PLANTAFIT hatása – paprika, paradicsom, búza és fikusz fejlődésére

Mátyás Tibor geokémikus
Geoproduct KFT.

Zeolitok nyomelem tartalma

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte	Nd	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tl	Tm	U	V	W	Y
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.5	0.01	0.05	5	1	0.5
RB19003		17.2	3.79	29.3	4.54	1	126.0	0.4	0.60	5.73	<0.5	0.26	1.06	23	3	18.0
RB19004		30.2	7.86	151.5	6.38	4	32.2	1.3	0.79	12.05	<0.5	0.42	2.52	91	18	27.4
RB19005		29.4	7.58	143.0	6.39	5	34.1	1.5	0.83	11.95	<0.5	0.44	2.51	91	54	28.1
RB19006		38.9	10.15	72.2	8.01	3	30.3	1.5	0.93	19.65	<0.5	0.48	3.61	47	104	30.1
RB19007		7.3	1.84	4.9	2.29	8	24.1	0.4	0.46	3.95	<0.5	0.24	1.19	32	1	16.7
RB19008		36.6	9.64	40.4	6.94	9	13.3	1.5	0.52	14.55	<0.5	0.23	2.82	84	34	13.3

Pácolás = beitatás savakkal és só-oldatokkal

- A pácolás hatása: a kristályszerkezet „meglazul” , a kationok mobilissé válnak
- A nyomelemek hozzáférhetősége javul a növény számára

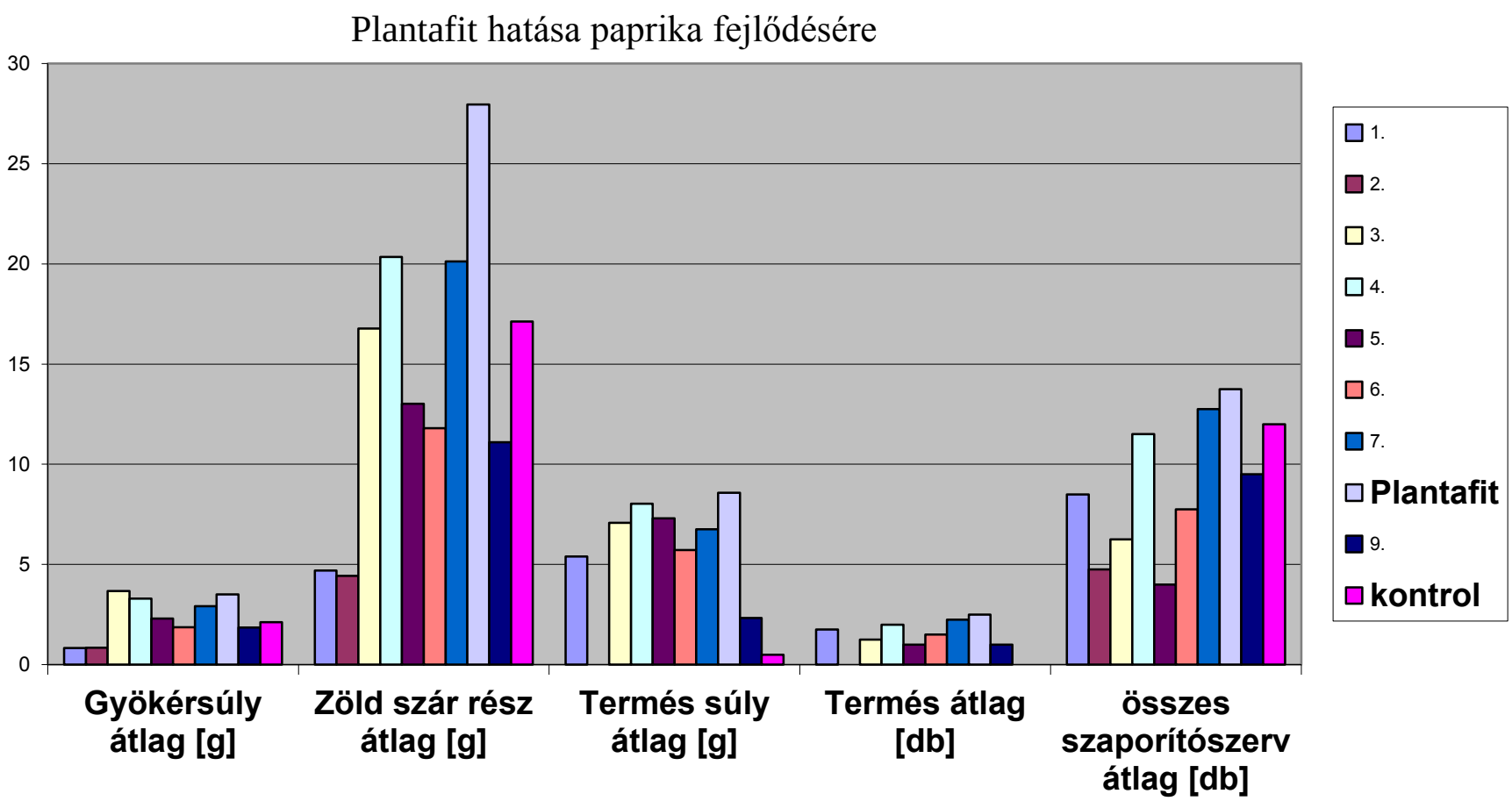
- Kérdés, - mely pácolási mód a legelőnyösebb ???

