

GUIDANCE NOTE ON THE WINTER NFI RESPONSE IN SYRIA



2025–2026
WINTER SEASON



SYRIA
SHELTER AND NFI SECTOR
Coordinating Humanitarian Shelter and Settlements

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Abbreviations:

Abbreviation	Definition
ACTED	Agency for Technical Cooperation and Development
AKDN	Aga Khan Development Network
CARE	Cooperative for Assistance and Relief Everywhere
CCCM	Camp Coordination and Camp Management
DCA	Dan Church Aid
DWR	Durable Water Repellent (jacket fabric treatment)
EPDC	St. Ephrem Patriarchal Development Committee
FGD(s)	Focus Group Discussion(s)
HDPE	High-Density Polyethylene
HH / HHs	Household / Households
HLP	Housing, Land and Property
HRP	Humanitarian Response Plan
IASC	Inter-Agency Standing Committee
IDP(s)	Internally Displaced Person(s)
INGO(s)	International Non-Governmental Organization(s)
IOM	International Organization for Migration
ISO	International Organization for Standardization
IYD	International Humanitarian Relief Association
KII(s)	Key Informant Interview(s)
LDPE	Low-Density Polyethylene
NFI	Non-Food Items
NNGO(s)	National Non-Governmental Organization(s)
NRC	Norwegian Refugee Council
ONG	ONG Rescate (RESCATE)
PDM	Post-Distribution Monitoring
PiN	People in Need (humanitarian planning metric)
PIN	People in Need (INGO name)
PP	Polypropylene
SARC	Syrian Arab Red Crescent
SDI	Social Development International
SNFI	Shelter and Non-Food Items (Sector/Cluster)
SYP	Syrian Pound
TSE / TS EN	Turkish Standards Institution / Turkish Standard aligned with European Norm
TWIG	Technical Working Group
UN	United Nations
UNHCR	United Nations High Commissioner for Refugees
UNRWA	United Nations Relief and Works Agency for Palestine Refugees in the Near East
USD	United States Dollar
WASH	Water, Sanitation and Hygiene
WATAN	WATAN Foundation
WSI	Winter Severity Index

Acknowledgements

This document is the result of a comprehensive and collaborative consultation process led by the **Winterization Technical Working Group (TWIG)** under the coordination of the Syria Shelter/NFI Sector.

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1. Introduction

1.1 Purpose

- Provide harmonized operational guidance to Shelter/NFI sector partners implementing winterization activities.
- Ensure timely, effective, and efficient delivery of winter assistance to mitigate risks posed by harsh seasonal conditions.
- Align with the **Global Shelter Cluster Winterization Guidance** and the **2025 Syria Humanitarian Response Plan (HRP)**.
- Review annually to incorporate lessons learned and adapt to operational changes.

1.2 Scope and Applicability

- Applies across Syria, especially in **displacement sites, collective shelters, and returnee areas**.
- Relevant where:
 - Shelter conditions are inadequate.
 - Families lack resources to cope with cold weather.
- Covers **protracted displacement, emergency displacement, and return settings**.
- Seeks to preserve **dignity, health, and safety** through adequate, safe, and culturally appropriate winter support.

1.3 Target Audience

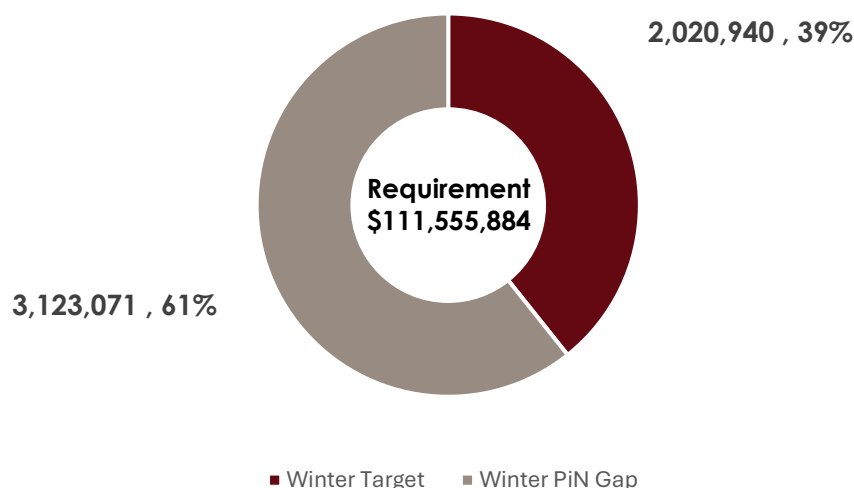
- Humanitarian actors (INGOs, NNGOs, UN agencies, and government stakeholders) engaged in winter NFI planning, distribution, and monitoring.
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2. Winterization Plan 2025–2026: Strategic Overview

The Winterization Plan for the 2025–2026 season provides a consolidated framework for addressing critical winter needs across Syria. It draws on the Winter Severity Index (WSI) and sector partner inputs to define the scale of needs, establish targets, and determine funding requirements.

- **People in Need (PiN):** An estimated **5.14 million** individuals across Syria face heightened vulnerability during the 2025–2026 winter season due to inadequate shelter, insufficient heating resources, and lack of essential NFIs.
- **Target Population:** The Shelter/NFI Sector aims to reach **2.02 million** individuals with prioritized winter assistance, focusing on recently displaced households, returnees in substandard housing, female-headed households, persons with disabilities, and other highly vulnerable groups.
- **Funding Requirement:** To meet the 2025–2026 winterization target, the sector estimates a total funding requirement of approximately **USD 112 million**. This comprises an average of **USD 230 per household package** (in-kind or equivalent cash/voucher value) for the prioritized winter NFI package – including winter clothing, blankets, plastic sheeting, heaters, and heating fuel support – plus associated operational costs (procurement, logistics, storage, and distribution).

