# Country Tables

General	General		Transport
Country Country Name Region	Income Group	Predominant Water Source for Irrigatio (FAO Aquastat)	
ARM Armenia Europe & Cent	ral Asia Lower middle inco	me Surface Water	Fruits (e.g. apricots)
<b>BDI</b> Burundi Sub-Saharan A		Surface Water	Coffee
<b>BEN</b> Benin Sub-Saharan A		Surface Water	Cashew nuts
<b>BFA</b> Burkina Faso Sub-Saharan A		Surface Water	Cashew nuts
<b>BGD</b> Bangladesh South Asia	Lower middle inco		Nuts
BIH Bosnia and Herzegovina Europe & Cent			Vegetables (e.g. cucumbers)
<b>BOL</b> Bolivia Latin America			Cereals (e.g. buckwheat)
CHL Chile High income: C		Surface Water	Fruits (e.g. grapes)
CIV Côte d'Ivoire Sub-Saharan A			Cocoa beans
CMR Cameroon Sub-Saharan A			Cocoa Beans
COL Colombia Latin America			Coffee
<b>DNK</b> Denmark High income: C		Groundwater	Cereals (e.g. barley)
<b>EGY</b> Egypt, Arab Rep. Middle East &			Fruit (e.g. grapefruit)
<b>ESP</b> Spain High income: C		Surface Water	Fruits (e.g. mandarins)
<b>ETH</b> Ethiopia Sub-Saharan A		Surface Water	Coffee
GEO Georgia Europe & Cent			Cereals (e.g. wheat)
GHA Ghana Sub-Saharan A			Cocoa beans
GRC Greece High income: C		Surface Water	Fruits (e.g. grapes)
GTM Guatemala Latin America			Fruits (e.g. bananas)
HTI Haiti Latin America		Surface Water	Fruits
IND India South Asia	Lower middle inco		Cereals (e.g. rice)
ITA Italy High income: C		Surface Water	Fruits (e.g. apples)
JOR Jordan Middle East &			Vegetables (e.g. tomatoes)
KAZ Kazakhstan Europe & Cent			Cereals
KEN Kenya Sub-Saharan A			Tea
KGZ Kyrgyz Republic Europe & Cent			Beans
KHM Cambodia East Asia & Pa			Cereals (e.g. rice)
KOR Korea, Rep. High income: C		Surface Water	Vegetables (e.g. pepper)
LAO Lao PDR East Asia & Pa			Coffee
LBR Liberia Sub-Saharan A		Surface Water	Cocoa beans
LKA Sri Lanka South Asia	Lower middle inco		Tea
MAR Morocco Middle East &			Vegetables (e.g. tomatoes)
MEX Mexico Latin America			Vegetables (e.g. tomatoes)
MLI Mali Sub-Saharan A		Surface Water	Fruits (e.g. mangoes)
MMR Myanmar East Asia & Pa			Beans
MOZ Mozambique Sub-Saharan A		Surface Water	Fruits (e.g. bananas)
MWI Malawi Sub-Saharan A		Surface Water	Tea
MYS Malaysia East Asia & Pa			Vegetables
NER Niger Sub-Saharan A		Surface Water	Vegetables (e.g. onions)
NGA Nigeria Sub-Saharan A			Cocoa beans
NIC Nicaragua Latin America			Coffee Vegetables (e.g. tematees)
NLD Netherlands High income: C		Groundwater	Vegetables (e.g. tomatoes)
NPL Nepal South Asia	Low income	Surface Water	Cardamoms
PER Peru Latin America			Coffee
PHL Philippines East Asia & Par POL Poland High income: C			Fruits (e.g. bananas)
3 11 11		Surface Water	Cereals (e.g. wheat) Cereals (e.g. wheat)
ROM Romania Europe & Cent	* * * * * * * * * * * * * * * * * * * *		Cereals (e.g. wheat)  Cereals (e.g. wheat)
RUS Russian Federation Europe & Cent			
RWA Rwanda Sub-Saharan A SDN Sudan Sub-Saharan A		Surface Water me Surface Water	Tea Carob gum
			Carob gum
SEN Senegal Sub-Saharan A		Surface Water	Cereals (e.g. rice)
SRB Serbia Europe & Cent THA Thailand East Asia & Pa			Cereals (e.g. maize)
			Vegetables (e.g. cassava)
TJK Tajikistan Europe & Cent			Fruits (e.g. dried apricots)
TUR Turkey Europe & Cent	Inner middle inco	me Surface Water	Fruits (e.g. mandarins)
	* * * * * * * * * * * * * * * * * * * *	C C	Ck
TZA Tanzania Sub-Saharan A	frica Low income	Surface Water	Cashew nuts
<b>UGA</b> Uganda Sub-Saharan A	frica Low income frica Low income	Surface Water	Coffee
UGAUgandaSub-Saharan AUKRUkraineEurope & Cent	frica Low income frica Low income ral Asia Lower middle inco	Surface Water me Surface Water	Coffee Cereals (e.g. maize)
UGAUgandaSub-Saharan AUKRUkraineEurope & CentURYUruguayLatin America	frica Low income frica Low income ral Asia Lower middle inco & Caribbean High income	Surface Water me Surface Water Surface Water	Coffee Cereals (e.g. maize) Soya beans
UGA Uganda Sub-Saharan A UKR Ukraine Europe & Cent URY Uruguay Latin America VNM Vietnam East Asia & Pa	frica Low income frica Low income ral Asia Lower middle inco & Caribbean High income cific Lower middle inco	Surface Water  me Surface Water  Surface Water  me Surface Water	Coffee Cereals (e.g. maize) Soya beans Cereals (e.g. rice)
UGAUgandaSub-Saharan AUKRUkraineEurope & CentURYUruguayLatin America	frica Low income frica Low income ral Asia Lower middle inco & Caribbean High income cific Lower middle inco frica Lower middle inco	Surface Water  me Surface Water  Surface Water  me Surface Water	Coffee Cereals (e.g. maize) Soya beans



