# **Country Tables**

		General		Water	Transport
Country Code	Country Name	Region	Income Group	Predominant Water Source for Irrigation (FAO Aquastat)	Reference product
ARM	Armenia	Europe & Central Asia	Lower middle income	Surface Water	Fruits (e.g. apricots)
BDI	Burundi	Sub-Saharan Africa	Low income	Surface Water	Coffee
BEN	Benin	Sub-Saharan Africa	Low income	Surface Water	Cashew nuts
BFA	Burkina Faso	Sub-Saharan Africa	Low income	Surface Water	Cashew nuts
BGD	Bangladesh	South Asia	Lower middle income	Groundwater	Nuts
BIH	Bosnia and Herzegovina	Europe & Central Asia	Upper middle income	Surface Water	Vegetables (e.g. cucumbers)
CHL	Bolivia Chile	Latin America & Caribbean High income: OECD	Lower middle income High income	Surface Water Surface Water	Cereals (e.g. buckwheat) Fruits (e.g. grapes)
CIV	Côte d'Ivoire	Sub-Saharan Africa	Lower middle income	Surface Water	Cocoa beans
CMR	Cameroon	Sub-Saharan Africa	Lower middle income	Surface Water	Cocoa Beans
COL	Colombia	Latin America & Caribbean	Upper middle income	Surface Water	Coffee
DNK	Denmark	High income: OECD	High income	Groundwater	Cereals (e.g. barley)
EGY	Egypt, Arab Rep.	Middle East & North Africa	Lower middle income	Surface Water	Fruit (e.g. grapefruit)
ESP	Spain	High income: OECD	High income	Surface Water	Fruits (e.g. mandarins)
ETH	Ethiopia	Sub-Saharan Africa	Low income	Surface Water	Coffee
GEO	Georgia	Europe & Central Asia	Upper middle income	Surface Water	Cereals (e.g. wheat)
GHA	Ghana	Sub-Saharan Africa	Lower middle income	Surface Water	Cocoa beans
GRC	Greece	High income: OECD	High income	Surface Water	Fruits (e.g. grapes)
GTM	Guatemala	Latin America & Caribbean	Lower middle income	Surface Water	Fruits (e.g. bananas)
HTI	Haiti	Latin America & Caribbean	Low income	Surface Water	Fruits
IND	India	South Asia	Lower middle income	Groundwater	Cereals (e.g. rice)
ITA	Italy	High income: OECD	High income	Surface Water Groundwater	Fruits (e.g. apples)
JOR KAZ	Jordan Kazakhstan	Middle East & North Africa  Europe & Central Asia	Upper middle income Upper middle income	Surface Water	Vegetables (e.g. tomatoes)  Cereals
KEN	Kenya	Sub-Saharan Africa	Lower middle income	Surface Water	Tea
KGZ	Kyrgyz Republic	Europe & Central Asia	Lower middle income	Surface Water	Beans
KHM	Cambodia	East Asia & Pacific	Lower middle income	Surface Water	Cereals (e.g. rice)
KOR	Korea, Rep.	High income: OECD	High income	Surface Water	Vegetables (e.g. pepper)
LAO	Lao PDR	East Asia & Pacific	Lower middle income	Surface Water	Coffee
LBR	Liberia	Sub-Saharan Africa	Low income	Surface Water	Cocoa beans
LKA	Sri Lanka	South Asia	Lower middle income	Surface Water	Tea
MAR	Morocco	Middle East & North Africa	Lower middle income	Surface Water	Vegetables (e.g. tomatoes)
MEX	Mexico	Latin America & Caribbean	Upper middle income	Surface Water	Vegetables (e.g. tomatoes)
MLI	Mali	Sub-Saharan Africa	Low income	Surface Water	Fruits (e.g. mangoes)
MMR	Myanmar	East Asia & Pacific	Lower middle income	Surface Water	Beans
MOZ	Mozambique	Sub-Saharan Africa	Low income	Surface Water	Fruits (e.g. bananas)
MWI	Malawi Malaysia	Sub-Saharan Africa East Asia & Pacific	Low income Upper middle income	Surface Water Surface Water	Tea Vegetables
NER	Niger	Sub-Saharan Africa	Low income	Surface Water	Vegetables (e.g. onions)
NGA	Nigeria	Sub-Saharan Africa	Lower middle income	Surface Water	Cocoa beans
NIC	Nicaragua	Latin America & Caribbean	Lower middle income	Groundwater	Coffee
NLD	Netherlands	High income: OECD	High income	Groundwater	Vegetables (e.g. tomatoes)
NPL	Nepal	South Asia	Low income	Surface Water	Cardamoms
PER	Peru	Latin America & Caribbean	Upper middle income	Surface Water	Coffee
PHL	Philippines	East Asia & Pacific	Lower middle income	Surface Water	Fruits (e.g. bananas)
POL	Poland	High income: OECD	High income	Surface Water	Cereals (e.g. wheat)
ROM	Romania	Europe & Central Asia	Upper middle income	Surface Water	Cereals (e.g. wheat)
RUS	Russian Federation	Europe & Central Asia	Upper middle income	Surface Water	Cereals (e.g. wheat)
RWA	Rwanda	Sub-Saharan Africa	Low income	Surface Water	Tea
SDN	Sudan	Sub-Saharan Africa	Lower middle income	Surface Water	Carob gum
SEN	Senegal Serbia	Sub-Saharan Africa	Low income	Surface Water	Cereals (e.g. rice)
SRB THA	Thailand	Europe & Central Asia East Asia & Pacific	Upper middle income Upper middle income	Surface Water Surface Water	Cereals (e.g. maize)  Vegetables (e.g. cassava)
TJK	Tajikistan	Europe & Central Asia	Lower middle income	Surface Water	Fruits (e.g. dried apricots)
TUR	Turkey	Europe & Central Asia	Upper middle income	Surface Water	Fruits (e.g. mandarins)
TZA	Tanzania	Sub-Saharan Africa	Low income	Surface Water	Cashew nuts
UGA	Uganda	Sub-Saharan Africa	Low income	Surface Water	Coffee
UKR	Ukraine	Europe & Central Asia	Lower middle income	Surface Water	Cereals (e.g. maize)
URY	Uruguay	Latin America & Caribbean	High income	Surface Water	Soya beans
VNM	Vietnam	East Asia & Pacific	Lower middle income	Surface Water	Cereals (e.g. rice)
ZMB	Zambia	Sub-Saharan Africa	Lower middle income	Surface Water	Cereals (e.g. maize)
ZWE	Zimbabwe	Sub-Saharan Africa	Low income	Surface Water	Tea



Trading nautner	Markets	IIC / digit Dundrint	Trading Davings
Trading partner	Product group	HS 4-digit Product	Trading Partner
Georgia	Fruit	Stone fruit, fresh (apricot, cherry, plum, peach, etc.)	Russian Federation
Tanzania	Cash crop	Coffee, coffee husks and skins and coffee substitutes	Switzerland
Nigeria	Fruit	Coconuts, Brazil nuts and cashew nuts, fresh or dried	India
Côte d'Ivoire	Fruit	Coconuts, Brazil nuts and cashew nuts, fresh or dried	Singapore
India	Fruit	Nuts except coconut, Brazil and cashew, fresh or dried	India
Serbia	Vegetable	Cucumbers and gherkins, fresh or chilled	Croatia
Argentina	Cereal	Buckwheat, millet and canary seed, other cereals	United States
Argentina	Fruit	Grapes, fresh or dried	United States
Ghana	Cash crop	Cocoa beans, whole or broken, raw or roasted	Netherlands
Congo, Rep.	Cash crop	Cocoa beans, whole or broken, raw or roasted	Netherlands
Ecuador	Cash crop	Coffee, coffee husks and skins and coffee substitutes	United States
Germany	Cereal	Barley	Germany
Libya	Fruit	Citrus fruit, fresh or dried	Saudi Arabia
France Somalia	Fruit Cash grap	Citrus fruit, fresh or dried  Coffee, coffee husks and skins and coffee substitutes	Germany
Russian Federation	Cash crop Cereal	Wheat and meslin	Germany Armenia
Côte d'Ivoire	Cash crop		Netherlands
	Fruit	Cocoa beans, whole or broken, raw or roasted	Germany
Bulgaria El Salvador	Fruit	Grapes, fresh or dried  Bananas, including plantains, fresh or dried	United States
Dominican Republic	Fruit	Dates, figs, pineapple, avocado, guava, fresh or dried	United States
Nepal	Cereal	Rice	Iran, Islamic Rep.
France	Fruit	Apples, pears and quinces, fresh	Germany
Syrian Arab Republic	Vegetable	Tomatoes, fresh or chilled	Syrian Arab Republic
Uzbekistan	Cereal	Wheat and meslin	Azerbaijan
Uganda	Cash crop	Tea	Pakistan
Kazakhstan	Vegetable	Vegetables, leguminous dried, shelled	Turkey
Vietnam	Cereal	Rice	France
China	Vegetable	Vegetables nes, fresh or chilled	Japan
Thailand	Cash crop	Coffee, coffee husks and skins and coffee substitutes	Japan
Côte d'Ivoire	Cash crop	Cocoa beans, whole or broken, raw or roasted	Germany
India	Cash crop	Tea	Russian Federation
Spain	Vegetable	Tomatoes, fresh or chilled	France
United States	Vegetable	Tomatoes, fresh or chilled	United States
Senegal	Fruit	Dates, figs, pineapple, avocado, guava, fresh or dried	Burkina Faso
China	Vegetable	Vegetables, leguminous dried, shelled	India
South Africa	Fruit	Bananas, including plantains, fresh or dried	South Africa
Tanzania	Cash crop	Tea	South Africa
Indonesia	Vegetable	Vegetables nes, fresh or chilled	Singapore
Nigeria	Vegetable	Onions, shallots, garlic, leeks, etc., fresh or chilled	Ghana
Niger	Cash crop	Cocoa beans, whole or broken, raw or roasted	Barbados
Costa Rica	Cash crop	Coffee, coffee husks and skins and coffee substitutes	United States
Germany	Vegetable	Tomatoes, fresh or chilled	Germany
India	Cash crop	Nutmeg, mace and cardamons	India
Colombia	Cash crop	Coffee, coffee husks and skins and coffee substitutes	Germany
Vietnam	Fruit	Bananas, including plantains, fresh or dried	Japan
Germany	Cereal	Wheat and meslin	Germany
Hungary	Cereal	Wheat and meslin	Spain
China	Cereal	Wheat and meslin	Egypt, Arab Rep.
Uganda	Cash crop	Tea	Kenya
Egypt, Arab Rep.	Cash crop	Locust beans, seaweed, sugar beet, cane, for food	Germany Mali
Mali Romania	Cereal Cereal	Rice Maize (corn)	Romania
Malaysia	Vegetable	Manioc, arrowroot, salep etc, fresh, dried, sago pith	China
China	Fruit	Fruit, dried, nes, dried fruit and nut mixtures	Russian Federation
Iraq	Fruit	Nuts except coconut, brazil and cashew, fresh or dried	Germany
Kenya	Fruit	Coconuts, Brazil nuts and cashew nuts, fresh or dried	India
Kenya	Cash crop	Coffee, coffee husks and skins and coffee substitutes	Switzerland
Poland	Cereal	Maize (corn)	Egypt, Arab Rep.
Brazil	Cash crop	Soya beans	China
China	Cereal	Rice	Philippines
Zimbabwe	Cereal	Maize (corn)	Zimbabwe
South Africa	Cash crop	Tea	South Africa
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### DTF score Rank Seed 62.19 **Fertilizer 28.57 Machinery** 53.66 **Finance 35.86 Markets 64.87 Transport 18.43** Water 82.54 **ICT 55.56**

8.0

Variety registration index (0-8)	6.5
Time to register new variety (days)	587
Cost to register new variety (% income per capita)	18.5
Seed quality control index (0-12)	2.0
FERTILIZER   DTF Score 28.57 ♦ Rank 53	
Fertilizer registration index (0-7)	0.0
Time to register a new fertilizer product (days)	N/A
Cost to register a new fertilizer product (% income per capita)	N/A
Quality control of fertilizer index (0-7)	2.0
Importing & distributing fertilizer index (0-7)	6.0
MACHINERY   DTF Score 53.66 ♦ Rank 30	
Tractor operation index (0-5)	0.5
Time to register a tractor (days)	3
Cost to register a tractor (% income per capita)	0.3
Tractor testing and standards index (0-8)	5.0
Time to obtain type approval (days)  No pr	actice
Cost to obtain type approval (% income per capita) No pr	actice
Tractor import index (0-5)	5.0
•	
FINANCE   DTF Score 35.86 ♦ Rank 52	

SEED<sup>a</sup> | DTF Score 62.19 ♦ Rank 28

Plant breeding index (0-10)

**ARMENIA** 

MARKETS   DTF Score 64.87 ♦ Rank 23	
Producer organizations index (0-13)	9.3
Plant protection index (0-8)	3.5
Agricultural trade index (0-9)	5.0
Documents to export agricultural goods (number)	1
Time to export agricultural goods (days)	1
Cost to export agricultural goods (% income per capita)	0.0
TRANSPORT   DTF Score 18.43 ♦ Rank 56	
Trucking licenses and operations index (0-11)	2.0
Time to obtain trucking licenses (days)	N/A
Cost to obtain trucking licenses (% income per capita)	N/A
Cross-border transportation index (0-9)	5.0
Time to obtain cross-border license (days)	N/A
Cost to obtain cross-border license (% income per capita)	N/A
WATER   DTF Score 82.54 $\diamondsuit$ Rank 5	
Integrated water resource management index (0-29)	22.5
Individual water use for irrigation index (0-20)	17.5
ICT   DTF Score 55.56 ♦ Rank 31	

5.0

#### INANCE | DII Score 33.00 V Kalik 32

Branchless Banking	
Agent banking index (0-5)	0.0
E-money index (0-4)	3.8
Movable Collateral	
Warehouse receipts index (0-5)	0.0
Doing Business - getting credit index (0-8)	4.0
Non-bank Lending Institutions	
Microfinance institutions index (0-7)	0.0
Financial cooperatives index (0-7)	5.0

ICT index (0-9)

## **BANGLADESH**

FINANCE | DTF Score 56.71 ♦ Rank 23

**Branchless Banking**Agent banking index (0-5)

E-money index (0-4)

**Movable Collateral** 

Warehouse receipts index (0-5)

**Non-bank Lending Institutions**Microfinance institutions index (0-7)

Financial cooperatives index (0-7)

Doing Business - getting credit index (0-8)

## SOUTH ASIA LOWER MIDDLE INCOME

SEED <sup>a</sup>   DTF Score 34.27 ♦ Rank 54		MARKETS   DTF Score 66.10 ♦ Rank 21	
Plant breeding index (0-10)	6.0	Producer organizations index (0-13)	6.0
Variety registration index (0-8)	5.5	Plant protection index (0-8)	6.0
Time to register new variety (days)	No practice	Agricultural trade index (0-9)	5.0
Cost to register new variety (% income per capita)	No practice	Documents to export agricultural goods (number)	1
Seed quality control index (0-12)	1.0	Time to export agricultural goods (days)	1
		Cost to export agricultural goods (% income per capita)	0.1
FERTILIZER   DTF Score 54.25 ♦ Rank 35	5		
Fertilizer registration index (0-7)	4.4	TRANSPORT   DTF Score 45.03 ♦ Rank 45	
Time to register a new fertilizer product (days)	945	Trucking licenses and operations index (0-11)	4.5
Cost to register a new fertilizer product (% income per	capita) 58.8	Time to obtain trucking licenses (days)	3
Quality control of fertilizer index (0-7)	4.5	Cost to obtain trucking licenses (% income per capita)	2.5
Importing & distributing fertilizer index (0-7)	3.0	Cross-border transportation index (0-9)	4.0
		Time to obtain cross-border license (days)	N/A
MACHINERY   DTF Score 30.44 ♦ Rank 4	9	Cost to obtain cross-border license (% income per capita)	N/A
Tractor operation index (0-5)	3.0		
Time to register a tractor (days)	17	WATER   DTF Score 14.66 $\diamondsuit$ Rank 56	
Cost to register a tractor (% income per capita)	8.3	Integrated water resource management index (0-29)	8.5
Tractor testing and standards index (0-8)	0.3	Individual water use for irrigation index (0-20)	0.0
Time to obtain type approval (days)	N/A		
Cost to obtain type approval (% income per capita)	N/A	ICT   DTF Score 50.00 ♦ Rank 37	
Tractor import index (0-5)	1.5	ICT index (0-9)	4.5

4.7

1.0

3.5

3.0

4.0







Rank

DTF score

4.0

4.0

a. The indicators apply to the formal seed system only.



Financial cooperatives index (0-7)

## LATIN AMERICA & CARIBBEAN LOWER MIDDLE INCOME

	DTF score			Rank
Seed			64.41	25
Fertilizer	H	39.29		45
Machinery	25.83			52
Finance			67.48	13
Markets	Ď.		65.51	22
Transport			70.31	15
Water	0	35.52		43
ICT		58	.33	30

SEED <sup>a</sup>   DTF Score 64.41 $\diamondsuit$ Rank 25		MARKETS   DTF Score 65.51 ♦ Rank 22	
Plant breeding index (0-10)	7.0	Producer organizations index (0-13)	10.8
Variety registration index (0-8)	5.0	Plant protection index (0-8)	4.0
Time to register new variety (days)	517	Agricultural trade index (0-9)	5.0
Cost to register new variety (% income per capita)	24.5	Documents to export agricultural goods (number)	1
Seed quality control index (0-12)	7.0	Time to export agricultural goods (days)	2
		Cost to export agricultural goods (% income per capita)	1.9
FERTILIZER   DTF Score 39.29 ♦ Rank	¥ <b>5</b>		
Fertilizer registration index (0-7)	1.0	TRANSPORT   DTF Score 70.31 ♦ Rank 15	
Time to register a new fertilizer product (days)	N/A	Trucking licenses and operations index (0-11)	4.5
Cost to register a new fertilizer product (% income pe	r capita) N/A	Time to obtain trucking licenses (days)	5
Quality control of fertilizer index (0-7)	7.0	Cost to obtain trucking licenses (% income per capita)	0.2
Importing & distributing fertilizer index (0-7)	3.0	Cross-border transportation index (0-9)	5.0
		Time to obtain cross-border license (days)	10
MACHINERY   DTF Score 25.83 ♦ Rank	52	Cost to obtain cross-border license (% income per capita)	6.2
Tractor operation index (0-5)	0.5		
Time to register a tractor (days)	No practice	WATER │ DTF Score 35.52 ♦ Rank 43	
Cost to register a tractor (% income per capita)	No practice	Integrated water resource management index (0-29)	9.0
Tractor testing and standards index (0-8)	2.3	Individual water use for irrigation index (0-20)	8.0
Time to obtain type approval (days)	N/A		
Cost to obtain type approval (% income per capita)	N/A	ICT   DTF Score 58.33 ♦ Rank 30	
Tractor import index (0-5)	4.5	ICT index (0-9)	5.3

### FINANCE | DTF Score 67.48 $\diamondsuit$ Rank 13

Branchless Banking	Branch	less	Ban	king
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Didirentess banking	
Agent banking index (0-5)	0.0
E-money index (0-4)	3.7
Movable Collateral	
Warehouse receipts index (0-5)	4.5
Doing Business - getting credit index (0-8)	3.0
Non-bank Lending Institutions	
Microfinance institutions index (0-7)	6.0
Financial cooperatives index (0-7)	7.0

<sup>7.0</sup> a. The indicators apply to the formal seed system only.