People in Need (PiN):	Target Population	Funding Requirement
5.14 million	2.02 million	USD 112 million



3. Key Principles

- **Humanitarian Principles:** Humanity, neutrality, impartiality, independence.
 - **Protection & Accountability:** Gender-sensitive, protection-sensitive, and age-appropriate distribution; prioritize persons with specific needs.
 - **Do No Harm:** Avoid duplication and ensure equitable access.
 - **Coordination:** Ensure complementarity between NFI, shelter, and protection interventions.
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4. Definitions and Terminology

- **Shelter/NFI Cluster:** IASC coordination mechanism for shelter/ NFI response.
 - **IDPs:** Internally Displaced Persons.
 - **Returnees:** IDP or refugee households returning to their areas of origin.
 - **Host families:** Non-IDPs or returnees providing shelter support.
 - **Targeted distribution:** Response limited to vulnerable groups based on set criteria.
 - **Blanket distribution:** Response covering all households in a defined area.
 - **Tailored distribution:** Kits adapted based on family needs (following assessment).
 - **Needs assessment:** Systematic gathering/analysis of information on winter needs, conditions, and capacities.
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5. Winter Severity Index (WSI)

5.1 Methodology

Dimension	Indicator	Weight
Hazard (35%)	Elevation	10%
	Temperature	15%
	Snowfall intensity	3.50%
	Snowfall likelihood	3.50%
	Flood/low-infrastructure exposure	3%
Exposure (25%)	Shelter type	13%
	Camps severity	12%
Vulnerability/Capacity (40%)	Shelter adequacy	16%
	Heating fuel scarcity	12%
	NFI severity	12%

5.2 Scoring

- Indicators scored 1–5 and weighted.
- Calibrated by national and subnational coordinators to reflect field realities.
- Severity scale: 1 (least severe) → 5 (most severe).

5.3 PiN and Target Derivation

- **PiN scaling:**
 - Severity 1-2: 0%
 - Severity 3: 30%
 - Severity 4: 60%
 - Severity 5: 80%
- **Target scaling:** Derived directly from PiN using the same formula.

5.4 Example

A community with:

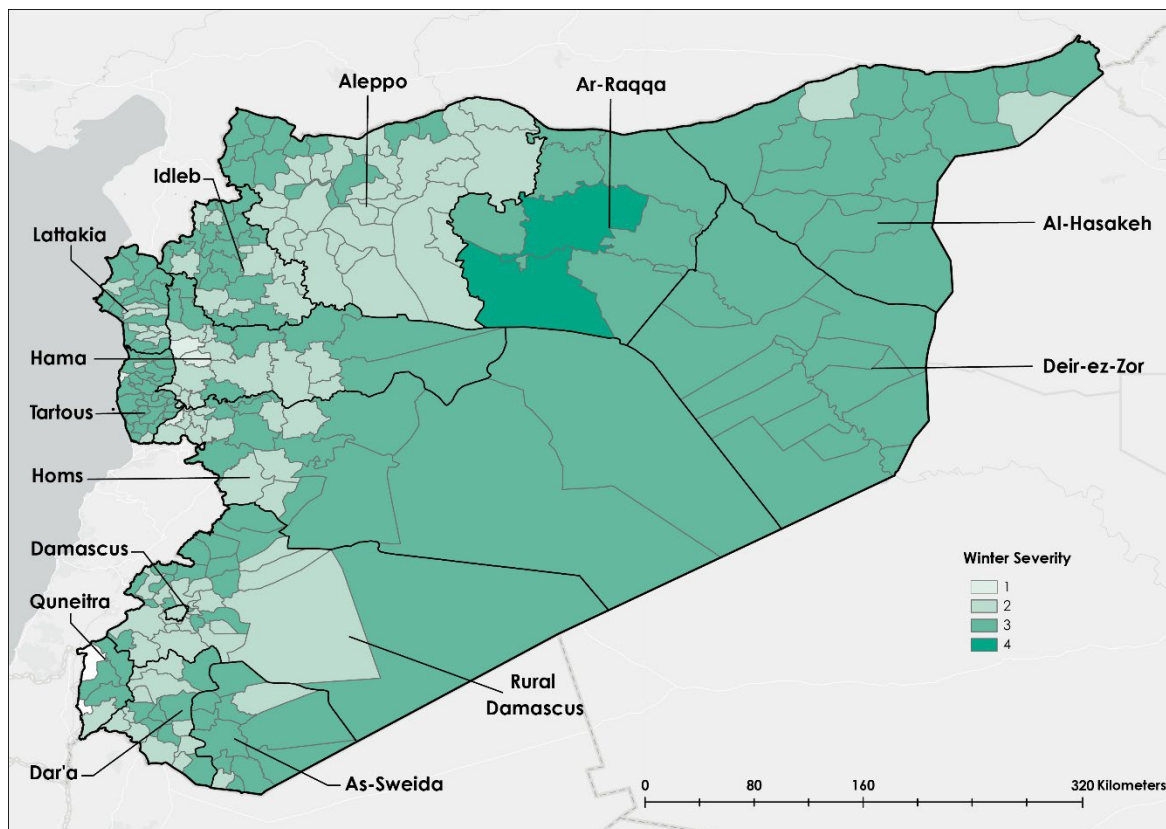
- Shelter type (3 – substandard)
- Temperature (3 – low)
- Snowfall (2 – light)

→ WSI = 3 → 30% of population identified as **Winter PiN**.

5.5 2025–2026 Winterization PiN and Target Highlights

- Total Winterization PiN: 5.14 million individuals
- Top Governorates: Idleb (1.56M), Al-Hasakeh (0.58M), Aleppo (0.57M)
- Winterization Target: 2.02 million individuals

Governorate	Winter PiN	Winter Target
Idleb	1,561,074	711,419
Al-Hasakeh	580,402	258,047
Aleppo	578,970	173,691
Ar-Raqqa	449,865	222,428
Lattakia	394,413	132,370
Deir-ez-Zor	381,906	114,572
Tartous	313,235	103,491
Rural Damascus	248,665	74,599
Homs	184,609	84,608
As-Sweida	178,865	53,660
Dar'a	135,252	40,576
Hama	104,134	40,866
Quneitra	32,621	10,612
Damascus	-	-
Grand Total	5,144,011	2,020,940



Description: This map shows the winter severity per governorates for the winter season plan 2025 – 2026 (Sep, Oct, Nov, Dec, Jan, Feb and Mar) in Syria.