Trading partner Product group Product Produc					
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Civil of Notice  Indis  Fruit  Note secretic concrete Result and content must, fresh or dried  Serbia  Argentina  Argentina  Cereal  Buckbeeker, milet and canabe good, other cereals  United States  Argentina  Fruit  Grapes, Fresh or dried  Chana  Cash crop  Cocco bears, whole or broken, raw or recasted  Netherlands  Cosogn, Rep.  Cash crop  Cosob bears, whole or broken, raw or recasted  Netherlands  Cosogn, Rep.  Cash crop  Conco bears, whole or broken, raw or recasted  Netherlands  Cosogn, Rep.  Cash crop  Conco bears, whole or broken, raw or recasted  Netherlands  Cosogn, Rep.  Cash crop  Confect control bears, whole or broken, raw or recasted  Netherlands  Germany  Cereal  Burkee  Cortic from the recast whole or broken, raw or recasted  Netherlands  Germany  Cereal  Burkee  Cortic from the recast whole or broken, raw or recasted  Netherlands  Germany  Cereal  Burkee  Cortic from the recast whole or broken, raw or recasted  Netherlands  Germany  Cereal  Burkee  Cortic from the recast whole or broken, raw or recasted  Netherlands  Germany  Cereal  Burkee  Cortic from the recast whole or broken, raw or recasted  Netherlands  Germany  Cereal  Control the recast whole or broken, raw or recasted  Netherlands  Germany  Cereal  Control the recast whole or broken, raw or recasted  Germany  Control the recast whole or broken, raw or recasted  Germany  Control the recast whole or broken, raw or recasted  Netherlands  Control the recast whole or broken, raw or recasted  Cereal  What and meetin  Destrict from the recast whole or broken, raw or recasted  Cereal  Rep.  Control the recast whole or broken, raw or recasted  Cereal  Rep.  Control the recast or	Т	anzania	Cash crop	Coffee, coffee husks and skins and coffee substitutes	Switzerland
Forthale	N	Vigeria	Fruit	Coconuts, Brazil nuts and cashew nuts, fresh or dried	India
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Argentina Cereal Bucknieus, millet and currary seed, other sereab United States Argentina Fruit Gropes, Froit of dried United States Chana Cash crop Goods bears, whole or broken, raw or croasted Netherlands Curgu, Rep. Cash crop Coods bears, whole or broken, raw or croasted Netherlands Foundation of Cash crop Control Cash crop Control Cash, whole or broken, raw or croasted Netherlands Cash crop Careal Barley Germany Cereal Barley Germany Cereal States Germany Cereal States Germany Cereal States Germany Cereal States Germany Cereal Cash crop Control Cash crop Cash Cash crop Cash crop Cash crop Cash crop Cash	- II	ndia	Fruit	Nuts except coconut, Brazil and cashew, fresh or dried	India
Gibbana Cash crap Cache Seas, whele or broken, raw or restated Netherlands Congo, Rep. Cache Seas, whele or broken, raw or restated Netherlands Congo, Rep. Cash crap Cocco bears, whele or broken, raw or restated Netherlands Congo, Rep. Cash crap Core of Cache Seas, whele or broken, raw or restated Netherlands Cache C	S	Serbia	Vegetable	Cucumbers and gherkins, fresh or chilled	Croatia
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Cermany   Cermal Barley   Cermany   Duby   Fruit   Citrus fruit, fresh or dried   Soul Arabba   Faunce   Fruit   Citrus fruit, fresh or dried   Soul Arabba   Sonnala   Cash crop   Ceffee Critical fruit, fresh or dried   Germany   Ceffee Critical fruit, fresh or dried   Ceffee Critical fruit, fresh fruit, fresh or dried   Ceffee Critical fruit, fresh or dried   C	C	Congo, Rep.	Cash crop	Cocoa beans, whole or broken, raw or roasted	Netherlands
Ellya   Fruit   Citrus fruit, fresh or died   Saudi Arabia	Е	Ecuador	Cash crop	Coffee, coffee husks and skins and coffee substitutes	United States
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Bulgaria   Fruit   Grapes, fresh or dried   Germany	R	Russian Federation	Cereal	Wheat and meslin	Armenia
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Nepal   Cereal Rice   France   Fruit   Apples, pears and quinces, fresh   Germany			Fruit	Bananas, including plantains, fresh or dried	United States
France Fruit Apples, pears and quinces, fresh Syrian Arab Republic Uzbekistan Cereal Wheat and mesin Azerbaijan Uganda Cash crop Tea Pakistan Kazakhstan Vegetable Vegetables, leguminous dried, shelled Turkey Vietnam Cereal Rice France China Vegetable Vegetables, leguminous dried, shelled Turkey Vietnam Cereal Rice France China Vegetable Vegetables, leguminous dried, shelled France China Vegetable Vegetables nes, fresh or chilled Japan Thailand Cash crop Corea, coffee husks and skins and coffee substitutes Japan Côte d'Ivoire Cash crop Cocca beans, whole or broken, rew or roasted Germany India Cash crop Tea Russian Federation Spain Vegetable Tomatoes, fresh or chilled France United States Vegetable Tomatoes, fresh or chilled France United States Vegetable Tomatoes, fresh or chilled United States Senegat Fruit Dates, figs, pincepiple, avocado, guava, fresh or dried Burkina faso China Vegetable Vegetables, leguminous dried, shelled India Cosh Africa Fruit Bananas, Including plantains, fresh or dried South Africa Tanzania Cash crop Tea South Africa Tanzania Cash crop Tea South Africa Tanzania Vegetable Vegetables nes, fresh or chilled Singapore Nigeria Vegetable Vegetables nes, fresh or chilled Ghena Nigeri Cash crop Cocca beans, whole or broken, rew or roasted Barbados Costa Rica Cash crop Cocca beans, whole or broken, rew or roasted Barbados Costa Rica Cash crop Cocca beans, whole or broken, rew or roasted Barbados Costa Rica Cash crop Cocca beans, whole or broken, rew or roasted Barbados Costa Rica Cash crop Cocca beans, whole or broken, rew or roasted Barbados Costa Rica Cash crop Cocca beans, whole or broken, rew or roasted Barbados Costa Rica Cash crop Cocca beans, whole or broken, rew or roasted Barbados Costa Rica Cash crop Cocca beans, whole or broken, rew or roasted Barbados Costa Rica Cash crop Cocca beans, whole or broken, rew or roasted Barbados Costa Rica Cash crop Cocca beans, whole or broken, rew or roasted Germany Vegetable Vegetable France Rice Mali India Coclombia Cash crop Cocca beans, whole or		'			United States
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Uzbekistan Cereal Wheat and meslim Azerbaijan  Uganda Cash crop Tea Pakistan  Kazakhstan Vegetable Vegetables, leguminous dried, shelled Turkey  Vietnam Cereal Rice France  China Vegetable Vegetables neg fresh or chilled Japan  Thailand Cash crop Coroa beans, whole or broken, raw or roasted Germany  India Cash crop Tea Russian Federation  Spain Vegetable Tomatoes, fresh or chilled 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 chilled Singapore  Nigeri Cash crop Tea  Nigeri Cash crop Tea  Nigeri Cash crop Cocoa beans, whole or broken, raw or roasted Barbados  Costa Rica Cash crop Cocoa beans, whole or broken, raw or roasted Burkina Faso  Nigeri Cash crop Cocoa beans, whole or broken, raw or roasted Sarbados  Costa Rica 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 Ghana  Costa Rica Cash crop Coffee, coffee husks and skins and coffee substitutes United States  Germany Vegetable Tomatoes, fresh or chilled Germany  India Cash crop Coffee, coffee husks and skins and coffee substitutes United States  Germany Vegetable Tomatoes, fresh or chilled Germany  Vietnam Fruit Bananas, including plantains, firesh or dried Japan  Cermany Cereal Wheat and meslin Germany  Hungary Cereal Wheat and meslin Germany  Hungary Cereal Wheat and meslin Spain Germany  Mali Cereal Malayeia Vegetable Maize (corn) Romania  Kenya Cash crop Coffee, coffee husks and skins and coffee substitutes  Spain Agrae Germany  Kenya Cash crop Coffee, coffee husks and skins and coffee substitutes  Spain Agrae Germany  Mali Cereal Malayeia Vegetable Malayeia	F	rance	Fruit	Apples, pears and quinces, fresh	Germany
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 busks 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           Indonesia         Vegetable         Vegetables, etc., fresh or chilled         Singapore           Nigeria         Vegetable         Vegetables, etc., fresh or chilled         Singapore	S	Syrian Arab Republic	Vegetable	Tomatoes, fresh or chilled	Syrian Arab Republic
Kazakhstan         Vegetable         Vegetables, leguminous dried, shelled         Turkey           Vietnam         Cereal         Rice         France           China         Vegetable         Vegetables nes, fresh or chilled         Japan           Thailand         Cash crop         Cocoa beans, whole or broken, raw or roasted         Germany           India         Cash crop         Tocoa beans, whole or broken, raw or roasted         Germany           India         Cash crop         Tea         Russian Federation           Spain         Vegetable         Tomatoes, fresh or chilled         United States           Spain         Vegetable         Tomatoes, fresh or chilled         United States           Senegal         Fruit         Dates, figs, pineapple, avocado, guava, fresh or dried         Burkina Faso           China         Vegetable         Vegetable, geguminous dried, shelled         India           South Africa         Fruit         Bananas, including plantains, fresh or dried         South Africa           Tarazania         Cash crop         Tea         South Africa           Indonesia         Vegetable         Vegetable plantains, fresh or chilled         Singapore           Niger         Cash crop         Cocoa beans, whole or broken, raw or roasted         Barbados	L	Jzbekistan	Cereal	Wheat and meslin	Azerbaijan
Vietnam         Cereal         Rice         France           China         Vegetable         Vegetables nes, fresh or chilled         Japan           Thailand         Cash crop         Coffee, offee 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         United States           United States         Vegetable         Tomatoes, fresh or chilled         United States           Senegal         Frut         Dates, fies, pineapple, avocado, guava, fresh or dried         Burkina Faso           China         Vegetable         Vegetables, leguminous dried, shelled         India           South Africa         Frut         Bananas, including plantains, fresh or dried         South Africa           Indonesia         Vegetable         Vegetables, feesh or chilled         Singapore           Nigeria         Vegetable         Vegetable, spess, feesh or chilled         Singapore           Nigeria         Vegetable         Onions, shallots, garlic, leeks, etc., fresh or chilled         Ghana           Nigeria         Vegetable         Tomatoes, fresh or chil	L	Jganda	Cash crop	Tea	Pakistan
China Vegetable Vegetables nes, fresh or chilled Japan Thailand Cash crop Coffee, coffee husks and skins and coffee substitutes Japan Côte d'Noire Cash crop Tea India Cash crop Tea Spain Vegetable Tomatoes, fresh or chilled France United States Vegetable Tomatoes, fresh or chilled United States Senegal Fruit Dates, fise, pineapple, avocado, guava, fresh or dried Burkina Faso China Vegetable Vegetable Leguminous dried, shelled India South Africa Fruit Bananas, including plantains, fresh or chilled Singapore Nigeria Vegetable Vegetables nes, fresh or chilled Singapore Nigeria 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 Coffee, coffee husks and skins and coffee substitutes United States Germany Pruit Bananas, including plantains, fresh or dried Germany Vietnam Fruit Bananas, including plantains, fresh or dried Japan Germany Cereal Wheat and mestin Germany Wheat and mestin Germany Wheat and mestin Germany Mali Cereal Wheat and mestin Germany Mali Cereal Wheat and mestin Egypt, Arab Rep. Legynt, Arab Rep. Cash crop Locust beans, seaweed, sugar beet, cane, for food Germany Mali Cereal Malez (corn) Romania Romania Cereal Malez (corn) Romania Romania Cereal Malez (corn) Romania Renya Cash crop Coffee, coffee husks and skins and coffee substitutes Search Germany Colombia Cash crop Coffee, coffee husks and skins and coffee substitutes Comania Cereal Rice Malic (corn) Romania Romania Cereal Rice Malic (corn) Romania Romania Cereal Rice Malic (corn) Egypt, Arab Rep. Renya Cash crop Coffee, coffee husks and skins and coffee substitutes Search Coffee, coffee husks and skins and coffee substitutes Search Coffee, coffee husks and skins and coffee substitutes Search Coffee, coffee husks and skins and coffee substitut	K	Kazakhstan	Vegetable	Vegetables, leguminous dried, shelled	Turkey
Thailand Cash crop Coffee, coffee husks and skins and coffee substitutes Germany India 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 Indonesia Vegetable Vegetables, leguminous dried, shelled India Indonesia Vegetable Vegetables, leguminous dried, shelled South Africa Indonesia Vegetable Vegetables, leguminous dried, shelled South Africa Indonesia Vegetable Vegetables, leguminous dried, shelled Singapore Nigeria Vegetable Vegetables, for chilled Singapore Nigeria Vegetable Vegetables, for chilled Singapore Nigeria Vegetable Vegetable Vegetables, for chilled Ghana Costa Rica 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 mestin Germany Vietnam Fruit Bananas, including plantains, fresh or dried Japan Germany Cereal Wheat and mestin Germany Hungary Cereal Wheat and mestin Germany Renya Cash crop Locust beans, seaweed, sugar beet, cane, for food Germany Mali Cereal Rice Malie (corr) Romania Malaysia Vegetable Manioc, arrowroot, salep etc, fresh, dried, sago pith China Fruit Fruit, dried, nes, dried fruit and nut mixtures Russian Federation Fruit Fruit, dried, nes, dried fruit and nut mixtures Russian Federation Fruit Fruit, dried, nes, dried fruit and nut mixtures Romania Cereal Maize (corr) Romania Cereal Maize (corr) Eggpt, Arab Rep. China Cereal Rice Philippi	V	/ietnam	Cereal	Rice	France
Côte d'Ivoire 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 Indonesia Vegetable Vegetables, leguminous dried, shelled Singapore Indonesia Vegetable Vegetables, leguminous dried, shelled Singapore Nigeria Vegetable Vegetables, fresh or chilled Singapore Nigeria Vegetable Vegetables, 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 busks and skins and coffee substitutes United States Germany Vegetable Tomatoes, fresh or chilled Germany India Cash crop Offee, coffee husks and skins and coffee substitutes United States Germany Vegetable Tomatoes, fresh or chilled Germany Vietnam Fruit Bananas, including plantains, fresh or dried Japan Germany Cereal Wheat and meslin Germany Hungary Cereal Wheat and meslin Germany Hungary Cereal Wheat and meslin Spain China Cash crop Tea Seypt, Arab Rep. Cash crop Locust beans, seaweed, sugar beet, cane, for food Germany Mali Cereal Rice Mali Romania Cereal Maire (corn) Romania Malaysia Vegetable Manico, arroworot, salep etc, fresh, dried, sago pith China Fruit Fruit, Gried, nes, dried fruit and nut mixtures Russian Federation Iraq Fruit Nuts except coconut, brazil and cashew nuts, fresh or dried India Kenya Cash crop Coffee, coffee husks and skins and coffee substitutes Switzerland Poland Cereal Maire (corn) Egypt, Arab Rep. Egypt, Arab Rep. Cash crop Coffee, offee husks and skins and coffee substitutes Switzerland Poland Cereal Maire (corn) Egypt, Arab Rep. Philippines Zimbabwe Cereal Maire (corn) Zimbabwe	C	China	Vegetable	Vegetables nes, fresh or chilled	Japan
India Cash crop Tea Russian Federation Spain Vegetable Tomatoes, fresh or chilled 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 Indonesia Vegetable Vegetables hes, fresh or chilled South Africa Indonesia Vegetable Vegetables nes, fresh or chilled Singapore Nigeria Vegetable Vegetable Noinos, 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 Coffee, coffee husks and skins and coffee substitutes United States Germany Vegetable Tomatoes, fresh or chilled Germany India Cash crop Coffee, coffee husks and skins and coffee substitutes Germany Veitenam 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 Locust beans, seaweed, sugar beet, cane, for food Germany Mali Cereal Mhaize (corn) Mali Cereal Rice Mali Cereal Maize (corn) Egypt, Arab Rep. Kenya Fruit Nuts except coconut, brazil and cashew, fresh or dried India Renya Cash crop Soya beans China Cereal Maize (corn) Egypt, Arab Rep. Egypt, Arab Rep. Cereal Maize (corn) Egypt, Arab Rep. Egypt, Arab Rep. Cereal Maize (corn) Egypt, Arab Rep. Egypt, Arab Rep. Cereal Maize (corn) Egypt, Arab Rep. Egypt, Arab Rep. Cereal Maize (corn) Egypt, Arab Rep. Egypt, Arab Rep. Cereal Maize (corn) Egypt, Arab Rep. Egypt, Arab Rep. Cereal Maize (corn) Egypt, Arab Rep. Egypt, Arab Rep. Cereal Maize (corn) Egypt, Arab Rep. Egypt, Arab Rep. Cereal Maize (corn) Egypt,	Т	hailand	Cash crop	Coffee, coffee husks and skins and coffee substitutes	Japan
Spain Vegetable Tomatoes, fresh or chilled United States  Senegal Fruit Dates, fisesh or chilled United States  Senegal Fruit Dates, fisesh or chilled United States  Senegal Fruit Dates, fisesh or chilled United States  China Vegetable Vegetable, leguminous dried, shelled India  South Africa Fruit Bananas, including plantains, fresh or dried South Africa  Indonesia Cash crop Tea  Indonesia Vegetable Vegetables nes, fresh or chilled Singapore  Nigeria Vegetable Onions, shallots, garil; (eekes, 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 Coffee, coffee husks and skins and coffee substitutes United States  Golombia Cash crop Coffee, coffee husks and skins and coffee substitutes Germany  India Cash crop Coffee, coffee husks and skins and coffee substitutes Germany  India 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 Germany  Uganda Cash crop Tea Kenya  Egypt, Arab Rep. Cash crop Loust beans, seaweed, sugar beet, cane, for food Germany  Mali Cereal Rice Mali  Romania Cereal Miaze (corn) Romania  Malaysia Vegetable Manioc, arrowroot, salep etc, fresh, dried, sago pith China  Crina Fruit Fruit, dried, nes, dried fruit and nut mixtures Russian Federation  Iraq 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.	C	Côte d'Ivoire	Cash crop	Cocoa beans, whole or broken, raw or roasted	Germany
United States  Vegetable 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 Frazania Cash crop Tea South Africa Indonesia Vegetable Vegetables neguminous dried, shelled Singapore Nigeria Vegetable Vegetables nes, fresh or chilled Singapore Nigeria Vegetable Onions, shallots, gartic, 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 Germany Vegetable Tomatoes, fresh or chilled Germany India Cash crop Offee, coffee husks and skins and coffee substitutes Germany Vietnam Fruit Bananas, including plantains, fresh or dried Japan Germany Cereal Wheat and meslin Germany Cereal Wheat and meslin Germany Cereal Wheat and meslin Cereal Wheat and meslin Egypt, Arab Rep. Uganda Cash crop Tea Egypt, Arab Rep. Cash crop Locust beans, seaweed, sugar beet, cane, for food Germany Mali Cereal Maie Cereal Maie Coreal Maie China Fruit Nuts except coconut, brazil and cashew, fresh or dried India China Cereal Malaysia Vegetable Manioc, arrowroot, salep etc, fresh, dried, sago pith China Fruit Nuts except coconut, brazil and cashew, fresh or dried Renya Cereal Maize (corn) Egypt, Arab Rep. Cash crop Coffee, coffee husks and skins and coffee substitutes Switzerland Poland Cereal Maize (corn) Egypt, Arab Rep. Cash crop Coffee, coffee husks and skins and coffee substitutes Switzerland Poland Cereal Maize (corn) Egypt, Arab Rep. Cereal Philippines Zimbabwe Cereal Maize (corn) Egypt, Arab Rep.	- II	ndia	Cash crop	Tea	Russian Federation
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 Cocca 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 Nutreg, 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 Germany Hungary Cereal Wheat and meslin Egypt, Arab Rep. China Cereal Wheat and meslin Egypt, Arab Rep. Egypt, Arab Rep. Cash crop Locust beans, seawed, sugar beet, cane, for food Germany Mali Cereal Rice Maize (corn) Romania Cereal Maize (corn) Romania Cereal Maize (corn) Romania Cereal Manco, arrowroot, salep etc, fresh, dried, sago pith China China Fruit Fruit, dried, nes, dried fruit and nut mixtures Russian Federation Fruit Fruit, dried, nes, dried fruit and nut mixtures Sussian Federation Fruit Fruit, dried, nes, dried fruit and cashew, fresh or dried India Kenya Cash crop Coffee, coffee husks and skins and coffee substitutes Switzerland Poland Cereal Maize (corn) Egypt, Arab Rep. China Cereal Maize (corn) Egypt, Arab Rep.	S	Spain	Vegetable	<u> </u>	France
China Vegetable Vegetables, leguminous dried, shelled India South Africa Fruit Bananas, including plantains, fresh or dried South Africa Indonesia Cash crop Tea 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 Germany Hungary Cereal Wheat and meslin Spain China Cereal Wheat and meslin Egypt, Arab Rep. Uganda Cash crop Locust beans, seaweed, sugar beet, cane, for food Germany Mali Cereal Rice Mali Romania Cereal 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 Cash crop Coffee, coffee husks and skins and coffee substitutes United States United	L	Jnited States	Vegetable	Tomatoes, fresh or chilled	
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 busks 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         Nutmeg, mace and cardamons         India           Germany         Fruit         Bananas, including plantains, fresh or dried         Japan           Germany         Fruit         Bananas, including plantains, fresh or dried         Japan           Germany         Cereal         Wheat and meslin         Germany           Hungary         Cereal         Wheat and meslin         Spain           China         Cesh crop         Tea         Kenya           Egy					
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 Locust beans, seaweed, sugar beet, cane, for food Germany Mali Cereal Rice Maize (corn) Romania Romania Cereal 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 Germany Kenya Cash crop Coffee, coffee husks and skins and coffee substitutes Switzerland Poland Cereal Maize (corn) Egypt, Arab Rep.					
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     Germany       Hungary     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     Cereal     Rice     Mali       Romania     Cereal     Maize (corn)     Romania       Malaysia     Vegetable     Manico, arrowroot, salep etc, fresh, dried, sago pith     China       China     Fruit	S	South Africa	Fruit	Bananas, including plantains, fresh or dried	South Africa
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 Cereal Rice Maize (corn) Romania Romania Cereal 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 nuts, fresh or dried India Kenya Cash crop Coffee, coffee husks and skins and coffee substitutes Switzerland Poland Cereal Maize (corn) Egypt, Arab Rep. Cash crop Soya beans China Fruit Coconuts, Brazil nuts and cashew nuts, fresh or dried India Kenya Cash crop Soya beans China Cereal Maize (corn) Egypt, Arab Rep. Brazil Cash crop Soya beans China Philippines Zimbabwe Cereal Maize (corn)	Т	anzania	Cash crop		South Africa
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 Egypt, Arab Rep. Cash crop Locust beans, seaweed, sugar beet, cane, for food Germany Mati Cereal Maize (corn) Romania Romania Cereal 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 India Kenya Cash crop Coffee, coffee husks and skins and coffee substitutes Switzerland Poland Cereal Maize (corn) Egypt, Arab Rep. Germany Kenya Gash crop Coffee, coffee husks and skins and coffee substitutes Switzerland Poland Cereal Maize (corn) Egypt, Arab Rep. Polina Cereal Maize (corn) Egypt, Arab Rep.	- II	ndonesia	Vegetable	<u> </u>	Singapore
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 Egypt, Arab Rep. Cash crop Locust beans, seaweed, sugar beet, cane, for food Germany Mali Cereal Rice Mali Romania Cereal 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 Cash crop Coffee, coffee husks and skins and coffee substitutes Switzerland Poland Cereal Maize (corn) Egypt, Arab Rep. Brazil Cash crop Soya beans China Cereal Maize (corn) Egypt, Arab Rep.	N	Vigeria			
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 Cereal Rice Mali Romania Cereal Maize (corn) Romania Malaysia Vegetable Manico, 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 India Kenya Cash crop Coffee, coffee husks and skins and coffee substitutes Switzerland Poland Cereal Maize (corn) Egypt, Arab Rep. China Cereal Maize (corn) Egypt, Arab Rep. Coffee, Coffee husks and skins and coffee substitutes Switzerland Poland Cereal Maize (corn) Egypt, Arab Rep. China Cereal Maize (corn) Egypt, Arab Rep. China Cereal Maize (corn) Egypt, Arab Rep. China Cereal Rice Philippines Zimbabwe Cereal Maize (corn) Zimbabwe			Cash crop	Cocoa beans, whole or broken, raw or roasted	Barbados
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 Cereal Rice Mali Romania Cereal 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 Cash crop Coffee, coffee husks and skins and coffee substitutes Switzerland Poland Cereal Maize (corn) Egypt, Arab Rep. Egypt, Arab Rep. Cash crop Soya beans China China Cereal Rice Philippines Zimbabwe Cereal Mize (corn)	C	Costa Rica	· · · · · · · · · · · · · · · · · · ·	Coffee, coffee husks and skins and coffee substitutes	United States
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					* * *
South Africa Cash crop Tea South Africa					
	S	South Africa	Cash crop	Tea	South Africa



