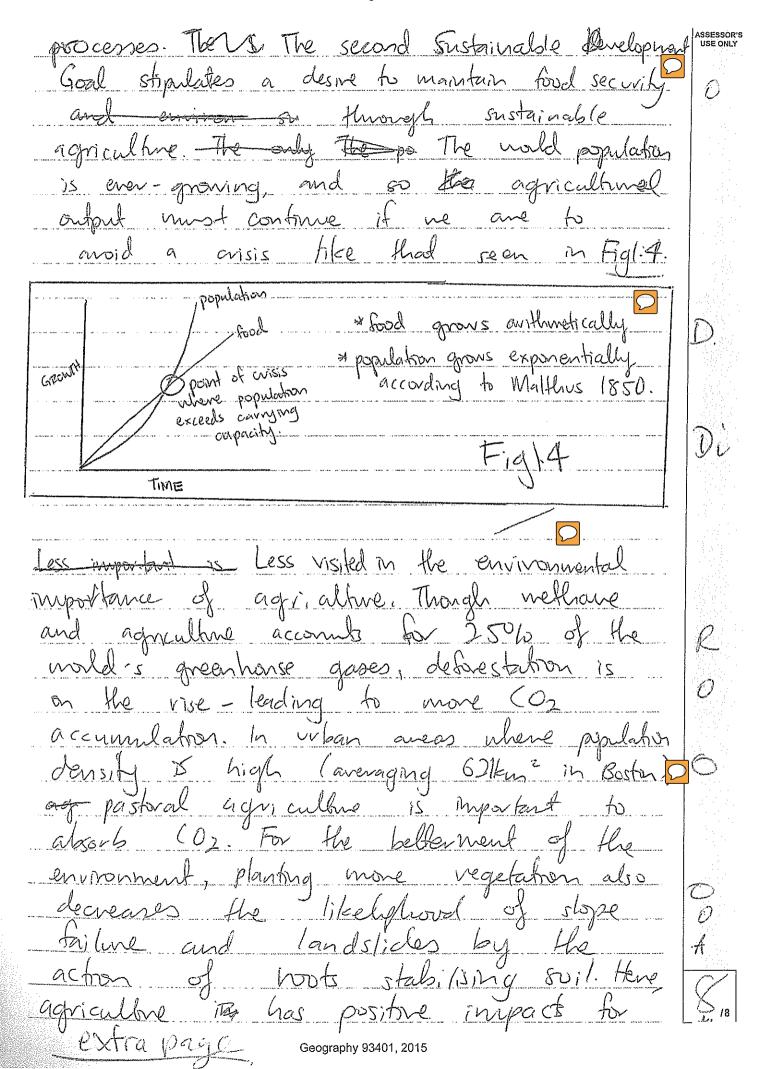
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Moreover, agriculture accounts for 25% of for a large proportion of GDP in warray took LEDCs and ATTEDES, wast notably in Uganda (26%) and Chima Indonesia (15%). The fact that agriculture is able to provide such veturn means countries may use this as capital for more advanced business ventures - perhaps in bactory and educational industry. From the perspective of moders, high GDP means formit lowincome families may use their earnings in order to seek a belber standard of living like that of the noven in Peloveli, Fiji. However, some argue that the importance of agriculture is diministring in MEDCs where tright the observation of bight order many reek to find employment in secondary and tertians sectors. In Anstralia, where mable agriculture don dominates In land usage, agriculture accounts for just 2% of GDP. In MEDCs, the exonomic importance of agriculture is decreasing as the multi-billion dollar price-tag cedes less income as time progresses, ohopping from 3% of GDP m 1995.

While, from an economic standpord, agriculture becoming less of an important commodity in MEDCs, it will always organiculture's food production and it will continue to do so for as long as mankind exists. Food security is maintained through all forms of agricultural - subsistance, commercial marine, animal, plant. The very backbone of on nellberry rests on the continuation of agricultual



With var, egated examples of any agricultures tole in society as a cohesine structural concept of that uplift significancy, social strata and enimonmental

only one conclision can be

upon which sivilisation was built, and although its importance man

vise, fall, and plateau economically,

importance in the main tenance of food security and nutrition

He Haricultural importance is noted in the manufacture of high-order goods too
1 vary cottons and Teathers. The hide-tanning Moustry marks a significant tole in consumerism, and cash crops provide verence in not only Ovegon, and talk that and show not yet industrialised

fully (e.g. India).