Severity Scale: 1 = non/minimal, 2 = Stress, 3 = Severe, 4 = Extreme & 5 = Critical.

6. Targeting and Prioritization

6.1 Priority Groups

- Returnee households in inadequately repaired or substandard shelters.
- Recently displaced and emergency-affected households.
- Female-headed households.
- Unaccompanied minors.
- Elderly persons.
- Persons with disabilities or chronic illnesses.
- Households in makeshift shelters.
- Vulnerable members of host communities.

7. Winter NFI Assistance Modalities

7.1 In-Kind Assistance

Functional Categories:

Provision of Winter NFIs: The objective of the provision of winter NFIs is directly related to the overarching NFI sector objective, i.e., to provide timely lifesaving and life sustaining NFI support to the most vulnerable to mitigate against the effects of harsh winter conditions.

Category	Objective Achieved Through;	How?
A	Enhancing Ground Insulation	Items support thermal insulation from loss of heat through ground absorption
B	Enhancing Personal Warmth	Items provide and sustain thermal insulation at the individual level
E	Enhancing Shelter Insulation	Items support shelter level insulation (outer surface of shelter or residential unit)
F	Enhancing Living Space Warmth	Items promote heating and increase in ambient temperature in areas of shelter/ residential unit

Classification of Winter NFIs [priority/ supplementary]

Category	Items	Classification of items under priority/supplementary winter NFIs
A	Mattresses	Prioritized
	Sleeping mat	Prioritized
	Carpets	Supplementary
B	Winter clothing kit	Prioritized
	Winter jacket [F/M]	Supplementary
	High thermal blanket	Prioritized
	Sleeping bag	Prioritized
	Rubber boots	Supplementary
	Children winter clothing kit	Supplementary
	Hat, Gloves, Scarves, Socks	Supplementary
E	Plastic sheet	Prioritized
F	heater /fuel	Prioritized

Standardized Kit Composition & Price List

#	Item	Classification of items	Unit Price (USD)	Quantity per HH	Total (USD)
1	Blankets	Prioritized	9.5	5	47.5
2	Plastic sheets	Prioritized	14.75	1	14.75
3	Winter family clothing kit	Prioritized	60	1	60
4	Heater	Prioritized	57	1	57
5	Heating fuel	Prioritized	Variable	1	–
6	Mattresses	Prioritized	21.26	3	63.8
7	Carpet	Supplementary	34.9	1	34.9
8	Children's clothing kit	Supplementary	57	1	57
9	Jackets	Supplementary	12	2	24
10	Boots	Supplementary	7	1	7
11	Hats/ Gloves/ Socks/ Scarves	Supplementary	10	1	10
Total Kit Price		~375			
Prioritized kit Price		243.5			

Note1: Prices are averages across hubs; $\pm 15\%$ variation applies by location.

Note2: heating fuel is not calculated in the above due to variable prices of different heater type.

Note 3: Hats/ Gloves/ Socks/ Scarves are distributed in one package

Note 4: Carpets can be prioritized based on the context and the location of distribution

7.2 Supplementary Kits

- Carpet
- Children's winter clothing kits (by age group).
- Jackets
- Boots
- Socks, hats, scarves, gloves

7.3 Monetization / Cash & Vouchers

- Growing beneficiary preference (per PDM).
 - Viable where markets are functional and accessible.
 - Ensures dignity, choice, and program efficiency.
 - Equivalent value/quality to in-kind kits.
 - Guided by **price monitoring** and **protection analysis**.
 - Recommended for winter clothing (addresses fit and cultural concerns).
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8. Distribution Considerations

Timeline

- Winter response: **1 October – 31 March**.
- Main distributions: late October–January.
- Fuel distributions: extend until March.

Operational Considerations

- Adapted to family size.
- HH assessments preferred; rapid methods (FGDs/KIIs) acceptable in emergencies.
- Blanket distributions allowed in acute emergencies.
- Pre-positioning and contingency stocks recommended.

Monitoring & Reporting

- Monthly reporting via Activity Info.
 - PDM in March/April.
-

9. Technical Standards

Item Specifications

- **Blankets:** 150x200cm, $\geq 2.5\text{kg}$, $\geq 835\text{ g/m}^2$, dark colors only.
- **Plastic sheeting:** 4x6m, 200 g/m^2 , reinforced rims, reflective white coating.
- **Mattresses:** 1.8x0.9x0.1m, polyurethane foam, $\geq 24\text{kg/m}^3$ density.
- **Clothing kits:** Adult and child specifications by size/age.
- **Carpets:** $\geq 6\text{ sqm}$, $\geq 12.6\text{kg}$, PP material, $\geq 1050\text{ g/m}^2$.
- **Heaters & fuel stoves:** With exhaust pipes, elbows, trays. **Kerosene stoves not recommended.**
- **Alternative fuels:** Diesel, firewood, charcoal, olive pit biomass, pistachio shells.

Quality Control

- Measure weight, size, durability, shrinkage.
 - Packaging: durable, waterproof, labeled **"Humanitarian Aid – Not for Sale"** and feedback hotline.
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10. Cash Transfer Values

- Comprehensive package: **USD 230 (SYP 2.53M at Aug 2025 rate).**
 - Includes clothing, blankets, heater, plastic sheeting, fuel.
 - Pegged to official exchange rate at time of distribution.
 - +5% inflation margin to March 2026.
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11. Operational Timeline (Summary)

- **October:** Preparedness & initial distributions.
- **Nov-Jan:** Peak distribution (NFIs, clothing, heaters).
- **Dec-Feb:** Fuel distributions.
- **Mar-Apr:** Post-distribution monitoring.