Különböző pácolási receptek összeállítása

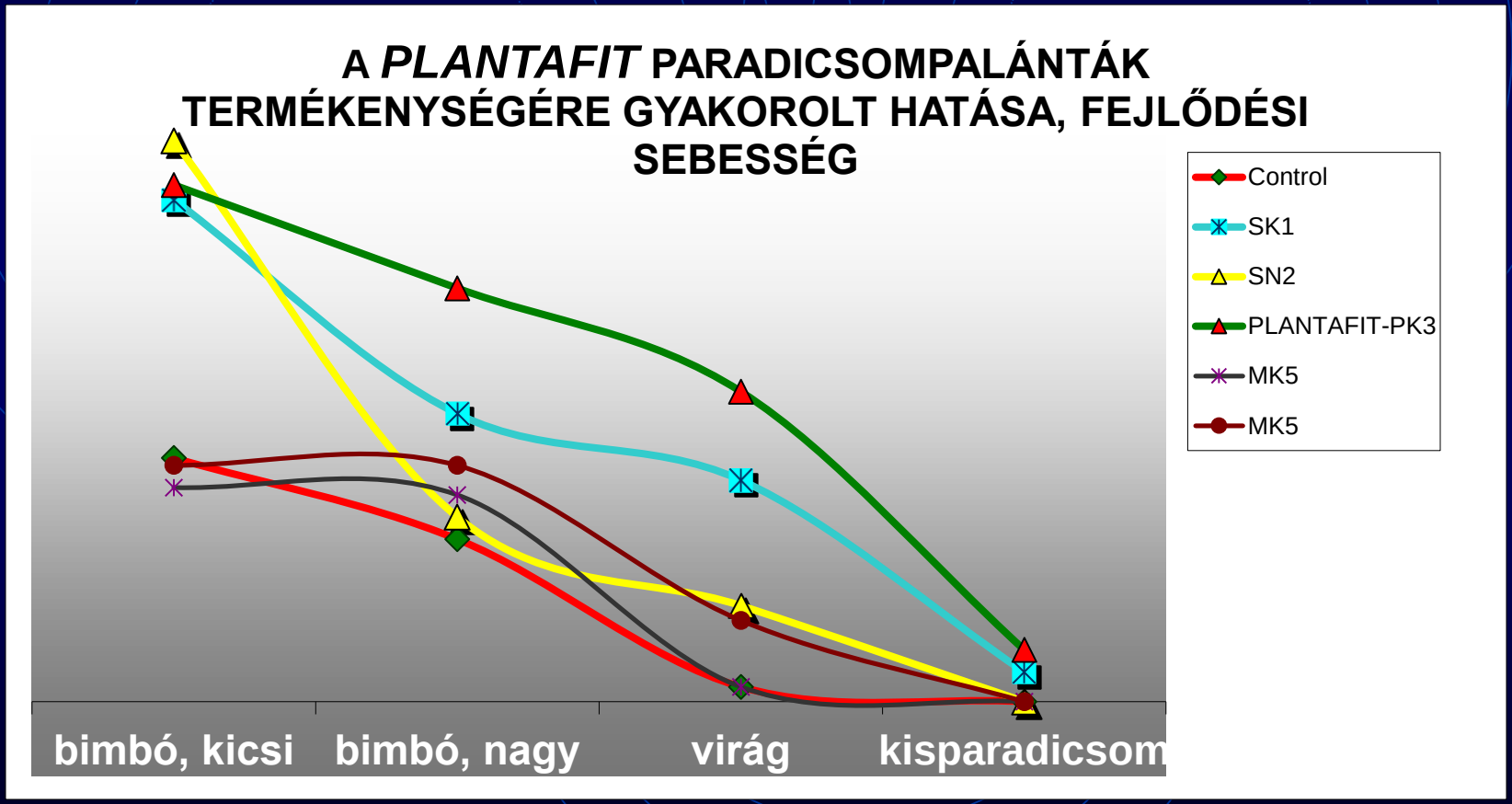
- 245 ml H_2SO_4 (350 meq/kg) 4755 ml víz 750 g KNO_3 (297 meq/kg) 25 kg RBZ 1,4-2,6
- 245 ml H_2SO_4 (350 meq/kg) 4755 ml víz 527 g Na_2SO_4 (297 meq/kg) 25 kg RBZ 1,4-2,6
- 240 ml H_3PO_4 (350 meq/kg) 4760 ml víz 750 g KNO_3 (297 meq/kg) 25 kg RBZ 1,4-2,6
- Citromsav 550 g (350 meq/kg) 5 l víz 750 g KNO_3 (297 meq/kg) 25 kg RBZ 1,4-2,6
- $NaMnO_4$ 40% 20x higítás 250 ml + 4750 ml víz 750 g KNO_3 (297 meq/kg) 25 kg RBZ 1,4-2,6
- 55 ml H_2SO_4 (400 meq/kg) 128 g Citromsav (400 meq/kg) 950 ml víz 150 g KNO_3 (297 meq/kg) 5 kg RBZ 1,4-2,6
- 138 ml H_2SO_4 (1000 meq/kg) 128 g Citromsav (500 meq/kg) 862 ml víz 150 g KNO_3 (297 meq/kg) 5 kg RBZ 1,4-2,6