9.3

3.5

5.0

0.0

2.0

N/A

N/A

5.0

N/A

N/A

22.5

175

5.0

1

ARMFNIA

# 178

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)

E-money index (0-4)

Movable Collateral

#### DTF score Rank Seed 62.19 **Fertilizer** 28.57 **Machinery 53.66 Finance** 35.86 **Markets 64.87 Transport** 18.43 Water **ICT 55.56** SEED<sup>a</sup> | DTF Score 62.19 ♦ Rank 28 MARKETS | DTF Score 64.87 ♦ Rank 23 Plant breeding index (0-10) 8.0 Producer organizations index (0-13) Variety registration index (0-8) Plant protection index (0-8) 6.5 Time to register new variety (days) Agricultural trade index (0-9) 587 Cost to register new variety (% income per capita) 18.5 Documents to export agricultural goods (number) Seed quality control index (0-12) 2.0 Time to export agricultural goods (days) Cost to export agricultural goods (% income per capita) FERTILIZER | DTF Score 28.57 ♦ Rank 53 Fertilizer registration index (0-7) TRANSPORT | DTF Score 18.43 ♦ Rank 56 0.0 Time to register a new fertilizer product (days) Trucking licenses and operations index (0-11) N/A Cost to register a new fertilizer product (% income per capita) N/A Time to obtain trucking licenses (days) Quality control of fertilizer index (0-7) Cost to obtain trucking licenses (% income per capita) 2.0 Cross-border transportation index (0-9) Importing & distributing fertilizer index (0-7) 6.0 Time to obtain cross-border license (days) MACHINERY | DTF Score 53.66 ♦ Rank 30 Cost to obtain cross-border license (% income per capita) Tractor operation index (0-5) 0.5 WATER | DTF Score 82.54 ♦ Rank 5 Time to register a tractor (days) 3 Cost to register a tractor (% income per capita) 0.3 Integrated water resource management index (0-29) Individual water use for irrigation index (0-20) Tractor testing and standards index (0-8) 5.0 Time to obtain type approval (days) No practice ICT | DTF Score 55.56 ♦ Rank 31 Cost to obtain type approval (% income per capita) No practice ICT index (0-9) Tractor import index (0-5) 5.0 FINANCE | DTF Score 35.86 ♦ Rank 52 **Branchless Banking**

0.0

3.8

0.0

4.0

0.0

# SOUTH ASIA LOWER MIDDLE INCOME

# **BANGLADESH**

Agent banking index (0-5)

Warehouse receipts index (0-5)

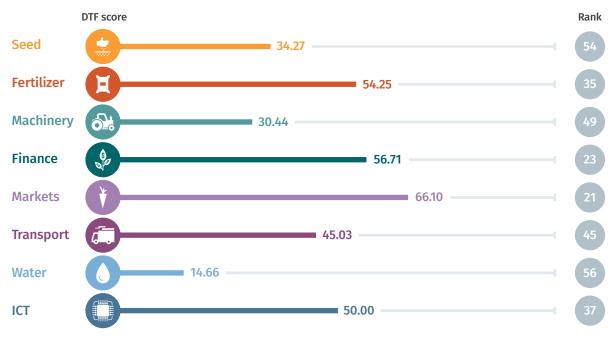
**Non-bank Lending Institutions**Microfinance institutions index (0-7)

Financial cooperatives index (0-7)

Doing Business - getting credit index (0-8)

E-money index (0-4)

**Movable Collateral** 



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		
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 pe	er 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	49	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 ♦ 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 $\diamondsuit$ Rank 37	
Tractor import index (0-5)	1.5	ICT index (0-9)	4.5
FINANCE   DTF Score 56.71 $\diamondsuit$ Rank 23			
Branchless Banking			

4.7

1.0

3.5

3.0

4.0





7.5

3.0

4.5

1

2

1.0

5.0

40

5.0

4.5

5.0

180

Financial cooperatives index (0-7)

#### DTF score Rank Seed **32.81 Fertilizer** 14.58 **Machinery** 25.83 **Finance** 43.35 **Markets 56.14 Transport** 36.32 Water **43.15 ICT 55.56** MARKETS | DTF Score 56.14 $\diamondsuit$ Rank 34 SEED<sup>a</sup> | DTF Score 32.81 ♦ Rank 55 Plant breeding index (0-10) 5.0 Producer organizations index (0-13) Variety registration index (0-8) Plant protection index (0-8) 4.5 Time to register new variety (days) Agricultural trade index (0-9) No practice Cost to register new variety (% income per capita) No practice Documents to export agricultural goods (number) Seed quality control index (0-12) 3.0 Time to export agricultural goods (days) Cost to export agricultural goods (% income per capita) FERTILIZER | DTF Score 14.58 ♦ Rank 61 Fertilizer registration index (0-7) TRANSPORT | DTF Score 36.32 ♦ Rank 50 0.0 Time to register a new fertilizer product (days) Trucking licenses and operations index (0-11) N/A Cost to register a new fertilizer product (% income per capita) N/A Time to obtain trucking licenses (days) Quality control of fertilizer index (0-7) Cost to obtain trucking licenses (% income per capita) 0.0 19.7 Cross-border transportation index (0-9) Importing & distributing fertilizer index (0-7) 3.5 Time to obtain cross-border license (days) No practice MACHINERY | DTF Score 25.83 ♦ Rank 53 Cost to obtain cross-border license (% income per capita) No practice Tractor operation index (0-5) 0.0 WATER | DTF Score 43.15 ♦ Rank 38 Time to register a tractor (days) N/A Cost to register a tractor (% income per capita) N/A Integrated water resource management index (0-29) 18.5 Individual water use for irrigation index (0-20) Tractor testing and standards index (0-8) 2.3 Time to obtain type approval (days) N/A ICT | DTF Score 55.56 ♦ Rank 31 Cost to obtain type approval (% income per capita) N/A ICT index (0-9) Tractor import index (0-5) 5.0 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 Doing Business - getting credit index (0-8) 4.0 **Non-bank Lending Institutions** Microfinance institutions index (0-7)

4.0

#### **LATIN AMERICA & CARIBBEAN LOWER MIDDLE INCOME**

SEED <sup>a</sup>   DTF Score 64.41 ♦ Rank 25		MARKETS   DTF Score 65.51 ♦ Rank 22
Plant breeding index (0-10)	7.0	Producer organizations index (0-13)
Variety registration index (0-8)	5.0	Plant protection index (0-8)
Time to register new variety (days)	517	Agricultural trade index (0-9)
Cost to register new variety (% income per capita)	24.5	Documents to export agricultural goods (number)
Seed quality control index (0-12)	7.0	Time to export agricultural goods (days)
		Cost to export agricultural goods (% income per capita)
FERTILIZER   DTF Score 39.29 ♦ Rank 45		
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)
Cost to register a new fertilizer product (% income per c	apita) N/A	Time to obtain trucking licenses (days)
Quality control of fertilizer index (0-7)	7.0	Cost to obtain trucking licenses (% income per capita)
Importing & distributing fertilizer index (0-7)	3.0	Cross-border transportation index (0-9)
		Time to obtain cross-border license (days)
MACHINERY   DTF Score 25.83 ♦ Rank 52	2	Cost to obtain cross-border license (% income per capita)
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)
Tractor testing and standards index (0-8)	2.3	Individual water use for irrigation index (0-20)
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)

7.0

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

Branchiess 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





181

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

10.8 4.0 5.0

1

2

1.9

4.5 5

0.2

5.0

10 6.2

9.0

8.0

### 182

### DTF score Rank Seed **32.08 Fertilizer** 96.16 Machinery **51.41 Finance** 23.33 **Markets** 74.89 **Transport 57.44** Water 81.47 **ICT 55.56** SEED<sup>a</sup> | DTF Score 32.08 ♦ Rank 56 MARKETS | DTF Score 74.89 ♦ Rank 11

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	34	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

## Branchless Banking

FINANCE | DTF Score 23.33 ♦ Rank 60

**BOSNIA AND HERZEGOVINA** 

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

# **BURKINA FASO**

# SUB-SAHARAN AFRICA LOW INCOME

SEED <sup>a</sup>   DTF Score 28.96 ♦ Rank 57		MARKETS   DTF Score 54.63 ♦ Rank 37	
Plant breeding index (0-10)	2.0	Producer organizations index (0-13)	9.8
Variety registration index (0-8)	4.0	Plant protection index (0-8)	2.0
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)	2
Seed quality control index (0-12)	5.5	Time to export agricultural goods (days)	2
		Cost to export agricultural goods (% income per capita)	2.2
FERTILIZER  │ DTF Score 23.21  ♦ Rank 56			
Fertilizer registration index (0-7)	0.0	TRANSPORT   DTF Score 72.23 ♦ Rank 12	
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 per co	apita) N/A	Time to obtain trucking licenses (days)	1
Quality control of fertilizer index (0-7)	3.5	Cost to obtain trucking licenses (% income per capita)	3.0
Importing & distributing fertilizer index (0-7)	3.0	Cross-border transportation index (0-9)	5.0
		Time to obtain cross-border license (days)	1
MACHINERY   DTF Score 52.63 ♦ Rank 32	2	Cost to obtain cross-border license (% income per capita)	3.3
Tractor operation index (0-5)	2.5		
Time to register a tractor (days)	30	WATER   DTF Score 31.16 $\diamondsuit$ Rank 47	
Cost to register a tractor (% income per capita)	5.6	Integrated water resource management index (0-29)	13.0
Tractor testing and standards index (0-8)	3.3	Individual water use for irrigation index (0-20)	3.5
Time to obtain type approval (days)	4		
Cost to obtain type approval (% income per capita)	11.1	ICT   DTF Score 27.78 $\diamondsuit$ Rank 59	
Tractor import index (0-5)	1.5	ICT index (0-9)	2.5