Annexes

- **Annex 1. Winter NFI-Prioritized/ Supplementary Items – Technical Specifications** (full tables for [Prioritized] blankets, sheeting, mattresses, adult clothing kits in addition to details for clothing. [Supplementary] carpet, children’s winter clothing kits, jackets, boots, socks, hats, scarves, gloves).
 - **Annex 2. Winter Family Clothing Kit – Detailed Components** (jackets, boots, trousers, jumpers, underwear, socks, scarves, hats, gloves, packing).
 - **Annex 3. Cash for Winter Package Breakdown** (narrative + transfer values table + inflation/exchange rate).
 - **Annex 4. Heaters and Accessories – Technical Specifications** (diesel/firewood/pistachio stoves + accessories tables + safety notes).
 - **Annex 5. Maps**
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Annexes

Annex 1. Winter NFI- Technical Specifications

Prioritized items:

1. Blankets

Attribute	Specification
Size	150 x 200 cm (Single)
Quantity per HH	5 singles
Material	Min 60% acrylic and 40% cotton/polyester mixture
Thickness	5-5.5 mm minimum
Color	Preferred assorted dark colors
Shrinkage	Max 5% after 3 consecutive washes at 30°C and one flat drying
Dimension	150 x 200 cm $\pm$ 3%
Weight	Min 835 g/m ² ; Min 2.5 kg $\pm$ 3%
Quality Control	- Measure weight- Measure width, length, thickness- Ensure material uniform, free of defects
Unit Price	9.5 USD
Photo	

2. Plastic Sheeting

Attribute	Specification
Size	4 x 6 m
Quantity per HH	2
Material	Woven HDPE black fibers laminated both sides with LDPE
Reinforcement	Heat-sealed reinforced rims on all sides
Resistance	-20°C to +80°C
Eyelets	Aluminum/equivalent, spaced 100 cm $\pm$ 5cm on all 4 sides
Weight	200 g/m ² $\pm$ 5% (total 4800g $\pm$ 5%)
Color	White reflective both sides with grey bands; inner black fibers with opacity
Quality Control	- Open & check color uniformity (no fluctuation)- Weigh: 4560-5040g- Measure length & width (3 points: 3.96-4.04m)- Scratch coating: yarn must be black in both warp & weft (light grey not accepted)
Unit Price	14.75 USD
Photo	

3. Mattresses

Attribute	Specification
Size	1.8 x 0.9 x 0.1 m (Single)
Quantity per HH	5 singles
Material	Polyurethane closed cell hard grey foam, virgin or recycled raw material (no fillers e.g. CaCO ₃)
Density	Min 24 kg/m ³ ($\pm$ 2%)
Weight	Min 3.56 kg
Load Deflection	Min 16 kg
Cover	Removable, zippered, cotton/poly canvas $\geq$ 180 g/m ²
Dimension	1.8 x 0.9 x 0.1 m (area 1.62 m ²)
Quality Control	- Measure weight- Measure width, length, thickness- Check uniformity of foam- Verify cover size & zip function
Unit Price	21.26 USD
Photo	

4. Winter Clothing Kit – Adults

Item	Specification
Women Thermal Fleece Sweater (M/L/XL)	Colors: dark/neutral (no bright) Style: casual, round neck, long sleeve Fabric: fleece, 80% cotton / 20% polyester (±5%) Weight: ≥340 gsm Washing: cold water
Women Thermal Underpants (M/L/XL)	100% cotton, double knitted Length: 93/95/97 cm Weight: –
Women Underwear (M/L/XL)	100% cotton, double knitted Weight: 80 g
Men Thermal Fleece Sweater (M/L/XL)	Same specs as women's sweater
Men Thermal Underpants (M/L/XL)	100% cotton, double knitted Length: 94/98/102 cm Weight: 150/165/180 g (min)
Photo	

4.1 Winter Clothing Kit – Adults [details]

Trousers / Sweatpants

Attribute	Specification
Sizes	Adults: S/M/L/XL; Children: 2-16 (S/M/L)
Fabric	100% cotton OR 65% cotton / 35% polyester
Weight	≥250 g/m ²
Features	Comfortable, well-stitched, 2 side pockets, 1 back pocket: elastic waistband for children
Cuffs	Sewn leg cuff, no dropped stitches
Quality	No frayed threads, no recycled material
Packaging	Waterproof, durable plastic bags
Photo	

Jumper / Sweatshirt

Attribute	Specification
Sizes	Adults: S/M/L/XL; Children: 2-16 (S/M/L)
Fabric	100% cotton OR 65% cotton / 35% polyester
Weight	≥250 g/m ²
Design	Crew neck, long sleeve
Finishing	Elastic bond on sleeves & neck edges
Quality	No frayed threads, no recycled fabric
Packaging	Waterproof, durable plastic bags
Photo	

Note: Heaters/ fuel/ heaters accessories are added below in a separate annex

Supplementary items:

1. Carpet

Attribute	Specification
Size	200 x 300 cm (6 m ²)
Quantity per HH	1
Material	Polypropylene (PP)
Finish	Short sides: folded hem with 40 mm binding tape (≥ 10 g/m) OR double folded stitched hem; all sides trimmed
Weight	≥ 1050 g/m ² ; total ≥ 12.6 kg
Yarn Thickness	≥ 600 dtex
Filament Number	≥ 72 trilobal
Strength	1.8-3 gr/dtex
Stitch Number	25-30 per meter
Knot Height	9 mm
Sequence	1600 knots/dm ²
Color	Assorted neutral designs
Quality Control	- Measure weight- Measure width, length, thickness- Ensure uniform material, no defects
Photo	

2. Jackets

Attribute	Specification
Sizes	Adults: S/M/L/XL; Children: 2-16 years (S/M/L)
Outer Fabric	100% polyester, waterproof (≥ 65 g/m ²), resistant to 10,000 mm water column (Hydrostatic Head Test, Gore-Tex/DWR equivalent)
Insulation	100% polyester fiber, ≥ 100 g/m ²
Inner Lining	100% polyester, ≥ 300 g/m ² plush/polar fleece
Hood	Stitched, same fabric as jacket
Zipper	High quality with metal cap/handle; full-zip hooded, storm flap
Sleeves	Elastic bond at 7-10 cm to prevent airflow
Pockets	2 outer pockets, 1 inner pocket
Quality	No dropped stitches, seams tight
Color	Dark preferred; recycled materials not accepted
Standards	Must comply with TSE or ISO
Packaging	Each jacket packed in waterproof, durable plastic bag
Photo	