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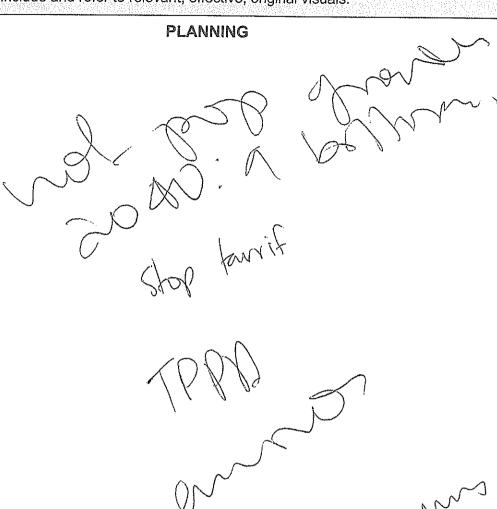
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QUESTION TWO (8 marks)

Justify the most significant challenges facing the agricultural industry today, with reference to different perspectives.

Your answer must include and refer to relevant, effective, original visuals.



Begin your answer for Question Two here:	ASSESSOR
While the agricultural industry is responsible	USEONL
for a large proportion of greenhouse gas.	
emissions, and globally inany and poses	
Cichoilice I also Illando In Indiana	·.
significant challenge to contemporary	
agricultural society, many also reglect	:
the perspective social and political perspectues	
that undersome tree Trade Agreements	
as an overwhelming barrier in	
current-day asy orginalhual industry.	
There are many, many challenges	
of of social, political, Environmental	
and exonomic realms to such a	
vital industry, but the two aforeneutored	
points are most significant.	
-Many with angre, Political perspectives	
such as that of the UN-chartered	P
FAO WII argue the challenge of	
population growth as a fundamental	<u></u>
population growth as a fundamental D Issue plagning the 21st century.	
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The global population is set to reach 9 billion by 2040 while	C R
The global population is set to reach 9 billion by 2040 while	C R R
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The global population is set to reach 9 billion by 2040 while	C R R
The global population is set to reach 9 billion by 2040 while of resources are not equipped to carry such a capacity. However, such a challenge is not a challenge for	C. R R
The global population is set to reach 9 billion by 2040 while or resources are not equipped to carry such a challenge is not a challenge for the again cultivaral industry persay.	C. R. R.
The global population is set to reach 9 billion by 2040 while or resources are not equipped to carry such a challenge is not a challenge for the again cultivaral industry persay.	CRR
The global population is set to reach 9 billion by 2040 while of resources are not equipped to carry such a capacity. However, such a challenge is not a challenge for	CRRROP

output is already efficient enough to	ASSESSOR USE ONLY
output is already efficient enough to account feed the population, and it is malnowishment and hunger in	
it is malnowishment and hunger in	
MEDCs is an issue of distribution	J
and not production tenels MEDEs, on	
average, throw and discound 30%	0
of edible food. This 30% is a	1 R
surplus to requirements in LEDG	
Which, Monton augues, is "more	
than enough to feed the starring	
Than enough to feed the starring of 3 billion". It truther to this, a historical	P
perspectue would argue that when food	
shortages have occured markind have	
combatted this with Malthusian 'checks'	
advancements At today shows Such thinking	
shows how although food security may	U
be a significant challenge to the	
mold it is AT a challenge	
to the agricultural industry nor	
today's of scientists. Therefore, challenge	& J
lies in the hade-agreement and environmental consequence	
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have pop. of tood	D _k
couldren agricultural	5
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	<i>)</i> !
MEDC LEDG MEDG LEDG	1

Free trade agreements such as that of the Trans-Pacific Partnership Agreement (TPPA) threaton the agricultural sector due to We down to it-remove to abolish towniffs and taxes. Though such an enactment ams to enrich the agricultural sector by increasing fluidity and ease of ghobal trade in our vastly globaliseel for contemporary society, it? the TPPA hurts local agricultual industry. Where By farriffs and and agricultural subsidies protected the market of farmers, and abotishing these would allow imports to become not only more accessible but more affordable. Though this may benefit the general public consuming agricultural output, it poses a significant challenge to inclusing locally. If the agreements go ahead, importing tonatives from Mexico may be cheaper than to Low Archelanders than sourced products, with kight ton foods thus resulting in a for Ion - mileage. This having folos in the assolushy her goods - something that can many seels quantity over quality in achroned through produce Agricultural subsidies ineans

a decent lying and farmers can earn financial security when & yields are low. This has cost taxpayers billions, and · Yo a desire public to axe tax subsidies. is highly up predicable especially due Agriculture to erratic changes is brought about by characte many agricultural of aveas So governmente axing of agricultural subsidies may lead to economic downton without now and By the agricultual sector, so the Joh The IPPA stipulates overile quotas measures to protect integrity busines agriculto, to thus agnobusiness and poring challenge economically Joe Foley, an This has