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## DTF score Rank Seed **32.08** -**Fertilizer** 96.16 **Machinery Finance** 23.33 Markets **Transport** 57.44 Water 81.47 **ICT =** 55.56 -

SEED   DIF SCOIE 32.00 $\diamondsuit$ Railk 30		MARKETS   DIF Score 74.09 \$\times \text{Ralik II}	
Plant breeding index (0-10)	7.0	Producer organizations index (0-13)	8.5
Variety registration index (0-8)	2.0	Plant protection index (0-8)	6.0
Time to register new variety (days)	No practice	Agricultural trade index (0-9)	6.5
Cost to register new variety (% income per capita)	No practice	Documents to export agricultural goods (number)	1
Seed quality control index (0-12)	4.0	Time to export agricultural goods (days)	1
		Cost to export agricultural goods (% income per capita)	0.3
FERTILIZER   DTF Score 96.16 ♦ Rank 1			
Fertilizer registration index (0-7)	6.0	TRANSPORT   DTF Score 57.44 ♦ Rank 32	
Time to register a new fertilizer product (days)	31	Trucking licenses and operations index (0-11)	6.5
Cost to register a new fertilizer product (% income per	capita) 0.5	Time to obtain trucking licenses (days)	90
Quality control of fertilizer index (0-7)	7.0	Cost to obtain trucking licenses (% income per capita)	6.0
Importing & distributing fertilizer index (0-7)	7.0	Cross-border transportation index (0-9)	6.0
		Time to obtain cross-border license (days)	38
MACHINERY   DTF Score 51.41 ♦ Rank 3	4	Cost to obtain cross-border license (% income per capita)	6.8
Tractor operation index (0-5)	1.0		
Time to register a tractor (days)	7	WATER   DTF Score 81.47 ♦ Rank 6	
Cost to register a tractor (% income per capita)	13.4	Integrated water resource management index (0-29)	25.5
Tractor testing and standards index (0-8)	5.3	Individual water use for irrigation index (0-20)	15.0
Time to obtain type approval (days)	N/A		
Cost to obtain type approval (% income per capita)	N/A	ICT   DTF Score 55.56 ♦ Rank 31	
Tractor import index (0-5)	5.0	ICT index (0-9)	5.0

## FINANCE | DTF Score 23.33 $\diamondsuit$ Rank 60 Branchless Banking

SEEDa | DTE Score 32.08 ♦ Rank 56

Dranentess banking	
Agent banking index (0-5)	0.0
E-money index (0-4)	0.0
Movable Collateral	
Warehouse receipts index (0-5)	3.3
Doing Business - getting credit index (0-8)	6.0

**BOSNIA AND HERZEGOVINA** 

Doing Business - getting credit index (0-8) 6.0

Non-bank Lending Institutions

Microfinance institutions index (0-7) 0.0

Financial cooperatives index (0-7) 0.0

a. The indicators apply to the formal seed system only.

MARKETS | DTF Score 74.89 ♦ Rank 11

### **BURKINA FASO**

#### SUB-SAHARAN AFRICA LOW INCOME





FINANCE | DTF Score 43.35 ♦ Rank 41

**Branchless Banking** 

Agent banking index (0-5) 0.0
E-money index (0-4) 3.8

Movable Collateral

Warehouse receipts index (0-5) 0.0

Warehouse receipts index (0-5) 0.0
Doing Business - getting credit index (0-8) 4.0
Non-bank Lending Institutions

Microfinance institutions index (0-7)

Financial cooperatives index (0-7)

4.0

a. The indicators apply to the formal seed system only.

### DTF score Rank Seed 50.10 **Fertilizer 41.67 Machinery 30.00** — **Finance 23.51** — Markets 39.93 59.17 **Transport** Water 48.41 — **ICT 38.89**

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Plant breeding index (0-10)	9.0
Variety registration index (0-8)	3.5
Time to register new variety (days)	No practice
Cost to register new variety (% income per capita)	No practice
Seed quality control index (0-12)	8.0
FERTILIZER   DTF Score 41.67 ♦ Rank 42 Fertilizer registration index (0-7) Time to register a new fertilizer product (days)	3.0 No practice
Cost to register a new fertilizer product (% income per capita)	No practice
Quality control of fertilizer index (0-7)	4.0
Importing & distributing fertilizer index (0-7)	4.0
MACHINERY   DTF Score 30.00 $\diamondsuit$ Rank 5	50
Tractor operation index (0-5)	2.5
Time to register a tractor (days)	No practice
Cost to register a tractor (% income per capita)	No practice
Tractor testing and standards index (0-8)	0.0
Time to obtain type approval (days)	N/A
Cost to obtain type approval (% income per capita)	N/A
Tractor import index (0-5)	5.0

Producer organizations index (0-13)	7.0
Plant protection index (0-8)	3.0
Agricultural trade index (0-9)	3.0
Documents to export agricultural goods (number)	4
Time to export agricultural goods (days)	4
Cost to export agricultural goods (% income per capita)	3.1
TRANSPORT   DTF Score 59.17 ♦ Rank 30	
Trucking licenses and operations index (0-11)	3.0
Time to obtain trucking licenses (days)	1
Cost to obtain trucking licenses (% income per capita)	4.6
Cross-border transportation index (0-9)	6.0
Time to obtain cross-border license (days)	1
Cost to obtain cross-border license (% income per capita)	76.9
WATER   DTF Score 48.41 ♦ Rank 33	
Integrated water resource management index (0-29)	8.5
Individual water use for irrigation index (0-20)	13.5
ICT   DTF Score 20 00 A Dank F2	
ICT   DTF Score 38.89 ♦ Rank 52	0.5
ICT index (0-9)	3.5

MARKETS | DTF Score 39.93 ♦ Rank 55

## FINANCE | DTF Score 23.51 $\diamondsuit$ Rank 59

Financial cooperatives index (0-7)

SEED<sup>a</sup> | DTF Score 50.10 ♦ Rank 40

**BURUNDI** 

Branchless Banking	
Agent banking index (0-5)	0.0
E-money index (0-4)	0.0
Movable Collateral	
Warehouse receipts index (0-5)	0.0
Doing Business - getting credit index (0-8)	1.0
Non-bank Lending Institutions	
Microfinance institutions index (0-7)	5.0

a. The indicators apply to the formal seed system only.

## EAST ASIA & PACIFIC LOWER MIDDLE INCOME

0.0

### FINANCE | DTF Score 40.95 $\diamondsuit$ Rank 48

#### **Branchless Banking**

Financial cooperatives index (0-7)

Agent banking index (0-5) 3.6
E-money index (0-4) 0.0

Movable Collateral

Warehouse receipts index (0-5) 0.0
Doing Business - getting credit index (0-8) 7.0

Non-bank Lending Institutions

Microfinance institutions index (0-7) 6.0

a. The indicators apply to the formal seed system only.





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### DTF score Rank Seed 24.69 **Fertilizer 37.50 Machinery** 46.30 **Finance 36.31 Markets** 53.05 -**Transport** 58.87 Water **35.26 ICT 38.89**

SEED <sup>a</sup>   DTF Score 24.69 ♦ Rank 58	
Plant breeding index (0-10)	3.0
Variety registration index (0-8)	3.5
Time to register new variety (days)	No practice
Cost to register new variety (% income per capita)	No practice
Seed quality control index (0-12)	3.0
FERTILIZER   DTF Score 37.50 ♦ Rank 48	3
Fertilizer registration index (0-7)	0.0
Time to register a new fertilizer product (days)	N/A
Cost to register a new fertilizer product (% income per	
Quality control of fertilizer index (0-7)	3.5
Importing & distributing fertilizer index (0-7)	6.0
importing & distributing fertilizer index (0-7)	0.0
MACHINERY   DTF Score 46.30 ♦ Rank 3	37
Tractor operation index (0-5)	2.5
Time to register a tractor (days)	No practice
Cost to register a tractor (% income per capita)	No practice
Tractor testing and standards index (0-8)	6.5
Time to obtain type approval (days)	90
Cost to obtain type approval (% income per capita)	270.7
Tractor import index (0-5)	2.0
FINANCE   DTF Score 36.31 ♦ Rank 51	
FINANCE I DIE SCOLESDAT 🗘 KAUKST	

**CAMEROON** 

Plant protection index (0-8)	4.0
Agricultural trade index (0-9)	2.0
Documents to export agricultural goods (number)	1
Time to export agricultural goods (days)	8
Cost to export agricultural goods (% income per capita)	0.7
TRANSPORT   DTF Score 58.87 ♦ Rank 31	
Trucking licenses and operations index (0-11)	5.8
Time to obtain trucking licenses (days)	65
Cost to obtain trucking licenses (% income per capita)	2.3
Cross-border transportation index (0-9)	7.0
Time to obtain cross-border license (days)	60
Cost to obtain cross-border license (% income per capita)	1.4
WATER   DTF Score 35.26 $\diamondsuit$ Rank 44	
Integrated water resource management index (0-29)	4.5
Individual water use for irrigation index (0-20)	11.0
IST   DTES   DOOD   D   LTD	
ICT   DTF Score 38.89 $\diamondsuit$ Rank 52	
ICT index (0-9)	3.5

10.0

MARKETS | DTF Score 53.05 ♦ Rank 41

Producer organizations index (0-13)

#### FINANCE | DTF Score 36.31 $\diamondsuit$ Rank 51

Financial cooperatives index (0-7)

Branchless Banking	
Agent banking index (0-5)	0.0
E-money index (0-4)	1.0
Movable Collateral	
Warehouse receipts index (0-5)	0.0
Doing Business - getting credit index (0-8)	4.0
Non-bank Lending Institutions	
Microfinance institutions index (0-7)	5.0

a. The indicators apply to the formal seed system only.

## OECD HIGH INCOME HIGH INCOME

SEED <sup>a</sup>   DTF Score 61.77 $\diamondsuit$ Rank 29		MARKETS   DTF Score 76.41 ♦ Rank 9	
Plant breeding index (0-10)	9.0	Producer organizations index (0-13)	6.0
Variety registration index (0-8)	6.0	Plant protection index (0-8)	7.0
Time to register new variety (days)	848	Agricultural trade index (0-9)	7.5
Cost to register new variety (% income per capita)	12.5	Documents to export agricultural goods (number)	1
Seed quality control index (0-12)	4.0	Time to export agricultural goods (days)	1
		Cost to export agricultural goods (% income per capita)	0.0
FERTILIZER   DTF Score 26.79 ♦ Rank 54			
Fertilizer registration index (0-7)	0.0	TRANSPORT   DTF Score 44.44 ♦ Rank 46	
Time to register a new fertilizer product (days)	N/A	Trucking licenses and operations index (0-11)	3.0
Cost to register a new fertilizer product (% income per capita)	N/A	Time to obtain trucking licenses (days)	N/A
Quality control of fertilizer index (0-7)	3.5	Cost to obtain trucking licenses (% income per capita)	N/A
Importing & distributing fertilizer index (0-7)	4.0	Cross-border transportation index (0-9)	5.0
		Time to obtain cross-border license (days)	7
MACHINERY   DTF Score 54.70 ♦ Rank 28		Cost to obtain cross-border license (% income per capita)	0.0
Tractor operation index (0-5)	4.0		
Time to register a tractor (days)	4	WATER   DTF Score 55.17 $\diamondsuit$ Rank 28	
Cost to register a tractor (% income per capita)	0.6	Integrated water resource management index (0-29)	17.5
Tractor testing and standards index (0-8)	0.0	Individual water use for irrigation index (0-20)	10.0
Time to obtain type approval (days)	N/A		
Cost to obtain type approval (% income per capita)	N/A	ICT   DTF Score 72.22 $\diamondsuit$ Rank 15	
Tractor import index (0-5)	5.0	ICT index (0-9)	6.5

6.0

### FINANCE | DTF Score 42.62 ♦ Rank 46

Branchless Banking	Branch	less	Ban	king
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Financial cooperatives index (0-7)

Agent banking index (0-5)	0.0
E-money index (0-4)	1.0
Movable Collateral	
Warehouse receipts index (0-5)	3.5
Doing Business - getting credit index (0-8)	6.0
Non-bank Lending Institutions	
Microfinance institutions index (0-7)	0.0

a. The indicators apply to the formal seed system only.





**■** 88.89 **⊣** 

**ICT** 

### DTF score Rank Seed 63.19 **Fertilizer** 81.58 Machinery **38.16 Finance** 92.10 Markets 70.08 **Transport** 73.92 Water 85.52

SEED <sup>a</sup>   DTF Score 63.19 ♦ Rank 27		MARKETS   DTF Score 70.08 ♦ Rank 17	
Plant breeding index (0-10)	9.0	Producer organizations index (0-13)	9.1
Variety registration index (0-8)	4.0	Plant protection index (0-8)	6.0
Time to register new variety (days)	591	Agricultural trade index (0-9)	6.0
Cost to register new variety (% income per capita)	53.4	Documents to export agricultural goods (number)	2
Seed quality control index (0-12)	6.5	Time to export agricultural goods (days)	4
		Cost to export agricultural goods (% income per capita)	0.4
FERTILIZER   DTF Score 81.58 ♦ Rank 8			
Fertilizer registration index (0-7)	6.0	TRANSPORT   DTF Score 73.92 ♦ Rank 10	
Time to register a new fertilizer product (days)	45	Trucking licenses and operations index (0-11)	8.0
Cost to register a new fertilizer product (% income per capita)	7.8	Time to obtain trucking licenses (days)	60
Quality control of fertilizer index (0-7)	6.0	Cost to obtain trucking licenses (% income per capita)	3.2
Importing & distributing fertilizer index (0-7)	4.0	Cross-border transportation index (0-9)	7.0
		Time to obtain cross-border license (days)	15
MACHINERY   DTF Score 38.16 ♦ Rank 45		Cost to obtain cross-border license (% income per capita)	0.8
Tractor operation index (0-5)	1.5		
Time to register a tractor (days)	2	WATER │ DTF Score 85.52 ♦ Rank 3	
Cost to register a tractor (% income per capita)	1.1	Integrated water resource management index (0-29)	23.5
Tractor testing and standards index (0-8)	0.3	Individual water use for irrigation index (0-20)	18.0
Time to obtain type approval (days)	N/A		
Cost to obtain type approval (% income per capita)	N/A	ICT   DTF Score 88.89 $\diamondsuit$ Rank 9	
Tractor import index (0-5)	3.0	ICT index (0-9)	8.0



**COLOMBIA** 

2.4	
Agent banking index (0-5)	4.5
E-money index (0-4)	3.7
Movable Collateral	
Warehouse receipts index (0-5)	5.0
Doing Business - getting credit index (0-8)	8.0

Doing Business - getting credit index (0-8)	8.0
Non-bank Lending Institutions	
Microfinance institutions index (0-7)	5.0
Financial cooperatives index (0-7)	7.0

a. The indicators apply to the formal seed system only.

## **CÔTE D'IVOIRE**

FINANCE | DTF Score 60.37 ♦ Rank 18

**Branchless Banking** 

E-money index (0-4)

**Movable Collateral** 

Agent banking index (0-5)

Warehouse receipts index (0-5)

**Non-bank Lending Institutions**Microfinance institutions index (0-7)

Financial cooperatives index (0-7)

Doing Business - getting credit index (0-8)

#### SUB-SAHARAN AFRICA LOWER MIDDLE INCOME



SEED"   DIF SCOIL OU.ZU $\Diamond$ Kalik 30		MARKETS   DIF SCOTE 31.07 \$ Kalik ou	
Plant breeding index (0-10)	6.0	Producer organizations index (0-13)	7.5
Variety registration index (0-8)	6.5	Plant protection index (0-8)	2.0
Time to register new variety (days)	368	Agricultural trade index (0-9)	2.0
Cost to register new variety (% income per capita)	137.2	Documents to export agricultural goods (number)	3
Seed quality control index (0-12)	3.0	Time to export agricultural goods (days)	1
		Cost to export agricultural goods (% income per capita)	3.
FERTILIZER   DTF Score 39.29 ♦ Rank 45			
Fertilizer registration index (0-7)	0.0	TRANSPORT   DTF Score 68.00 ♦ Rank 19	
Time to register a new fertilizer product (days)	N/A	Trucking licenses and operations index (0-11)	5.0
Cost to register a new fertilizer product (% income per capita)	N/A	Time to obtain trucking licenses (days)	3
Quality control of fertilizer index (0-7)	5.0	Cost to obtain trucking licenses (% income per capita)	15.0
Importing & distributing fertilizer index (0-7)	6.0	Cross-border transportation index (0-9)	5.0
		Time to obtain cross-border license (days)	2
MACHINERY   DTF Score 47.44 ♦ Rank 35		Cost to obtain cross-border license (% income per capita)	3.9
Tractor operation index (0-5)	1.5		
Time to register a tractor (days)	N/A	WATER   DTF Score 25.60 ♦ Rank 49	
Cost to register a tractor (% income per capita)	N/A	Integrated water resource management index (0-29)	10.5
Tractor testing and standards index (0-8)	6.7	Individual water use for irrigation index (0-20)	3.0
Time to obtain type approval (days)	18		
Cost to obtain type approval (% income per capita)	40.5	ICT   DTF Score 61.11 ♦ Rank 22	
Tractor import index (0-5)	1.5	ICT index (0-9)	5.5

0.0

3.9

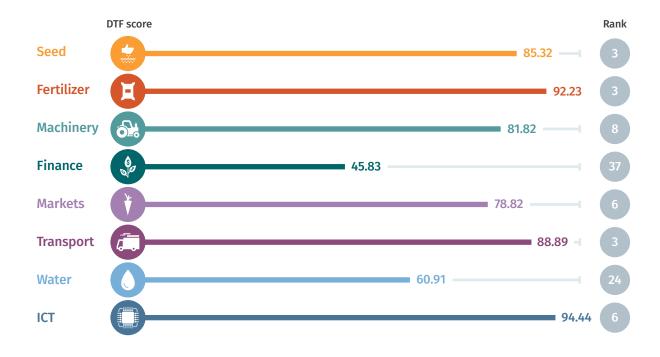
5.0





<sup>4.0</sup> \_\_\_\_\_4.0 a. The indicators apply to the formal seed system only.

#### **OECD HIGH INCOME HIGH INCOME**



SEED <sup>a</sup>   DTF Score 85.32 $\diamondsuit$ Rank 3		MARKETS   DTF Score 78.82 $\diamondsuit$ Rank 6
Plant breeding index (0-10)	9.0	Producer organizations index (0-13)
Variety registration index (0-8)	7.0	Plant protection index (0-8)
Time to register new variety (days)	690	Agricultural trade index (0-9)
Cost to register new variety (% income per capita)	7.4	Documents to export agricultural goods (number)
Seed quality control index (0-12)	12.0	Time to export agricultural goods (days)
		Cost to export agricultural goods (% income per capital
FERTILIZER   DTF Score 92.23 ♦ Rank 3		
Fertilizer registration index (0-7)	6.4	TRANSPORT   DTF Score 88.89 ♦ Rank
Time to register a new fertilizer product (days)	31	Trucking licenses and operations index (0-11)
Cost to register a new fertilizer product (% income per cap	oita) 0.4	Time to obtain trucking licenses (days)
Quality control of fertilizer index (0-7)	6.5	Cost to obtain trucking licenses (% income per capita)
Importing & distributing fertilizer index (0-7)	6.0	Cross-border transportation index (0-9)
		Time to obtain cross-border license (days)
MACHINERY   DTF Score 81.82 ♦ Rank 8		Cost to obtain cross-border license (% income per ca
Tractor operation index (0-5)	2.0	
Time to register a tractor (days)	No data	WATER   DTF Score 60.91 ♦ Rank 24
Cost to register a tractor (% income per capita)	0.1	Integrated water resource management index (0-29)
Tractor testing and standards index (0-8)	7.0	Individual water use for irrigation index (0-20)
Time to obtain type approval (days)	No data	
Cost to obtain type approval (% income per capita)	No data	ICT   DTF Score 94.44 $\diamondsuit$ Rank 6
Tractor import index (0-5)	5.0	ICT index (0-9)

Plant protection index (0-8)	7.0
Agricultural trade index (0-9)	7.0
Documents to export agricultural goods (number)	0
Time to export agricultural goods (days)	0
Cost to export agricultural goods (% income per capita)	0.0
TRANSPORT   DTF Score 88.89 ♦ Rank 3	
Trucking licenses and operations index (0-11)	10.8
Time to obtain trucking licenses (days)	30
Cost to obtain trucking licenses (% income per capita)	0.0
Cross-border transportation index (0-9)	9.0
Time to obtain cross-border license (days)	30
Cost to obtain cross-border license (% income per capita)	0.0
WATER   DTF Score 60.91 $\diamondsuit$ Rank 24	
Integrated water resource management index (0-29)	23.0
Individual water use for irrigation index (0-20)	8.5
ICT   DTF Score 94.44 ♦ Rank 6	
ICT index (0-9)	0.5
IU. I IIIUEX (U-9)	8.5

6.5

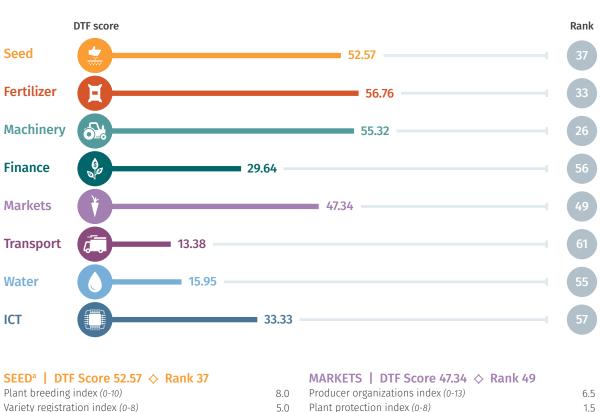
## FINANCE | DTF Score 45.83 ♦ Rank 37

Financial cooperatives index (0-7)

**DENMARK** 

Branchless Banking	
Agent banking index (0-5)	N/A
E-money index (0-4)	3.8
Movable Collateral	
Warehouse receipts index (0-5)	0.0
Doing Business - getting credit index (0-8)	7.0
Non-bank Lending Institutions	
Microfinance institutions index (0-7)	N/A

a. The indicators apply to the formal seed system only.