3. Children Clothing Kit

Age Group	Item	Specification
Infants (0-2 years)	Clothing Set (incl. hat)	Cotton, double knitted; overall length: 60 cm; sleeve: 28 cm; hat width: 16 cm; tolerance: $\pm 2\%$
	Fabric	100% cotton yarn, internal double knitted (1/30 yarn count)
3-5 years	Fleece Sweater	Shoulder: 30-33 cm; Length: 41-44 cm; Sleeve: 34-38 cm; Bust: 74-80 cm; Weight: ≥ 300 g
	Socks	$\geq 80\%$ cotton, 20% polyester/elastane Length: 15 cm $\pm 5\%$ Weight: 23 g $\pm 2\%$ Acrylic yarn, double layered Anti-carcinogen/anti-allergic
	Hat	Acrylic yarn (2/27), double knit Length: 18 cm Width: 15 cm Weight: 53 g
6-9 years	Fleece Sweater	Shoulder: 36-40 cm; Length: 48-52 cm; Sleeve: 43-46 cm; Bust: 86-91 cm; Weight: ≥ 350 g
	Socks	Same spec, 18 cm length, 26 g $\pm 2\%$
	Hat	Acrylic yarn; Length: 19 cm; Width: 16 cm; Weight: 60 g
10-13 years	Fleece Sweater	Shoulder: 41-45 cm; Length: 53-58 cm; Sleeve: 47-51 cm; Bust: 92-100 cm; Weight: ≥ 400 g
	Socks	Same spec, 21 cm length, 29 g $\pm 2\%$
	Hat	Acrylic yarn; Length: 22 cm; Width: 17 cm; Weight: 72 g
Photo		

4. Boots

Attribute	Specification
Sizes	Adults: 36-44; Children: 2-16 years
Material	Waterproof faux leather or rubber (TS EN 13073 compliant)
Liner	Breathable waterproof liner (ISO 22649:2016 compliant)
Sole	Non-slip, lugged outsole; compliant with TSE 5553
Health	Anti-carcinogenic, anti-allergic materials
Inner Sole	Plush ≥ 200 g/m ²
Height	Above ankle, lace-up
Color	Dark preferred
Packaging	Durable package per pair
Photo	 

5. Socks

Attribute	Specification
Sizes	Adults: 35-38, 38-42, 42-46; Children: 2-16 years
Material	100% acrylic OR 70% cotton, 29% polyamide, 1% elastane
Style	Winter socks, plush inner loop for warmth
Length	Adults: 35-46 sizes; Children: up to calf (15-21 cm $\pm$ 5%)
Colors	Solid, no white/light
Health	Anti-carcinogen, anti-allergic
Quality	Reinforced seams, cuffed elastic sleeves
Packaging	Waterproof, durable plastic bags
Photo	

6. Scarves

Attribute	Specification
Sizes	Adults: $\geq 160 \times 15$ cm; Children: $\geq 130 \times 15$ cm
Material	100% acrylic knitted
Colors	Solid (no white/light)
Quality	Must withstand washing, no recycled fabrics
Packaging	Waterproof, durable plastic bags
Photo	

7. Hats

Attribute	Specification
Sizes	Adults: S/M/L/XL; Children: 2-16 years (S/M/L)
Material	100% acrylic, double-folded, lined
Features	Covers ears, fully insulates head
Colors	Solid (no white/light)
Quality	Knitted, no recycled materials
Packaging	Waterproof, durable plastic bags
Photo	

8. Gloves

Attribute	Specification
Sizes	Adults: S/M/L/XL; Children: S/M/L
Material	Water/wind-resistant fabric
Padding	Top of hand: 150 g loft wadding; Underside: 200 g brushed lining
Features	Durable, stitched properly
Colors	Various accepted
Quality	No recycled fabrics
Packaging	Waterproof, durable plastic bags
Photo	

Packing of Kits

Attribute	Specification
Contents	9 core clothing items (1 of each)
Packaging	Heavy-duty stitched sack
Printing	Contents list (items, sizes, quantities) in English + Arabic
Labeling	"Humanitarian Aid - Not for Sale" + Beneficiary Hotline
Transport	10 kits packed in outer durable sack for delivery/warehousing

Annex 2. Cash for Winter Package Breakdown

1. Rationale for Cash-Based Winter Assistance

Beneficiary Preference: Post-Distribution Monitoring (PDM) repeatedly shows households prefer cash or voucher assistance for winter NFIs, especially clothing, as it allows for appropriate sizing, cultural fit, and personal choice.

Market Functionality: In most Syrian urban and semi-urban areas, markets are functioning and can absorb winter demand if distributions are phased. In hard-to-reach areas, hybrid modalities (partial in-kind + cash/voucher) are recommended.

Efficiency & Dignity: Cash assistance reduces logistics costs, enables timely delivery, and restores dignity and agency to households.

Equivalence Principle: Cash values must be set to reflect the in-kind kit composition to ensure households are not disadvantaged.

2. Cash Transfer Value Calculation

Package Components (based on standard winter kit):

Component	
Winter family clothing kit	
High thermal blankets	
Plastic sheet	
Heater	
Fuel	
Total Comprehensive Package	\$230

This amount is intended for seasonal winter-specific needs. It **shall not be** divided by individual items (e.g., fuel-only assistance).

Where a partner provides partial winter support, cash should complement in-kind assistance to ensure comprehensive and equitable coverage.

3.Exchange Rate & Inflation Adjustments

Parameter	Guidance
Exchange Rate	Transfer value pegged to official exchange rate at the day of disbursement (to avoid parallel market volatility). Current rate (Aug 2025): 1 USD = 11,055 SYP.
Inflation Margin	A +5% buffer is included in the transfer value to account for inflation up to March 2026 (validity period of this guidance). This aligns with national inflation averages observed in past years.
Monitoring	Continuous market monitoring is required to ensure value parity with in-kind kits. If significant price hikes occur ($\geq 10\%$), partners should request an updated transfer value.

4. Delivery Modalities

Unconditional Cash: For markets with wide availability of NFIs.

Restricted Cash / Vouchers: Recommended for clothing to ensure purchase of appropriate items.

Hybrid Approach: Partial in-kind (heaters, blankets) + restricted cash (clothing).

5. Risk Mitigation

Ensure households in remote/isolated areas have market access before cash distributions.

