



Food and Agriculture
Organization of the
United Nations

National updates on soil: Syrian Arab Republic

*Dr. Muhammad Manhal Al-Zoubi,
General Commission For Scientific Agricultural
Research-GCSAR*

7th NENA Soil Partnership Meeting

22-23 March 2022

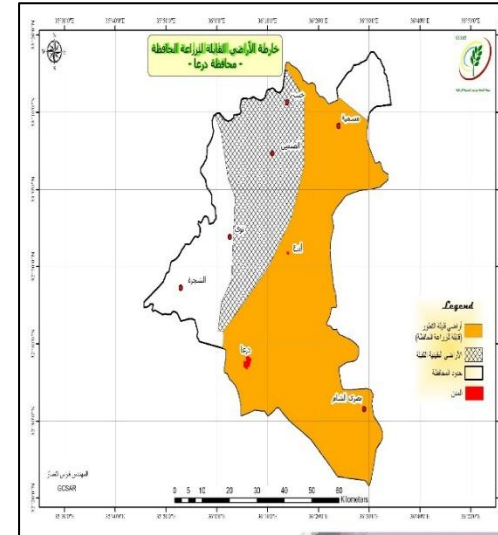


Main activities implemented under Pillar 1



1. Implementing several researches that focus on soil health and study the role of Organic carbon in soil.

2. Preparing for the National map of SOC and Cseq Map in coordination with ACSAD



3. Producing maps of Suitable areas for conservation agriculture



4. Implementing new methods for strategic crops : Raise bed agriculture



5. Rehabilitation of laser leveling machines for better efficiency



6. Producing a manual of fertilizing and fertilizers, methods of irrigation...etc



Main activities implemented under Pillar 2



1. Training with FAOSY on Natural resource assessment



2. Training on most important topics related to soil: Soil erosion, SOC and Cseq , Soil pollution, recycling of Organic wastes



3. World soil day : workshop in association with national and international organizations: 2021 with ACSAD

4. Helping in preparing several Policy briefs with GSP.



5. Preparing to implement soil Doctor



Main activities implemented under Pillar 3



1. Implementing new researches about some Syrian Halophytes



2. Implementing new researches to evaluate the change in soil salinity and produce the F factors for Syrian soils for soil EC obtained by different methods.



INSAS



GLOBAL SOIL
PARTNERSHIP

Optimum and Sustainable management of soil
under climate change conditions
(Syrian Case Study)

Presenter

Dr. Riham Zahalan

General Commission for Scientific Agricultural Research GCSAR
Administration of Natural Resource Research



6-WP TALKS

**Actions on sustainable soil management in the
Near East and North Africa**

18 February 2021

NA Soil Partnership Meeting | 22-23 March 2022



Main activities implemented under Pillar 4

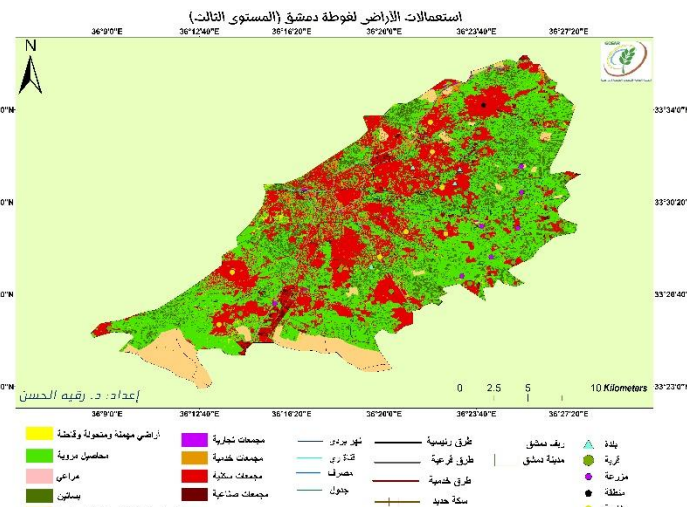
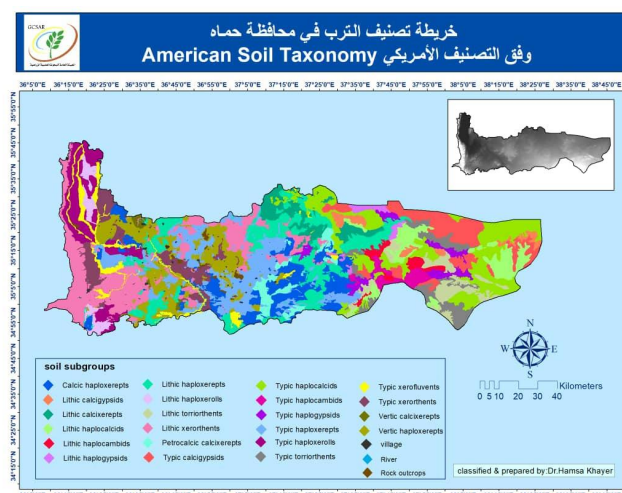


1. Finishing a pre-estimation of gaps, challenges and required steps to build a national soil information system in Syria with the assistance of remote sensing.

