

**Table B.3 | Scoring methodology for machinery indicators**

INDICATOR	SUB-INDICATOR	DESCRIPTION	WHAT IS MEASURED	HOW IT IS SCORED
<b>TRACTOR IMPORTS</b>	Tractor imports	This indicator examines the private machinery sector's ability to import agricultural tractors, importer registration and renewal requirements, and import permit requirements.	1. Companies are not required to register as importers of agricultural tractors. If the registration is required, the validity is indefinite or greater than 10 years	<p><b>A score of 1</b> if companies are not required to register as importers</p> <p><b>A score of 0.5</b> if the registration is required but the validity is indefinite or greater than or equal to 10 years</p> <p><b>A score of 0</b> if the registration is required and the validity is less than 10 years</p>
			2. If registration is required and limited to a certain number of years, the registration is automatically renewed	<p><b>A score of 1</b> if the registration is not required or the registration is automatically renewed</p> <p><b>A score of 0</b> if registration renewal is required</p>
			3. An import permit is not required to import agricultural tractors. If a permit is required, the cost is less than 25% of income per capita	<p><b>A score of 1</b> if import permit is not required</p> <p><b>A score of 0.5</b> if the import permit is required and the cost is smaller or equal to 25% of income per capita</p> <p><b>A score of 0</b> if the import permit is required and the cost is greater than 25% of income per capita</p>
			4. If an import permit is required, it is a blank import permit without volume or other restrictions	<p><b>A score of 1</b> if the permit is a blank permit, or if the import permit is not required</p> <p><b>A score of 0</b> if the import permit is required for each tractor shipment or the permit is limited to a certain number of tractors annually</p>
			5. If an import permit is required, it is valid for a period of at least 12 months	<p><b>A score of 1</b> if the import permit has unlimited validity or if the import permit is not required</p> <p><b>A score of 0.5</b> if the permit has a validity of 12 months or longer</p> <p><b>A score of 0</b> if the permit has a validity of less than 12 months</p>
<b>TRACTOR OPERATIONS</b>	Tractor operations (legal)	This indicator evaluates the requirement of tractor registration, roadworthiness inspections of in-use tractors, and provision of after-market parts and services.	1. According to the law, tractors must be registered once imported if they will be used on public roads	<p><b>A score of 1</b> if registration is required for use on public roads only</p> <p><b>A score of 0.5</b> if registration is required for all usage</p> <p><b>A score of 0</b> if registration is not required</p>
			2. According to the law, in-use tractors have to be inspected for roadworthiness/road-fitness and if the cost of inspection is affordable	<p><b>A score of 1</b> if the roadworthiness inspection is required and the cost is less than or equal to 2% of income per capita</p> <p><b>A score of 0.5</b> if the roadworthiness-inspection is required and the cost is greater than 2% of income per capita</p> <p><b>A score of 0</b> if the roadworthiness-inspection is not required or it is not done in practice</p>
			3. The roadworthiness inspection is required for all types of tractors	<p><b>A score of 1</b> if inspection is required for all types of tractors</p> <p><b>A score of 0.5</b> if inspection is required for specific types of tractors</p> <p><b>A score of 0</b> if no inspection is required</p>
			4. If the roadworthiness inspection is required, the results are valid for more than two years but less than four years	<p><b>A score of 1</b> if yes</p> <p><b>A score of 0.5</b> if renewal is required and the period between roadworthiness tests is less than two years or greater than four years</p> <p><b>A score of 0</b> if renewal is not required</p>
			5. Tractor dealers must provide tractor after-market service and parts	<p><b>A score of 1</b> if both tractor after-market service and parts must be provided</p> <p><b>A score of 0.5</b> if either tractor after-market service or parts must be provided</p> <p><b>A score of 0</b> if neither tractor after-market nor parts must be provided</p>
	Tractor registration in practice (efficiency)	Building on the legal indicator with regards to tractor registration, this indicator measures the time and the cost required to register a tractor.	1. Total time to register a tractor	<p><b>Total time required</b> for all legally mandated procedures is aggregated and presented in calendar days</p> <p><b>A score of 0</b> if there is no requirement to register or if the registration is not done in practice</p>
			2. Total cost to register a tractor	<p><b>Total cost</b> for all legally mandated procedures is aggregated and presented in % of income per capita</p> <p><b>A score of 0</b> if there is no requirement to register or if the registration is not done in practice</p>