supposedly said to result in a maker	ASSESSOR USE ONLY
& carbon Sopprint than methane-producing	
weat-did meat - inclusive diets. This has	4-3
posed a challenge for New Zealand	6
eon farmers as the fact that 25%	
of agriculture an estimated 20%	
of more house and the test	
of green house gases to track the	0
ted to are and to welliane	0
froduced by consular has become tommen knowledge, huring to business. Beef sales have decreased	
Lommon knowledge, history	
the business, keet sales have decreased	
by as much as 60% in the	
UK, and New Zealand's multi-billion	
dollar neat modaling molustry	42.12
UK, and New Zealand's multi-billion dollar west and dairy molustry has had to face the	
mancial repencyssions turker une	
entophication (Fig 2.2) has also	
so that the public is deterned by	
DO STOCK BY	
Fig 2.2	
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Phosphorus to blooms oxygen for -) sish.	\sum_{j}
enters stiffeams and consumes	
forthliser runoff Streams algae toxic to	
agricultual practices. Instead, many	
seele 1 cally, organically produced	
seele 1 cally, organically produced - small - scale farming, resulting in less 7.	. Y8.

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revenue for large-scale, commercial farming	
Intensive favoring faces a challenge as environmentalis	
on strike against many farming practices, then	
thus resilting in the dundling numbers of	
consumers. 70% of freshwater is being used	0
on agriculture, and with resources durindlying	
as the decreasing as were the po.	
decreasing, and agra business will need to	
seek & more trater efficient farming	
practices to that require less of a strain	
on natural resources. Terraculture is	
ground in popularity as as farmers face	
challenges over water-scarcity in the nature	pita
of the Californian Drought and veto	
of water - mining in many countries	O
Overall, He In greatest challenges	
to agricultural industry a are explicated	
by trade-agreements and environmental	
impact. These are usues not faced	SZ
unique to the present-day, issues	
which on Brefathers have veren	
had to overcome	
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QUESTION THREE (8 marks)

Critically analyse the extent to which the future for agriculture in more economically developed countries (MEDCs), is similar to that for agriculture in less economically developed countries (LEDCs).

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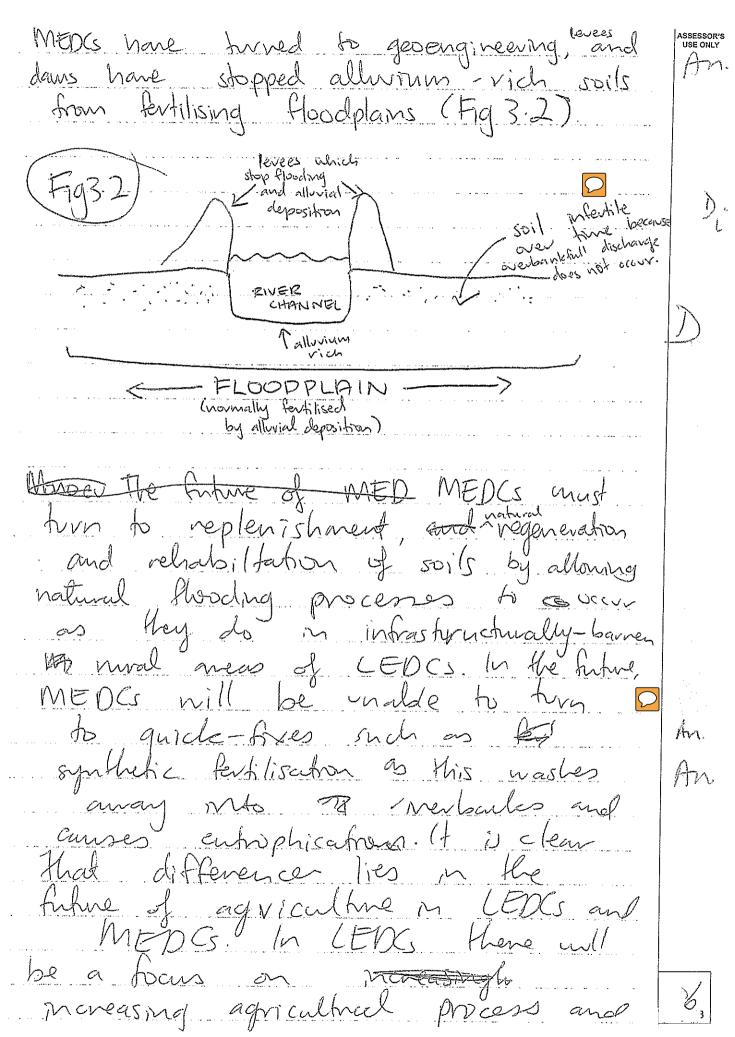
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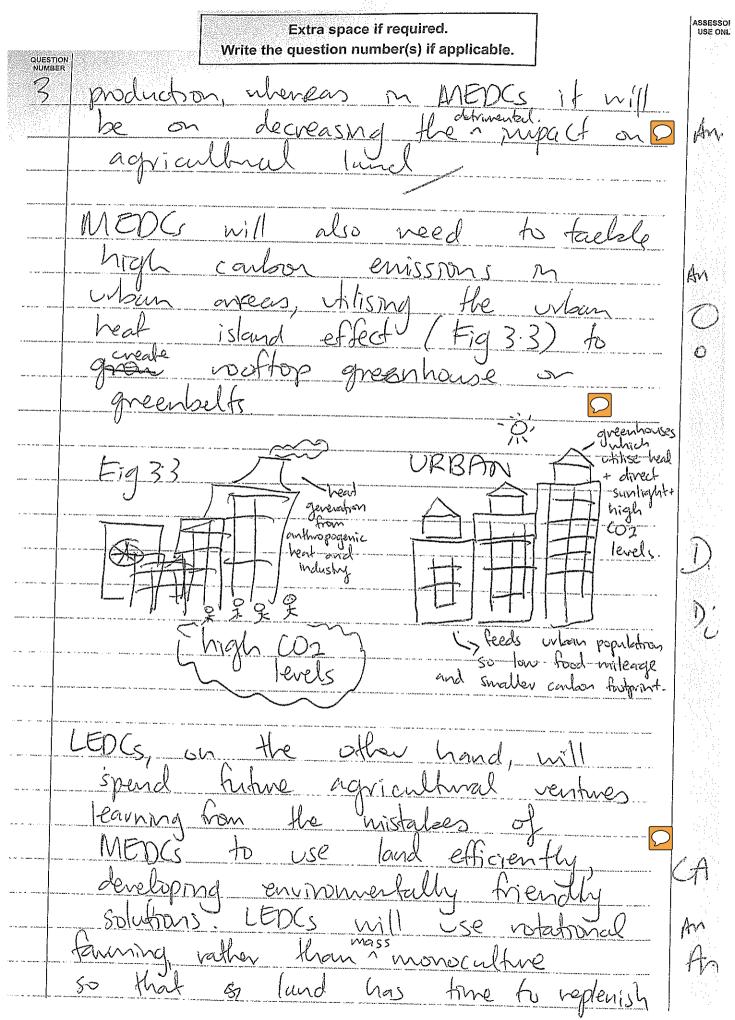
Begin your answer for Question Three here: inspection and examination careful the future implications of agriculture MEDCs and LEDCs, it is clear with be two dif we are met similarity and difference. In both, agriculture continue to provide sustenance, but An the reeds An are different. To a so certain extent, similarity is not between the the two, honever, difference exhibited to a large the implement opportunities An LEDCs for agriculture In LEDEs, most notably African and South-Asian constituents, agriculture's to a fitte lays in advance ments An of nutritional value tacle to An. & heath-issues predom; nauthy a threat to pooner nations, including, but to Kwashiovkov and do m ltocs; a compared to other not & gentic both