<b>, ,</b>			
Plant breeding index (0-10)	8.0	Producer organizations index (0-13)	6.5
Variety registration index (0-8)	5.0	Plant protection index (0-8)	1.5
Time to register new variety (days)	599	Agricultural trade index (0-9)	5.0
Cost to register new variety (% income per capita)	184.3	Documents to export agricultural goods (number)	1
Seed quality control index (0-12)	2.0	Time to export agricultural goods (days)	2
		Cost to export agricultural goods (% income per capita)	4.3
FERTILIZER   DTF Score 56.76 ♦ Rank 33			
Fertilizer registration index (0-7)	4.4	TRANSPORT   DTF Score 13.38 ♦ Rank 61	
Time to register a new fertilizer product (days)	314	Trucking licenses and operations index (0-11)	1.0
Cost to register a new fertilizer product (% income per capita)	19.8	Time to obtain trucking licenses (days)	N/A
Quality control of fertilizer index (0-7)	1.5	Cost to obtain trucking licenses (% income per capita)	N/A
Importing & distributing fertilizer index (0-7)	3.0	Cross-border transportation index (0-9)	4.0
		Time to obtain cross-border license (days)	N/A
MACHINERY   DTF Score 55.32 ♦ Rank 26		Cost to obtain cross-border license (% income per capita)	N/A
Tractor operation index (0-5)	4.0		
Time to register a tractor (days)	1	WATER   DTF Score 15.95 ♦ Rank 55	
Cost to register a tractor (% income per capita)	1.9	Integrated water resource management index (0-29)	2.0
Tractor testing and standards index (0-8)	2.3	Individual water use for irrigation index (0-20)	5.0
Time to obtain type approval (days)	N/A		
Cost to obtain type approval (% income per capita)	N/A	ICT   DTF Score 33.33 ♦ Rank 57	
Tractor import index (0-5)	2.0	ICT index (0-9)	3.0

3.0

#### FINANCE | DTF Score 29.64 ♦ Rank 56

Branch	less	Ban	king

Financial cooperatives index (0-7)

Agent banking index (0-5)	0.0
E-money index (0-4)	1.0
Movable Collateral	
Warehouse receipts index (0-5)	3.0
Doing Business - getting credit index (0-8)	4.0
Non-bank Lending Institutions	
Microfinance institutions index (0-7)	0.0

a. The indicators apply to the formal seed system only.

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### DTF score Rank Seed **51.07 Fertilizer** 19.64 **Machinery 55.95 Finance 52.96** Markets 45.69 **Transport 66.89** Water 46.94 **ICT** 11.11

6.0

ICT index (0-9)

Variety registration index (0-8)	4.5
Time to register new variety (days)	620
Cost to register new variety (% income per capita)	77.8
Seed quality control index (0-12)	4.0
FERTILIZER   DTF Score 19.64 ♦ Rank 59	
Fertilizer registration index (0-7)	1.0
Time to register a new fertilizer product (days)	N/A
Cost to register a new fertilizer product (% income per capita)	N/A
Quality control of fertilizer index (0-7)	4.5
Importing & distributing fertilizer index (0-7)	0.0
MACHINERY   DTF Score 55.95 ♦ Rank 25	
Tractor operation index (0-5)	3.5
Time to register a tractor (days)	2
Cost to register a tractor (% income per capita)	1.9
Tractor testing and standards index (0-8)	4.3
Time to obtain type approval (days)  No pr	actice
Cost to obtain type approval (% income per capita) No pr	ractice
Tractor import index (0-5)	3.0
FINANCE   DTF Score 52.96 $\diamondsuit$ Rank 27	

SEED<sup>a</sup> | DTF Score 51.07 ♦ Rank 39

Plant breeding index (0-10)

**ETHIOPIA** 

Producer organizations index (0-13)	10.6
Plant protection index (0-8)	1.0
Agricultural trade index (0-9)	3.5
Documents to export agricultural goods (number)	3
Time to export agricultural goods (days)	3
Cost to export agricultural goods (% income per capita)	2.5
TRANSPORT   DTF Score 66.89 ♦ Rank 21	
Trucking licenses and operations index (0-11)	4.0
Time to obtain trucking licenses (days)	1
Cost to obtain trucking licenses (% income per capita)	5.5
Cross-border transportation index (0-9)	4.0
Time to obtain cross-border license (days)	1
Cost to obtain cross-border license (% income per capita)	5.5
WATER   DTF Score 46.94 $\diamondsuit$ Rank 34	
Integrated water resource management index (0-29)	12.0
Individual water use for irrigation index (0-20)	10.5
ICT   DTF Score 11.11 ♦ Rank 62	

MARKETS | DTF Score 45.69 ♦ Rank 51

# Branchless Banking Agent banking index (0-5) E-money index (0-4) 0,0

E-money index (0-4) 0.0

Movable Collateral

Warehouse receipts index (0-5) 5.0

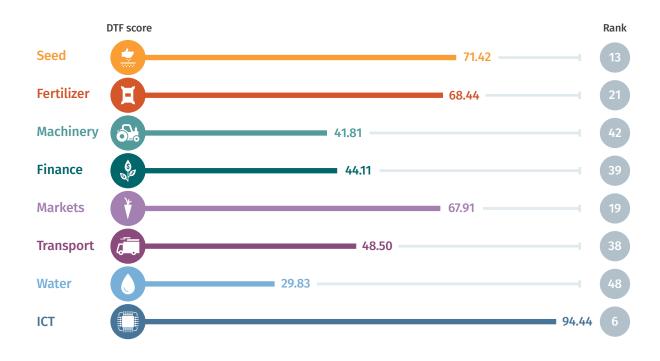
Doing Business - getting credit index (0-8) 1.0

Non-bank Lending Institutions

Microfinance institutions index (0-7) 4.0

Financial cooperatives index (0-7) 4.0

a. The indicators apply to the formal seed system only. Recent research estimates that 59.3% of Ethiopian famers' households used non-commercial maize seed for planting during the 2011/2012 season. (Sheahan, M. and Barrett, C.B., 2016. Ten striking facts about agricultural input use in Sub-Saharan Africa. Food Policy.)



SEED <sup>a</sup>   DTF Score 71.42 $\diamondsuit$ Rank 13		MARKETS   DTF Score 67.91 ♦ Rank 19	
Plant breeding index (0-10)	9.0	Producer organizations index (0-13)	6.5
Variety registration index (0-8)	7.0	Plant protection index (0-8)	5.5
Time to register new variety (days)	581	Agricultural trade index (0-9)	6.5
Cost to register new variety (% income per capita)	0.0	Documents to export agricultural goods (number)	1
Seed quality control index (0-12)	4.0	Time to export agricultural goods (days)	3
		Cost to export agricultural goods (% income per capita)	0.3
FERTILIZER   DTF Score 68.44 ♦ Rank 21			
Fertilizer registration index (0-7)	4.4	TRANSPORT   DTF Score 48.50 ♦ Rank 38	
Time to register a new fertilizer product (days)	730	Trucking licenses and operations index (0-11)	2.0
Cost to register a new fertilizer product (% income per capita)	16.7	Time to obtain trucking licenses (days)	N/A
Quality control of fertilizer index (0-7)	4.5	Cost to obtain trucking licenses (% income per capita)	N/A
Importing & distributing fertilizer index (0-7)	6.0	Cross-border transportation index (0-9)	7.0
		Time to obtain cross-border license (days)	3
MACHINERY   DTF Score 41.81 ♦ Rank 42		Cost to obtain cross-border license (% income per capita)	0.8
Tractor operation index (0-5)	0.5		
Time to register a tractor (days)	1	WATER   DTF Score 29.83 ♦ Rank 48	
Cost to register a tractor (% income per capita)	0.7	Integrated water resource management index (0-29)	11.5
Tractor testing and standards index (0-8)	0.0	Individual water use for irrigation index (0-20)	4.0
Time to obtain type approval (days)	N/A		
Cost to obtain type approval (% income per capita)	N/A	ICT   DTF Score 94.44 $\diamondsuit$ Rank 6	
Tractor import index (0-5)	5.0	ICT index (0-9)	8.5

4.0

#### FINANCE | DTF Score 44.11 ♦ Rank 39

Branch	less	Ban	king

Financial cooperatives index (0-7)

Agent banking index (0-5)	0.0
E-money index (0-4)	2.0
Movable Collateral	
Warehouse receipts index (0-5)	3.5
Doing Business - getting credit index (0-8)	7.0
Non-bank Lending Institutions	
Microfinance institutions index (0-7)	0.0

a. The indicators apply to the formal seed system only.

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	DTF score			Ra
Seed	*****		46.46	
Fertilizer	E—		55.44	3
Machinery	/ 6½		46.27	3
Finance	<b>\$</b>		62.43	<u> </u>
Markets	( <del>)</del>		40.18	
Transport		16.16		5
Water	0		54.53	3
ICT			61.11	
SEED <sup>a</sup>   D	TF Score 46.46 $\diamondsuit$	Rank 48	MARKETS   DTF Score 40.18 $\diamondsuit$ Rai	าk 54

SEED   DIT SCOTE 40.40 V Rank 40		MARKETS   DIT SCOTE 40.10 V Ratik 34	
Plant breeding index (0-10)	4.0	Producer organizations index (0-13)	5.9
Variety registration index (0-8)	6.0	Plant protection index (0-8)	3.0
Time to register new variety (days)	757	Agricultural trade index (0-9)	2.0
Cost to register new variety (% income per capita)	1091.6	Documents to export agricultural goods (number)	3
Seed quality control index (0-12)	8.5	Time to export agricultural goods (days)	No data
		Cost to export agricultural goods (% income per capita)	1.0
FERTILIZER   DTF Score 55.44 ♦ Rank 34			
Fertilizer registration index (0-7)	3.4	TRANSPORT   DTF Score 16.16 ♦ Rank 59	)
Time to register a new fertilizer product (days)	231	Trucking licenses and operations index (0-11)	1.0
Cost to register a new fertilizer product (% income per co	apita) 377.0	Time to obtain trucking licenses (days)	N/A
Quality control of fertilizer index (0-7)	5.0	Cost to obtain trucking licenses (% income per capita)	N/A
Importing & distributing fertilizer index (0-7)	2.5	Cross-border transportation index (0-9)	5.0
		Time to obtain cross-border license (days)	No practice
MACHINERY   DTF Score 46.27 ♦ Rank 38	3	Cost to obtain cross-border license (% income per capita)	No practice
Tractor operation index (0-5)	3.5		
Time to register a tractor (days)	30	WATER   DTF Score 54.53 ♦ Rank 30	
Cost to register a tractor (% income per capita)	10.1	Integrated water resource management index (0-29)	13.5
Tractor testing and standards index (0-8)	2.0	Individual water use for irrigation index (0-20)	12.5
Time to obtain type approval (days)	N/A		
Cost to obtain type approval (% income per capita)	N/A	ICT   DTF Score 61.11 ♦ Rank 22	
Tractor import index (0-5)	5.0	ICT index (0-9)	5.5

### FINANCE | DTF Score 62.43 $\diamondsuit$ Rank 16

Financial cooperatives index (0-7)

Branchless Banking	
Agent banking index (0-5)	4.2
E-money index (0-4)	3.5
Movable Collateral	
Warehouse receipts index (0-5)	0.0
Doing Business - getting credit index (0-8)	6.0
Non-bank Lending Institutions	
Microfinance institutions index (0-7)	4.0

<sup>5.0</sup> a. The indicators apply to the formal seed system only.

E-money index (0-4)

**Movable Collateral** 

Warehouse receipts index (0-5)

**Non-bank Lending Institutions**Microfinance institutions index (0-7)

Financial cooperatives index (0-7)

Doing Business - getting credit index (0-8)

## OECD HIGH INCOME HIGH INCOME

3.8

4.5

3.0

N/A

7.0

a. The indicators apply to the formal seed system only.



### DTF score Rank Seed 64.04 **Fertilizer 80.36 Machinery 18.83 Finance 55.89 Markets 72.15** – **Transport 18.31** Water **10.34 ICT** 63.89

	SEED <sup>a</sup>   DTF Score 64.04 ♦ Rank 26		MARKETS   DTF Score 72.15 ♦ Rank 14	
Plant breeding index (0-10)			Producer organizations index (0-13)	7.0
Variety registration index (0-8)		4.5	Plant protection index (0-8)	6.0
	Time to register new variety (days)	166	Agricultural trade index (0-9)	6.5
	Cost to register new variety (% income per capita)	1.9	Documents to export agricultural goods (number)	1
	Seed quality control index (0-12)	6.0	Time to export agricultural goods (days)	1
			Cost to export agricultural goods (% income per capita)	0.2
	FERTILIZER   DTF Score 80.36 ♦ Rank 10			
	Fertilizer registration index (0-7)	4.8	TRANSPORT   DTF Score 18.31 ♦ Rank 58	
	Time to register a new fertilizer product (days)	113	Trucking licenses and operations index (0-11)	3.2
	Cost to register a new fertilizer product (% income per capita)	1.2	Time to obtain trucking licenses (days)	N/A
	Quality control of fertilizer index (0-7)	7.0	Cost to obtain trucking licenses (% income per capita)	N/A
	Importing & distributing fertilizer index (0-7)	3.5	Cross-border transportation index (0-9)	4.0
			Time to obtain cross-border license (days)	N/A
	MACHINERY   DTF Score 18.83 ♦ Rank 57		Cost to obtain cross-border license (% income per capita)	N/A
	Tractor operation index (0-5)	0.0		
	Time to register a tractor (days)	N/A	WATER   DTF Score 10.34 ♦ Rank 58	
	Cost to register a tractor (% income per capita)	N/A	Integrated water resource management index (0-29)	6.0
	Tractor testing and standards index (0-8)	0.3	Individual water use for irrigation index (0-20)	0.0
	Time to obtain type approval (days)	N/A		
	Cost to obtain type approval (% income per capita)	N/A	ICT   DTF Score 63.89 ♦ Rank 21	
	Tractor import index (0-5)	4.5	ICT index (0-9)	5.8

3.0

#### FINANCE | DTF Score 55.89 ♦ Rank 24 Branchless Banking

Financial cooperatives index (0-7)

**GUATEMALA** 

Branchiess Banking	
Agent banking index (0-5)	4.5
E-money index (0-4)	1.0
Movable Collateral	
Warehouse receipts index (0-5)	4.5
Doing Business - getting credit index (0-8)	7.0
Non-bank Lending Institutions	
Microfinance institutions index (0-7)	0.0

a. The indicators apply to the formal seed system only.

### HAITI

## LATIN AMERICA & CARIBBEAN LOW INCOME

	MARKETS   DTF Score 35.58 ♦ Rank 57	
4.0	Producer organizations index (0-13)	4.5
0.0	Plant protection index (0-8)	0.0
No practice	Agricultural trade index (0-9)	No data
No practice	Documents to export agricultural goods (number)	1
0.0	Time to export agricultural goods (days)	No data
	Cost to export agricultural goods (% income per capita)	1.6
3		
0.0	TRANSPORT   DTF Score 7.83 ♦ Rank 62	
N/A	Trucking licenses and operations index (0-11)	1.0
capita) N/A	Time to obtain trucking licenses (days)	N/A
0.0	Cost to obtain trucking licenses (% income per capita)	N/A
6.0	Cross-border transportation index (0-9)	2.0
	Time to obtain cross-border license (days)	N/A
3	Cost to obtain cross-border license (% income per capita)	N/A
2.5		
5	WATER   DTF Score 12.20 ♦ Rank 57	
40.8	Integrated water resource management index (0-29)	2.0
0.3	Individual water use for irrigation index (0-20)	3.5
N/A		
N/A	ICT   DTF Score 44.44 ♦ Rank 43	
5.0	ICT index (0-9)	4.0
	0.0 No practice No practice 0.0  3  0.0 N/A capita) N/A 0.0 6.0  3  2.5 5 40.8 0.3 N/A N/A	4.0 Producer organizations index (0-13) 0.0 Plant protection index (0-8) No practice Agricultural trade index (0-9) 0.0 Time to export agricultural goods (number) 0.0 Time to export agricultural goods (% income per capita)  8 0.0 TRANSPORT   DTF Score 7.83 ♦ Rank 62 N/A Trucking licenses and operations index (0-11) capita) N/A Time to obtain trucking licenses (days) 0.0 Cost to obtain trucking licenses (% income per capita) 6.0 Cross-border transportation index (0-9) Time to obtain cross-border license (% income per capita) 2.5 5 WATER   DTF Score 12.20 ♦ Rank 57 40.8 Integrated water resource management index (0-29) Individual water use for irrigation index (0-20) N/A N/A ICT   DTF Score 44.44 ♦ Rank 43

3.7

1.0

0.0

2.0

0.0

5.0

FINANCE | DTF Score 32.65 ♦ Rank 54

**Branchless Banking** 

E-money index (0-4)

**Movable Collateral** 

Agent banking index (0-5)

Warehouse receipts index (0-5)

**Non-bank Lending Institutions** 

Microfinance institutions index (0-7)

Financial cooperatives index (0-7)

Doing Business - getting credit index (0-8)





a. The indicators apply to the formal seed system only. Recent research estimates that 94.7% of the seed used by farmers in Haiti in 2010 were sourced in the informal seed sector. (McGuire, S. and Sperling, L., 2016. Seed systems smallholder farmers use. Food Security, 8(1), pp.179-195.)

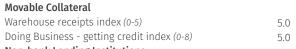
**INDIA** 

### DTF score Rank Seed 66.60 **Fertilizer 69.59 Machinery 59.56 Finance 66.10 Markets 52.53 Transport 41.22** Water **17.63 ICT 66.67**

SEED <sup>a</sup>   DTF Score 66.60 ♦ Rank 21		MARKETS   DTF Score 52.53 ♦ Rank 43	
Plant breeding index (0-10)		Producer organizations index (0-13)	6.2
Variety registration index (0-8)	6.0	Plant protection index (0-8)	6.0
Time to register new variety (days)	397	Agricultural trade index (0-9)	4.5
Cost to register new variety (% income per capita)	98.7	Documents to export agricultural goods (number)	3
Seed quality control index (0-12)	4.5	Time to export agricultural goods (days)	8
		Cost to export agricultural goods (% income per capita)	2.0
FERTILIZER   DTF Score 69.59 ♦ Rank 18			
Fertilizer registration index (0-7)	5.0	TRANSPORT   DTF Score 41.22 ♦ Rank 49	
Time to register a new fertilizer product (days)	804	Trucking licenses and operations index (0-11)	9.3
Cost to register a new fertilizer product (% income per capita,	) 17.1	Time to obtain trucking licenses (days)	8
Quality control of fertilizer index (0-7)	3.5	Cost to obtain trucking licenses (% income per capita)	24.0
Importing & distributing fertilizer index (0-7)	7.0	Cross-border transportation index (0-9)	2.0
		Time to obtain cross-border license (days)	N/A
MACHINERY   DTF Score 59.56 ♦ Rank 21		Cost to obtain cross-border license (% income per capita)	N/A
Tractor operation index (0-5)	3.5		
Time to register a tractor (days)	7	WATER   DTF Score 17.63 ♦ Rank 53	
Cost to register a tractor (% income per capita)	0.2	Integrated water resource management index (0-29)	9.5
Tractor testing and standards index (0-8)	3.8	Individual water use for irrigation index (0-20)	0.5
Time to obtain type approval (days)	270		
Cost to obtain type approval (% income per capita)	604.4	ICT   DTF Score 66.67 ♦ Rank 18	
Tractor import index (0-5)	4.5	ICT index (0-9)	6.0

4.9

3.8



FINANCE | DTF Score 66.10 ♦ Rank 15

**Branchless Banking** 

E-money index (0-4)

Agent banking index (0-5)

Doing Business - getting credit index (0-8) 5.0

Non-bank Lending Institutions

Microfinance institutions index (0-7) 0.0

Financial cooperatives index (0-7) 3.0



#### **OECD HIGH INCOME HIGH INCOME**

SEED <sup>a</sup>   DTF Score 81.55 ♦ Rank 4		MARKETS   DTF Score 81.85 ♦ Rank 4	
Plant breeding index (0-10)	10.0	Producer organizations index (0-13)	8.8
Variety registration index (0-8)	5.5	Plant protection index (0-8)	7.0
Time to register new variety (days)	624	Agricultural trade index (0-9)	6.5
Cost to register new variety (% income per capita)	5.6	Documents to export agricultural goods (number)	0
Seed quality control index (0-12)	10.5	Time to export agricultural goods (days)	0
		Cost to export agricultural goods (% income per capita)	0.0
FERTILIZER   DTF Score 85.09 ♦ Rank 6			
Fertilizer registration index (0-7)	6.0	TRANSPORT   DTF Score 86.31 ♦ Rank 4	
Time to register a new fertilizer product (days)	450	Trucking licenses and operations index (0-11)	9.8
Cost to register a new fertilizer product (% income per capit	a) 11.2	Time to obtain trucking licenses (days)	30
Quality control of fertilizer index (0-7)	6.5	Cost to obtain trucking licenses (% income per capita)	0.7
Importing & distributing fertilizer index (0-7)	6.0	Cross-border transportation index (0-9)	9.0
		Time to obtain cross-border license (days)	30
MACHINERY   DTF Score 71.41 ♦ Rank 11		Cost to obtain cross-border license (% income per capita)	0.2
Tractor operation index (0-5)	2.0		
Time to register a tractor (days)	6	WATER │ DTF Score 74.09 ♦ Rank 10	
Cost to register a tractor (% income per capita)	0.4	Integrated water resource management index (0-29)	20.5
Tractor testing and standards index (0-8)	7.0	Individual water use for irrigation index (0-20)	15.5
Time to obtain type approval (days)	170		
Cost to obtain type approval (% income per capita)	No data	ICT   DTF Score 94.44 ♦ Rank 6	
Tractor import index (0-5)	5.0	ICT index (0-9)	8.5

6.0

### FINANCE | DTF Score 81.07 $\diamondsuit$ Rank 6

Didirentess banking	
Agent banking index (0-5)	N/A
E-money index (0-4)	3.8
Movable Collateral	
Warehouse receipts index (0-5)	4.5
Doing Business - getting credit index (0-8)	3.0
Non-bank Lending Institutions	
Microfinance institutions index (0-7)	N/A
Financial cooperatives index (0-7)	6.0

a. The indicators apply to the formal seed system only.