Hatásvizsgálat paprikán

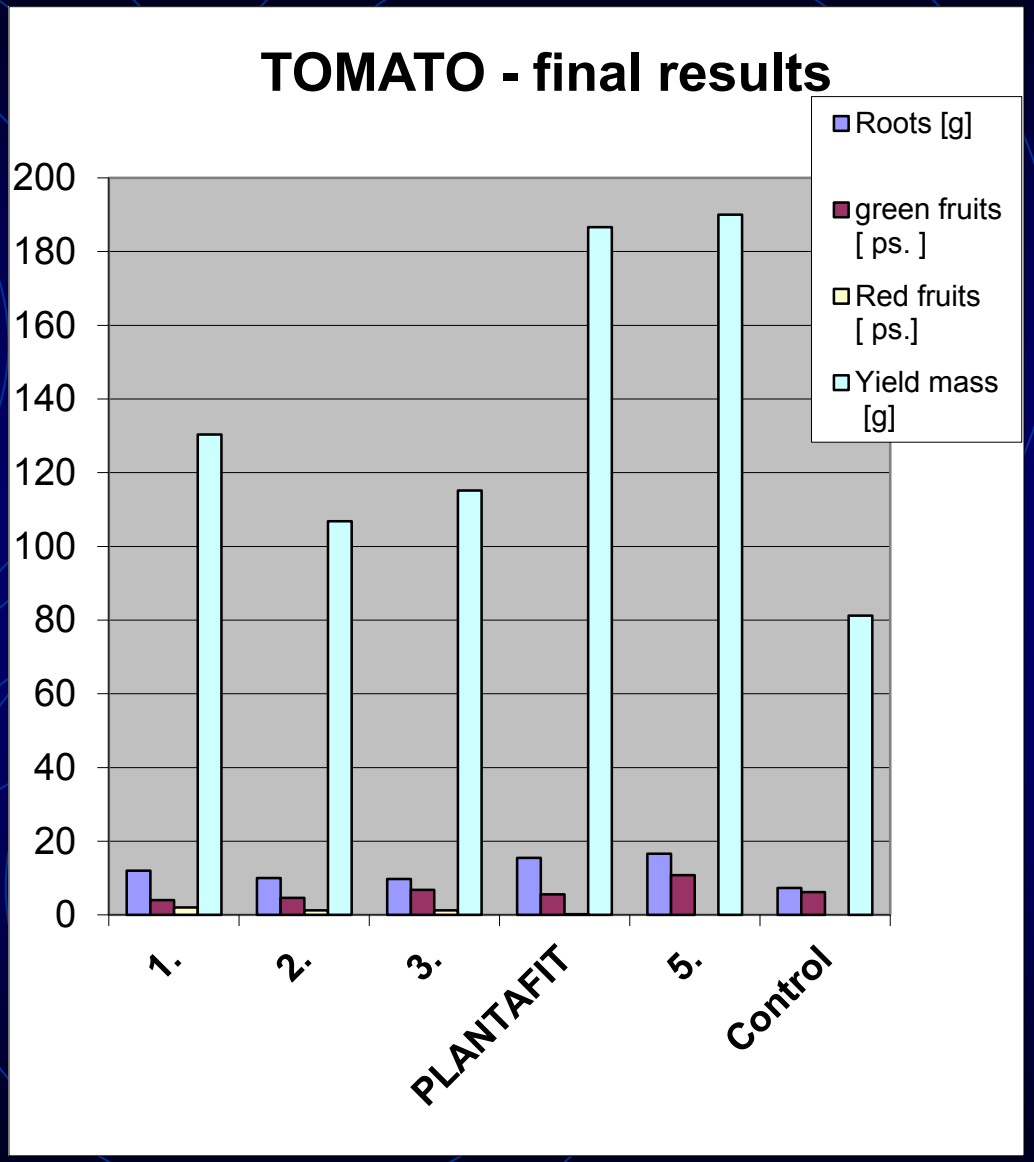
A különböző pácolási módok összevetése



PARADICSOM


A PLANTAFIT PARADICSOMPALÁNTÁK TERMÉKENYSÉGÉRE GYAKOROLT HATÁSA, FEJLŐDÉSI SEBESSÉG
Control
SK1
SN2
PLANTAFIT-PK3
MK5
MK5
bimbó, kicsi
bimbó, nagy
virág
kisparadicsom

	Roots [g]	green fruits [ps.]	Red fruits [ps.]	Yield mass [g]
1/1	16,48	4	4	234
1/2	13,86	2	2	98
1/3	9,65	4	0	66
1/4	9	6	2	126
1/5	11,02	4	2	128
1.	**12,002**	**4**	**2**	**130,4**
2/1	10,21	8	1	100
2/2	14,27	7	0	122
2/3	10,56	3	2	98
2/4	9,39	4	1	112
2/5	5,48	1	2	102
2.	**9,982**	**4,6**	**1,2**	**106,8**
3/1	9,57	6	2	110
3/2	10,44	10	1	150
3/3	11,88	8	1	130
3/4	9,96	6	0	74
3/5	7,03	4	2	112
3.	**9,776**	**6,8**	**1,2**	**115,2**
4/1	10,49	3	0	133
4/2	14,05	6	0	162
4/3	15,62	6	1	190
4/4	18,73	6	0	210
4/5	18,53	7	0	238
PLANTAFIT	**15,484**	**5,6**	**0,2**	**186,6**
5/1	10,75	12	0	176
5/2	22,27	8	0	256
5/3	20,02	11	0	116
5/4	14,68	20	0	258
5/5	15,11	3	0	144
5.	**16,566**	**10,8**	**0**	**190**
C/1	7,71	7	0	28
C/2	6,87	10	0	132
C/3	7,2	7	0	102
C/4	7,8	5	0	98
C/5	7,2	2	0	46
Control	**7,356**	**6,2**	**0**	**81,2**