Branch	less	Ban	king

•	
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	

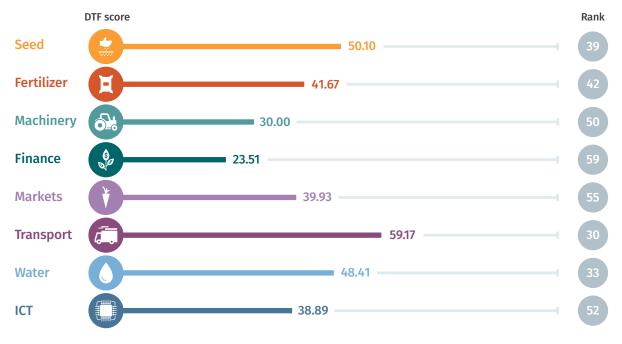
Microfinance institutions index (0-7) 4.0 Financial cooperatives index (0-7) 4.0







# BURUNDI



0.0

N/A

N/A

5.0

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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 4	2
Fertilizer registration index (0-7)	3.0
Time to register a new fertilizer product (days)	No practice
Cost to register a new fertilizer product (% income per capit	ta) No practice
Quality control of fertilizer index (0-7)	4.0
Importing & distributing fertilizer index (0-7)	4.0
MACHINERY   DTF Score 30.00 ♦ Rank	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

SEED<sup>a</sup> | DTF Score 50.10 ♦ Rank 39

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 38.89 ♦ Rank 52	
ICT index (0-9)	3.5

MARKETS | DTF Score 39.93 ♦ Rank 55

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

Cost to obtain type approval (% income per capita)

Tractor testing and standards index (0-8)

Time to obtain type approval (days)

Tractor import index (0-5)

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
Financial cooperatives index (0-7)	4.0

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

### **CAMBODIA**

Movable Collateral

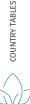
Warehouse receipts index (0-5)

**Non-bank Lending Institutions** 

Doing Business - getting credit index (0-8)

#### **EAST ASIA & PACIFIC** LOWER MIDDLE INCOME







<sup>185</sup> 

0.0

Microfinance institutions index (0-7) 6.0 Financial cooperatives index (0-7) 0.0 a. The indicators apply to the formal seed system only.

### 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**

3.0

3.5

5.0

5.0

variety registration mack (0 0)	5.5
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 4	8
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 pe	er capita) N/A
Quality control of fertilizer index (0-7)	3.5
Importing & distributing fertilizer index (0-7)	6.0
	0.0
MACHINERY   DTF Score 46.30 ♦ Rank	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
nactor import mack to 3/	2.0

SEED<sup>a</sup> | DTF Score 24.69 ♦ Rank 58

Plant breeding index (0-10)

Variety registration index (0-8)

#### MARKETS | DTF Score 53.05 ♦ Rank 41 Producer organizations index (0-13) 10.0 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 ♦ Rank 44 Integrated water resource management index (0-29) 4.5 Individual water use for irrigation index (0-20) 11.0 ICT | DTF Score 38.89 ♦ Rank 52 ICT index (0-9) 3.5

0.0
1.0
0.0
4.0

FINANCE | DTF Score 36.31 ♦ Rank 51

Microfinance institutions index (0-7)

Financial cooperatives index (0-7)

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

# **CHILE**

# OECD HIGH INCOME HIGH INCOME

	DTF score				Ranl
Seed			61.7	7	29
Fertilizer	E .	26.79			54
Machinery	<b>6</b>		54.70		28
Finance			42.62		46
Markets	Ť			76.41	9
Transport			44.44		46
Water	0		55.17		28
ICT				72.22	15
SEED <sup>a</sup>   DT Plant breeding	F Score 61.77   Rank 29	9.0	MARKETS   DTF S	Score 76.41 $\diamondsuit$ Rank 9 s index (0-13)	6.0

SEED   DIT SCOTE OILT   RUTHER 27		MARKETS   DIT SCOTE 70.41 \$ Kalik >	
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



Branchless B	Banking
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Financial cooperatives index (0-7)

Didiicitess baliking	
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.





**COLOMBIA** 

#### 188

Financial cooperatives index (0-7)

#### DTF score Rank Seed **63.19 Fertilizer 81.58 Machinery** 38.16 **Finance** 92.10 **Markets 70.08 Transport 73.92** Water 85.52 **■** 88.89 **■ ICT** 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) Plant protection index (0-8) 4.0 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) TRANSPORT | DTF Score 73.92 ♦ Rank 10 6.0 Time to register a new fertilizer product (days) Trucking licenses and operations index (0-11) 8.0 45 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) Cost to obtain trucking licenses (% income per capita) 6.0 3.2 Cross-border transportation index (0-9) Importing & distributing fertilizer index (0-7) 4.0 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) 8.0 Tractor operation index (0-5) 1.5 Time to register a tractor (days) 2 Cost to register a tractor (% income per capita) 1.1 Integrated water resource management index (0-29) 23.5 Individual water use for irrigation index (0-20) Tractor testing and standards index (0-8) 0.3 18.0 Time to obtain type approval (days) N/A ICT | DTF Score 88.89 ♦ Rank 9 Cost to obtain type approval (% income per capita) N/A ICT index (0-9) Tractor import index (0-5) 3.0 8.0 FINANCE | DTF Score 92.10 $\diamondsuit$ Rank 1 **Branchless Banking** 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 **Non-bank Lending Institutions** Microfinance institutions index (0-7) 5.0

# **CÔTE D'IVOIRE**

FINANCE | DTF Score 60.37 ♦ Rank 18

**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)

#### SUB-SAHARAN AFRICA LOWER MIDDLE INCOME

	DTF score			Rank
Seed			60.20	30
Fertilizer	H	39.29		45
Machinery	<u>o</u>	47.44		35
Finance			60.37	18
Markets	Ď	31.67		60
Transport			68.00	19
Water		25.60		49
ICT			61.11	22

SEED <sup>a</sup>   DTF Score 60.20 ♦ Rank 30		MARKETS   DTF Score 31.67 ♦ Rank 60	
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)	11
		Cost to export agricultural goods (% income per capita)	3.1
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

4.0

4.0







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

**Branchless Banking** 

### DTF score Rank Seed **85.32 Fertilizer** 92.23 **Machinery 81.82 Finance** 45.83 **Markets** 78.82 **Transport ■** 88.89 **■** Water **60.91 ICT**

SEED <sup>a</sup>   DTF Score 85.32 ♦ Rai	nk 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	r 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 capita) 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 co	pita) 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 p	er capita) No data	ICT   DTF Score 94.44 ♦ Rank 6
Tractor import index (0-5)	5.0	ICT index (0-9)
FINANCE   DTF Score 45.83 ♦	Rank 37	

Producer organizations index (0-13)	6.5
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
manual water ase for irrigation mack (8 28)	0.5
ICT   DTF Score 94.44 ♦ Rank 6	
ICT index (0-9)	8.5



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

# EGYPT, ARAB REP.

# MIDDLE EAST & NORTH AFRICA LOWER MIDDLE INCOME

SEED <sup>a</sup>   DTF Score 52.57 ♦ Rank 37		MARKETS   DTF Score 47.34 $\diamondsuit$ Rank 49	
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







FINANCE | DTF Score 29.64 ♦ Rank 56

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)

Financial cooperatives index (0-7)

3.0

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

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## ×

**Non-bank Lending Institutions** 

Microfinance institutions index (0-7)

Financial cooperatives index (0-7)

#### DTF score Rank Seed **Fertilizer** 19.64 **Machinery** 55.95 **Finance** 52.96 **Markets** 45.69 **Transport** Water 46.94 **ICT** 11.11 SEED<sup>a</sup> | DTF Score 46.49 ♦ Rank 47 MARKETS | DTF Score 45.69 ♦ Rank 51 Plant breeding index (0-10) 5.0 Producer organizations index (0-13) 10.6 Variety registration index (0-8) Plant protection index (0-8) 4.5 1.0 Time to register new variety (days) 620 Agricultural trade index (0-9) 3.5 Cost to register new variety (% income per capita) 77.8 Documents to export agricultural goods (number) 3 Seed quality control index (0-12) 3.0 Time to export agricultural goods (days) 3 Cost to export agricultural goods (% income per capita) 2.5 FERTILIZER | DTF Score 19.64 ♦ Rank 59 Fertilizer registration index (0-7) TRANSPORT | DTF Score 66.89 ♦ Rank 21 1.0 Time to register a new fertilizer product (days) Trucking licenses and operations index (0-11) N/A 4.0 Cost to register a new fertilizer product (% income per capita) N/A Time to obtain trucking licenses (days) Cost to obtain trucking licenses (% income per capita) Quality control of fertilizer index (0-7) 4.5 5.5 Importing & distributing fertilizer index (0-7) Cross-border transportation index (0-9) 0.0 4.0 Time to obtain cross-border license (days) 1 MACHINERY | DTF Score 55.95 ♦ Rank 25 Cost to obtain cross-border license (% income per capita) 5.5 Tractor operation index (0-5) 3.5 WATER | DTF Score 46.94 ♦ Rank 34 Time to register a tractor (days) 2 Cost to register a tractor (% income per capita) 1.9 Integrated water resource management index (0-29) 12.0 Tractor testing and standards index (0-8) 4.3 Individual water use for irrigation index (0-20) 10.5 Time to obtain type approval (days) No practice ICT | DTF Score 11.11 ♦ Rank 62 Cost to obtain type approval (% income per capita) No practice ICT index (0-9) Tractor import index (0-5) 1.0 3.0 FINANCE | DTF Score 52.96 ♦ Rank 27 **Branchless Banking** Agent banking index (0-5) 4.6 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

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.)

# **GEORGIA**

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

E-money index (0-4)

**Movable Collateral** 

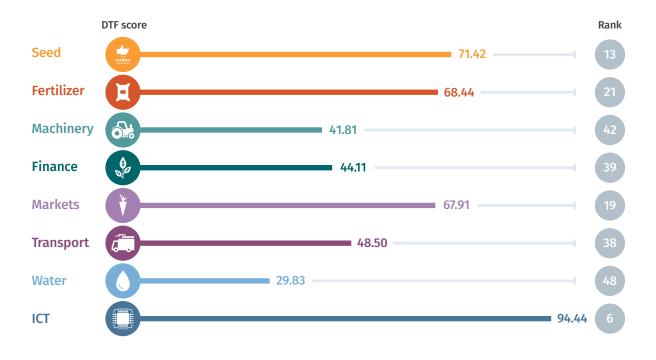
Warehouse receipts index (0-5)

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

Financial cooperatives index (0-7)

Doing Business - getting credit index (0-8)

# EUROPE & CENTRAL ASIA UPPER MIDDLE INCOME



SEED <sup>a</sup>   DTF Score 71.42 ♦ 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 ♦ Rank 6	
Tractor import index (0-5)	5.0	ICT index (0-9)	8.5
FINANCE   DTF Score 44.11 $\diamondsuit$ Rank 39			

0.0

2.0

3.5

7.0

0.0







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

SEED<sup>a</sup> | DTF Score 46.46 ♦ Rank 48

FINANCE | DTF Score 62.43 ♦ Rank 16

**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)

### DTF score Rank Seed **46.46 Fertilizer 55.44 Machinery 46.27** Finance **62.43 Markets 40.18 Transport 16.16** Water 54.53 **ICT 61.11**

SEED   DIT SCOTE 40.40 \$ Kalik 40		MARKETS   DIT SCOTE 40:10 \$ Raths 54	
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 $\diamondsuit$ 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 ca	pita) 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		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

4.2

3.5

0.0

6.0

4.0



MARKETS | DTF Score 40.18 ♦ Rank 54

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







**Branchless 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) 7.0

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

# 196

### 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)	5.0	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

4.5

1.0



FINANCE | DTF Score 55.89 ♦ Rank 24

**Branchless Banking** 

**GUATEMALA** 

Movable CollateralWarehouse receipts index (0-5)4.5Doing Business - getting credit index (0-8)7.0

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

Financial cooperatives index (0-7)

3.0



# **HAITI**

# LATIN AMERICA & CARIBBEAN LOW INCOME

SEED <sup>a</sup>   DTF Score 10.00 ♦ Rank 61		MARKETS   DTF Score 35.58 ♦ Rank 57	
Plant breeding index (0-10)	4.0	Producer organizations index (0-13)	4.5
Variety registration index (0-8)	0.0	Plant protection index (0-8)	0.0
Time to register new variety (days)	No practice	Agricultural trade index (0-9)	No data
Cost to register new variety (% income per capita)	No practice	Documents to export agricultural goods (number)	1
Seed quality control index (0-12)	0.0	Time to export agricultural goods (days)	No data
		Cost to export agricultural goods (% income per capita)	1.6
FERTILIZER   DTF Score 21.43 ♦ Rank 58			
Fertilizer registration index (0-7)	0.0	TRANSPORT   DTF Score 7.83 ♦ Rank 62	
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 o	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)	6.0	Cross-border transportation index (0-9)	2.0
		Time to obtain cross-border license (days)	N/A
MACHINERY   DTF Score 41.79 ♦ Rank 43	3	Cost to obtain cross-border license (% income per capita)	N/A
Tractor operation index (0-5)	2.5		
Time to register a tractor (days)	5	WATER │ DTF Score 12.20 ♦ Rank 57	
Cost to register a tractor (% income per capita)	40.8	Integrated water resource management index (0-29)	2.0
Tractor testing and standards index (0-8)	0.3	Individual water use for irrigation index (0-20)	3.5
Time to obtain type approval (days)	N/A		
Cost to obtain type approval (% income per capita)	N/A	ICT   DTF Score 44.44 ♦ Rank 43	
Tractor import index (0-5)	5.0	ICT index (0-9)	4.0