### DTF score Rank Seed 66.34 **Fertilizer 70.61 Machinery 51.45 Finance** 4.17 **Markets 63.93 Transport 66.83** Water **37.33** – **ICT 61.11**

SEED <sup>a</sup>   DTF Score 66.34 ♦ Rank 22		MARKETS   DTF Score 63.93 ♦ Rank 25	
Plant breeding index (0-10)		Producer organizations index (0-13)	5.9
Variety registration index (0-8)		Plant protection index (0-8)	4.5
Time to register new variety (days)	514	Agricultural trade index (0-9)	6.0
Cost to register new variety (% income per capita)	57.8	Documents to export agricultural goods (number)	1
Seed quality control index (0-12)	3.0	Time to export agricultural goods (days)	1
		Cost to export agricultural goods (% income per capita)	0.1
FERTILIZER   DTF Score 70.61 ♦ Rank 17			
Fertilizer registration index (0-7)	4.4	TRANSPORT   DTF Score 66.83 ♦ Rank 22	
Time to register a new fertilizer product (days)	45	Trucking licenses and operations index (0-11)	4.5
Cost to register a new fertilizer product (% income per capita)	0.9	Time to obtain trucking licenses (days)	4
Quality control of fertilizer index (0-7)	3.5	Cost to obtain trucking licenses (% income per capita)	15.5
Importing & distributing fertilizer index (0-7)	5.0	Cross-border transportation index (0-9)	5.0
		Time to obtain cross-border license (days)	4
MACHINERY   DTF Score 51.45 ♦ Rank 33		Cost to obtain cross-border license (% income per capita)	0.5
Tractor operation index (0-5)	4.0		
Time to register a tractor (days)	1	WATER │ DTF Score 37.33 ♦ Rank 41	
Cost to register a tractor (% income per capita)	20.2	Integrated water resource management index (0-29)	11.5
Tractor testing and standards index (0-8)	1.2	Individual water use for irrigation index (0-20)	7.0
Time to obtain type approval (days)	N/A		
Cost to obtain type approval (% income per capita)	N/A	ICT   DTF Score 61.11 ♦ Rank 22	
Tractor import index (0-5)	4.5	ICT index (0-9)	5.5

## FINANCE | DTF Score 4.17 $\diamondsuit$ Rank 62 Branchless Banking

**JORDAN** 

0.0
1.0

Warehouse receipts index (0-5) 0.0
Doing Business - getting credit index (0-8) 0.0
Non-bank Lending Institutions

Microfinance institutions index (0-7) 0.0
Financial cooperatives index (0-7) 0.0



## **KAZAKHSTAN**

## EUROPE & CENTRAL ASIA UPPER MIDDLE INCOME

SEED <sup>a</sup>   DTF Score 53.65 ♦ Rank 35		MARKETS   DTF Score 70.84 ♦ Rank 16	
Plant breeding index (0-10)	10.0	Producer organizations index (0-13)	10.5
Variety registration index (0-8)	6.5	Plant protection index (0-8)	5.5
Time to register new variety (days)	No practice	Agricultural trade index (0-9)	7.0
Cost to register new variety (% income per capita)	No practice	Documents to export agricultural goods (number)	3
Seed quality control index (0-12)	4.0	Time to export agricultural goods (days)	5
		Cost to export agricultural goods (% income per capita)	0.6
FERTILIZER   DTF Score 73.14 ♦ Rank 15			
Fertilizer registration index (0-7)	2.9	TRANSPORT   DTF Score 19.44 ♦ Rank 55	
Time to register a new fertilizer product (days)	246	Trucking licenses and operations index (0-11)	3.7
Cost to register a new fertilizer product (% income per	capita) 11.7	Time to obtain trucking licenses (days)	N/A
Quality control of fertilizer index (0-7)	5.0	Cost to obtain trucking licenses (% income per capita)	N/A
Importing & distributing fertilizer index (0-7)	6.5	Cross-border transportation index (0-9)	4.0
		Time to obtain cross-border license (days)	N/A
MACHINERY   DTF Score 81.44 ♦ Rank 9	)	Cost to obtain cross-border license (% income per capita)	N/A
Tractor operation index (0-5)	2.5		
Time to register a tractor (days)	10	WATER │ DTF Score 65.73 ♦ Rank 18	
Cost to register a tractor (% income per capita)	0.0	Integrated water resource management index (0-29)	20.0
Tractor testing and standards index (0-8)	6.2	Individual water use for irrigation index (0-20)	12.5
Time to obtain type approval (days)	15		
Cost to obtain type approval (% income per capita)	6.9	ICT   DTF Score 61.11 ♦ Rank 22	
Tractor import index (0-5)	5.0	ICT index (0-9)	5.5

0.0

1.0





FINANCE | DTF Score 36.73 ♦ Rank 50

**Branchless Banking** 

E-money index (0-4)

Agent banking index (0-5)

Movable Collateral
Warehouse receipts index (0-5) 4.5
Doing Business - getting credit index (0-8) 5.0
Non-bank Lending Institutions

Microfinance institutions index (0-7)

Financial cooperatives index (0-7)

3.0

a. The indicators apply to the formal seed system only.

### DTF score Rank Seed **79.24 Fertilizer 41.07 Machinery =** 53.81 **Finance** 74.33 Markets **32.98 Transport 68.69** Water **85.04 ICT 77.78**

SEED <sup>a</sup>   DTF Score 79.24 ♦ Rank 7		MARKETS   DTF Score 32.98 ♦ Rank 59	
Plant breeding index (0-10)	10.0	Producer organizations index (0-13)	6.9
Variety registration index (0-8)	7.0	Plant protection index (0-8)	1.5
Time to register new variety (days)	322	Agricultural trade index (0-9)	3.5
Cost to register new variety (% income per capita)	123.2	Documents to export agricultural goods (number)	4
Seed quality control index (0-12)	6.0	Time to export agricultural goods (days)	4
		Cost to export agricultural goods (% income per capita)	5.6
FERTILIZER   DTF Score 41.07 ♦ Rank 43			
Fertilizer registration index (0-7)	1.5	TRANSPORT   DTF Score 68.69 ♦ Rank 16	
Time to register a new fertilizer product (days)	N/A	Trucking licenses and operations index (0-11)	3.5
Cost to register a new fertilizer product (% income per capita)	N/A	Time to obtain trucking licenses (days)	1
Quality control of fertilizer index (0-7)	4.0	Cost to obtain trucking licenses (% income per capita)	2.2
Importing & distributing fertilizer index (0-7)	6.0	Cross-border transportation index (0-9)	6.0
		Time to obtain cross-border license (days)	10
MACHINERY   DTF Score 53.81 ♦ Rank 29		Cost to obtain cross-border license (% income per capita)	14.9
Tractor operation index (0-5)	2.5		
Time to register a tractor (days)	7	WATER │ DTF Score 85.04 ♦ Rank 4	
Cost to register a tractor (% income per capita)	2.0	Integrated water resource management index (0-29)	22.5
Tractor testing and standards index (0-8)	2.7	Individual water use for irrigation index (0-20)	18.5
Time to obtain type approval (days)	N/A		
Cost to obtain type approval (% income per capita)	N/A	ICT   DTF Score 77.78 $\diamondsuit$ Rank 12	
Tractor import index (0-5)	5.0	ICT index (0-9)	7.0

4.2



FINANCE | DTF Score 74.33 ♦ Rank 10

**Branchless Banking** 

Agent banking index (0-5)

Doing Business - getting credit index (0-8) 5.0 **Non-bank Lending Institutions** 

Microfinance institutions index (0-7) 7.0 Financial cooperatives index (0-7) 7.0

a. The indicators apply to the formal seed system only. Recent research estimates that 82.3% of the seed used by farmers in Kenya in 2011 were sourced in the informal seed sector. (McGuire, S. and Sperling, L., 2016. Seed systems smallholder farmers use. Food Security, 8(1), pp.179-195.)

## OECD HIGH INCOME HIGH INCOME

SEED <sup>a</sup>   DTF Score 77.46 ♦ Rank 8		MARKETS   DTF Score 75.40 ♦ Rank 10	
Plant breeding index (0-10)	9.0	Producer organizations index (0-13)	7.9
Variety registration index (0-8)	5.0	Plant protection index (0-8)	5.8
Time to register new variety (days)	298	Agricultural trade index (0-9)	7.5
Cost to register new variety (% income per capita)	2.0	Documents to export agricultural goods (number)	1
Seed quality control index (0-12)	5.3	Time to export agricultural goods (days)	2
		Cost to export agricultural goods (% income per capita)	0.0
FERTILIZER   DTF Score 74.05 ♦ Rank 14			
Fertilizer registration index (0-7)	4.5	TRANSPORT   DTF Score 47.48 ♦ Rank 39	
Time to register a new fertilizer product (days)	459	Trucking licenses and operations index (0-11)	6.0
Cost to register a new fertilizer product (% income per capita)	25.0	Time to obtain trucking licenses (days)	20
Quality control of fertilizer index (0-7)	4.0	Cost to obtain trucking licenses (% income per capita)	0.1
Importing & distributing fertilizer index (0-7)	7.0	Cross-border transportation index (0-9)	0.0
		Time to obtain cross-border license (days)	N/A
MACHINERY   DTF Score 59.88 ♦ Rank 19		Cost to obtain cross-border license (% income per capita)	N/A
Tractor operation index (0-5)	1.0		
Time to register a tractor (days)	N/A	WATER   DTF Score 74.83 ♦ Rank 9	
Cost to register a tractor (% income per capita)	N/A	Integrated water resource management index (0-29)	26.0
Tractor testing and standards index (0-8)	7.0	Individual water use for irrigation index (0-20)	12.0
Time to obtain type approval (days)	45		
Cost to obtain type approval (% income per capita)	8.0	ICT   DTF Score 83.33 ♦ Rank 11	
Tractor import index (0-5)	5.0	ICT index (0-9)	7.5



203



FINANCE | DTF Score 67.88  $\diamondsuit$  Rank 12 Branchless Banking

Agent banking index (0-5) N/A E-money index (0-4) 2.2

Movable Collateral
Warehouse receipts index (0-5)
3.3
Point Business - gatting credit index (0-2)
5.0

Doing Business - getting credit index (0-8) 5.0

Non-bank Lending Institutions

Microfinance institutions index (0-7) N/A

Financial cooperatives index (0-7) 6.0

a. The indicators apply to the formal seed system only.

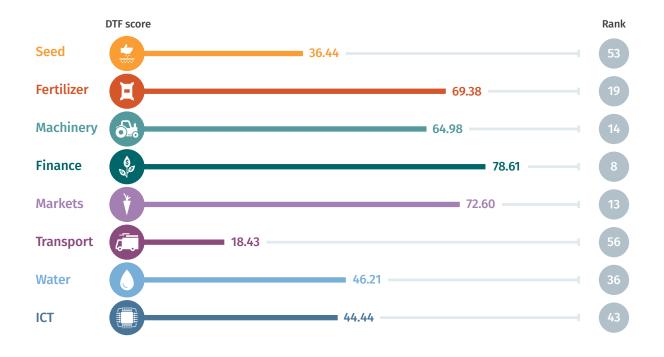
**Branchless Banking** 

E-money index (0-4)

**Movable Collateral** 

Agent banking index (0-5)

## KYRGYZ REPUBLIC



Plant breeding index (0-10)	7.0
Variety registration index (0-8)	4.0
Time to register new variety (days)	970
Cost to register new variety (% income per capita)	219.4
Seed quality control index (0-12)	2.0
FERTILIZER   DTF Score 69.38 ♦ Rank 1	9
Fertilizer registration index (0-7)	3.8
Time to register a new fertilizer product (days)	357
Cost to register a new fertilizer product (% income per	capita) 21.4
Quality control of fertilizer index (0-7)	4.0
Importing & distributing fertilizer index (0-7)	6.0
MACHINERY   DTF Score 64.98 ♦ Rank	14
Tractor operation index (0-5)	3.0
Time to register a tractor (days)	2
Cost to register a tractor (% income per capita)	1.5
Tractor testing and standards index (0-8)	5.5
Time to obtain type approval (days)	No practice
Cost to obtain type approval (% income per capita)	No practice
Tractor import index (0-5)	5.0
FINANCE   DTF Score 78.61 $\diamondsuit$ Rank 8	

SEED<sup>a</sup> | DTF Score 36.44 ♦ Rank 53

#### Producer organizations index (0-13) 8.5 Plant protection index (0-8) 5.5 Agricultural trade index (0-9) 6.5 Documents to export agricultural goods (number) 1 Time to export agricultural goods (days) Cost to export agricultural goods (% income per capita) 0.7 TRANSPORT | DTF Score 18.43 ♦ Rank 56 Trucking licenses and operations index (0-11) 2.0 Time to obtain trucking licenses (days) N/A Cost to obtain trucking licenses (% income per capita) N/A Cross-border transportation index (0-9) 5.0 Time to obtain cross-border license (days) N/A Cost to obtain cross-border license (% income per capita) N/A WATER | DTF Score 46.21 ♦ Rank 36 Integrated water resource management index (0-29) 21.0 Individual water use for irrigation index (0-20) 4.0 ICT | DTF Score 44.44 ♦ Rank 43

40

MARKETS | DTF Score 72.60 ♦ Rank 13

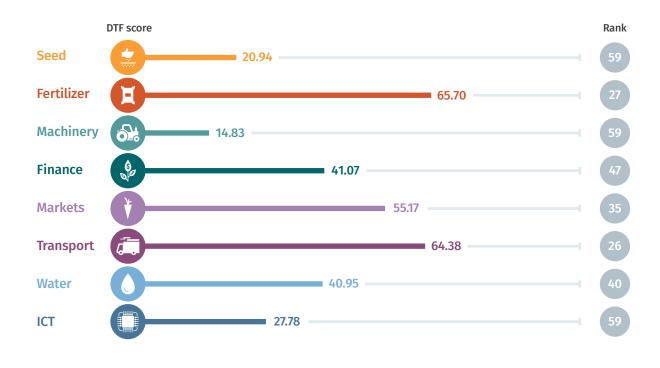
ICT index (0-9)

4.1

Doing Business - getting credit index (0-8) **Non-bank Lending Institutions** Microfinance institutions index (0-7) 5.0 Financial cooperatives index (0-7) 6.0

205

2.5



4.0

N/A

N/A

2.5

ICT index (0-9)

	110	
Variety registration index (0-8)	3.5	Pla
Time to register new variety (days)	No practice	Ag
Cost to register new variety (% income per capita)	No practice	Do
Seed quality control index (0-12)	0.0	Tir
		Co
FERTILIZER   DTF Score 65.70 ♦ Rank	27	
Fertilizer registration index (0-7)	3.4	TF
Time to register a new fertilizer product (days)	No data	Tru
Cost to register a new fertilizer product (% income p	er capita) 0.5	Tir
Quality control of fertilizer index (0-7)	5.0	Co
Importing & distributing fertilizer index (0-7)	3.0	Cro
		Tir
MACHINERY   DTF Score 14.83 ♦ Rank	59	Co
Tractor operation index (0-5)	1.0	
Time to register a tractor (days)	No practice	W
Cost to register a tractor (% income per capita)	No practice	Int
Tractor testing and standards index (0-8)	0.3	Ind

SEED<sup>a</sup> | DTF Score 20.94 ♦ Rank 59

Plant breeding index (0-10)

Time to obtain type approval (days)

Tractor import index (0-5)

Cost to obtain type approval (% income per capita)

FINANCE   DTF Score 41.07 $\diamondsuit$ Rank 47	
Branchless Banking	
Agent banking index (0-5)	0.0
E-money index (0-4)	1.0
Movable Collateral	
Warehouse receipts index (0-5)	0.0
Doing Business - getting credit index (0-8)	4.0
Non-bank Lending Institutions	
Microfinance institutions index (0-7)	6.0
Financial cooperatives index (0-7)	6.0

#### MARKETS | DTF Score 55.17 ♦ Rank 35 Producer organizations index (0-13) 7.0 lant protection index (0-8) 4.5 gricultural trade index (0-9) 6.0 ocuments to export agricultural goods (number) 2 me to export agricultural goods (days) 3 ost to export agricultural goods (% income per capita) 4.8 RANSPORT | DTF Score 64.38 ♦ Rank 26 rucking licenses and operations index (0-11) 6.5 ime to obtain trucking licenses (days) 37 ost to obtain trucking licenses (% income per capita) 6.1 ross-border transportation index (0-9) 5.0 ime to obtain cross-border license (days) 30 ost to obtain cross-border license (% income per capita) 0.3 VATER | DTF Score 40.95 ♦ Rank 40 ntegrated water resource management index (0-29) 16.5 Individual water use for irrigation index (0-20) 5.0

ICT | DTF Score 27.78 ♦ Rank 59

### DTF score Rank Seed **7.50 Fertilizer** 8.93 Machinery **13.29 Finance 46.13** Markets **20.49 Transport 16.16** Water 4.31 **ICT** 55.56

			· · · · · · · · · · · · · · · · · · ·	
Plant breeding index (0-10)	3	.0	Producer organizations index (0-13)	5.4
Variety registration index (0-8)	0	.0	Plant protection index (0-8)	0.0
Time to register new variety (days)	No practi	ce	Agricultural trade index (0-9)	2.0
Cost to register new variety (% income per capita)	No practi	ce	Documents to export agricultural goods (number)	4
Seed quality control index (0-12)	0	.0	Time to export agricultural goods (days)	7
			Cost to export agricultural goods (% income per capita)	No data
FERTILIZER   DTF Score 8.93 ♦ Rank 62	2			
Fertilizer registration index (0-7)	0	.0	TRANSPORT   DTF Score 16.16 $\diamondsuit$ Rank 59	9
Time to register a new fertilizer product (days)	N	/A	Trucking licenses and operations index (0-11)	1.0
Cost to register a new fertilizer product (% income per	r capita) N	/A	Time to obtain trucking licenses (days)	N/A
Quality control of fertilizer index (0-7)	0	.0	Cost to obtain trucking licenses (% income per capita)	N/A
Importing & distributing fertilizer index (0-7)	2	.5	Cross-border transportation index (0-9)	5.0
			Time to obtain cross-border license (days)	No practice
MACHINERY   DTF Score 13.29 ♦ Rank 6	60		Cost to obtain cross-border license (% income per capita)	No practice
Tractor operation index (0-5)	1	.0		
Time to register a tractor (days)		5	WATER   DTF Score 4.31 ♦ Rank 61	
Cost to register a tractor (% income per capita)	92	2.1	Integrated water resource management index (0-29)	2.5
Tractor testing and standards index (0-8)	0	.3	Individual water use for irrigation index (0-20)	0.0
Time to obtain type approval (days)	N.	/A		
Cost to obtain type approval (% income per capita)	N.	/A	ICT   DTF Score 55.56 ♦ Rank 31	
Tractor import index (0-5)	0	.0	ICT index (0-9)	5.0

4.0



Financial cooperatives index (0-7)

Branchless Banking	
Agent banking index (0-5)	0.0
E-money index (0-4)	4.0
Movable Collateral	
Warehouse receipts index (0-5)	0.0
Doing Business - getting credit index (0-8)	5.0
Non-bank Lending Institutions	
Microfinance institutions index (0-7)	4.0

SEED<sup>a</sup> | DTF Score 7.50 ♦ Rank 62

MARKETS | DTF Score 20.49 ♦ Rank 62

a. The indicators apply to the formal seed system only.