BÚZA – kísérlet

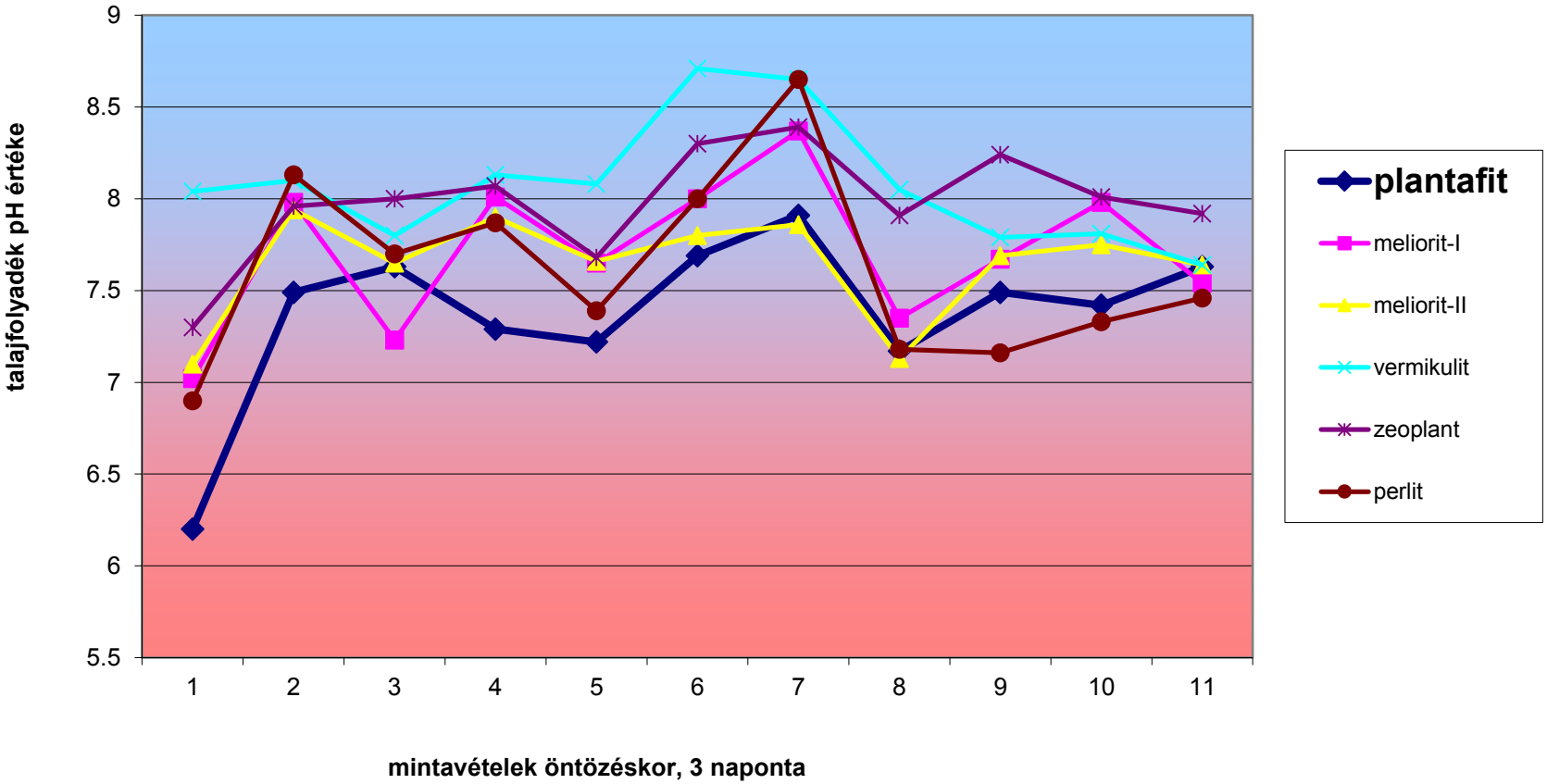
- Összehasonlítás egyéb talajjavító hatású ásványi anyagokkal:
- Meliorit-finom (kezeletlen zeolit)
- Meliorit-szemcsés
- Perlit
- Vermikulit
- Zeoplant