3.7

1.0

0.0

2.0

0.0

5.0

FINANCE | DTF Score 32.65 ♦ Rank 54

**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)



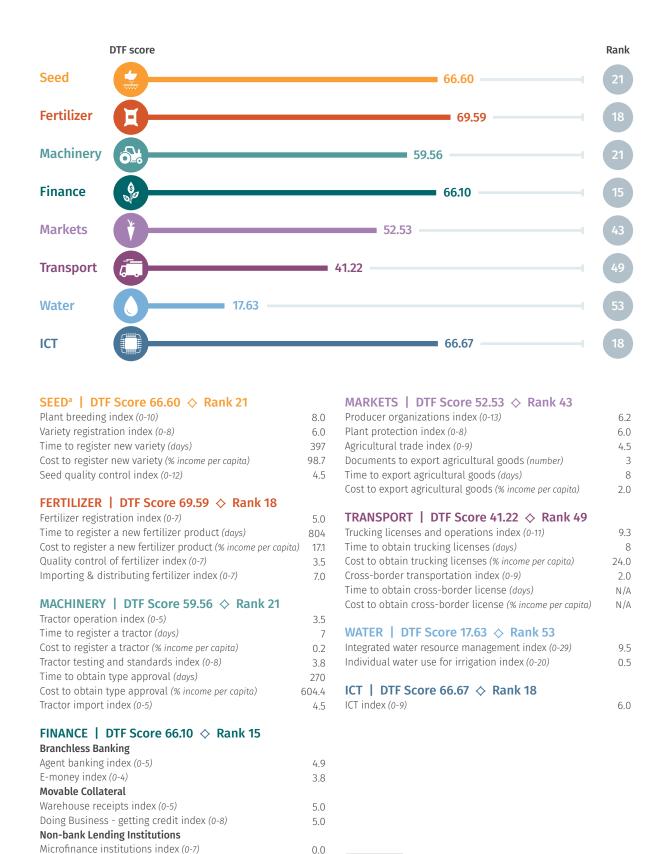


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a. The indicators apply to the formal seed system only. Recent research estimates that 94.7% of the seed used by farmers in Haiti in 2010 were sourced in the informal seed sector. (McGuire, S. and Sperling, L., 2016. Seed systems smallholder farmers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



Financial cooperatives index (0-7)



# **ITALY**

# 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 capito	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 $\diamondsuit$ 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

N/A

3.8

4.5

3.0

6.0







FINANCE | DTF Score 81.07 ♦ Rank 6

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

E-money index (0-4)

**Movable Collateral** 

Warehouse receipts index (0-5)

Financial cooperatives index (0-7)

Doing Business - getting credit index (0-8)

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

#### 200

#### 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) 10.0 Producer organizations index (0-13) 5.9 Variety registration index (0-8) Plant protection index (0-8) 6.0 4.5 Time to register new variety (days) Agricultural trade index (0-9) 514 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) TRANSPORT | DTF Score 66.83 ♦ Rank 22 4.4 Time to register a new fertilizer product (days) Trucking licenses and operations index (0-11) 45 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) Cost to obtain trucking licenses (% income per capita) 3.5 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 Cost to obtain cross-border license (% income per capita) 0.5

#### MACHINERY | DTF Score 51.45 ♦ Rank 33

FINANCE | DTF Score 4.17 ♦ Rank 62

**Branchless Banking** 

**JORDAN** 

Tractor operation index (0-5)	4.0
Time to register a tractor (days)	1
Cost to register a tractor (% income per capita)	20.2
Tractor testing and standards index (0-8)	1.2
Time to obtain type approval (days)	N/A
Cost to obtain type approval (% income per capita)	N/A
Tractor import index (0-5)	4.5

#### WATER | DTF Score 37.33 ♦ Rank 41

Integrated water resource management index (0-29)	
Individual water use for irrigation index (0-20)	

11.5

70

### ICT | DTF Score 61.11 ♦ Rank 22

ICT index (0-9)	5.5

Agent banking index (0-5)	0.0
E-money index (0-4)	1.0
Movable Collateral	
Warehouse receipts index (0-5)	0.0
Bit is Bit in the second of th	

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 o	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** 

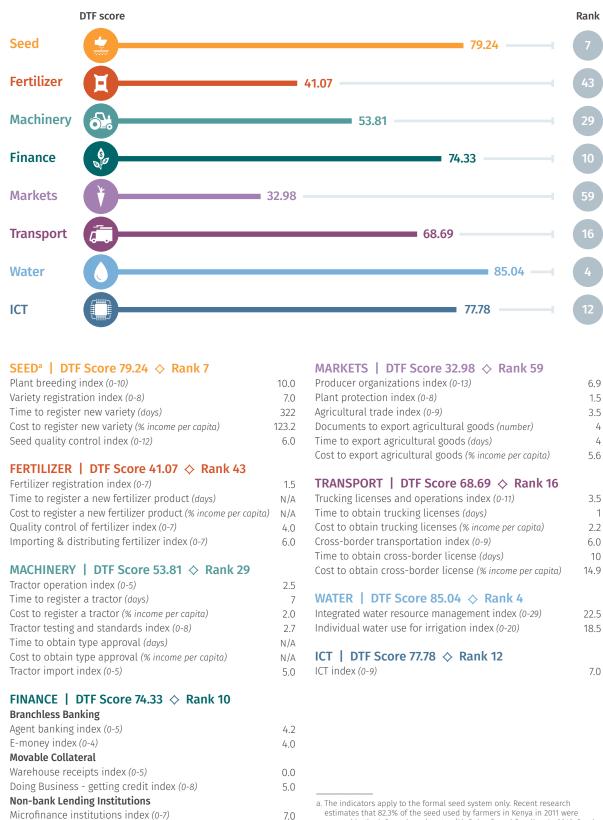
Movable Collateral4.5Warehouse receipts index (0-5)4.5Doing Business - getting credit index (0-8)5.0

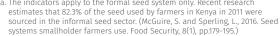
Non-bank Lending InstitutionsMicrofinance institutions index (0-7)0.0Financial cooperatives index (0-7)3.0

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



Financial cooperatives index (0-7)





# KOREA, REP.

# 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

### FINANCE | DTF Score 67.88 $\diamondsuit$ Rank 12

Branchless	Banking
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3	
Agent banking index (0-5)	N/A
E-money index (0-4)	2.2
Movable Collateral	
Warehouse receipts index (0-5)	3.3
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.





8.5 5.5 6.5

1

1

0.7

2.0 N/A

N/A

5.0

N/A

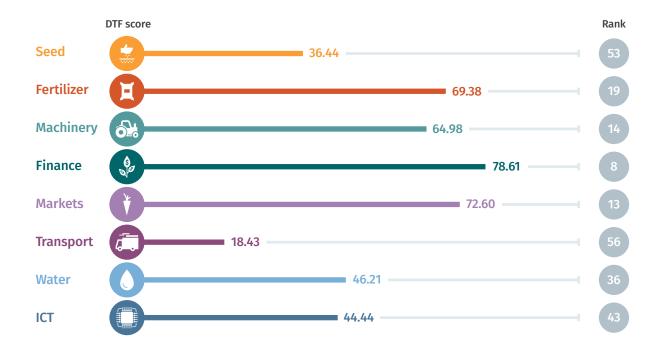
N/A

21.0

4.0

4.0

# **KYRGYZ REPUBLIC**



SEED <sup>a</sup>   DTF Score 36.44 $\diamondsuit$ Rank 53		MARKETS   DTF Score 72.60 ♦ Rank 13
Plant breeding index (0-10)	7.0	Producer organizations index (0-13)
Variety registration index (0-8)	4.0	Plant protection index (0-8)
Time to register new variety (days)	970	Agricultural trade index (0-9)
Cost to register new variety (% income per capita)	219.4	Documents to export agricultural goods (number)
Seed quality control index (0-12)	2.0	Time to export agricultural goods (days)
		Cost to export agricultural goods (% income per capita)
FERTILIZER   DTF Score 69.38 ♦ Rank 19		
Fertilizer registration index (0-7)	3.8	TRANSPORT   DTF Score 18.43 ♦ Rank 56
Time to register a new fertilizer product (days)	357	Trucking licenses and operations index (0-11)
Cost to register a new fertilizer product (% income per capita)	21.4	Time to obtain trucking licenses (days)
Quality control of fertilizer index (0-7)	4.0	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 64.98 ♦ Rank 14		Cost to obtain cross-border license (% income per capita)
Tractor operation index (0-5)	3.0	
Time to register a tractor (days)	2	WATER │ DTF Score 46.21 ♦ Rank 36
Cost to register a tractor (% income per capita)	1.5	Integrated water resource management index (0-29)
Tractor testing and standards index (0-8)	5.5	Individual water use for irrigation index (0-20)
Time to obtain type approval (days) No pr	ractice	
Cost to obtain type approval (% income per capita) No pi	ractice	ICT   DTF Score 44.44 ♦ Rank 43
Tractor import index (0-5)	5.0	ICT index (0-9)

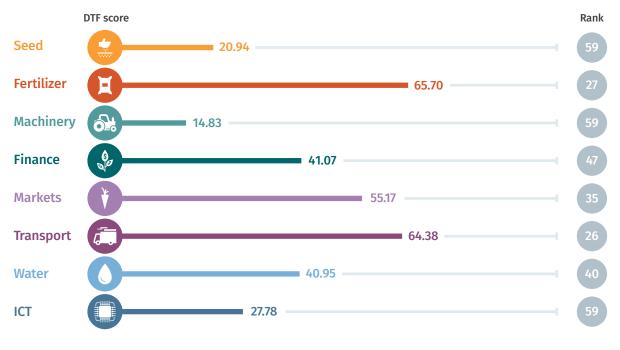
### FINANCE | DTF Score 78.61 $\diamondsuit$ Rank 8

Branchless Banking	
Agent banking index (0-5)	4.1
E-money index (0-4)	3.5
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)	5.0
Financial cooperatives index (0-7)	6.0



# **LAO PDR**

#### **EAST ASIA & PACIFIC LOWER MIDDLE INCOME**



	MARKETS   DTF Score 55.17 ♦ Rank 35
4.0	Producer organizations index (0-13)
3.5	Plant protection index (0-8)
No practice	Agricultural trade index (0-9)
No practice	Documents to export agricultural goods (number)
0.0	Time to export agricultural goods (days)
	Cost to export agricultural goods (% income per capita
7	
3.4	TRANSPORT   DTF Score 64.38 $\diamondsuit$ Rank
No data	Trucking licenses and operations index (0-11)
r capita) 0.5	Time to obtain trucking licenses (days)
5.0	Cost to obtain trucking licenses (% income per capita)
3.0	Cross-border transportation index (0-9)
	Time to obtain cross-border license (days)
59	Cost to obtain cross-border license (% income per cap
1.0	
No practice	WATER   DTF Score 40.95 ♦ Rank 40
No practice	Integrated water resource management index (0-29)
0.3	Individual water use for irrigation index (0-20)
N/A	
N/A	ICT   DTF Score 27.78 $\diamondsuit$ Rank 59
2.5	ICT index (0-9)
	3.5  No practice No practice 0.0  7  3.4  No data capita) 0.5  5.0 3.0  59  1.0  No practice

Documents to export agricultural goods (number)	2
Time to export agricultural goods (days)	3
Cost to export agricultural goods (% income per capita)	4.8
TRANSPORT   DTF Score 64.38 ♦ Rank 26	
Trucking licenses and operations index (0-11)	6.5
Time to obtain trucking licenses (days)	37
Cost to obtain trucking licenses (% income per capita)	6.1
Cross-border transportation index (0-9)	5.0
Time to obtain cross-border license (days)	30
Cost to obtain cross-border license (% income per capita)	0.3
WATER   DTF Score 40.95 ♦ Rank 40	
Integrated 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	
ICT index (0-9)	2.5



7.0

4.5

6.0



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)	6.0

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

MARKETS | DTF Score 20.49 ♦ Rank 62

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

FINANCE | DTF Score 46.13 ♦ Rank 35

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

E-money index (0-4)

**Movable Collateral** 

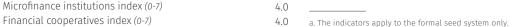
Warehouse receipts index (0-5)

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

Doing Business - getting credit index (0-8)

### 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 practice	Agricultural trade index (0-9)	2.0
Cost to register new variety (% income per capita)	No practice	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			
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 o	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	0	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)	92.1	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



0.0

4.0

0.0

### **MALAWI**

FINANCE | DTF Score 58.27 ♦ Rank 20

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

E-money index (0-4)

**Movable Collateral** 

Warehouse receipts index (0-5)

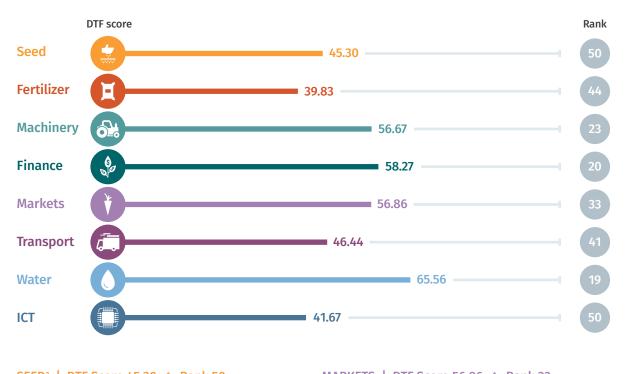
**Non-bank Lending Institutions** 

Microfinance institutions index (0-7)

Financial cooperatives index (0-7)

Doing Business - getting credit index (0-8)

# SUB-SAHARAN AFRICA LOW INCOME



SEED <sup>a</sup>   DTF Score 45.30 $\diamondsuit$ Rank 50		MARKETS   DTF Score 56.86 ♦ Rank 33	
Plant breeding index (0-10)	5.0	Producer organizations index (0-13)	9.0
Variety registration index (0-8)	5.5	Plant protection index (0-8)	3.0
Time to register new variety (days)	579	Agricultural trade index (0-9)	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 (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 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 capit	a) 3030.5	Time to obtain trucking licenses (days)	1
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 (0-9)	4.0
		Time to obtain cross-border license (days)	N/A
MACHINERY   DTF Score 56.67 ♦ Rank 23		Cost to obtain cross-border license (% 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 management index (0-29)	17.0
Tractor testing and standards index (0-8)	5.0	Individual water use for irrigation 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 $\diamondsuit$ Rank 50	
Tractor import index (0-5)	3.0	ICT index (0-9)	3.8

2.5

3.8

0.0

5.0

5.0

5.0





207

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.)