رقم متسلسل	اسم الجهاز	الشركة المصنعة	الطران	الرقم التسلسلي	مستثمر
1	رجاج رحوي سعة 40 عينة	Gerhardt Bonn	Gerhardt	470863	مستثمر
2	رجاج رحوي سعة 20 عينة	IKA-WERK	KS500	244534	مستثمر
3	Microwave Reaction System	Anton Paar	Multiwave 3000	ع	مستثمر
4	المرمدة	LENTON THERMAL DESIGNS LTD	Lenton FURNACES	ع	مستثمر
5	فرن مخبري تجفيف العينات و الأدوات	854 Schwabach	memmert	ع	مستثمر
6	ميزان نص حساس رقمين بعد الفاصلة	METTLER INSTRUMENTE AG	METTLER	ع	مستثمر
7	ميزان نص حساس رقمين بعد الفاصلة	BEL	L 2202	ITA1800539	مستثمر
8	ميزان حساس اربع ارقام بعد الفاصلة	Sartorius	Entris	34010175	مستثمر
9	جهاز تقطير حراري ثنائي	SANYO Gallenkamp PLC	WSC008.MH3.4	L-9809044	مستثمر
10	جهاز تقطير رزيني	Aquamatch	730	10604	مستثمر
11	جهاز هضم عينات	VELP SCIENTIFICA	VELP SCIENTIFICA	189131	مستثمر
12	جهاز هضم عينات	Atecafor Perstorp Analytical Company	2040 Digestor	ع	مستثمر
13	سخانة مخبرية مع محرك مغناطسي	Clifton	C/STIR	1061	مستثمر

القائمة الرئيسية للعاملين : Staff Members Master List						
اسم المخبر	تحليل التربة و الأسمدة في دمشق	تاريخ الميلاد	الاسم والكنية	الشهادة	تاريخ الحصول على الشهادة	الموقع الذي يشغله
1	عادة نعمة	1963	علاء نعمة	علوم طبيعية (كيمياء حيوية)	1985	رئيس قسم
2	هادي نصر الله	1976	هادي نصر الله	ماجستير هندسة زراعية	2003	رئيس مخبر
3	سها خورشيد	1968	سها خورشيد	هندسة زراعية	1992	رئيس مخبر الأسمدة
4	ندى عيبة	1969	ندى عيبة	كيمياء تطبيقية	1992	رئيس دائرة ضبط الجودة
5	أمل أبو خروب	1968	أمل أبو خروب	هندسة زراعية	1994	محلل
6	صباح كراجة	1967	صباح كراجة	هندسة زراعية	1994	محلل
7	محمد زينب	1982	محمد زينب	ماجستير هندسة زراعية	2005	محلل
8	براءة شاهين	1987	براءة شاهين	ماجستير هندسة زراعية	2012	محلل
9	رائد ابراهيم	1983	رائد ابراهيم	علوم جيولوجية (تطبيقية)	2010	محلل
10	صفا المصري	1966	صفا المصري	مساعد محاضر بالعلوم الزراعية	1987	محلل
11	حنان عبود	1972	حنان عبود	مساعد محاضر بالعلوم الزراعية	1992	محلل

2. Identify the priorities and started the work on : soil maps of classification and landuse



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Main activities implemented under Pillar 5

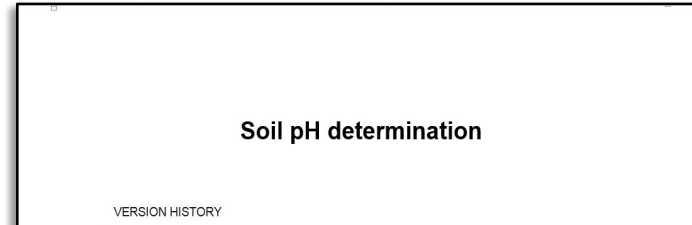


Contributing in the harmonization of several methods (SOPs), as labs or members of working groups.

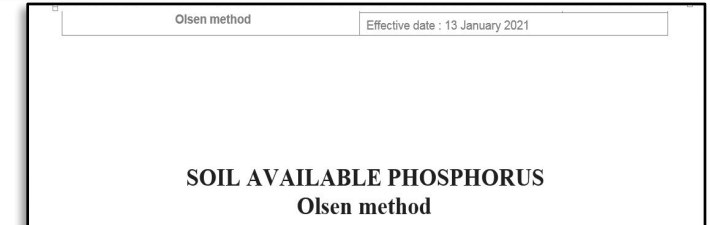
Sample Condition (disturbed or undisturbed)	Core sampler size	Volume of sample	Equipment	Fresh Sample	Oven Drying time	Oven-dried sample	Computation	Report unit	Quality Cd Measure
Undisturbed	d= 4.2 cm h=5.5 cm	100 cm ³	1. Drying oven 2. weighing balance 3. desiccator	Weighing of undisturbed sample before oven-drying	24 hours	Weighing of oven-dried undisturbed sample	Bulk Density = $\frac{\text{Dry Soil Weight (g)}}{\text{Volume of core (cm}^3\text{)}}$	g/cm ³	1. Control 2. Practice Test
Provides the same information: the volume of the sample to be taken.		I think that the characteristics of the oven and the balance should be detailed. For example: Oven to dry at 100 °C ± 5°C. Balance, with an appreciation of 0.001 g.		This weighing is necessary if we are going to measure humidity on the same sample, otherwise, dry weight is sufficient.					