Strengthen complaints and feedback mechanisms to monitor misuse of funds.

Distribute awareness brochures on safe use of heaters/fuels purchased via cash.

Annex 3. Heaters and Accessories – Technical Specifications

Fuel Type and Duration:

Diesel remain the primary recommended fuel for winterization assistance. Kerosene is no longer recommended due to safety and efficiency concerns.

Where locally appropriate, pistachio shells, firewood, and biomass may be used as context-specific alternatives.

Standard Consumption:

A reference standard of 4 liters of diesel per household per day is recommended, calculated for a duration ranging between 40 days (minimum) and 3 months (maximum), depending on winter severity, shelter insulation, household size, and available funding.

Do No Harm Principle:

Large-scale cash-for-fuel interventions should apply market monitoring and risk mitigation measures to avoid distortion of local markets and ensure equitable access.

1. Diesel Heater

Attribute	Specification
Estimated Price	57 USD
Fuel	Diesel
Total Weight	7,400 g
Sheet Thickness	0.5 mm
Porcelain Thickness	0.4 mm (good quality)
Shirt Diameter	23 cm
Total Diameter	27 cm
Height	62.5 cm
Aluminum Weight	1.8 kg
Tank	Diesel tank, 0.5 mm thickness, with float valve
Structure	Large aluminum strap; tipper and cover made of cast iron
Accessories	Exhaust pipes (3), elbows (2), protective tray
Notes	Manufactured to operate with diesel fuel, 1 stove per HH; price includes accessories
Photo	

2. Biomass Heater

Attribute	Specification
Estimated Price	100 USD (varies)
Fuel	Biomass Bio-wood
Height	60-70 cm
Width	30-54 cm
Diameter	34-50 cm (front door to back)
Weight	≥30 kg
Interior	Lined with firebricks
Doors	2 front doors - one for operation, one for cleaning
Lower Section	Special tray for ash collection
Top	Cast iron
Accessories	Exhaust pipes (5), elbow (1), shielding floor tray
Notes	Multifunctional, culturally accepted; cylinder shape preferable per PDMs; price includes accessories
Photo	

3.Pistachio Shell Stove

Attribute	Specification
Estimated Price	100-130 USD
Fuel	Pistachio shells (biomass)
Stove Body	Modified traditional fuel stove with side opening
Interior	Firebricks lining preferred
Doors	Top door (flame control/maintenance); Bottom door (ash cleaning with tray)
Storage & Feed System	Trapezoidal tank, top-loading, with motorized spiral feed
Feed Adjustment	Timer-controlled motor allows adjustment based on conditions
Dimensions	Height: 60-80 cm; Storage width: 30-40 cm
Combustion Unit	Diameter: 25-30 cm
Weight	25-35 kg
Total Diameter	40-50 cm
Accessories	5 pipes, 2-3 elbows
Notes	Locally manufactured and available; price includes accessories
Photo	

Heater Accessories – Exhaust Pipes, Elbows, Trays

a) Diesel Heater Accessories

Attribute	Specification
Pipes	3 pipes per HH; 78-80 cm length; 10.5 cm diameter; ≥ 0.4 mm thickness; porcelain coated (brown/black)
Elbows	2 elbows per HH; 90° angle; 10.5 cm diameter; porcelain coated
Tray	1 under-stove tray per HH, porcelain coated, matching size

b) Bio-wood Heater Accessories

Attribute	Specification
Pipes	5 pipes per HH; 65-68 cm length; 12-13 cm diameter; ~800 g each; coated against peeling
Elbow	1 elbow per HH; 43 cm length; 12-13 cm diameter; 90° angle; ~450 g
Tray	Shielding floor tray, 60x50x5.5 cm; 5.5 kg; iron sheets to isolate heat

c) Pistachio Shell Stove Accessories

Attribute	Specification
Pipes	5 pipes per HH; 50-70 cm length; 10-13 cm diameter; 700-800 g each; anti-peel coating
Elbows	2-3 per HH; 25-40 cm length; 10-13 cm diameter; 90° angle; 400-500 g
Notes	Larger diameter pipes required than for diesel stoves