### 208

### 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 44		MARKETS   DTF Score 53.06 $\diamondsuit$ 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 $\diamondsuit$ 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 $\diamondsuit$ Rank 22	
Tractor import index (0-5)	4.5	ICT index (0-9)	5.5

### FINANCE | DTF Score 52.15 ♦ Rank 28

**MALAYSIA** 

Branchless Banking	
Agent banking index (0-5)	4.4
E-money index (0-4)	3.8
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)	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		<b>38.89</b>		52

SEED <sup>a</sup> DTF Score 36.99 Rank 52 Plant breeding index (0-10) Variety registration index (0-8) Time to register new variety (days) Cost to register new variety (% income per capita) Seed quality control index (0-12)	4.0 5.0 No practice No practice 5.0	MARKETS   DTF Score 51.78 ♦ Rank 44  Producer organizations index (0-13)  Plant protection index (0-8)  Agricultural trade index (0-9)  Documents to export agricultural goods (number)  Time to export agricultural goods (days)  Cost to export agricultural goods (% income per capita)	8.0 2.0 5.5 1 2 4.1
FERTILIZER   DTF Score 66.76 ♦ Rank 23			
Fertilizer registration index (0-7)	4.5	TRANSPORT   DTF Score 45.05 $\diamondsuit$ 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 61		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 $\diamondsuit$ 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

4.0

4.0

# FINANCE | DTF Score 43.35 $\diamondsuit$ Rank 41 Branchless Banking

Agent banking index (0-5)	
E-money index (0-4)	
Movable Collatoral	

Movable CollateralWarehouse receipts index (0-5)0.0Doing Business - getting credit index (0-8)4.0

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

Financial cooperatives index (0-7)









Financial cooperatives index (0-7)

#### DTF score Rank Seed **■ 64.66 Fertilizer 66.62 Machinery** 26.88 **Finance** 76.54 **Markets 83.08 Transport** 67.99 Water **ICT** ■ 88.89 → SEED<sup>a</sup> | DTF Score 64.66 ♦ Rank 24 MARKETS | DTF Score 83.08 ♦ Rank 3 Plant breeding index (0-10) 8.0 Producer organizations index (0-13) 9.8 Variety registration index (0-8) Plant protection index (0-8) 5.0 7.0 Time to register new variety (days) 621 Agricultural trade index (0-9) 7.5 Cost to register new variety (% income per capita) 16.2 Documents to export agricultural goods (number) 1 Seed quality control index (0-12) 7.0 Time to export agricultural goods (days) 1 0.3 Cost to export agricultural goods (% income per capita) FERTILIZER | DTF Score 66.62 ♦ Rank 24 Fertilizer registration index (0-7) TRANSPORT | DTF Score 67.99 ♦ Rank 20 6.0 Time to register a new fertilizer product (days) Trucking licenses and operations index (0-11) 7.5 765 Cost to register a new fertilizer product (% income per capita) 11.5 Time to obtain trucking licenses (days) 30 Quality control of fertilizer index (0-7) Cost to obtain trucking licenses (% income per capita) 4.0 4.0 Cross-border transportation index (0-9) Importing & distributing fertilizer index (0-7) 4.5 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 WATER | DTF Score 91.25 ♦ Rank 2 Time to register a tractor (days) No data Cost to register a tractor (% income per capita) No data Integrated water resource management index (0-29) 29.0 Individual water use for irrigation index (0-20) Tractor testing and standards index (0-8) 3.0 16.5 Time to obtain type approval (days) N/A ICT | DTF Score 88.89 ♦ Rank 9 Cost to obtain type approval (% income per capita) N/A Tractor import index (0-5) ICT index (0-9) 2.5 8.0 FINANCE | DTF Score 76.54 ♦ 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

# **MOROCCO**

**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)

# MIDDLE EAST & NORTH AFRICA LOWER MIDDLE INCOME

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 ♦ Rank 57			





2.6

1.0

3.0

Microfinance institutions index (0-7)

Financial cooperatives index (0-7)

0.0

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

# 212

### 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

SEED <sup>a</sup>   DTF Score 65.68 ♦ 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		
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 cap	ita) 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	<b>47</b>	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 ♦ Rank 25

**MOZAMBIQUE** 

Branchiess Banking	3.9
Agent banking index (0-5)	1.0
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)	4.0
Financial cooperatives index (0-7)	5.0

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

# **MYANMAR**

# EAST ASIA & PACIFIC LOWER MIDDLE INCOME

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)		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



### 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

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





Financial cooperatives index (0-7)

FINANCE | DTF Score 46.31 ♦ Rank 34

	DTF score		Rank
Seed		47.31	45
Fertilizer	<b>E</b>	45.46	41
Machinery	<u>0</u> 2	47.21	36
Finance		46.31	34
Markets	<b>O</b>	60.60	28
Transport	29.7	77	52
Water	22.97 —		52
ICT		44,44	43

Plant breeding index (0-10)	4.0	Producer organizations index (0-13)	6.9
Variety registration index (0-8)	5.5	Plant protection index (0-8)	4.0
Time to register new variety (days)	611	Agricultural trade index (0-9)	6.0
Cost to register new variety (% income per capita)	0.0	Documents to export agricultural goods (number)	2
Seed quality control index (0-12)	1.0	Time to export agricultural goods (days)	2
		Cost to export agricultural goods (% income per capita)	0.7
FERTILIZER   DTF Score 45.46 ♦ Rank 41			
Fertilizer registration index (0-7)	3.4	TRANSPORT   DTF Score 29.77 ♦ Rank 52	
Time to register a new fertilizer product (days)	1125	Trucking licenses and operations index (0-11)	4.0
Cost to register a new fertilizer product (% income per capital	a) 645.2	Time to obtain trucking licenses (days)	2
Quality control of fertilizer index (0-7)	5.0	Cost to obtain trucking licenses (% income per capita)	38.2
Importing & distributing fertilizer index (0-7)	3.5	Cross-border transportation index (0-9)	3.0
		Time to obtain cross-border license (days)	N/A
MACHINERY   DTF Score 47.21 ♦ Rank 36		Cost to obtain cross-border license (% income per capita)	N/A
Tractor operation index (0-5)	3.0		
Time to register a tractor (days)	2	WATER   DTF Score 22.97 $\diamondsuit$ Rank 52	
Cost to register a tractor (% income per capita)	4.6	Integrated water resource management index (0-29)	1.0
Tractor testing and standards index (0-8)	0.3	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 44.44 ♦ Rank 43	
Tractor import index (0-5)	4.0	ICT index (0-9)	4.0

SEED<sup>a</sup> | DTF Score 47.31 ♦ Rank 45 MARKETS | DTF Score 60.60 ♦ Rank 28

# **NETHERLANDS**

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

SEED"   DIF Score 88.00 $\diamondsuit$ Rank 1		MAN
Plant breeding index (0-10)	9.0	Prod
Variety registration index (0-8)	7.0	Plan
Time to register new variety (days)	556	Agric
Cost to register new variety (% income per capita)	13.7	Docu
Seed quality control index (0-12)	12.0	Time
		Cost
FERTILIZER   DTF Score 83.33 ♦ Rank 7		
Fertilizer registration index (0-7)	5.0	TRA
Time to register a new fertilizer product (days)	N/A	Truck
Cost to register a new fertilizer product (% income per capito	a) N/A	Time
Quality control of fertilizer index (0-7)	6.5	Cost
Importing & distributing fertilizer index (0-7)	6.0	Cross
		Time
MACHINERY   DTF Score 81.83 ♦ Rank 7		Cost
Tractor operation index (0-5)	2.0	
Time to register a tractor (days)	1	WAT
Cost to register a tractor (% income per capita)	0.1	Integ
Tractor testing and standards index (0-8)	7.0	Indiv
Time to obtain type approval (days)	No data	
Cost to obtain type approval (% income per capita)	No data	ICT
Tractor import index (0-5)	5.0	ii TOI
FINANCE   DTF Score 61.31 ♦ Rank 17		

		, 9	
eed quality control index (0-12)	12.0	Time to export agricultural goods (days)	0
		Cost to export agricultural goods (% income per capita)	0.0
ERTILIZER   DTF Score 83.33 ♦ Rank 7			
ertilizer registration index (0-7)	5.0	TRANSPORT   DTF Score 76.47 ♦ Rank 9	
ime to register a new fertilizer product (days)	N/A	Trucking licenses and operations index (0-11)	9.8
ost to register a new fertilizer product (% income per capi	ta) N/A	Time to obtain trucking licenses (days)	56
uality control of fertilizer index (0-7)	6.5	Cost to obtain trucking licenses (% income per capita)	0.9
mporting & distributing fertilizer index (0-7)	6.0	Cross-border transportation index (0-9)	9.0
		Time to obtain cross-border license (days)	56
MACHINERY   DTF Score 81.83 ♦ Rank 7		Cost to obtain cross-border license (% income per capita)	0.9
ractor operation index (0-5)	2.0		
ime to register a tractor (days)	1	WATER   DTF Score 64.27 $\diamondsuit$ Rank 20	
ost to register a tractor (% income per capita)	0.1	Integrated water resource management index (0-29)	23.5
ractor testing and standards index (0-8)	7.0	Individual water use for irrigation index (0-20)	9.5
ime to obtain type approval (days)	No data		
ost to obtain type approval (% income per capita)	No data	ICT   DTF Score 100.00 ♦ Rank 1	
ractor import index (0-5)	5.0	ICT index (0-9)	9.0

Branchless	Banking
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Branchiess Banking	
Agent banking index (0-5)	N/A
E-money index (0-4)	2.8
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







**NICARAGUA** 

Water

**ICT** 

# DTF score Seed 47.92 43 Fertilizer 78.20 11 Machinery Machinery 45.94 66.29 20 Transport 51.56

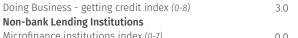
44.44

SEED <sup>a</sup> DTF Score 47.92 Rank 43		MARKETS   DTF Score 66.29 $\diamondsuit$ 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			
Fertilizer registration index (0-7)	4.8	TRANSPORT   DTF Score 51.56 ♦ Rank 36	
Time to register a new fertilizer product (days)	28	Trucking licenses and operations index (0-11)	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)	7.0	Cost to obtain trucking licenses (% income per capita)	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		
Time to register a tractor (days)	10	WATER │ DTF Score 61.98 ♦ Rank 23	
Cost to register a tractor (% income per capita)	5.6	Integrated water resource management index (0-29)	20.0
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 44.44 ♦ Rank 43	
Tractor import index (0-5)	3.5	ICT index (0-9)	4.0

3.6

1.0

4.3



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

FINANCE | DTF Score 45.94 ♦ Rank 36

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

E-money index (0-4)

**Movable Collateral** 

Warehouse receipts index (0-5)

61.98 -

### SUB-SAHARAN AFRICA LOW INCOME



### 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) 2.4 FERTILIZER │ DTF Score 25.00 ♦ Rank 55 Fertilizer registration index (0-7) TRANSPORT | DTF Score 68.20 ♦ Rank 17 0.0 Time to register a new fertilizer product (days) Trucking licenses and operations index (0-11) 4.5 N/A Cost to register a new fertilizer product (% income per capita) N/A Time to obtain trucking licenses (days) 2 Quality control of fertilizer index (0-7) Cost to obtain trucking licenses (% income per capita) 3.0 9.6 Cross-border transportation index (0-9) Importing & distributing fertilizer index (0-7) 3.5 5.0 Time to obtain cross-border license (days) 1 MACHINERY | DTF Score 20.83 ♦ Rank 55 Cost to obtain cross-border license (% income per capita) 9.6 Tractor operation index (0-5) 0.0 WATER | DTF Score 41.85 ♦ Rank 39 Time to register a tractor (days) N/A Cost to register a tractor (% income per capita) N/A Integrated water resource management index (0-29) 10.5 Individual water use for irrigation index (0-20) Tractor testing and standards index (0-8) 0.3 9.5 Time to obtain type approval (days) N/A ICT | DTF Score 44.44 ♦ Rank 43 Cost to obtain type approval (% income per capita) N/A Tractor import index (0-5) ICT index (0-9) 4.0 5.0



**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

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

Financial cooperatives index (0-7)

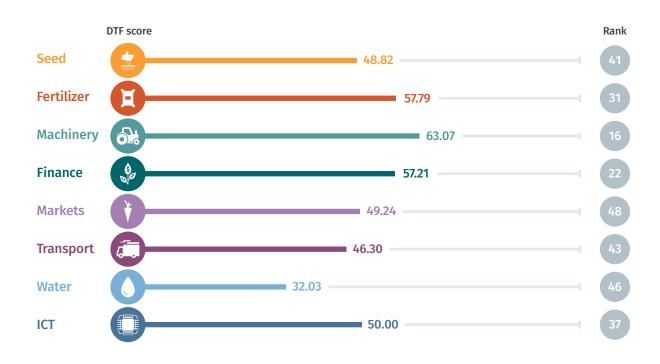
4.0







217



SEED"   DIF Score 48.82 ♦ Rank 41		MARKETS   DIF Score 49.24 $\Leftrightarrow$ 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

4.0

3.0



Movable Collateral0.0Warehouse receipts index (0-5)6.0Doing Business - getting credit index (0-8)

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

Financial cooperatives index (0-7)

a. The indicators apply to the formal seed system only. Recent research estimates that 76% of Nigerian famers' households used non-commercial maize seed for planting during 2010/2011 season. (Sheahan, M. and Barrett, C.B., 2016. Ten striking facts about agricultural input use in Sub-Saharan Africa Food Policy)

### **LATIN AMERICA & CARIBBEAN UPPER MIDDLE INCOME**

## **PERU**



SEED <sup>a</sup> DTF Score 72.49 Rank 10		MARKETS   DTF Score 61.28 ♦ 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 $\diamondsuit$ 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

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

Branchless	Banking
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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) 7.0 Financial cooperatives index (0-7) 3.0



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).)

