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Centre for Sustainable Agricultural Mechanization

Agricultural mechanization in Mongolia

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National machinery readiness in 2025

Most machines are ready, with a larger gap in sprayers

Equipment	Registered	Ready	Readiness
Tractors	3,513	3,334	94.9%
Cereal seeders	2,261	2,112	93.4%
Pneumatic seeders*	375	363	96.8%
Sprayers	**481**	**428**	**89.0%**
Grain combines	1,254	1,182	94.3%

*Included in cereal seeders. Pneumatic metering does not establish no-till capability.



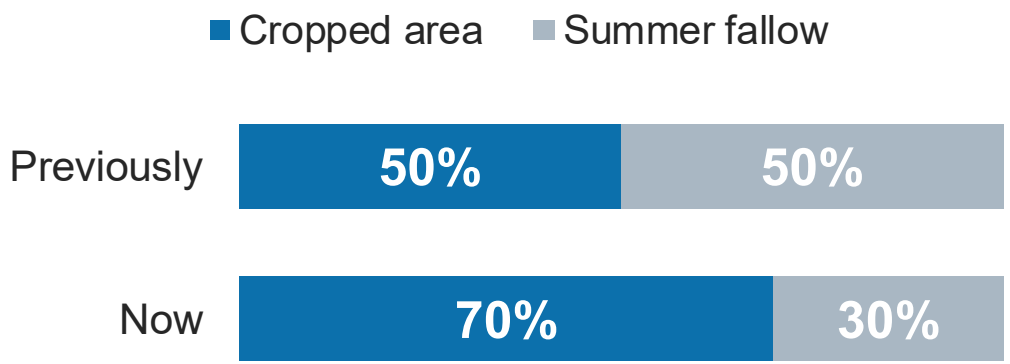
Wheat harvest in Mongolia
Photo: MoFALI

53 sprayers and 149 cereal seeders reported not ready

Source: supplied 2025 workbook. Readiness = ready ÷ registered, recalculated from counts.

Rainfed no-till and reduced tillage

Less summer fallow, greater need for timely seeding



No-till

Seed directly through retained residues



Spring sowing in Selenge. Photo: Unuudur (2022)

Reduced tillage: fewer passes

Crop/fallow shares: presenter's national update.

Crop residue management at harvest



Photo: Metagro, Mongolia

Harvest

Chop straw and spread straw and chaff evenly

Sowing

Seed through residues into moist soil

Resilience

Retain cover to limit evaporation and wind erosion

Harvest settings shape the next crop’s establishment

Opportunities for regional cooperation

Policy recommendation

Policy makers and farmers

Adapt more efficient equipment

Seeders and improve combine residue spreading

Train operators

Calibration, maintenance and field demonstrations



Machinery demonstration in Mongolia
Photo: © UN Mongolia

Field trials should compare establishment, fuel use and cost through dry seasons

THANK YOU

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Rainfed farming with less soil disturbance
and better use of crop residues



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