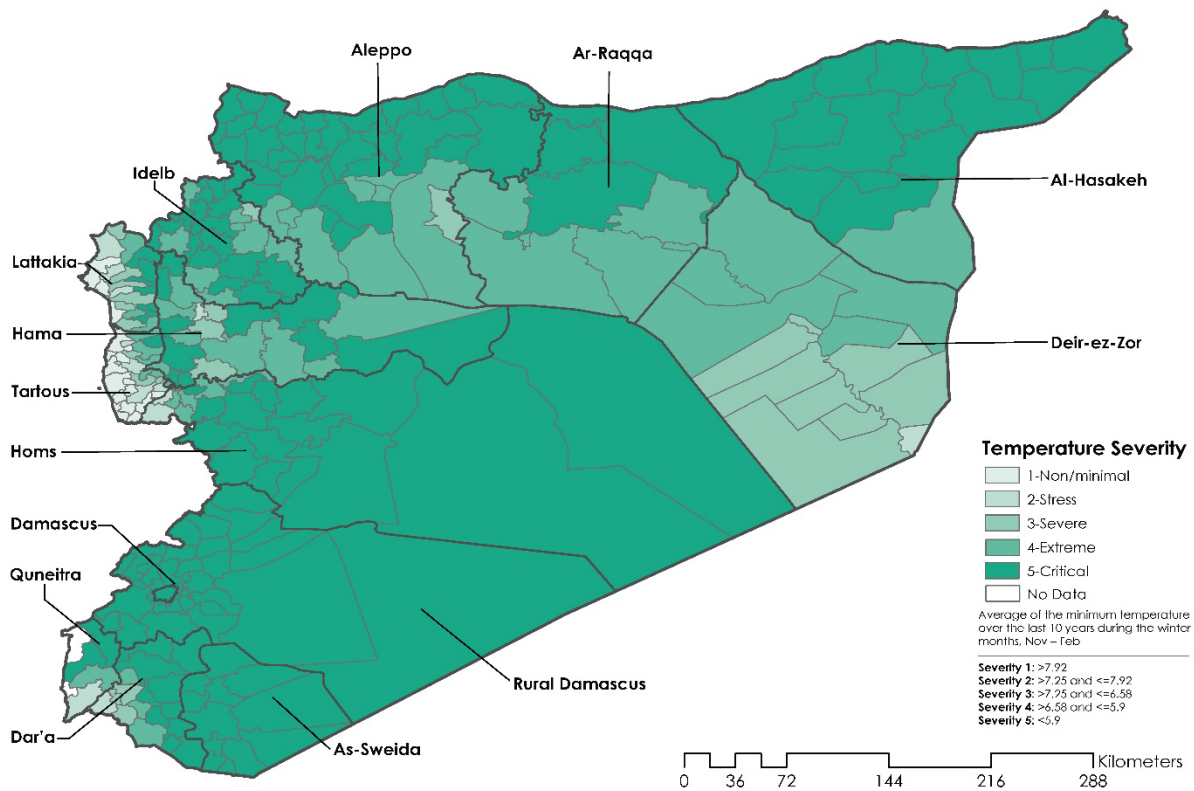
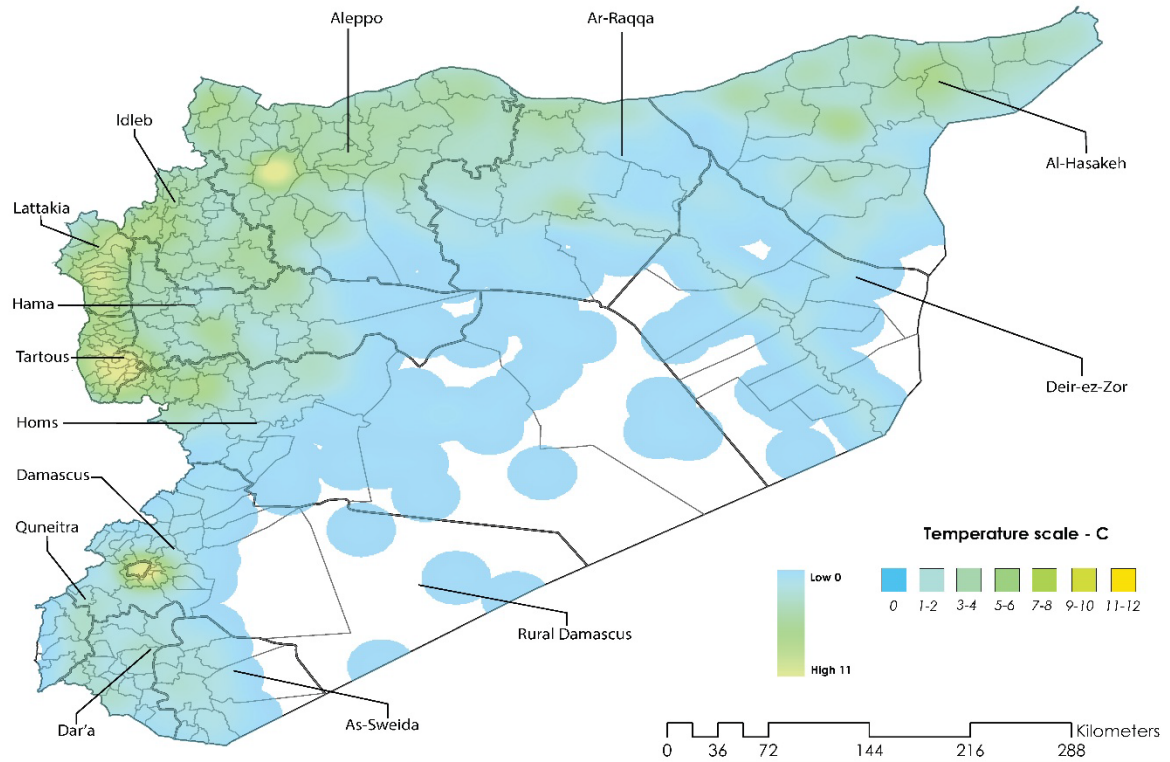
Fuel Type	Average Unit Price (USD/L or kg)	Standard Daily Quantity	Duration	Estimated Total (USD/H)	Notes
Diesel	1 / L	4 L / day	40-90 days	168-378	Primary recommended fuel; verify supplier quality
Pistachio Shells	0.45 / kg	6 kg / day	40-90 days	108-243	Locally available; low emission option
Biomass Briquettes	0.55 / kg	5 kg / day	40-90 days	110-248	Environmentally friendly; locally produced
Firewood	0.40 / kg	7 kg / day	40-90 days	112-245	For rural areas, ensure sustainable sourcing