# 220

### 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 $\diamondsuit$ Rank 11		MARKETS   DTF Score 53.47 ♦ Rank 38	
Plant breeding index (0-10)	10.0	Producer organizations index (0-13)	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			
Fertilizer registration index (0-7)	4.4	TRANSPORT   DTF Score 49.88 ♦ Rank 37	7
Time to register a new fertilizer product (days)	134	Trucking licenses and operations index (0-11)	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)	4.5	Cost to obtain trucking licenses (% income per capita)	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		
Time to register a tractor (days)	11	WATER │ DTF Score 67.28 ♦ Rank 17	
Cost to register a tractor (% income per capita)	0.0	Integrated water resource management index (0-29)	18.0
Tractor testing and standards index (0-8)	5.2	Individual water use for irrigation index (0-20)	14.5
Time to obtain type approval (days)	30		
Cost to obtain type approval (% income per capita)	12.6	ICT   DTF Score 50.00 ♦ Rank 37	
Tractor import index (0-5)	3.0	ICT index (0-9)	4.5

0.0

3.6

FINANCE | DTF Score 48.38 ♦ Rank 33

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

E-money index (0-4)

**PHILIPPINES** 

Doing Business - getting credit index (0-8)

Non-bank Lending Institutions

Microfinance institutions index (0-7)

Financial cooperatives index (0-7)

6.0

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

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

6.0



Branchless B	anking
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Financial cooperatives index (0-7)

3	
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.





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ROMANIA

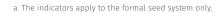
# 222

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

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 **ICT ■** 100.00 **■**I SEED<sup>a</sup> | DTF Score 81.11 ♦ Rank 6 MARKETS | DTF Score 73.24 ♦ Rank 12 Plant breeding index (0-10) 10.0 Producer organizations index (0-13) 7.3 Variety registration index (0-8) Plant protection index (0-8) 5.5 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) 0 0.0 Cost to export agricultural goods (% income per capita) FERTILIZER | DTF Score 64.67 ♦ Rank 28 Fertilizer registration index (0-7) TRANSPORT | DTF Score 90.96 ♦ Rank 2 4.8 Time to register a new fertilizer product (days) 1205 Trucking licenses and operations index (0-11) 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) 6.5 2.0 Cross-border transportation index (0-9) Importing & distributing fertilizer index (0-7) 3.0 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) 9.0 5.0 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

0.0



# **RUSSIAN FEDERATION**

# EUROPE & CENTRAL ASIA UPPER MIDDLE INCOME

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 capito	a) 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
FINANCE   DTF Score 45.77 $\diamondsuit$ Rank 38			

3.6

1.0

3.5





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

E-money index (0-4)

**Movable Collateral** 

Warehouse receipts index (0-5)

Doing Business - getting credit index (0-8)

Non-bank Lending Institutions

\*\*Transfer and Provided (8-7)\*\*

\*\*Transfer and Provided (8-7)\*

\*\*Transfer and Provided (8-7)\*\*

\*\*Transfer and Provided (8-7)\*

\*\*Transfer and Provided (8-7)\*\*

\*\*Transfer and Provided (8-7)\*

\*\*Transfer and Provided (8-7)\*

\*\*Transfer and Provided (8-7)\*

\*\*Transfer and Provided (8-7)\*

\*\*Transfer and Provided (8-7)

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.

Rank

9.0

0.5

3.0

1

1 0.0

5.0

21.5

6.0

28.6

14.5

10.0

3.8

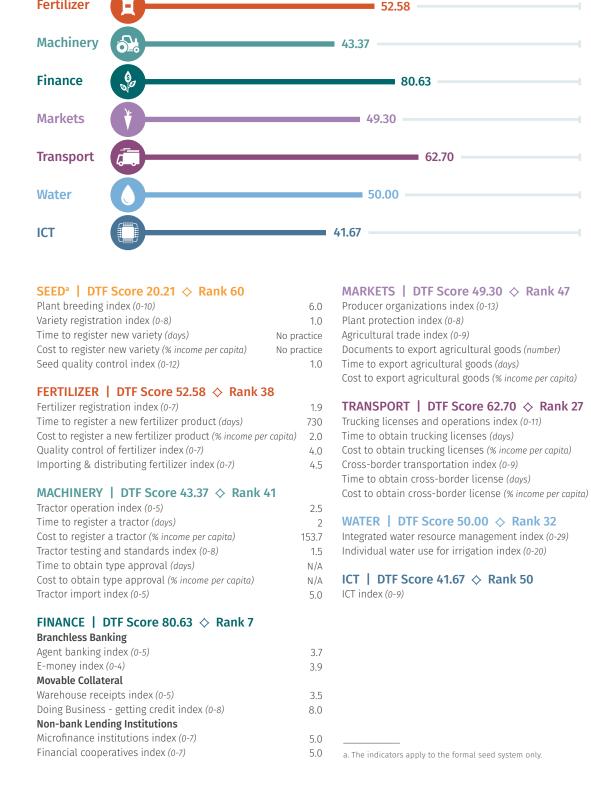
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7

Seed

**Fertilizer** 

DTF score



# SUB-SAHARAN AFRICA LOW INCOME

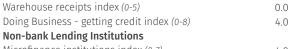
SEED <sup>a</sup>   DTF Score 52.80 ♦ Rank 36		MARKETS   DTF Score 54.65 ♦ Rank 36	
Plant breeding index (0-10)	7.0	Producer organizations index (0-13)	7.8
Variety registration index (0-8)	5.5	Plant protection index (0-8)	3.5
Time to register new variety (days)	561	Agricultural trade index (0-9)	4.0
Cost to register new variety (% income per capita)	708.5	Documents to export agricultural goods (number)	2
Seed quality control index (0-12)	5.5	Time to export agricultural goods (days)	3
		Cost to export agricultural goods (% income per capita)	3.8
FERTILIZER   DTF Score 17.86 ♦ Rank 60			
Fertilizer registration index (0-7)	0.0	TRANSPORT   DTF Score 51.57 $\diamondsuit$ Rank 3	5
Time to register a new fertilizer product (days)	N/A	Trucking licenses and operations index (0-11)	6.8
Cost to register a new fertilizer product (% income per capita)	N/A	Time to obtain trucking licenses (days)	12
Quality control of fertilizer index (0-7)	1.0	Cost to obtain trucking licenses (% income per capita)	2.8
Importing & distributing fertilizer index (0-7)	4.0	Cross-border transportation index (0-9)	5.0
		Time to obtain cross-border license (days)	No practice
MACHINERY   DTF Score 25.15 ♦ Rank 54		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 35.73 ♦ Rank 42	
Cost to register a tractor (% income per capita)	0.6	Integrated water resource management index (0-29)	5.5
Tractor testing and standards index (0-8)	0.3	Individual water use for irrigation index (0-20)	10.5
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 43.35 ♦ Rank 41			

0.0

3.8







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

E-money index (0-4)

**Movable Collateral** 

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

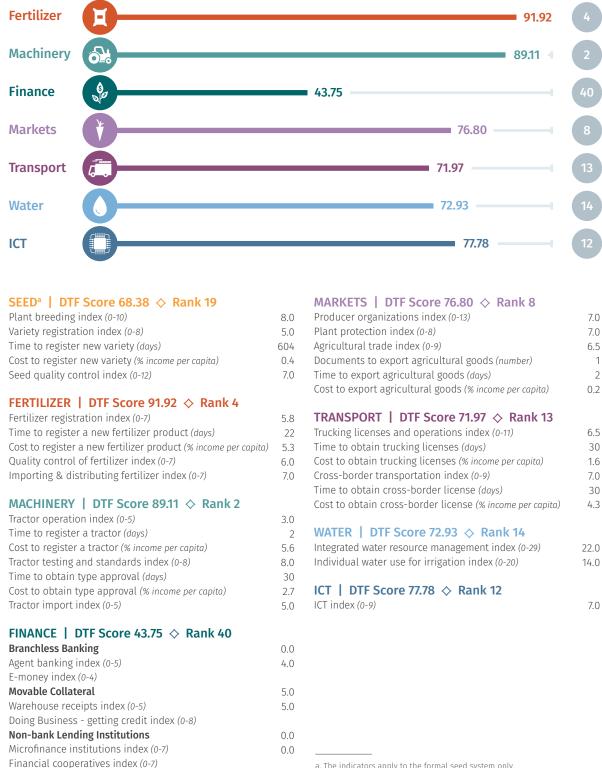
a. The indicators apply to the formal seed system only.

**68.38** 

Rank

Seed

DTF score





# OECD HIGH INCOME HIGH INCOME

SEED <sup>a</sup>   DTF Score 86.65 ♦ Rank 2		MARKETS   DTF Score 87.08 ♦ Rank 2	
Plant breeding index (0-10)	10.0	Producer organizations index (0-13)	10.8
Variety registration index (0-8)	6.0	Plant protection index (0-8)	7.8
Time to register new variety (days)	598	Agricultural trade index (0-9)	5.5
Cost to register new variety (% income per capita)	9.3	Documents to export agricultural goods (number)	0
Seed quality control index (0-12)	12.0	Time to export agricultural goods (days)	0
		Cost to export agricultural goods (% income per capita)	0.0
FERTILIZER   DTF Score 91.10 ♦ Rank 5			
Fertilizer registration index (0-7)	5.8	TRANSPORT   DTF Score 91.70 ♦ Rank 1	
Time to register a new fertilizer product (days)	90	Trucking licenses and operations index (0-11)	9.8
Cost to register a new fertilizer product (% income per capita)	0.0	Time to obtain trucking licenses (days)	4
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)	6.0	Cross-border transportation index (0-9)	9.0
		Time to obtain cross-border license (days)	25
MACHINERY   DTF Score 83.23 ♦ Rank 6		Cost to obtain cross-border license (% income per capita)	0.5
Tractor operation index (0-5)	4.5		
Time to register a tractor (days)	5	WATER   DTF Score 94.53 ♦ Rank 1	
Cost to register a tractor (% income per capita)	0.6	Integrated water resource management index (0-29)	28.0
Tractor testing and standards index (0-8)	7.0	Individual water use for irrigation index (0-20)	18.5
Time to obtain type approval (days)	451		
Cost to obtain type approval (% income per capita)	32.2	ICT   DTF Score 100.00 ♦ Rank 1	
Tractor import index (0-5)	5.0	ICT index (0-9)	9.0







Agent banking index (0-5) N/A
E-money index (0-4) 3.8

Movable Collateral

Warehouse receipts index (0-5) 3.5

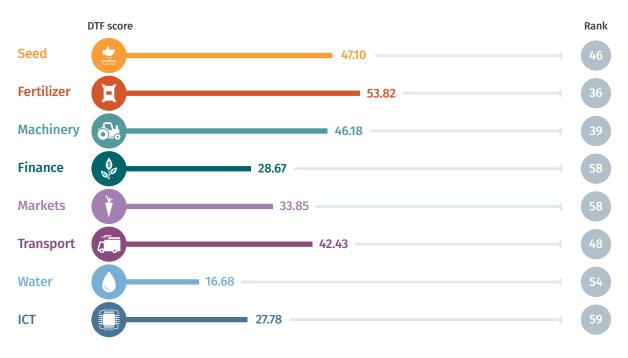
Doing Business - getting credit index (0-8) 5.0

Non-bank Lending Institutions
Microfinance institutions index (0-7)
N/A
Financial cooperatives index (0-7)
7.0

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

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# **SRI LANKA**



SEED <sup>a</sup>   DTF Score 47.10 $\diamondsuit$ Rank 46		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 $\diamondsuit$ 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 ♦ Rank 59	
Tractor import index (0-5)	3.0	ICT index (0-9)	2.5

### FINANCE | DTF Score 28.67 ♦ Rank 58

Branchless Banking	
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
Financial cooperatives index (0-7)	3.0