Translation of several SOPs into Arabic.



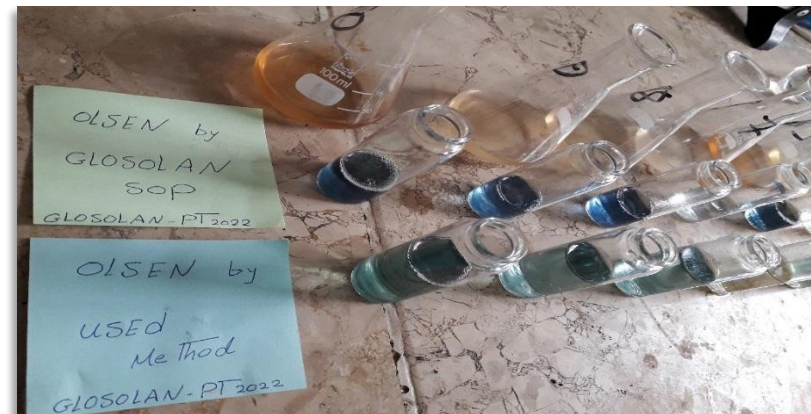
تاريخ النفاذ : 11 يناير - شباط 2021		تقدير حموضة التربة - pH	
تقدير حموضة للتربة			
سجل الإصدار			
نوع التعديل	وصف التعديل	تاريخ	الرقم
الانتهاء من طرائق العمل القياسية	تمت معالجة جميع التعليقات على مسودة طرائق العمل القياسية (SOP) من شبكات مختبرات التربة الإقليمية - RESOLAN ومن المراجعين.	11 شباط 2021	01
			02



فوسفور التربة المتاح طريقة أولسن		سجل الإصدار	
نوع التعديل	وصف التعديل	تاريخ	الرقم
الانتهاء من طرائق العمل القياسية	تمت معالجة جميع التعليقات على مسودة طرائق العمل القياسية (SOP) من شبكات مختبرات التربة الإقليمية - RESOLAN ومن المراجعين.	11 كانون ثاني 2021	01
			02



Implementing of new methods or SOPs harmonized by GLOSOLAN in Syrian Labs and adopted some of them, such as Olsen.



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Global Soil Partnership

Overview Partners Regional partnerships ITPS Technical networks Areas of work Resources

Publications Multimedia Communication material Soil Doctor posters Photo galleries GSP Events Archive Highlights Archive

SESSION 2: Webinar on the implementation of the standard operating procedure for saturated soil paste extract

9 November 2021-in ENGLISH | 10 AM CET

Keywords: Wet chemistry | GLOSLOAN | Capacity development

21 November 2021 in ARABIC | 10:00 AM CET

Guest speakers: Marija Romić (Faculty of Agriculture, University of Zagreb, Croatia), Riham Zahalan (General Commission for Scientific Agricultural Research- GCSAR, Syria), Muhammad Manhal Al-Zoubi (Natural Resources Research Administration (ANRR), Syria)

Abstract: This webinar presents the standard operating procedure for saturated soil paste extract published by GLOSLOAN in 2021. The lecturers will provide an insight of the procedure, describing each step of the measurement, from sample preparation to quality assurance and control. Participants will have the chance to raise questions and directly interact with the speakers in a Q&A session at the end of the presentation.

[Details of the event](#) | [Presentation](#) | [Recordings](#)

21 November 2021 in ARABIC | 10:00 AM CET

[Details of the event](#) | [Presentation](#)



STANDARD OPERATING PROCEDURE FOR SOIL ELECTRICAL CONDUCTIVITY (SOIL/WATER, 1:5)



Implementing training sessions of some produced SOPs such as Soil EC by different methods (soil Extract 1:5 and saturated paste) with other colleagues in GSP and preparing for more.



Training on produced SOPs by GSP in the Syrian labs, and simple maintenance

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International proficiency test

6 of 10 Syrian labs contributed in the PT



Level 1 - 2020



National proficiency test

Syria IAEA

Level 1 - 2021



Level 2 – 2022: Will take place in the next month

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Progress in establishing the Syrian NASOLAN of soil laboratories



<i>steps</i>	<i>activity</i>	<i>Statue</i>
Step 1	Contacting other soil laboratories in Syria that already registered in GLOSOLAN	Done
Step 2	Identify soil laboratories that are not registered in GLOSOLAN , and encourage them to register	Done (soil lab of GORS)
Step 3	Advertise GLOSOLAN, RESOLAN and NASOLAN at national international events.	Done
Step 4	Look at already existing networks, associations and federations grouping soil laboratories at Syria level	Done
Step 5	Organize the first meeting	Under progress
Step 6	Mobilize financial resources	
Step 7	Implement activities	
Step 8	Organize regular NASOLAN meeting	



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*Thanks for your
attention*

**7th NENA Soil
Partnership
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