INDICATOR	SUB-INDICATOR	DESCRIPTION	WHAT IS MEASURED	HOW IT IS SCORED		
<b>TRACTOR TESTING AND STANDARDS</b>	Tractor testing and standards (legal)	This indicator examines national and international tractor standards, the legal framework applicable to testing and the type of approval of tractors, and safety standards.	1. National and/or international tractor standards are used in the country	<p><b>A score of 1</b> if international standards are used</p> <p><b>A score of 0.5</b> if national standards are used</p> <p><b>A score of 0</b> if no standards are used</p>		
			2. If national and/or international tractor standards are used in the country, the following standards are included: <ul style="list-style-type: none"> <li>&gt; operator safety standards</li> <li>&gt; tractor performance standards</li> <li>&gt; engine emission standards</li> </ul>	<p><b>A score of 0.33</b> is assigned to each of the standards that is included.</p> <p><b>A score of 0</b> if none of the three standards are used or there are not national and/or international standards used in the country</p>		
			3. Tractors are required to obtain the type approval before they can be marketed in the country	<p><b>A score of 1</b> if yes</p> <p><b>A score of 0</b> if no</p>		
			4. To obtain the type approval, the following procedures are required: <ul style="list-style-type: none"> <li>&gt; tractor testing in a test laboratory</li> <li>&gt; the issuance of the test report</li> <li>&gt; the publication of the test report</li> </ul>	<p><b>A score of 0.33</b> is assigned to each requirement</p> <p><b>A score of 0</b> if the type approval is not required or it is not done in practice</p>		
			5. The country recognizes the tractor type approvals issued by authorities in other countries	<p><b>A score of 1</b> if yes</p> <p><b>A score of 0</b> if no</p>		
			6. The country recognizes tractor test reports by the tractor manufacturer for the issuance of the type approval	<p><b>A score of 1</b> if yes</p> <p><b>A score of 0</b> if no</p>		
			7. The type approval has unlimited validity provided that the specifications of the tractor do not change	<p><b>A score of 1</b> if yes</p> <p><b>A score of 0.5</b> if limited to five or more years</p> <p><b>A score of 0</b> if less than five years or the type approval is not required</p>		
			8. The national regulations/standards require tractors to be equipped with protective structures, such as roll-over protection (ROPS) structures or falling object protection (FOPS) structures, and seatbelts	<p><b>A score of 1</b> if ROPS or FOPS are required in combination with seatbelts</p> <p><b>A score of 0.33</b> if neither ROPS or FOPS nor seatbelts are required</p> <p><b>A score of 0</b> if ROPS or FOPS are required and seatbelts are not required</p> <p><b>A score of 0</b> if seatbelts are required and ROPS or FOPS are not required</p>		
			Tractor testing in practice (efficiency)	Building on the legal indicator with regards to tractor testing and the type approval, this indicator measures the time and the cost required to test an agricultural tractor and obtain a tractor type approval.	1. Time to obtain the tractor type approval	<p><b>Total time</b> for all legally mandated procedures to obtain the type approval is aggregated and presented in calendar days</p> <p><b>A score of 0</b> if there is no requirement to obtain type approval or if the tractor type approval is not done in practice</p>
					2. Cost to obtain the tractor type approval	<p><b>Total cost</b> for all legally mandated procedures to obtain the type approval in % of income per capita</p> <p><b>A score of 0</b> if there is no requirement to obtain type approval or if the tractor type approval is not done in practice</p>