	DTF score	Rank
Seed	49.34	40
Fertilizer	23.21	56
Machinery	54.87	27
Finance	33.93	53
Markets	30.56	61
Transport	43.36	47
Water	10.17	59
ICT	33.33	57

SEED <sup>a</sup>   DTF Score 49.34 ♦ Rank 40		MARKETS   DTF Score 30.56 ♦ Rank 61	
Plant breeding index (0-10)	8.0	Producer organizations index (0-13)	6.5
Variety registration index (0-8)	4.5	Plant protection index (0-8)	1.5
Time to register new variety (days)	654	Agricultural trade index (0-9)	No data
Cost to register new variety (% income per capita)	620.7	Documents to export agricultural goods (number)	2
Seed quality control index (0-12)	4.5	Time to export agricultural goods (days)	21
		Cost to export agricultural goods (% income per capita)	6.1
FERTILIZER   DTF Score 23.21 ♦ Rank 56			
Fertilizer registration index (0-7)	0.0	TRANSPORT   DTF Score 43.46 ♦ Rank 47	
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 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)	3.0	Cross-border transportation index (0-9)	7.0
		Time to obtain cross-border license (days)	14
MACHINERY   DTF Score 54.87 ♦ Rank 27		Cost to obtain cross-border license (% income per capita)	2.4
Tractor operation index (0-5)	2.5		
Time to register a tractor (days)	7	WATER   DTF Score 10.17 $\diamondsuit$ Rank 59	
Cost to register a tractor (% income per capita)	29.8	Integrated water resource management index (0-29)	3.0
Tractor testing and standards index (0-8)	5.3	Individual water use for irrigation index (0-20)	2.0
Time to obtain type approval (days)	45		
Cost to obtain type approval (% income per capita)	146.6	ICT   DTF Score 33.33 $\diamondsuit$ Rank 57	
Tractor import index (0-5)	1.5	ICT index (0-9)	3.0

### FINANCE | DTF Score 33.93 ♦ Rank 53

Branchless Banking	
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

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

**TAJIKISTAN** 

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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 **42.40 Fertilizer** 36.79 **Machinery Finance** 32.14 **Markets 58.05 Transport 84.09** Water 46.81 **ICT** 36.11 SEED<sup>a</sup> | DTF Score 42.40 ♦ Rank 51 MARKETS | DTF Score 58.05 ♦ Rank 32 Plant breeding index (0-10) 8.0 Producer organizations index (0-13) 9.0 Variety registration index (0-8) Plant protection index (0-8) 4.5 4.5 Time to register new variety (days) Agricultural trade index (0-9) No practice 5.5 Cost to register new variety (% income per capita) No practice Documents to export agricultural goods (number) 2 Seed quality control index (0-12) Time to export agricultural goods (days) 6 Cost to export agricultural goods (% income per capita) 4.3 FERTILIZER | DTF Score 36.79 ♦ Rank 49 Fertilizer registration index (0-7) TRANSPORT | DTF Score 84.09 ♦ Rank 6 2.3 Time to register a new fertilizer product (days) Trucking licenses and operations index (0-11) 9.5 No practice Cost to register a new fertilizer product (% income per capita) No practice Time to obtain trucking licenses (days) 2 Quality control of fertilizer index (0-7) Cost to obtain trucking licenses (% income per capita) 2.0 0.4 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 58.15 ♦ Rank 22 Cost to obtain cross-border license (% income per capita) 5.1 Tractor operation index (0-5) 3.0 WATER | DTF Score 46.81 ♦ Rank 35 Time to register a tractor (days) 10 Cost to register a tractor (% income per capita) 1.5 Integrated water resource management index (0-29) 17.0 Tractor testing and standards index (0-8) 4.0 Individual water use for irrigation index (0-20) 70 Time to obtain type approval (days) No practice ICT | DTF Score 36.11 ♦ Rank 56 Cost to obtain type approval (% income per capita) No practice ICT index (0-9) Tractor import index (0-5) 3.3 5.0 FINANCE | DTF Score 32.14 $\diamondsuit$ Rank 55 **Branchless Banking** Agent banking index (0-5) 0.0 E-money index (0-4) 1.0 Movable Collateral

0.0

2.0

7.0

# **TANZANIA**

# SUB-SAHARAN AFRICA LOW INCOME

	DTF score		Rank
Seed		68.91	17
Fertilizer	E	52.84	37
Machinery	973 A	44.38	40
Finance			84.85 — 5
Markets	37.88		56
Transport		65.13	25
Water	0	62.67	22
ICT		66.67	18

SEED <sup>a</sup>   DTF Score 68.91 ♦ Rank 17		MARKETS   DTF Score 37.88 ♦ Rank 56	
Plant breeding index (0-10)	9.0	Producer organizations index (0-13)	9.7
Variety registration index (0-8)	4.0	Plant protection index (0-8)	3.0
Time to register new variety (days)	333	Agricultural trade index (0-9)	3.0
Cost to register new variety (% income per capita)	65.1	Documents to export agricultural goods (number)	4
Seed quality control index (0-12)	6.5	Time to export agricultural goods (days)	16
		Cost to export agricultural goods (% income per capita)	4.3
FERTILIZER   DTF Score 52.84 ♦ Rank 37			
Fertilizer registration index (0-7)	3.4	TRANSPORT   DTF Score 65.13 ♦ Rank 25	
Time to register a new fertilizer product (days)	578	Trucking licenses and operations index (0-11)	3.5
Cost to register a new fertilizer product (% income per cap	pita) 983.1	Time to obtain trucking licenses (days)	3
Quality control of fertilizer index (0-7)	7.0	Cost to obtain trucking licenses (% income per capita)	4.7
Importing & distributing fertilizer index (0-7)	3.0	Cross-border transportation index (0-9)	6.0
		Time to obtain cross-border license (days)	14
MACHINERY   DTF Score 44.38 ♦ Rank 40		Cost to obtain cross-border license (% income per capita)	22.0
Tractor operation index (0-5)	0.5		
Time to register a tractor (days)	3	WATER   DTF Score 62.67 ♦ Rank 22	
Cost to register a tractor (% income per capita)	20.7	Integrated water resource management index (0-29)	17.5
Tractor testing and standards index (0-8)	3.5	Individual water use for irrigation index (0-20)	13.0
Time to obtain type approval (days)	N/A		
Cost to obtain type approval (% income per capita)	N/A	ICT   DTF Score 66.67 ♦ Rank 18	
Tractor import index (0-5)	5.0	ICT index (0-9)	6.0

### FINANCE | DTF Score 84.85 $\diamondsuit$ Rank 5

Agent banking index (0-5)	4.1
E-money index (0-4)	3.7
Movable Collateral	
Warehouse receipts index (0-5)	4.5
Doing Business - getting credit index (0-8)	6.0
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Doing Business - getting credit index (0-8) 6.0

Non-bank Lending Institutions

Microfinance institutions index (0-7) 6.0

Financial cooperatives index (0-7) 6.0

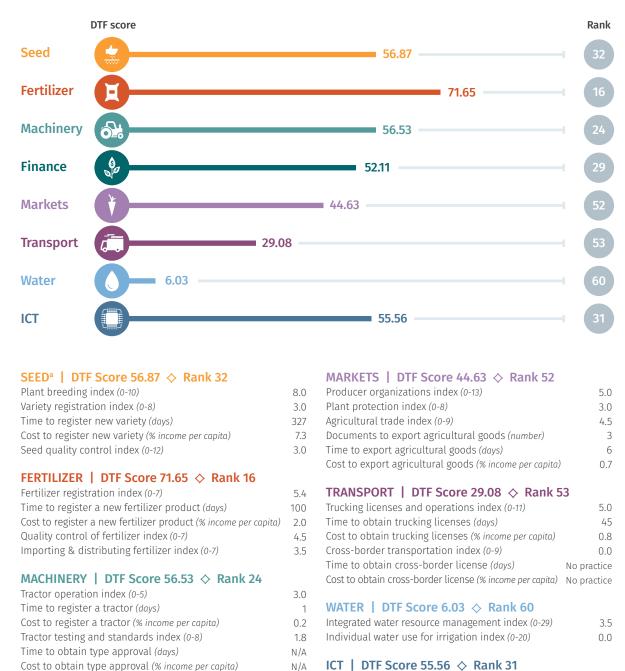




a. The indicators apply to the formal seed system only. Recent research estimates that 70.2% of Tanzanian famers' households used non-commercial maize seed for planting during the 2010/2011 season. (Sheahan, M. and Barrett, C.B., 2016. Ten striking facts about agricultural input use in Sub-Saharan Africa.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

**THAILAND** 





### FINANCE | DTF Score 52.11 ♦ Rank 29

Tractor import index (0-5)

Financial cooperatives index (0-7)

Branchless Banking	
Agent banking index (0-5)	3.4
E-money index (0-4)	3.5
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

5.0

ICT index (0-9)

5.0

# **TURKEY**

# EUROPE & CENTRAL ASIA UPPER MIDDLE INCOME

SEED <sup>a</sup>   DTF Score 72.07 ♦ 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 ♦ 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

0.0

3.4

0.0

5.0





FINANCE | DTF Score 49.06  $\diamondsuit$  Rank 32

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

E-money index (0-4)

Financial cooperatives index (0-7)

Movable CollateralWarehouse receipts index (0-5)5.0Doing Business - getting credit index (0-8)3.0

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

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

**57.82** 

46.75

53.21

50.30

50.44

7.0

5.5

523

58.58

61.11

Rank

Seed

**Fertilizer** 

**Machinery** 

**Finance** 

**Markets** 

**Transport** 

Water

**ICT** 

DTF score

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

Plant breeding index (0-10)

Variety registration index (0-8)

Time to register new variety (days)

### 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 capita) 215.3 Quality control of fertilizer index (0-7) 4.0 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 FINANCE | DTF Score 50.30 ♦ 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

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	
ICT index (0-9)	5.5

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.)

### **UKRAINE**

**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)

Doing Business - getting credit index (0-8)

# EUROPE & CENTRAL ASIA LOWER MIDDLE INCOME





3.1

1.0

5.0

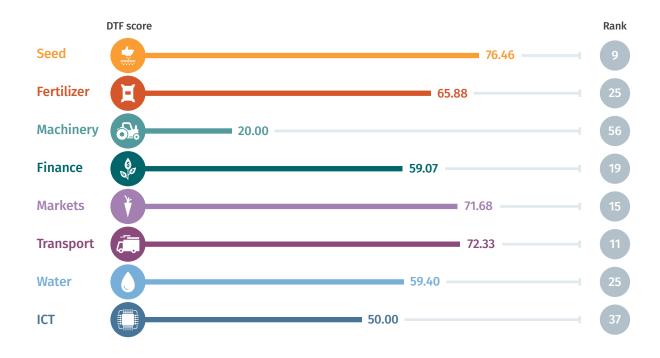
6.0

Financial cooperatives index (0-7)

4.0

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

# URUGUAY



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.
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)	,
Seed quality control index (0-12)	8.3	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)	3.0	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 ♦ Rank 19

Financial cooperatives index (0-7)

Branchless Banking	
Agent banking index (0-5)	3.7
E-money index (0-4)	3.5
Movable Collateral	
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)	0.0

# **VIETNAM**

FINANCE | DTF Score 51.19 ♦ Rank 30

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

E-money index (0-4)

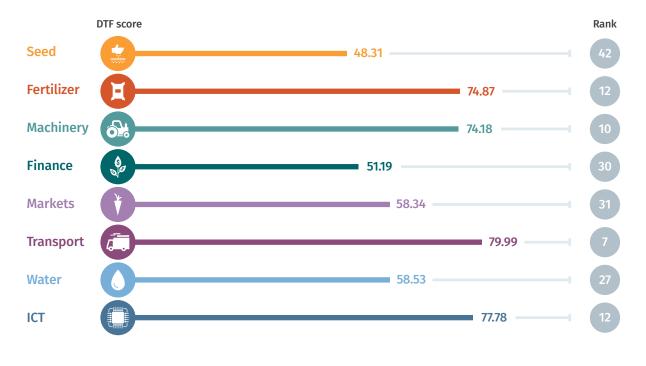
**Movable Collateral** 

Warehouse receipts index (0-5)

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

Doing Business - getting credit index (0-8)

# EAST ASIA & PACIFIC LOWER MIDDLE INCOME



SEED <sup>a</sup>   DTF Score 48.31 ♦ Rank 42		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 ♦ 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





Microfinance institutions index (0-7)

5.0

Financial cooperatives index (0-7)

6.0

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

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) 8.0 Producer organizations index (0-13) 10.3 Variety registration index (0-8) Plant protection index (0-8) 5.5 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) Cost to export agricultural goods (% income per capita) 2.4 FERTILIZER | DTF Score 52.29 ♦ Rank 39 Fertilizer registration index (0-7) TRANSPORT | DTF Score 66.59 ♦ Rank 23 2.9 Time to register a new fertilizer product (days) Trucking licenses and operations index (0-11) 4.5 210 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 Cross-border transportation index (0-9) Importing & distributing fertilizer index (0-7) 2.5 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) 7.6 Integrated water resource management index (0-29) 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 ICT index (0-9) Tractor import index (0-5) 5.5 5.0 FINANCE | DTF Score 66.22 ♦ 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**

**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)

# SUB-SAHARAN AFRICA LOW INCOME

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 $\diamondsuit$ Rank 52	
Tractor import index (0-5)	4.0	ICT index (0-9)	3.5
FINANCE   DTECTOR 20 TE A Devil 10			
FINANCE   DTF Score 38.75 ♦ Rank 49			

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.)