DTF score		
Seed		45.30
Fertilizer	3	9.83
Machinery		56.67
Finance		58.27
Markets		56.86
Transport		46.44
Water		65.56
ICT		41.67
SEED <sup>a</sup> DTF Score 45.30 $\diamondsuit$ Rank 50	Γ 0	MARKETS   DTF Score 56.86 $\diamondsuit$ Rank 33
Plant breeding index (0-10) Variety registration index (0-8)	5.0 5.5	Producer organizations index (0-13) Plant protection index (0-8)
Time to register new variety (days)	5.5	Agricultural trade index (0-9)
Cost to register new variety (% income per capita)	2038.1	Documents to export agricultural goods (number)

Plant breeding index (0-10) 5.0 Producer organizations index (0-13	2)
5.0 Troducer organizations index (o is	3) 9.0
Variety registration index (0-8) 5.5 Plant protection index (0-8)	3.0
Time to register new variety ( <i>days</i> ) 579 Agricultural trade index ( <i>0-9</i> )	4.5
Cost to register new variety (% income per capita) 2038.1 Documents to export agricultural	goods (number) 1
Seed quality control index (0-12) 6.0 Time to export agricultural goods	s (days) 1
Cost to export agricultural goods (	(% income per capita) 2.8
FERTILIZER   DTF Score 39.83 ♦ Rank 44	
Fertilizer registration index (0-7)  3.5 TRANSPORT   DTF Score 4	46.44 ♦ Rank 41
Time to register a new fertilizer product (days) 913 Trucking licenses and operations	index (0-11) 5.5
Cost to register a new fertilizer product (% income per capita) 3030.5 Time to obtain trucking licenses (	
Quality control of fertilizer index (0-7) 4.5 Cost to obtain trucking licenses (%	% income per capita) 5.5
Importing & distributing fertilizer index (0-7)  3.0 Cross-border transportation index	x (0-9) 4.0
Time to obtain cross-border licen	nse (days) N/A
MACHINERY   DTF Score 56.67 ♦ Rank 23 Cost to obtain cross-border licens	se (% income per capita) N/A
Tractor operation index (0-5) 4.0	
Time to register a tractor (days) 15 WATER   DTF Score 65.56	♦ Rank 19
Cost to register a tractor (% income per capita) 8.3 Integrated water resource manage	
Tractor testing and standards index (0-8) 5.0 Individual water use for irrigation	n index (0-20) 14.5
Time to obtain type approval (days) 240	
Cost to obtain type approval (% income per capita) 428.6 ICT   DTF Score 41.67 $\diamondsuit$ R	Rank 50
Tractor import index (0-5) 3.0 ICT index (0-9)	3.8

5.0

### FINANCE | DTF Score 58.27 ♦ Rank 20

Branchless Banking	Branch	less	Ban	king
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Financial cooperatives index (0-7)

Agent banking index (0-5)	2.5
E-money index (0-4)	3.8
Movable Collateral	
Warehouse receipts index (0-5)	0.0
Doing Business - getting credit index (0-8)	5.0
Non-bank Lending Institutions	
Microfinance institutions index (0-7)	5.0

a. The indicators apply to the formal seed system only. Recent research estimates that 68.8% of the seed used by farmers in Malawi in 2011 were sourced in the informal seed sector. (McGuire, S. and Sperling, L., 2016. Seed systems smallholder farmers use. Food Security, 8(1), pp.179-195.)

### DTF score Rank Seed 47.80 **Fertilizer 33.93 Machinery** 60.32 **Finance 52.15 Markets =** 53.06 **Transport 28.28** Water **33.49** – **ICT** 61.11

SEED <sup>a</sup>   DTF Score 47.80 ♦ Rank 45		MARKETS   DTF Score 53.06 ♦ Rank 40	
Plant breeding index (0-10)	9.0	Producer organizations index (0-13)	4.9
Variety registration index (0-8)	3.0	Plant protection index (0-8)	4.0
Time to register new variety (days)	561	Agricultural trade index (0-9)	3.5
Cost to register new variety (% income per capita)	7.0	Documents to export agricultural goods (number)	2
Seed quality control index (0-12)	0.0	Time to export agricultural goods (days)	No data
		Cost to export agricultural goods (% income per capita)	0.0
FERTILIZER   DTF Score 33.93 ♦ Rank 50			
Fertilizer registration index (0-7)	0.0	TRANSPORT   DTF Score 28.28 ♦ Rank 54	
Time to register a new fertilizer product (days)	N/A	Trucking licenses and operations index (0-11)	5.2
Cost to register a new fertilizer product (% income per capita)	N/A	Time to obtain trucking licenses (days)	44
Quality control of fertilizer index (0-7)	3.5	Cost to obtain trucking licenses (% income per capita)	4.2
Importing & distributing fertilizer index (0-7)	6.0	Cross-border transportation index (0-9)	0.0
		Time to obtain cross-border license (days)	N/A
MACHINERY   DTF Score 60.32 ♦ Rank 18		Cost to obtain cross-border license (% income per capita)	N/A
Tractor operation index (0-5)	4.5		
Time to register a tractor (days)	7	WATER │ DTF Score 33.49 ♦ Rank 45	
Cost to register a tractor (% income per capita)	0.2	Integrated water resource management index (0-29)	10.0
Tractor testing and standards index (0-8)	2.7	Individual water use for irrigation index (0-20)	6.5
Time to obtain type approval (days)	N/A		
Cost to obtain type approval (% income per capita)	N/A	ICT   DTF Score 61.11 ♦ Rank 22	
Tractor import index (0-5)	4.5	ICT index (0-9)	5.5

#### FINANCE | DTF Score 52.15 ♦ Rank 28

**MALAYSIA** 

4.4
3.8

Warehouse receipts index (0-5) 0.0
Doing Business - getting credit index (0-8) 6.0
Non-bank Lending Institutions

Microfinance institutions index (0-7) 0.0
Financial cooperatives index (0-7) 4.0



## SUB-SAHARAN AFRICA LOW INCOME

	DTF score		Rank
Seed		36.99	52
Fertilizer	E	66.76	23
Machinery	8.83		61
Finance		43.35	41
Markets	()	51.78	44
Transport		45.05	44
Water	24,44		50
ICT		38.89	52

SEED <sup>a</sup>   DTF Score 36.99 ♦ Rank 52		MARKETS   DTF Score 51.78 $\diamondsuit$ Rank 44	
Plant breeding index (0-10)	4.0	Producer organizations index (0-13)	8.0
Variety registration index (0-8)	5.0	Plant protection index (0-8)	2.0
Time to register new variety (days)	No practice	Agricultural trade index (0-9)	5.5
Cost to register new variety (% income per capita)	No practice	Documents to export agricultural goods (number)	1
Seed quality control index (0-12)	5.0	Time to export agricultural goods (days)	2
		Cost to export agricultural goods (% income per capita)	4.1
FERTILIZER   DTF Score 66.76 ♦ Rank 2	23		
Fertilizer registration index (0-7)	4.5	TRANSPORT   DTF Score 45.05 ♦ Rank 4	4
Time to register a new fertilizer product (days)	90	Trucking licenses and operations index (0-11)	3.5
Cost to register a new fertilizer product (% income per capita) 124.4		Time to obtain trucking licenses (days)	3
Quality control of fertilizer index (0-7)	3.5	Cost to obtain trucking licenses (% income per capita)	3.8
Importing & distributing fertilizer index (0-7)	4.5	Cross-border transportation index (0-9)	5.0
		Time to obtain cross-border license (days)	No practice
MACHINERY   DTF Score 8.83 ♦ Rank 6	1	Cost to obtain cross-border license (% income per capita)	No practice
Tractor operation index (0-5)	0.0		
Time to register a tractor (days)	N/A	WATER   DTF Score 24.44 ♦ Rank 50	
Cost to register a tractor (% income per capita)	N/A	Integrated water resource management index (0-29)	12.0
Tractor testing and standards index (0-8)	0.3	Individual water use for irrigation index (0-20)	1.5
Time to obtain type approval (days)	N/A		
Cost to obtain type approval (% income per capita)	N/A	ICT   DTF Score 38.89 ♦ Rank 52	
Tractor import index (0-5)	2.0	ICT index (0-9)	3.5





0.0

3.8

0.0

4.0

FINANCE | DTF Score 43.35  $\diamondsuit$  Rank 41

**Branchless Banking**Agent banking index (0-5)

E-money index (0-4)

Movable Collateral

Warehouse receipts index (0-5)

Non-bank Lending Institutions

Doing Business - getting credit index (0-8)

Microfinance institutions index (0-7)

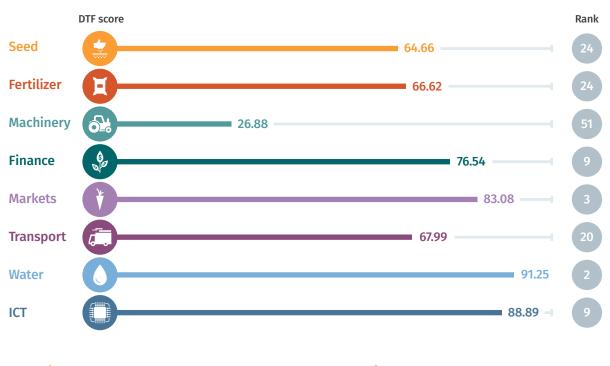
4.0

Enancial cooperatives index (0-7)

4.0

a. The indicators apply to the formal seed system only.

# MEXICO



SEED <sup>a</sup>   DTF Score 64.66 ♦ Rank 24		MARKETS   DTF Score 83.08 ♦ Rank 3	
Plant breeding index (0-10)		Producer organizations index (0-13)	9.8
Variety registration index (0-8)		Plant protection index (0-8)	7.0
Time to register new variety (days)	621	Agricultural trade index (0-9)	7.5
Cost to register new variety (% income per capita)		Documents to export agricultural goods (number)	1
Seed quality control index (0-12)	7.0	Time to export agricultural goods (days)	1
		Cost to export agricultural goods (% income per capita)	0.3
FERTILIZER   DTF Score 66.62 ♦ Rank 24			
Fertilizer registration index (0-7)	6.0	TRANSPORT   DTF Score 67.99 ♦ Rank 20	
Time to register a new fertilizer product (days)	765	Trucking licenses and operations index (0-11)	7.5
Cost to register a new fertilizer product (% income per cap	ita) 11.5	Time to obtain trucking licenses (days)	30
Quality control of fertilizer index (0-7)	4.0	Cost to obtain trucking licenses (% income per capita)	4.0
Importing & distributing fertilizer index (0-7)	4.5	Cross-border transportation index (0-9)	5.0
		Time to obtain cross-border license (days)	30
MACHINERY   DTF Score 26.88 ♦ Rank 51		Cost to obtain cross-border license (% income per capita)	3.1
Tractor operation index (0-5)	1.0		
Time to register a tractor (days)	No data	WATER   DTF Score 91.25 $\diamondsuit$ Rank 2	
Cost to register a tractor (% income per capita)	No data	Integrated water resource management index (0-29)	29.0
Tractor testing and standards index (0-8)	3.0	Individual water use for irrigation index (0-20)	16.5
Time to obtain type approval (days)	N/A		
Cost to obtain type approval (% income per capita)	N/A	ICT   DTF Score 88.89 ♦ Rank 9	
Tractor import index (0-5)	2.5	ICT index (0-9)	8.0

### FINANCE | DTF Score 76.54 $\diamondsuit$ Rank 9

#### **Branchless Banking**

Agent banking index (0-5)	4.2
E-money index (0-4)	0.0
Movable Collateral	
Warehouse receipts index (0-5)	4.5
Doing Business - getting credit index (0-8)	8.0
Non-bank Lending Institutions	
Microfinance institutions index (0-7)	6.0
Financial cooperatives index (0-7)	7.0

	DTF score				Ran
Seed			67.87		20
Fertilizer	H	32.14			51
Machinery	<b>6</b>		60.33		17
Finance	(a)	29.00			57
Markets	(†)—		64.22		24
Transport				79.89	8
Water	0		7	6.59 ———	8
ICT			66.67		18

SEED <sup>a</sup>   DTF Score 67.87 ♦ Rank 20		MARKETS   DTF Score 64.22 $\diamondsuit$ Rank 24	
Plant breeding index (0-10)	10.0	Producer organizations index (0-13)	6.8
Variety registration index (0-8)	4.5	Plant protection index (0-8)	6.5
Time to register new variety (days)	584	Agricultural trade index (0-9)	5.0
Cost to register new variety (% income per capita)	18.1	Documents to export agricultural goods (number)	2
Seed quality control index (0-12)	6.5	Time to export agricultural goods (days)	4
		Cost to export agricultural goods (% income per capita)	0.5
FERTILIZER   DTF Score 32.14 ♦ Rank 51			
Fertilizer registration index (0-7)	0.0	TRANSPORT   DTF Score 79.89 ♦ Rank 8	
Time to register a new fertilizer product (days)	N/A	Trucking licenses and operations index (0-11)	6.2
Cost to register a new fertilizer product (% income per capita,	) N/A	Time to obtain trucking licenses (days)	6
Quality control of fertilizer index (0-7)	5.5	Cost to obtain trucking licenses (% income per capita)	0.0
Importing & distributing fertilizer index (0-7)	3.5	Cross-border transportation index (0-9)	6.0
		Time to obtain cross-border license (days)	1
MACHINERY   DTF Score 60.33 ♦ Rank 17		Cost to obtain cross-border license (% income per capita)	0.0
Tractor operation index (0-5)	0.5		
Time to register a tractor (days)	1	WATER   DTF Score 76.59 $\diamondsuit$ Rank 8	
Cost to register a tractor (% income per capita)	1.3	Integrated water resource management index (0-29)	20.5
Tractor testing and standards index (0-8)	5.0	Individual water use for irrigation index (0-20)	16.5
Time to obtain type approval (days)	31		
Cost to obtain type approval (% income per capita)	272.0	ICT   DTF Score 66.67 ♦ Rank 18	
Tractor import index (0-5)	3.0	ICT index (0-9)	6.0

### FINANCE | DTF Score 29.00 $\diamondsuit$ Rank 57

Branchless Banking	Branch	less	Ban	king
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9	
Agent banking index (0-5)	2.6
E-money index (0-4)	1.0
Movable Collateral	
Warehouse receipts index (0-5)	3.0
Doing Business - getting credit index (0-8)	3.0
Non-bank Lending Institutions	
Microfinance institutions index (0-7)	0.0
Financial cooperatives index (0-7)	0.0

a. The indicators apply to the formal seed system only.

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**Branchless Banking** 

E-money index (0-4) **Movable Collateral** 

Agent banking index (0-5)

Warehouse receipts index (0-5)

**Non-bank Lending Institutions**Microfinance institutions index (0-7)

Financial cooperatives index (0-7)

Doing Business - getting credit index (0-8)

## DTF score Rank Seed **Fertilizer 38.93 Machinery** 34.58 **Finance 55.10 Markets 59.52 Transport ■** 54.91 Water **63.36 ICT 61.11**

**MOZAMBIQUE** 

SEED <sup>a</sup> DTF Score 65.68 $\diamondsuit$ Rank 23		MARKETS   DTF Score 59.52 ♦ Rank 30	
Plant breeding index (0-10)	8.0	Producer organizations index (0-13)	8.1
Variety registration index (0-8)	6.0	Plant protection index (0-8)	5.0
Time to register new variety (days)	582	Agricultural trade index (0-9)	5.0
Cost to register new variety (% income per capita)	86.2	Documents to export agricultural goods (number)	1
Seed quality control index (0-12)	6.0	Time to export agricultural goods (days)	7
		Cost to export agricultural goods (% income per capita)	2.0
FERTILIZER   DTF Score 38.93 ♦ Rank 47	7		
Fertilizer registration index (0-7)	3.4	TRANSPORT   DTF Score 54.91 ♦ Rank 33	
Time to register a new fertilizer product (days)	No practice	Trucking licenses and operations index (0-11)	5.0
Cost to register a new fertilizer product (% income per capita)	No practice	Time to obtain trucking licenses (days)	3
Quality control of fertilizer index (0-7)	4.0	Cost to obtain trucking licenses (% income per capita)	19.5
Importing & distributing fertilizer index (0-7)	3.5	Cross-border transportation index (0-9)	5.0
		Time to obtain cross-border license (days)	3
MACHINERY   DTF Score 34.58 ♦ Rank 4	7	Cost to obtain cross-border license (% income per capita)	58.5
Tractor operation index (0-5)	0.5		
Time to register a tractor (days)	20	WATER   DTF Score 63.36 ♦ Rank 21	
Cost to register a tractor (% income per capita)	14.6	Integrated water resource management index (0-29)	15.0
Tractor testing and standards index (0-8)	2.3	Individual water use for irrigation index (0-20)	15.0
Time to obtain type approval (days)	N/A		
Cost to obtain type approval (% income per capita)	N/A	ICT   DTF Score 61.11 $\diamondsuit$ Rank 22	
Tractor import index (0-5)	4.5	ICT index (0-9)	5.5
FINANCE   DTF Score 55.10 $\diamondsuit$ Rank 25			

3.9

1.0

3.8

2.0

4.0

	DTF score		Rank
Seed	****	54.60	34
Fertilizer	H	61.64	30
Machinery	2.83		62
Finance		22.92	61
Markets	Ť	42.33	53
Transport		30.19	51
Water	2.59		62
ICT		50.00	37

SEED <sup>a</sup>   DTF Score 54.60 ♦ Rank 34		MARKETS   DTF Score 42.33 ♦ Rank 53	
Plant breeding index (0-10)	7.0	Producer organizations index (0-13)	6.5
Variety registration index (0-8)	3.0	Plant protection index (0-8)	0.0
Time to register new variety (days)	306	Agricultural trade index (0-9)	5.0
Cost to register new variety (% income per capita)	26.6	Documents to export agricultural goods (number)	2
Seed quality control index (0-12)	3.0	Time to export agricultural goods (days)	4
		Cost to export agricultural goods (% income per capita)	1.2
FERTILIZER   DTF Score 61.64 ♦ Rank 30			
Fertilizer registration index (0-7)	4.4	TRANSPORT   DTF Score 30.19 ♦ Rank 51	
Time to register a new fertilizer product (days)	41	Trucking licenses and operations index (0-11)	1.5
Cost to register a new fertilizer product (% income per capita)	7.3	Time to obtain trucking licenses (days)	7
Quality control of fertilizer index (0-7)	3.0	Cost to obtain trucking licenses (% income per capita)	0.1
Importing & distributing fertilizer index (0-7)	3.0	Cross-border transportation index (0-9)	1.0
		Time to obtain cross-border license (days)	N/A
MACHINERY   DTF Score 2.83 ♦ Rank 62		Cost to obtain cross-border license (% income per capita)	N/A
Tractor operation index (0-5)	0.0		
Time to register a tractor (days)	N/A	WATER   DTF Score 2.59 ♦ Rank 62	
Cost to register a tractor (% income per capita)	N/A	Integrated water resource management index (0-29)	1.5
Tractor testing and standards index (0-8)	0.3	Individual water use for irrigation index (0-20)	0.0
Time to obtain type approval (days)	N/A		
Cost to obtain type approval (% income per capita)	N/A	ICT   DTF Score 50.00 ♦ Rank 37	
Tractor import index (0-5)	0.5	ICT index (0-9)	4.5

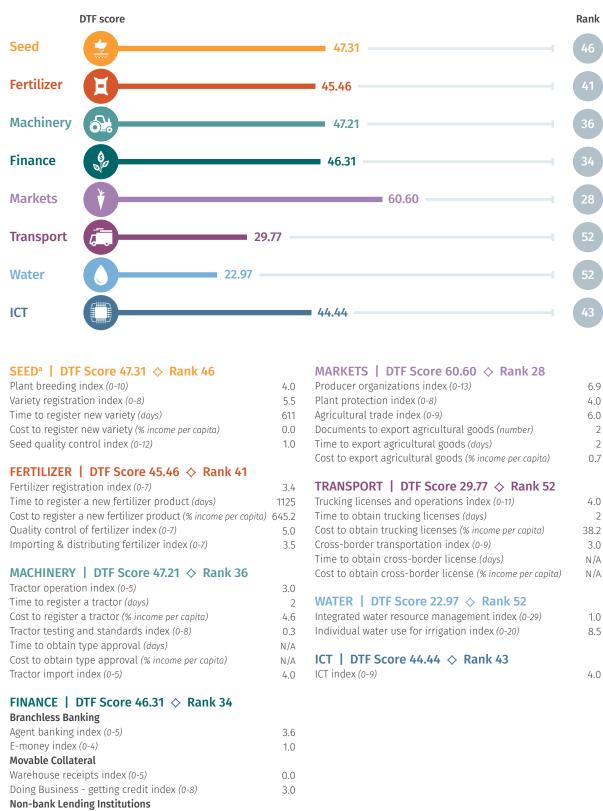
## FINANCE | DTF Score 22.92 $\diamondsuit$ Rank 61 Branchless Banking

Agent banking index (0-5) 0.0 E-money index (0-4) 1.0 Movable Collateral Warehouse receipts index (0-5) 0.0 Doing Business - getting credit index (0-8) 1.0

**Non-bank Lending Institutions** 

Microfinance institutions index (0-7) 3.0 Financial cooperatives index (0-7) 4.0

a. The indicators apply to the formal seed system only.