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The future of agriculture is similar in both MEDCs and CEDCs in the respect that both will require GMD50 to combat malnow is hment 11 is Hm. common knowledge that those in LEOGs tend to be inalnovished, but the same holds fre in MEDCs. Though USA, Mexico and NZ vaule as the 'most obeser nations' according to Dartmouth Unversity study, the Heir diess lack vital nutrients and are instead full of artificial flavours and sweeter enhancers which provide little nutritional benefit. Both inchors may be Both MEDCO and CEDCs will ted benefit from technological advancements in genetic engineering which provide notivent-vick agricultoral produce. Globally the future of agriculture depends on the speciation of very poop pastoral and avalde produce. which weeks the needs of its consumers. & Many LEDCs 2 such as Nigeria and Vanvahn still vely on subsistence farma and are yet to reach the third wave of Agricultural Pendution. The Intre of africulture here relies on increasing geo-engneering whereas in MEDCs the focus will be on the

of the agricultural land to tEDGs The	ASSESSO USE ON
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see an increase in mechanisation	
and irrigation practices. In Bangladesh	
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maved as a wears to distrib	0
traditional water - from - the - well 0	
practices. This is an altempt to increase	
agricultural efficiency as intensification of favoring prevails in UEDCsa to	
of towning prevails in Colocia to	
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(4.2 in Banglidech). In MEDCs, years of mensive forming of moroculture have led to a drain on	1
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in an alterript to by vaise	12
anareness of the town inadequacies	
of MEDCs. over-farmed nutrent	
dramed soils, as seen in Fig 3.1. For years	
INTENSIVE USING UP NO DOWN-TIME	
FARMINY - > NUTRIENTS IN -> POR NUTRIENT	
SOIL REPLENISHMENT	•
(Fig 3.1)	カレ
COW FERTICITY	
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	produce (Fig3.4).
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na miya sa sa kinin baya ayayaya	medium extensive yearly
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a. 1944 hann an han 1-14-	[mpad)
	Overall, LEDCS will be able to
	seek une efficient agricultural
-	practices with less environmental damage
	as wheres in the future, #1506
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