4. Annex. Maps

Temperature

Winterization 2025-26

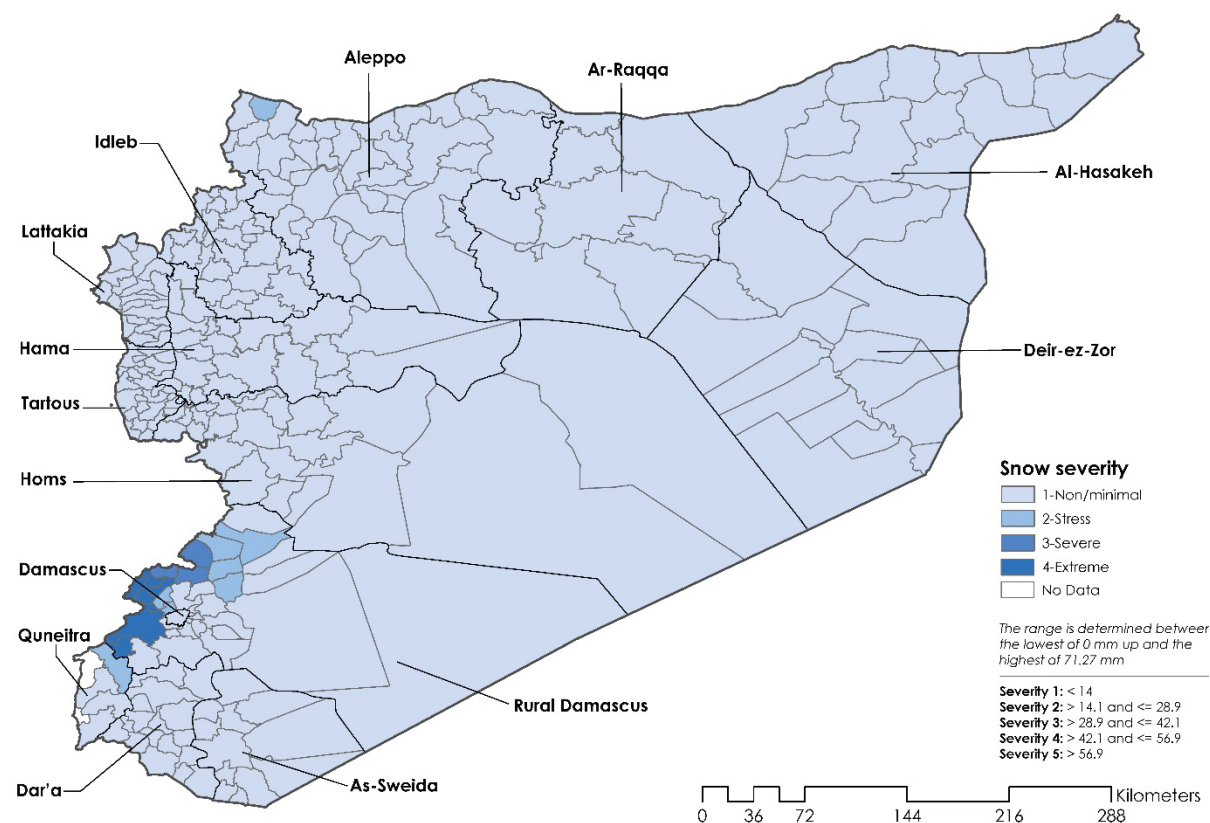
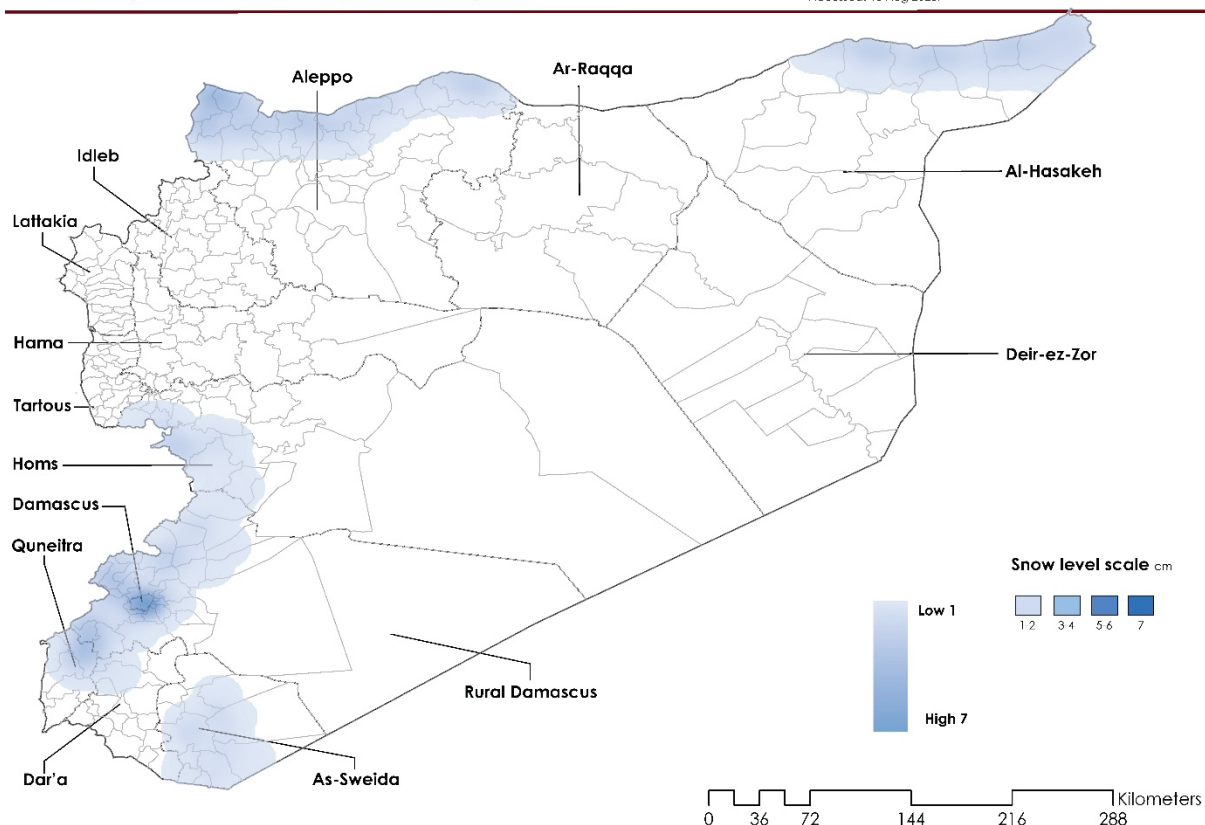
Temperature (10-winter average of daily minimum 2 m air temperature, Nov-Feb) Source: ERA5-Land reanalysis (Copernicus Climate Change Service / ECMWF), variable temperature_2m_min. Accessed via Google Earth Engine dataset ECWVF/ERA5_LAND/DAILY_AGGR. Accessed: 13 Aug 2025.



Snow

Winterization 2025-26

Snow mm (10-winter intensity; mm SWE per winter)
 Source: FRAS-I and (C3S/FCMWF); variable snowfall_sum (m SWF/day).
 Accessed via LCMW/LRAS_LAND/DAILY_ACCR in Google Earth Engine.
 Accessed: 13 Aug 2025.



5. Safety Notes

Kerosene stoves are not recommended due to high fire risk.

All stoves must be distributed with safety brochures covering safe installation, use, and ventilation.

Exhaust pipes and trays must always be provided with stoves to prevent indoor air pollution and fire hazards.

Prioritize locally manufactured biomass/pistachio stoves where accepted, as they are cost-effective and culturally appropriate.