Microfinance institutions index (0-7) 4.0 Financial cooperatives index (0-7) 6.0

## **NETHERLANDS**

### **OECD HIGH INCOME HIGH INCOME**

N/A

2.8

Plant breeding index (0-10)	9.0
Variety registration index (0-8)	7.0
Time to register new variety (days)	556
Cost to register new variety (% income per capita)	13.7
Seed quality control index (0-12)	12.0
FERTILIZER   DTF Score 83.33 ♦ Rank 7	
Fertilizer registration index (0-7)	5.0
Time to register a new fertilizer product (days)	N/A
Cost to register a new fertilizer product (% income per capita)	N/A
Quality control of fertilizer index (0-7)	6.5
Importing & distributing fertilizer index (0-7)	6.0
MACHINERY   DTF Score 81.83 ♦ Rank 7	
Tractor operation index (0-5)	2.0
Time to register a tractor (days)	1
Cost to register a tractor (% income per capita)	0.1
Tractor testing and standards index (0-8)	7.0
Time to obtain type approval (days)	o data
	o data
Tractor import index (0-5)	5.0
FINANCE   DTF Score 61.31 $\diamondsuit$ Rank 17	

. ,		
Plant protection index (0-8)	8.0	
Agricultural trade index (0-9)	8.0	
Documents to export agricultural goods (number)	0	
Time to export agricultural goods (days)	0	
Cost to export agricultural goods (% income per capita)	0.0	
TRANSPORT   DTF Score 76.47 ♦ Rank 9		
Trucking licenses and operations index (0-11)	9.8	
Time to obtain trucking licenses (days)	56	
Cost to obtain trucking licenses (% income per capita)	0.9	
Cross-border transportation index (0-9)	9.0	
Time to obtain cross-border license (days)	56	
Cost to obtain cross-border license (% income per capita)	0.9	
WATER   DTF Score 64.27 ♦ Rank 20		
Integrated water resource management index (0-29)	23.5	
Individual water use for irrigation index (0-20)	9.5	
ICT   DTF Score 100.00 ♦ Rank 1		
ICT index (0-9)	9.0	





**Branchless Banking** Agent banking index (0-5)

E-money index (0-4)

**Movable Collateral** 

Warehouse receipts index (0-5) 2.5 Doing Business - getting credit index (0-8) 3.0 **Non-bank Lending Institutions** 

Microfinance institutions index (0-7) N/A Financial cooperatives index (0-7) 5.0

a. The indicators apply to the formal seed system only.

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#### DTF score Rank Seed **47.92 Fertilizer 78.20 Machinery 33.03 Finance** 45.94 **Markets** 66.29 **Transport 51.56** Water **61.98 ICT** SEED<sup>a</sup> | DTF Score 47.92 ♦ Rank 44 MARKETS | DTF Score 66.29 ♦ Rank 20 Plant breeding index (0-10) 7.0 Producer organizations index (0-13) 9.4 Variety registration index (0-8) 6.5 Plant protection index (0-8) 6.0 Time to register new variety (days) 650 Agricultural trade index (0-9) 4.5 Cost to register new variety (% income per capita) 786.9 Documents to export agricultural goods (number) 2 Seed quality control index (0-12) 3.0 Time to export agricultural goods (days) 2 Cost to export agricultural goods (% income per capita) 1.4 FERTILIZER | DTF Score 78.20 ♦ Rank 11 TRANSPORT | DTF Score 51.56 ♦ Rank 36 Fertilizer registration index (0-7) 4.8 Time to register a new fertilizer product (days) Trucking licenses and operations index (0-11) 28 8.0 Cost to register a new fertilizer product (% income per capita) 82.5 Time to obtain trucking licenses (days) 7 Quality control of fertilizer index (0-7) Cost to obtain trucking licenses (% income per capita) 7.0 4.5 Importing & distributing fertilizer index (0-7) 3.5 Cross-border transportation index (0-9) 4.0 Time to obtain cross-border license (days) N/A MACHINERY | DTF Score 33.03 ♦ Rank 48 Cost to obtain cross-border license (% income per capita) N/A Tractor operation index (0-5) 1.0 WATER | DTF Score 61.98 ♦ Rank 23 Time to register a tractor (days) 10 Cost to register a tractor (% income per capita) Integrated water resource management index (0-29) 5.6 20.0 Individual water use for irrigation index (0-20) Tractor testing and standards index (0-8) 0.0 11.0

N/A

N/A

3.5

ICT index (0-9)

#### FINANCE | DTF Score 45.94 ♦ Rank 36

Cost to obtain type approval (% income per capita)

Time to obtain type approval (days)

Tractor import index (0-5)

**Branchless Banking** 

**NICARAGUA** 

Movable Collateral	
E-money index (0-4)	1.0
Agent banking index (0-5)	3.6

Warehouse receipts index (0-5) 4.3
Doing Business - getting credit index (0-8) 3.0
Non-bank Lending Institutions

Microfinance institutions index (0-7)

Financial cooperatives index (0-7)

4.0

a. The indicators apply to the formal seed system only.

ICT | DTF Score 44.44 ♦ Rank 43

40

1

9.6

10.5

9.5

40

0.0

N/A

N/A

0.3

N/A

N/A

5.0

4.0

ICT index (0-9)

### FINANCE | DTF Score 43.01 ♦ Rank 45

Cost to obtain type approval (% income per capita)

Cost to register a tractor (% income per capita)

Tractor testing and standards index (0-8)

Time to obtain type approval (days)

Financial cooperatives index (0-7)

MACHINERY | DTF Score 20.83 ♦ Rank 55

Tractor import index (0-5)

Tractor operation index (0-5)

Time to register a tractor (days)

Agent banking index (0-5) 0.0 E-money index (0-4) 3.8 **Movable Collateral** Warehouse receipts index (0-5) 0.0 Doing Business - getting credit index (0-8) 4.0 **Non-bank Lending Institutions** Microfinance institutions index (0-7) 4.0

a. The indicators apply to the formal seed system only.

Time to obtain cross-border license (days)

WATER | DTF Score 41.85 ♦ Rank 39

Individual water use for irrigation index (0-20)

ICT | DTF Score 44.44 ♦ Rank 43

Integrated water resource management index (0-29)

Cost to obtain cross-border license (% income per capita)



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**NIGERIA** 

**Branchless Banking** 

E-money index (0-4) Movable Collateral

Agent banking index (0-5)

Warehouse receipts index (0-5)

**Non-bank Lending Institutions** 

Microfinance institutions index (0-7)

Financial cooperatives index (0-7)

Doing Business - getting credit index (0-8)

## DTF score Rank Seed **48.82 Fertilizer 57.79 Machinery 63.07 Finance 57.21 Markets** 49.24 **Transport 46.30** Water **32.03** -**ICT 50.00**

SEED <sup>a</sup>   DTF Score 48.82 $\diamondsuit$ Rank 42		MARKETS   DTF Score 49.24 ♦ Rank 48	
Plant breeding index (0-10)	3.0	Producer organizations index (0-13)	7.0
Variety registration index (0-8)	5.5	Plant protection index (0-8)	2.0
Time to register new variety (days)	367	Agricultural trade index (0-9)	4.0
Cost to register new variety (% income per capita)	197.9	Documents to export agricultural goods (number)	2
Seed quality control index (0-12)	3.0	Time to export agricultural goods (days)	7
		Cost to export agricultural goods (% income per capita)	0.5
FERTILIZER   DTF Score 57.79 ♦ Rank 31			
Fertilizer registration index (0-7)	4.0	TRANSPORT   DTF Score 46.30 ♦ Rank 4	3
Time to register a new fertilizer product (days)	225	Trucking licenses and operations index (0-11)	3.5
Cost to register a new fertilizer product (% income per capita)	6.0	Time to obtain trucking licenses (days)	1
Quality control of fertilizer index (0-7)	3.0	Cost to obtain trucking licenses (% income per capita)	1.4
Importing & distributing fertilizer index (0-7)	3.0	Cross-border transportation index (0-9)	5.0
		Time to obtain cross-border license (days)	No practice
MACHINERY   DTF Score 63.07 ♦ Rank 16		Cost to obtain cross-border license (% income per capita)	No practice
Tractor operation index (0-5)	0.5		
Time to register a tractor (days)	14	WATER   DTF Score 32.03 ♦ Rank 46	
Cost to register a tractor (% income per capita)	9.9	Integrated water resource management index (0-29)	13.5
Tractor testing and standards index (0-8)	5.7	Individual water use for irrigation index (0-20)	3.5
Time to obtain type approval (days)	105		
Cost to obtain type approval (% income per capita)	99.0	ICT   DTF Score 50.00 ♦ Rank 37	
Tractor import index (0-5)	5.0	ICT index (0-9)	4.5
FINANCE   DTFC FTC4   D   1 CC			
FINANCE   DTF Score 57.21 $\diamondsuit$ Rank 22			

3.7

3.8

0.0

6.0

4.0



## LATIN AMERICA & CARIBBEAN UPPER MIDDLE INCOME

## **PERU**



SEED <sup>a</sup>   DTF Score 72.49 ♦ Rank 10		MARKETS   DTF Score 61.28 $\diamondsuit$ Rank 27	
Plant breeding index (0-10)	7.0	Producer organizations index (0-13)	9.2
Variety registration index (0-8)	5.0	Plant protection index (0-8)	5.0
Time to register new variety (days)	357	Agricultural trade index (0-9)	6.0
Cost to register new variety (% income per capita)	21.3	Documents to export agricultural goods (number)	2
Seed quality control index (0-12)	8.0	Time to export agricultural goods (days)	11
		Cost to export agricultural goods (% income per capita)	0.7
FERTILIZER   DTF Score 30.36 ♦ Rank 52			
Fertilizer registration index (0-7)	0.0	TRANSPORT   DTF Score 84.75 ♦ Rank 5	
Time to register a new fertilizer product (days)	N/A	Trucking licenses and operations index (0-11)	7.5
Cost to register a new fertilizer product (% income per capita)	N/A	Time to obtain trucking licenses (days)	3
Quality control of fertilizer index (0-7)	2.5	Cost to obtain trucking licenses (% income per capita)	0.4
Importing & distributing fertilizer index (0-7)	6.0	Cross-border transportation index (0-9)	7.0
		Time to obtain cross-border license (days)	7
MACHINERY   DTF Score 18.50 ♦ Rank 58		Cost to obtain cross-border license (% income per capita)	0.0
Tractor operation index (0-5)	0.0		
Time to register a tractor (days)	N/A	WATER │ DTF Score 73.79 ♦ Rank 11	
Cost to register a tractor (% income per capita)	N/A	Integrated water resource management index (0-29)	22.5
Tractor testing and standards index (0-8)	1.0	Individual water use for irrigation index (0-20)	14.0
Time to obtain type approval (days)	N/A		
Cost to obtain type approval (% income per capita)	N/A	ICT   DTF Score 72.22 $\diamondsuit$ Rank 15	
Tractor import index (0-5)	4.0	ICT index (0-9)	6.5

7.0

3.0

### FINANCE | DTF Score 86.67 $\diamondsuit$ Rank 2

### **Branchless Banking**

 Agent banking index (0-5)
 4.3

 E-money index (0-4)
 3.7

#### **Movable Collateral**

Warehouse receipts index (0-5) 5.0
Doing Business - getting credit index (0-8) 8.0

#### **Non-bank Lending Institutions**

Microfinance institutions index (0-7)
Financial cooperatives index (0-7)





219

a. The indicators apply to the formal seed system only. Recent research estimates that 92.8% of the maize seed used for planting during the 2010/2011 season in Peru were non-certified seed. (Lapeña, I., 2012. La Nueva Legislación de Semillas y sus implicancias para la agricultura familiar en el Perú. Serie de Política y Derecho Ambiental. Sociedad Peruana de Derecho Ambiental, (26).)

**PHILIPPINES** 

## 220

Microfinance institutions index (0-7)

Financial cooperatives index (0-7)

#### DTF score Rank Seed 72.28 **Fertilizer** 67.52 **Machinery** 68.10 **Finance** 48.38 **Markets** 53.47 **Transport** 49.88 Water **67.28 ICT 50.00** SEED<sup>a</sup> | DTF Score 72.28 ♦ Rank 11 MARKETS | DTF Score 53.47 ♦ Rank 38 Plant breeding index (0-10) Producer organizations index (0-13) 10.0 5.5 Variety registration index (0-8) 6.5 Plant protection index (0-8) 2.0 Time to register new variety (days) 570 Agricultural trade index (0-9) 5.5 Cost to register new variety (% income per capita) 1.5 Documents to export agricultural goods (number) 1 Seed quality control index (0-12) 5.3 Time to export agricultural goods (days) 2 Cost to export agricultural goods (% income per capita) 0.0 FERTILIZER | DTF Score 67.52 ♦ Rank 22 TRANSPORT | DTF Score 49.88 ♦ Rank 37 Fertilizer registration index (0-7) 4.4 Time to register a new fertilizer product (days) Trucking licenses and operations index (0-11) 134 5.5 Cost to register a new fertilizer product (% income per capita) 9.2 Time to obtain trucking licenses (days) 235 Quality control of fertilizer index (0-7) Cost to obtain trucking licenses (% income per capita) 4.5 3.8 Importing & distributing fertilizer index (0-7) 3.5 Cross-border transportation index (0-9) 5.0 Time to obtain cross-border license (days) No practice MACHINERY | DTF Score 68.10 ♦ Rank 13 Cost to obtain cross-border license (% income per capita) No practice Tractor operation index (0-5) 2.0 WATER | DTF Score 67.28 ♦ Rank 17 Time to register a tractor (days) 11 Cost to register a tractor (% income per capita) 0.0 Integrated water resource management index (0-29) 18.0 Individual water use for irrigation index (0-20) Tractor testing and standards index (0-8) 5.2 14.5 Time to obtain type approval (days) 30 ICT | DTF Score 50.00 ♦ Rank 37 Cost to obtain type approval (% income per capita) 12.6 Tractor import index (0-5) ICT index (0-9) 3.0 4.5 FINANCE | DTF Score 48.38 ♦ Rank 33 **Branchless Banking** Agent banking index (0-5) 0.0 E-money index (0-4) 3.6 Movable Collateral Warehouse receipts index (0-5) 4.5 Doing Business - getting credit index (0-8) 2.0 **Non-bank Lending Institutions**

0.0

### **OECD HIGH INCOME HIGH INCOME**

6.0

### FINANCE | DTF Score 58.08 ♦ Rank 21

Financial cooperatives index (0-7)

Dranciness Danking	
Agent banking index (0-5)	4.1
E-money index (0-4)	3.8
Movable Collateral	
Warehouse receipts index (0-5)	0.0
Doing Business - getting credit index (0-8)	7.0
Non-bank Lending Institutions	
Microfinance institutions index (0-7)	0.0

a. The indicators apply to the formal seed system only.



ROMANIA

## 222

Financial cooperatives index (0-7)

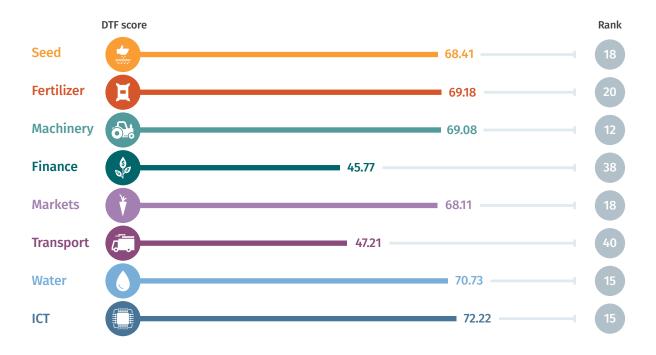
#### DTF score Rank Seed 81.11 -**Fertilizer** 64.67 **Machinery 88.82 Finance** 72.41 **Markets 73.24 Transport** 90.96 Water **80.91 ICT ■ 100.00 ■** SEED<sup>a</sup> | DTF Score 81.11 ♦ Rank 6 MARKETS | DTF Score 73.24 ♦ Rank 12 Plant breeding index (0-10) Producer organizations index (0-13) 10.0 7.3 Variety registration index (0-8) 5.5 Plant protection index (0-8) 6.5 Time to register new variety (days) 654 Agricultural trade index (0-9) 5.0 Cost to register new variety (% income per capita) 23.2 Documents to export agricultural goods (number) 0 Seed quality control index (0-12) 11.0 Time to export agricultural goods (days) Cost to export agricultural goods (% income per capita) 0.0 FERTILIZER | DTF Score 64.67 ♦ Rank 28 TRANSPORT | DTF Score 90.96 ♦ Rank 2 Fertilizer registration index (0-7) 4.8 Time to register a new fertilizer product (days) Trucking licenses and operations index (0-11) 1205 9.8 Cost to register a new fertilizer product (% income per capita) 46.3 Time to obtain trucking licenses (days) 15 Quality control of fertilizer index (0-7) Cost to obtain trucking licenses (% income per capita) 2.0 6.5 Importing & distributing fertilizer index (0-7) 3.0 Cross-border transportation index (0-9) 9.0 Time to obtain cross-border license (days) 15 MACHINERY | DTF Score 88.82 ♦ Rank 3 Cost to obtain cross-border license (% income per capita) 2.0 Tractor operation index (0-5) 5.0 WATER | DTF Score 80.91 ♦ Rank 7 Time to register a tractor (days) 30 Cost to register a tractor (% income per capita) 0.4 Integrated water resource management index (0-29) 23.0 Individual water use for irrigation index (0-20) Tractor testing and standards index (0-8) 8.0 16.5 Time to obtain type approval (days) 30 ICT | DTF Score 100.00 ♦ Rank 1 Cost to obtain type approval (% income per capita) 7.7 Tractor import index (0-5) ICT index (0-9) 5.0 90 FINANCE | DTF Score 72.41 ♦ Rank 11 **Branchless Banking** Agent banking index (0-5) 3.4 E-money index (0-4) 3.8 **Movable Collateral** Warehouse receipts index (0-5) 5.0 Doing Business - getting credit index (0-8) 7.0 **Non-bank Lending Institutions** Microfinance institutions index (0-7)

0.0

6.0

a. The indicators apply to the formal seed system only.

## **RUSSIAN FEDERATION**



SEED <sup>a</sup>   DTF Score 68.41 ♦ Rank 18		MARKETS   DTF Score 68.11 ♦ Rank 18	
Plant breeding index (0-10)	9.0	Producer organizations index (0-13)	7.8
Variety registration index (0-8)	7.0	Plant protection index (0-8)	6.5
Time to register new variety (days)	716	Agricultural trade index (0-9)	7.0
Cost to register new variety (% income per capita)	0.0	Documents to export agricultural goods (number)	4
Seed quality control index (0-12)	4.0	Time to export agricultural goods (days)	4
		Cost to export agricultural goods (% income per capita)	0.2
FERTILIZER   DTF Score 69.18 ♦ Rank 20			
Fertilizer registration index (0-7)	4.8	TRANSPORT   DTF Score 47.21 ♦ Rank 40	
Time to register a new fertilizer product (days)	330	Trucking licenses and operations index (0-11)	3.7
Cost to register a new fertilizer product (% income per capita	59.6	Time to obtain trucking licenses (days)	N/A
Quality control of fertilizer index (0-7)	3.0	Cost to obtain trucking licenses (% income per capita)	N/A
Importing & distributing fertilizer index (0-7)	6.0	Cross-border transportation index (0-9)	5.0
		Time to obtain cross-border license (days)	1
MACHINERY   DTF Score 69.08 ♦ Rank 12		Cost to obtain cross-border license (% income per capita)	0.1
Tractor operation index (0-5)	3.0		
Time to register a tractor (days)	5	WATER   DTF Score 70.73 ♦ Rank 15	
Cost to register a tractor (% income per capita)	0.4	Integrated water resource management index (0-29)	20.0
Tractor testing and standards index (0-8)	6.2	Individual water use for irrigation index (0-20)	14.5
Time to obtain type approval (days)	189		
Cost to obtain type approval (% income per capita)	558.6	ICT   DTF Score 72.22 $\diamondsuit$ Rank 15	
Tractor import index (0-5)	5.0	ICT index (0-9)	6.5



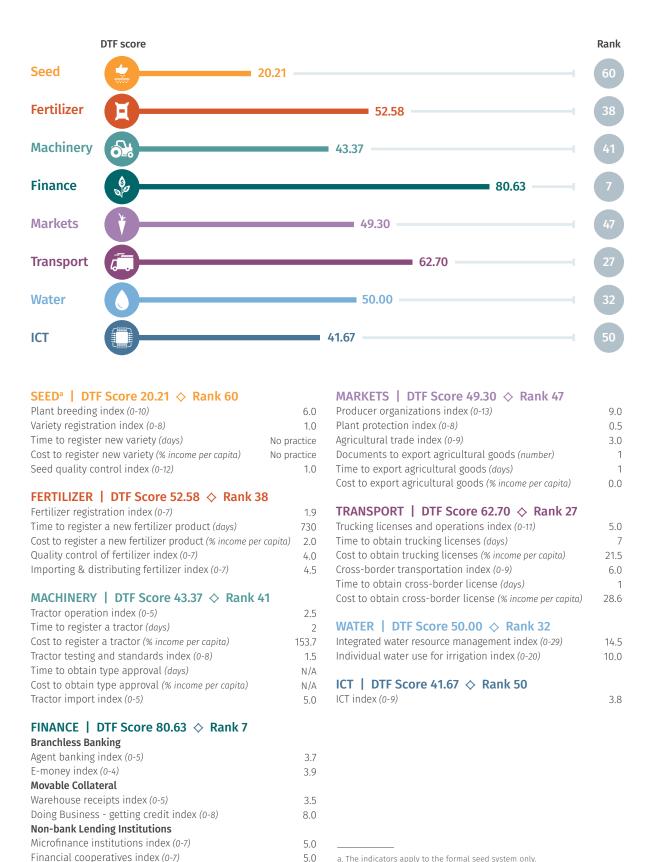


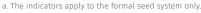
3	
Agent banking index (0-5)	3.6
E-money index (0-4)	1.0
Movable Collateral	
Warehouse receipts index (0-5)	3.5
Doing Business - getting credit index (0-8)	4.0

FINANCE | DTF Score 45.77  $\diamondsuit$  Rank 38 Branchless Banking

Non-bank Lending Institutions
Microfinance institutions index (0-7) 0.0
Financial cooperatives index (0-7) 4.0

a. The indicators apply to the formal seed system only.





Rank

Seed

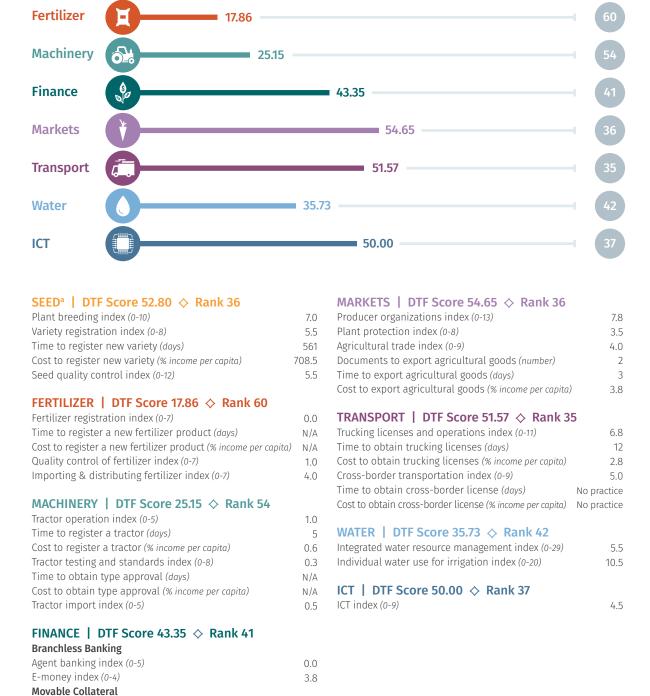
DTF score

Warehouse receipts index (0-5)

**Non-bank Lending Institutions**Microfinance institutions index (0-7)

Financial cooperatives index (0-7)

Doing Business - getting credit index (0-8)



0.0

4.0

4.0



a. The indicators apply to the formal seed system only.

**SERBIA** 

**Branchless Banking** 

E-money index (0-4) **Movable Collateral** 

Agent banking index (0-5)

Warehouse receipts index (0-5)

**Non-bank Lending Institutions** 

Microfinance institutions index (0-7)

Financial cooperatives index (0-7)

Doing Business - getting credit index (0-8)

## DTF score Rank Seed **68.38 Fertilizer** 91.92 **Machinery 89.11 Finance 43.75 Markets 76.80 Transport 71.97** Water **72.93 ICT 77.78**

SEED <sup>a</sup>   DTF Score 68.38 ♦ Rank 19		MARKETS   DTF Score 76.80 ♦ Rank 8	
Plant breeding index (0-10)	8.0	Producer organizations index (0-13)	7.0
Variety registration index (0-8)	5.0	Plant protection index (0-8)	7.0
Time to register new variety (days)	604	Agricultural trade index (0-9)	6.5
Cost to register new variety (% income per capita)	0.4	Documents to export agricultural goods (number)	1
Seed quality control index (0-12)	7.0	Time to export agricultural goods (days)	2
		Cost to export agricultural goods (% income per capita)	0.2
FERTILIZER   DTF Score 91.92 $\diamondsuit$ Rank 4			
Fertilizer registration index (0-7)	5.8	TRANSPORT   DTF Score 71.97 $\diamondsuit$ Rank 13	
Time to register a new fertilizer product (days)	22	Trucking licenses and operations index (0-11)	6.5
Cost to register a new fertilizer product (% income per capita)	5.3	Time to obtain trucking licenses (days)	30
Quality control of fertilizer index (0-7)	6.0	Cost to obtain trucking licenses (% income per capita)	1.6
Importing & distributing fertilizer index (0-7)	7.0	Cross-border transportation index (0-9)	7.0
		Time to obtain cross-border license (days)	30
MACHINERY   DTF Score 89.11 ♦ Rank 2		Cost to obtain cross-border license (% income per capita)	4.3
Tractor operation index (0-5)	3.0		
Time to register a tractor (days)	2	WATER   DTF Score 72.93 $\diamondsuit$ Rank 14	
Cost to register a tractor (% income per capita)	5.6	Integrated water resource management index (0-29)	22.0
Tractor testing and standards index (0-8)	8.0	Individual water use for irrigation index (0-20)	14.0
Time to obtain type approval (days)	30		
Cost to obtain type approval (% income per capita)	2.7	ICT   DTF Score 77.78 $\diamondsuit$ Rank 12	
Tractor import index (0-5)	5.0	ICT index (0-9)	7.0
FINANCE   DTF Score 43.75 $\diamondsuit$ Rank 40			

0.0

4.0

5.0

5.0

0.0

## OECD HIGH INCOME HIGH INCOME

32.2

5.0

7.0

ICT index (0-9)

#### FINANCE | DTF Score 86.67 ♦ Rank 3

Cost to obtain type approval (% income per capita)

Branchless Banking	Branch	less	Ban	king
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Tractor import index (0-5)

Financial cooperatives index (0-7)

Agent banking index (0-5)	N/A
E-money index (0-4)	3.8
Movable Collateral	
Warehouse receipts index (0-5)	3.5
Doing Business - getting credit index (0-8)	5.0
Non-bank Lending Institutions	
Microfinance institutions index (0-7)	N/A

a. The indicators apply to the formal seed system only.

ICT | DTF Score 100.00 ♦ Rank 1



9.8

0.2

9.0

25

0.5

28.0

18.5

9.0

4



## DTF score Rank Seed 47.10 **Fertilizer 53.82 Machinery 46.18 Finance 28.67 Markets 33.85 Transport** 42.43 Water **16.68 ICT 27.78**

SEED <sup>a</sup>   DTF Score 47.10 ♦ Rank 47		MARKETS   DTF Score 33.85 ♦ Rank 58	
Plant breeding index (0-10)	4.0	Producer organizations index (0-13)	6.9
Variety registration index (0-8)	3.5	Plant protection index (0-8)	2.0
Time to register new variety (days)	298	Agricultural trade index (0-9)	2.5
Cost to register new variety (% income per capita)	0.0	Documents to export agricultural goods (number)	3
Seed quality control index (0-12)	2.0	Time to export agricultural goods (days)	4
		Cost to export agricultural goods (% income per capita)	7.1
FERTILIZER   DTF Score 53.82 ♦ Rank 36			
Fertilizer registration index (0-7)	2.4	TRANSPORT   DTF Score 42.43 ♦ Rank 48	
Time to register a new fertilizer product (days)	365	Trucking licenses and operations index (0-11)	3.5
Cost to register a new fertilizer product (% income per capita)	3.7	Time to obtain trucking licenses (days)	2
Quality control of fertilizer index (0-7)	3.5	Cost to obtain trucking licenses (% income per capita)	2.7
Importing & distributing fertilizer index (0-7)	3.5	Cross-border transportation index (0-9)	0.0
		Time to obtain cross-border license (days)	N/A
MACHINERY   DTF Score 46.18 ♦ Rank 39		Cost to obtain cross-border license (% income per capita)	N/A
Tractor operation index (0-5)	2.5		
Time to register a tractor (days)	3	WATER │ DTF Score 16.68 ♦ Rank 54	
Cost to register a tractor (% income per capita)	3.3	Integrated water resource management index (0-29)	7.5
Tractor testing and standards index (0-8)	2.3	Individual water use for irrigation index (0-20)	1.5
Time to obtain type approval (days)	N/A		
Cost to obtain type approval (% income per capita)	N/A	ICT   DTF Score 27.78 $\diamondsuit$ Rank 59	
Tractor import index (0-5)	3.0	ICT index (0-9)	2.5

0.0

3.0

### FINANCE | DTF Score 28.67 ♦ Rank 58

#### **Branchless Banking** Agent hanking index (0-5)

Financial cooperatives index (0-7)

**SRI LANKA** 

Agent banking index (0-5)	0.0
E-money index (0-4)	3.7
Movable Collateral	
Warehouse receipts index (0-5)	0.0
Doing Business - getting credit index (0-8)	3.0
Non-bank Lending Institutions	
Microfinance institutions index (0-7)	0.0

a. The indicators apply to the formal seed system only.

	DTF score		Rank
Seed	****	49.34	41
Fertilizer	B	23.21	56
Machinery	OF	54.87	27
Finance		33.93	53
Markets	()	30.56	61
Transport		43.36	47
Water	10.17		59
ICT		33.33	57

	MARKETS   DTF Score 30.56 ♦ Rank 61	
8.0	Producer organizations index (0-13)	6.5
4.5	Plant protection index (0-8)	1.5
654	Agricultural trade index (0-9)	No data
620.7	Documents to export agricultural goods (number)	2
4.5	Time to export agricultural goods (days)	21
	Cost to export agricultural goods (% income per capita)	6.1
0.0	TRANSPORT   DTF Score 43.46 ♦ Rank 47	
N/A	Trucking licenses and operations index (0-11)	1.0
N/A	Time to obtain trucking licenses (days)	N/A
3.5	Cost to obtain trucking licenses (% income per capita)	N/A
3.0	Cross-border transportation index (0-9)	7.0
	Time to obtain cross-border license (days)	14
	Cost to obtain cross-border license (% income per capita)	2.4
2.5		
7	WATER   DTF Score 10.17 ♦ Rank 59	
29.8	Integrated water resource management index (0-29)	3.0
5.3	Individual water use for irrigation index (0-20)	2.0
45		
146.6	ICT   DTF Score 33.33 ♦ Rank 57	
1.5	ICT index (0-9)	3.0
	4.5 654 620.7 4.5 0.0 N/A N/A 3.5 3.0 2.5 7 29.8 5.3 45 146.6	8.0 Producer organizations index (0-13) 4.5 Plant protection index (0-8) 654 Agricultural trade index (0-9) 620.7 Documents to export agricultural goods (number) 4.5 Time to export agricultural goods (days) Cost to export agricultural goods (% income per capita)  0.0 TRANSPORT   DTF Score 43.46 ♦ Rank 47 N/A Trucking licenses and operations index (0-11) N/A Time to obtain trucking licenses (days) 3.5 Cost to obtain trucking licenses (% income per capita) 3.0 Cross-border transportation index (0-9) Time to obtain cross-border license (days) Cost to obtain cross-border license (% income per capita) 2.5 7 WATER   DTF Score 10.17 ♦ Rank 59 29.8 Integrated water resource management index (0-29) 11dividual water use for irrigation index (0-20) 45 146.6 ICT   DTF Score 33.33 ♦ Rank 57

## FINANCE | DTF Score 33.93 $\diamondsuit$ Rank 53

Branch	less	Ban	king

Agent banking index (0-5)	0.0
E-money index (0-4)	2.0
Movable Collateral	
Warehouse receipts index (0-5)	0.0
Doing Business - getting credit index (0-8)	2.0
Non-bank Lending Institutions	
Microfinance institutions index (0-7)	5.0
Financial cooperatives index (0-7)	4.0

<sup>4.0</sup> a. The indicators apply to the formal seed system only.

## DTF score Rank Seed **42.40 Fertilizer** 36.79 **Machinery 58.15 Finance** 32.14 Markets **58.05 Transport 84.09** Water **46.81 ICT** 36.11

8.0

4.5

0.0

1.0

No practice

Cook to modistan manuscriptus (AV)	Maria de la constitución de la c
Cost to register new variety (% income per capita)	No practice
Seed quality control index (0-12)	4.0
FERTILIZER   DTF Score 36.79 ♦ Rank 49	)
Fertilizer registration index (0-7)	2.3
Time to register a new fertilizer product (days)	No practice
Cost to register a new fertilizer product (% income per capite	a) No practice
Quality control of fertilizer index (0-7)	2.0
Importing & distributing fertilizer index (0-7)	6.0
MACHINERY   DTF Score 58.15 ♦ Rank 2	2
MACHINERY   DTF Score 58.15 ♦ Rank 2.7 Tractor operation index (0-5)	3.0
Tractor operation index (0-5)	3.0
Tractor operation index (0-5) Time to register a tractor (days)	3.0 10
Tractor operation index (0-5) Time to register a tractor (days) Cost to register a tractor (% income per capita)	3.0 10 1.5
Tractor operation index (0-5) Time to register a tractor (days) Cost to register a tractor (% income per capita) Tractor testing and standards index (0-8)	3.0 10 1.5 4.0
Tractor operation index (0-5) Time to register a tractor (days) Cost to register a tractor (% income per capita) Tractor testing and standards index (0-8) Time to obtain type approval (days)	3.0 10 1.5 4.0 No practice

SEED<sup>a</sup> | DTF Score 42.40 ♦ Rank 51

Plant breeding index (0-10)

Variety registration index (0-8)

Time to register new variety (days)

**TAJIKISTAN** 

Producer organizations muex (0-13)	9.0
Plant protection index (0-8)	4.5
Agricultural trade index (0-9)	5.5
Documents to export agricultural goods (number)	2
Time to export agricultural goods (days)	6
Cost to export agricultural goods (% income per capita)	4.3
TRANSPORT   DTF Score 84.09 $\diamondsuit$ Rank 6	
Trucking licenses and operations index (0-11)	9.5
Time to obtain trucking licenses (days)	2
Cost to obtain trucking licenses (% income per capita)	0.4
Cross-border transportation index (0-9)	5.0
Time to obtain cross-border license (days)	1
Cost to obtain cross-border license (% income per capita)	5.1
WATER   DTF Score 46.81 $\diamondsuit$ Rank 35	
Integrated water resource management index (0-29)	17.0
Individual water use for irrigation index (0-20)	7.0
ICT   DTF Score 36.11 ♦ Rank 56	

3.3

MARKETS | DTF Score 58.05 ♦ Rank 32



FINANCE | DTF Score 32.14  $\diamondsuit$  Rank 55

**Branchless Banking** 

E-money index (0-4)

Agent banking index (0-5)

**Movable Collateral** 0.0 2.0 **Non-bank Lending Institutions** Microfinance institutions index (0-7) 7.0 Financial cooperatives index (0-7) 3.0 ICT index (0-9)

### **SUB-SAHARAN AFRICA LOW INCOME**

## **TANZANIA**

**Branchless Banking** 

E-money index (0-4)

Movable Collateral

Agent banking index (0-5)

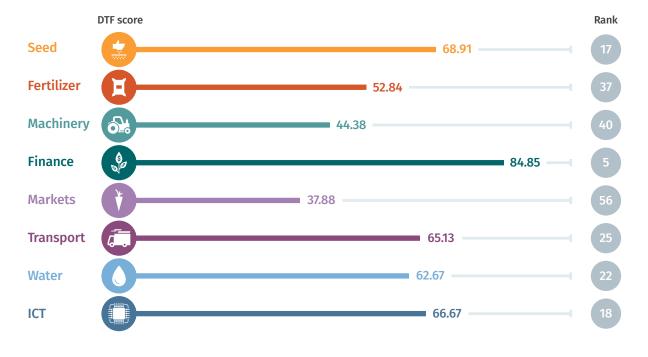
Warehouse receipts index (0-5)

**Non-bank Lending Institutions** 

Microfinance institutions index (0-7)

Financial cooperatives index (0-7)

Doing Business - getting credit index (0-8)



	MARKETS   DTF Score 37.88 ♦ Rank 56	
9.0	Producer organizations index (0-13)	9.7
4.0	Plant protection index (0-8)	3.0
333	Agricultural trade index (0-9)	3.0
65.1	Documents to export agricultural goods (number)	4
6.5	Time to export agricultural goods (days)	16
	Cost to export agricultural goods (% income per capita)	4.3
3.4	TRANSPORT   DTF Score 65.13 ♦ Rank 25	
578	Trucking licenses and operations index (0-11)	3.5
ita) 983.1	Time to obtain trucking licenses (days)	3
7.0	Cost to obtain trucking licenses (% income per capita)	4.7
3.0	Cross-border transportation index (0-9)	6.0
	Time to obtain cross-border license (days)	14
	Cost to obtain cross-border license (% income per capita)	22.0
0.5		
3	WATER   DTF Score 62.67 ♦ Rank 22	
20.7	Integrated water resource management index (0-29)	17.5
3.5	Individual water use for irrigation index (0-20)	13.0
N/A		
N/A	ICT   DTF Score 66.67 ♦ Rank 18	
5.0	ICT index (0-9)	6.0
	4.0 333 65.1 6.5 3.4 578 ita) 983.1 7.0 3.0 0.5 3 20.7 3.5 N/A N/A	4.0 Plant protection index (0-8)  333 Agricultural trade index (0-9)  65.1 Documents to export agricultural goods (number)  6.5 Time to export agricultural goods (days)  Cost to export agricultural goods (% income per capita)  3.4 TRANSPORT   DTF Score 65.13 ❖ Rank 25  Trucking licenses and operations index (0-11)  Time to obtain trucking licenses (days)  7.0 Cost to obtain trucking licenses (% income per capita)  3.0 Cross-border transportation index (0-9)  Time to obtain cross-border license (days)  Cost to obtain cross-border license (% income per capita)  0.5  3 WATER   DTF Score 62.67 ❖ Rank 22  20.7 Integrated water resource management index (0-29)  Individual water use for irrigation index (0-20)  N/A  N/A ICT   DTF Score 66.67 ❖ Rank 18

4.1

3.7

4.5

6.0

6.0



a. The indicators apply to the formal seed system only. Recent research estimates that 70.2% of Tanzanian famers' households used non-commercial maize seed for planting during the 2010/2011 season. (Sheahan, M. and Barrett, C.B., 2016. Ten striking facts about agricultural input use in Sub-Saharan Africa. Food Policy.)

## **THAILAND**

	DTF score					Rank
Seed				<b>56.87</b>	1	32
Fertilizer	H				71.65	16
Machinery	O			<b>56.53</b>	1	24
Finance				52.11	1	29
Markets	Ť		44.63		1	52
Transport		29.0	8		1	53
Water	6	5.03			1	60
ICT				<b>55.56</b>		31

SEED <sup>a</sup>   DTF Score 56.87 $\diamondsuit$ Rank 32		MARKETS   DTF Score 44.63 ♦ Rank 52	
Plant breeding index (0-10)	8.0	Producer organizations index (0-13)	5.0
Variety registration index (0-8)	3.0	Plant protection index (0-8)	3.0
Time to register new variety (days)	327	Agricultural trade index (0-9)	4.5
Cost to register new variety (% income per capita)	7.3	Documents to export agricultural goods (number)	3
Seed quality control index (0-12)	3.0	Time to export agricultural goods (days)	6
		Cost to export agricultural goods (% income per capita)	0.7
FERTILIZER   DTF Score 71.65 ♦ Rank 16			
Fertilizer registration index (0-7)	5.4	TRANSPORT   DTF Score 29.08 $\diamondsuit$ Rank 5	3
Time to register a new fertilizer product (days)	100	Trucking licenses and operations index (0-11)	5.0
Cost to register a new fertilizer product (% income per capita)	2.0	Time to obtain trucking licenses (days)	45
Quality control of fertilizer index (0-7)	4.5	Cost to obtain trucking licenses (% income per capita)	0.8
Importing & distributing fertilizer index (0-7)	3.5	Cross-border transportation index (0-9)	0.0
		Time to obtain cross-border license (days)	No practice
MACHINERY   DTF Score 56.53 ♦ Rank 24		Cost to obtain cross-border license (% income per capita)	No practice
Tractor operation index (0-5)	3.0		
Time to register a tractor (days)	1	WATER   DTF Score 6.03 ♦ Rank 60	
Cost to register a tractor (% income per capita)	0.2	Integrated water resource management index (0-29)	3.5
Tractor testing and standards index (0-8)	1.8	Individual water use for irrigation index (0-20)	0.0
Time to obtain type approval (days)	N/A		
Cost to obtain type approval (% income per capita)	N/A	ICT   DTF Score 55.56 ♦ Rank 31	
Tractor import index (0-5)	5.0	ICT index (0-9)	5.0

3.4 3.5

4.0



Dianchiess Danking	
Agent banking index (0-5)	
E-money index (0-4)	

Movable Collateral Warehouse receipts index (0-5) 3.8 Doing Business - getting credit index (0-8)

2.0 **Non-bank Lending Institutions** Microfinance institutions index (0-7) 0.0 Financial cooperatives index (0-7)



	DTF score	
Seed		72.07
Fertilizer	E .	74.10
Machinery		88.69 -
Finance	49.06	
Markets	59.9	95
Transport	65	2.61
Water	24.14	
ICT	55.56	

SEED <sup>a</sup>   DTF Score 72.07 $\diamondsuit$ Rank 12		MARKETS   DTF Score 59.95 ♦ Rank 29	
Plant breeding index (0-10)	6.0	Producer organizations index (0-13)	5.1
Variety registration index (0-8)	6.5	Plant protection index (0-8)	7.0
Time to register new variety (days)	646	Agricultural trade index (0-9)	4.0
Cost to register new variety (% income per capita)	28.8	Documents to export agricultural goods (number)	3
Seed quality control index (0-12)	10.0	Time to export agricultural goods (days)	3
		Cost to export agricultural goods (% income per capita)	0.4
FERTILIZER   DTF Score 74.10 ♦ Rank 13			
Fertilizer registration index (0-7)	5.4	TRANSPORT   DTF Score 62.61 ♦ Rank 28	
Time to register a new fertilizer product (days)	50	Trucking licenses and operations index (0-11)	8.7
Cost to register a new fertilizer product (% income per capita)	1.7	Time to obtain trucking licenses (days)	4
Quality control of fertilizer index (0-7)	5.0	Cost to obtain trucking licenses (% income per capita)	83.5
Importing & distributing fertilizer index (0-7)	3.5	Cross-border transportation index (0-9)	7.0
		Time to obtain cross-border license (days)	6
MACHINERY   DTF Score 88.69 ♦ Rank 4		Cost to obtain cross-border license (% income per capita)	334.1
Tractor operation index (0-5)	4.5		
Time to register a tractor (days)	2	WATER   DTF Score 24.14 $\diamondsuit$ Rank 51	
Cost to register a tractor (% income per capita)	2.4	Integrated water resource management index (0-29)	14.0
Tractor testing and standards index (0-8)	6.7	Individual water use for irrigation index (0-20)	0.0
Time to obtain type approval (days)	90		
Cost to obtain type approval (% income per capita)	102.1	ICT   DTF Score 55.56 ♦ Rank 31	
Tractor import index (0-5)	5.0	ICT index (0-9)	5.0

5.0

### FINANCE | DTF Score 49.06 $\diamondsuit$ Rank 32

Branchless I	Banking
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Financial cooperatives index (0-7)

Agent banking index (0-5)	0.0
E-money index (0-4)	3.4
Movable Collateral	
Warehouse receipts index (0-5)	5.0
Doing Business - getting credit index (0-8)	3.0
Non-bank Lending Institutions	
Microfinance institutions index (0-7)	0.0

a. The indicators apply to the formal seed system only.

### DTF score Rank Seed **57.82 Fertilizer 46.75 Machinery =** 53.21 **Finance 50.30 Markets 50.44 Transport 68.17** Water **58.58 ICT 61.11**

Plant breeding index (0-10)	7.0					
Variety registration index (0-8)						
Time to register new variety (days)	523					
Cost to register new variety (% income per capita)	0.0					
Seed quality control index (0-12)	3.0					
FERTILIZER   DTF Score 46.75 ♦ Rank 40						
Fertilizer registration index (0-7)	3.4					
Time to register a new fertilizer product (days)	663					
Cost to register a new fertilizer product (% income per cap	oita) 215.3					
Quality control of fertilizer index (0-7)						
Importing & distributing fertilizer index (0-7)	2.0					
MACHINERY   DTF Score 53.21 ♦ Rank 31						
Tractor operation index (0-5)	2.0					
Time to register a tractor (days)	9					
Cost to register a tractor (% income per capita)	16.3					
Tractor testing and standards index (0-8)	5.0					
Time to obtain type approval (days)	No practice					
Cost to obtain type approval (% income per capita)	No practice					
Tractor import index (0-5)	5.0					

SEED<sup>a</sup> | DTF Score 57.82 ♦ Rank 31

**UGANDA** 

MARKETS   DTF Score 50.44 $\diamondsuit$ Rank 45	
Producer organizations index (0-13)	6.9
Plant protection index (0-8)	3.0
Agricultural trade index (0-9)	4.0
Documents to export agricultural goods (number)	3
Time to export agricultural goods (days)	4
Cost to export agricultural goods (% income per capita)	0.3
TRANSPORT   DTF Score 68.17 ♦ Rank 18	
Trucking licenses and operations index (0-11)	4.5
Time to obtain trucking licenses (days)	1
Cost to obtain trucking licenses (% income per capita)	5.9
Cross-border transportation index (0-9)	6.0
Time to obtain cross-border license (days)	2
Cost to obtain cross-border license (% income per capita)	29.9
WATER   DTF Score 58.58 ♦ Rank 26	
Integrated water resource management index (0-29)	11.5
Individual water use for irrigation index (0-20)	15.5
ICT   DTF Score 61.11 ♦ Rank 22	

5.5

## FINANCE | DTF Score 50.30 $\diamondsuit$ Rank 31

Branchless Banking	
Agent banking index (0-5)	0.0
E-money index (0-4)	1.0
Movable Collateral	
Warehouse receipts index (0-5)	5.0
Doing Business - getting credit index (0-8)	5.0
Non-bank Lending Institutions	
Microfinance institutions index (0-7)	5.0
Financial cooperatives index (0-7)	3.0

a. The indicators apply to the formal seed system only. Recent research estimates that 63.4% of Ugandan famers' households used noncommercial maize seed for planting during the 2010/2011 season. (Sheahan, M. and Barrett, C.B., 2016. Ten striking facts about agricultural input use in Sub-Saharan Africa. Food Policy.)

ICT index (0-9)

### **EUROPE & CENTRAL ASIA** LOWER MIDDLE INCOME



**Branchless Banking** 

Agent banking index (0-5) 3.1 E-money index (0-4) 1.0 **Movable Collateral** Warehouse receipts index (0-5) 5.0 Doing Business - getting credit index (0-8) 6.0 **Non-bank Lending Institutions** Microfinance institutions index (0-7) 0.0 Financial cooperatives index (0-7) 4.0

a. The indicators apply to the formal seed system only.

8.4

4.5

5.0

3

5

0.9

2.0

N/A

N/A

7.0

10

32

15.0

11.5

40



# URUGUAY

	DTF score			Rank
Seed			76.46	9
Fertilizer	H	65.88		25
Machinery	20.00			56
Finance		59.07		19
Markets	<b>V</b>	71.	68	15
Transport		72	.33	11
Water	0	59.40		25
ICT		50.00		37

SEED <sup>a</sup>   DTF Score 76.46 $\diamondsuit$ Rank 9		MARKETS   DTF Score 71.68 ♦ Rank 15	
Plant breeding index (0-10)	10.0	Producer organizations index (0-13)	10.1
Variety registration index (0-8)	4.0	Plant protection index (0-8)	4.5
Time to register new variety (days)	305	Agricultural trade index (0-9)	5.5
Cost to register new variety (% income per capita)	5.0	Documents to export agricultural goods (number)	1
Seed quality control index (0-12)		Time to export agricultural goods (days)	2
		Cost to export agricultural goods (% income per capita)	0.2
FERTILIZER   DTF Score 65.88 ♦ Rank 25			
Fertilizer registration index (0-7)	4.0	TRANSPORT   DTF Score 72.33 ♦ Rank 11	
Time to register a new fertilizer product (days)	11	Trucking licenses and operations index (0-11)	5.5
Cost to register a new fertilizer product (% income per capita)	12.6	Time to obtain trucking licenses (days)	2
Quality control of fertilizer index (0-7)	4.5	Cost to obtain trucking licenses (% income per capita)	0.0
Importing & distributing fertilizer index (0-7)		Cross-border transportation index (0-9)	6.0
		Time to obtain cross-border license (days)	33
MACHINERY   DTF Score 20.00 ♦ Rank 56		Cost to obtain cross-border license (% income per capita)	0.0
Tractor operation index (0-5)	0.0		
Time to register a tractor (days)	N/A	WATER │ DTF Score 59.40 ♦ Rank 25	
Cost to register a tractor (% income per capita)	N/A	Integrated water resource management index (0-29)	18.5
Tractor testing and standards index (0-8)	0.0	Individual water use for irrigation index (0-20)	11.0
Time to obtain type approval (days)	N/A		
Cost to obtain type approval (% income per capita)	N/A	ICT   DTF Score 50.00 ♦ Rank 37	
Tractor import index (0-5)	5.0	ICT index (0-9)	4.5

5.0

### FINANCE | DTF Score 59.07 $\diamondsuit$ Rank 19

## Branchless Banking

Financial cooperatives index (0-7)

3.7
3.5
4.3
3.0
0.0

a. The indicators apply to the formal seed system only.

## EAST ASIA & PACIFIC LOWER MIDDLE INCOME

SEED <sup>a</sup>   DTF Score 48.31 ♦ Rank 43		MARKETS   DTF Score 58.34 ♦ Rank 31	
Plant breeding index (0-10)	6.0	Producer organizations index (0-13)	8.3
Variety registration index (0-8)	5.0	Plant protection index (0-8)	5.5
Time to register new variety (days)	901	Agricultural trade index (0-9)	3.5
Cost to register new variety (% income per capita)	406.2	Documents to export agricultural goods (number)	2
Seed quality control index (0-12)	5.0	Time to export agricultural goods (days)	3
		Cost to export agricultural goods (% income per capita)	1.9
FERTILIZER   DTF Score 74.87 ♦ Rank 12			
Fertilizer registration index (0-7)	6.0	TRANSPORT   DTF Score 79.99 $\diamondsuit$ Rank 7	
Time to register a new fertilizer product (days)	15	Trucking licenses and operations index (0-11)	5.0
Cost to register a new fertilizer product (% income per capita)	5.2	Time to obtain trucking licenses (days)	3
Quality control of fertilizer index (0-7)	5.0	Cost to obtain trucking licenses (% income per capita)	0.5
Importing & distributing fertilizer index (0-7)	3.0	Cross-border transportation index (0-9)	7.0
		Time to obtain cross-border license (days)	2
MACHINERY   DTF Score 74.18 ♦ Rank 10		Cost to obtain cross-border license (% income per capita)	0.5
Tractor operation index (0-5)	2.0		
Time to register a tractor (days)	10	WATER   DTF Score 58.53 ♦ Rank 27	
Cost to register a tractor (% income per capita)	3.5	Integrated water resource management index (0-29)	18.0
Tractor testing and standards index (0-8)	4.3	Individual water use for irrigation index (0-20)	11.0
Time to obtain type approval (days)	11		
Cost to obtain type approval (% income per capita)	0.5	ICT   DTF Score 77.78 $\diamondsuit$ Rank 12	
Tractor import index (0-5)	5.0	ICT index (0-9)	7.0

0.0

3.0

0.0

6.0

6.0





FINANCE | DTF Score 51.19  $\diamondsuit$  Rank 30

**Branchless Banking** 

E-money index (0-4)

Movable Collateral

Agent banking index (0-5)

Warehouse receipts index (0-5)

Financial cooperatives index (0-7)

Doing Business - getting credit index (0-8)



Financial cooperatives index (0-7)

#### DTF score Rank Seed **69.36 Fertilizer** 52.29 **Machinery** 35.01 **Finance** 66.22 **Markets** 45.92 **Transport 66.59** Water 67.93 **ICT** 61.11 SEED<sup>a</sup> | DTF Score 69.36 ♦ Rank 16 MARKETS | DTF Score 45.92 ♦ Rank 50 Plant breeding index (0-10) Producer organizations index (0-13) 8.0 10.3 Variety registration index (0-8) 5.5 Plant protection index (0-8) 2.0 Time to register new variety (days) 544 Agricultural trade index (0-9) 5.0 Cost to register new variety (% income per capita) 70.1 Documents to export agricultural goods (number) 4 Seed quality control index (0-12) 8.0 Time to export agricultural goods (days) 9 Cost to export agricultural goods (% income per capita) 2.4 FERTILIZER | DTF Score 52.29 ♦ Rank 39 TRANSPORT | DTF Score 66.59 ♦ Rank 23 Fertilizer registration index (0-7) 2.9 Time to register a new fertilizer product (days) Trucking licenses and operations index (0-11) 210 4.5 Cost to register a new fertilizer product (% income per capita) 226.6 Time to obtain trucking licenses (days) 46 Quality control of fertilizer index (0-7) Cost to obtain trucking licenses (% income per capita) 3.5 4.2 Importing & distributing fertilizer index (0-7) 2.5 Cross-border transportation index (0-9) 6.0 Time to obtain cross-border license (days) 1 MACHINERY | DTF Score 35.01 ♦ Rank 46 Cost to obtain cross-border license (% income per capita) 7.8 Tractor operation index (0-5) 0.5 WATER | DTF Score 67.93 ♦ Rank 16 Time to register a tractor (days) 16 Cost to register a tractor (% income per capita) Integrated water resource management index (0-29) 7.6 22.0 Individual water use for irrigation index (0-20) Tractor testing and standards index (0-8) 0.3 12.0 Time to obtain type approval (days) N/A ICT | DTF Score 61.11 ♦ Rank 22 Cost to obtain type approval (% income per capita) N/A Tractor import index (0-5) ICT index (0-9) 5.0 55 FINANCE | DTF Score 66.22 $\diamondsuit$ Rank 14 **Branchless Banking** Agent banking index (0-5) 0.0 E-money index (0-4) 3.8 Movable Collateral Warehouse receipts index (0-5) 5.0 Doing Business - getting credit index (0-8) 6.0 **Non-bank Lending Institutions** Microfinance institutions index (0-7) 5.0

## **ZIMBABWE**

FINANCE | DTF Score 38.75 ♦ Rank 49

**Branchless Banking** 

E-money index (0-4)

**Movable Collateral** 

Agent banking index (0-5)

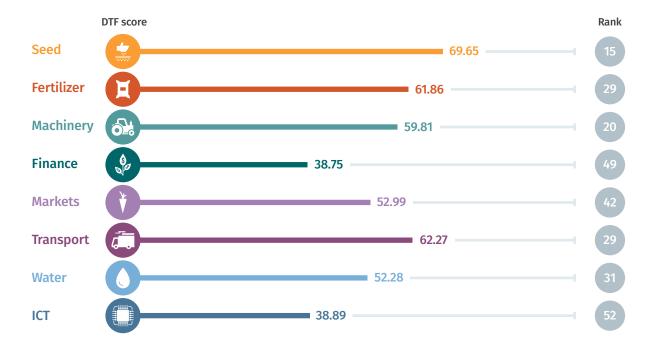
Warehouse receipts index (0-5)

**Non-bank Lending Institutions** 

Microfinance institutions index (0-7)

Financial cooperatives index (0-7)

Doing Business - getting credit index (0-8)



SEED <sup>a</sup>   DTF Score 69.65 ♦ Rank 15		MARKETS   DTF Score 52.99 ♦ Rank 42	
Plant breeding index (0-10)	10.0	Producer organizations index (0-13)	7.5
Variety registration index (0-8)	4.0	Plant protection index (0-8)	2.0
Time to register new variety (days)	607	Agricultural trade index (0-9)	No data
Cost to register new variety (% income per capita)	41.2	Documents to export agricultural goods (number)	1
Seed quality control index (0-12)	8.5	Time to export agricultural goods (days)	No data
		Cost to export agricultural goods (% income per capita)	1.2
FERTILIZER   DTF Score 61.86 ♦ Rank 29			
Fertilizer registration index (0-7)	4.4	TRANSPORT   DTF Score 62.27 ♦ Rank 29	
Time to register a new fertilizer product (days)	15	Trucking licenses and operations index (0-11)	5.5
Cost to register a new fertilizer product (% income per capita)	15.9	Time to obtain trucking licenses (days)	5
Quality control of fertilizer index (0-7)	3.0	Cost to obtain trucking licenses (% income per capita)	14.7
Importing & distributing fertilizer index (0-7)	3.0	Cross-border transportation index (0-9)	4.0
		Time to obtain cross-border license (days)	7
MACHINERY   DTF Score 59.81 ♦ Rank 20		Cost to obtain cross-border license (% income per capita)	17.6
Tractor operation index (0-5)	4.5		
Time to register a tractor (days)	3	WATER   DTF Score 52.28 $\diamondsuit$ Rank 31	
Cost to register a tractor (% income per capita)	18.8	Integrated water resource management index (0-29)	18.0
Tractor testing and standards index (0-8)	4.7	Individual water use for irrigation index (0-20)	8.5
Time to obtain type approval (days)	N/A		
Cost to obtain type approval (% income per capita)	N/A	ICT   DTF Score 38.89 ♦ Rank 52	
Tractor import index (0-5)	4.0	ICT index (0-9)	3.5
•			

0.0

0.0

3.5

5.0

4.0



a. The indicators apply to the formal seed system only. Recent research estimates that 77.3% of the seed used by farmers in Zimbabwe in 2009 were sourced in the informal seed sector. (McGuire, S. and Sperling, L., 2016. Seed systems smallholder farmers use. Food Security, 8(1), pp.179-195.)