Mosott homokba ültetés, öntözés desztillált vízzel

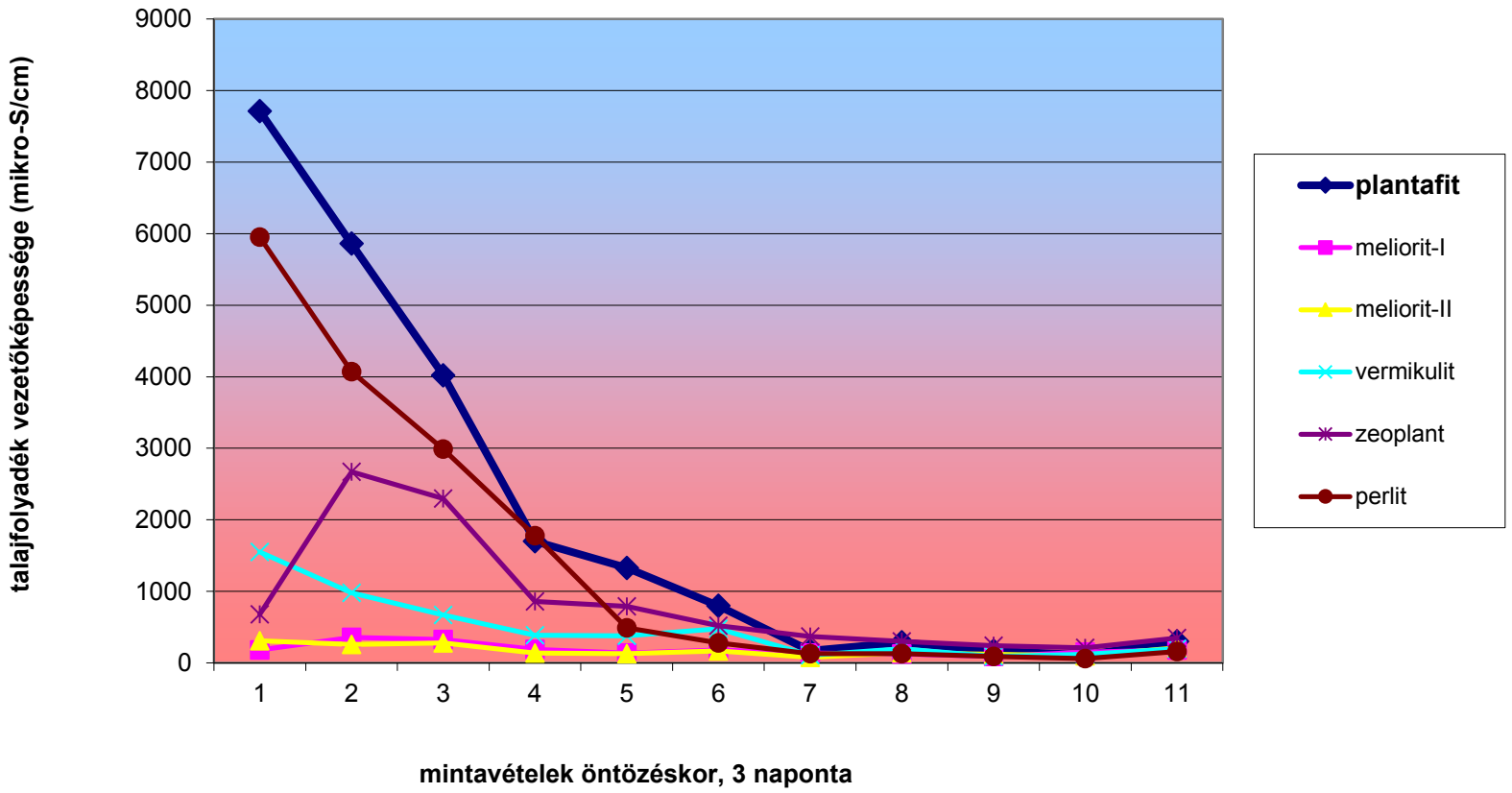
Vizsgálati szempontok

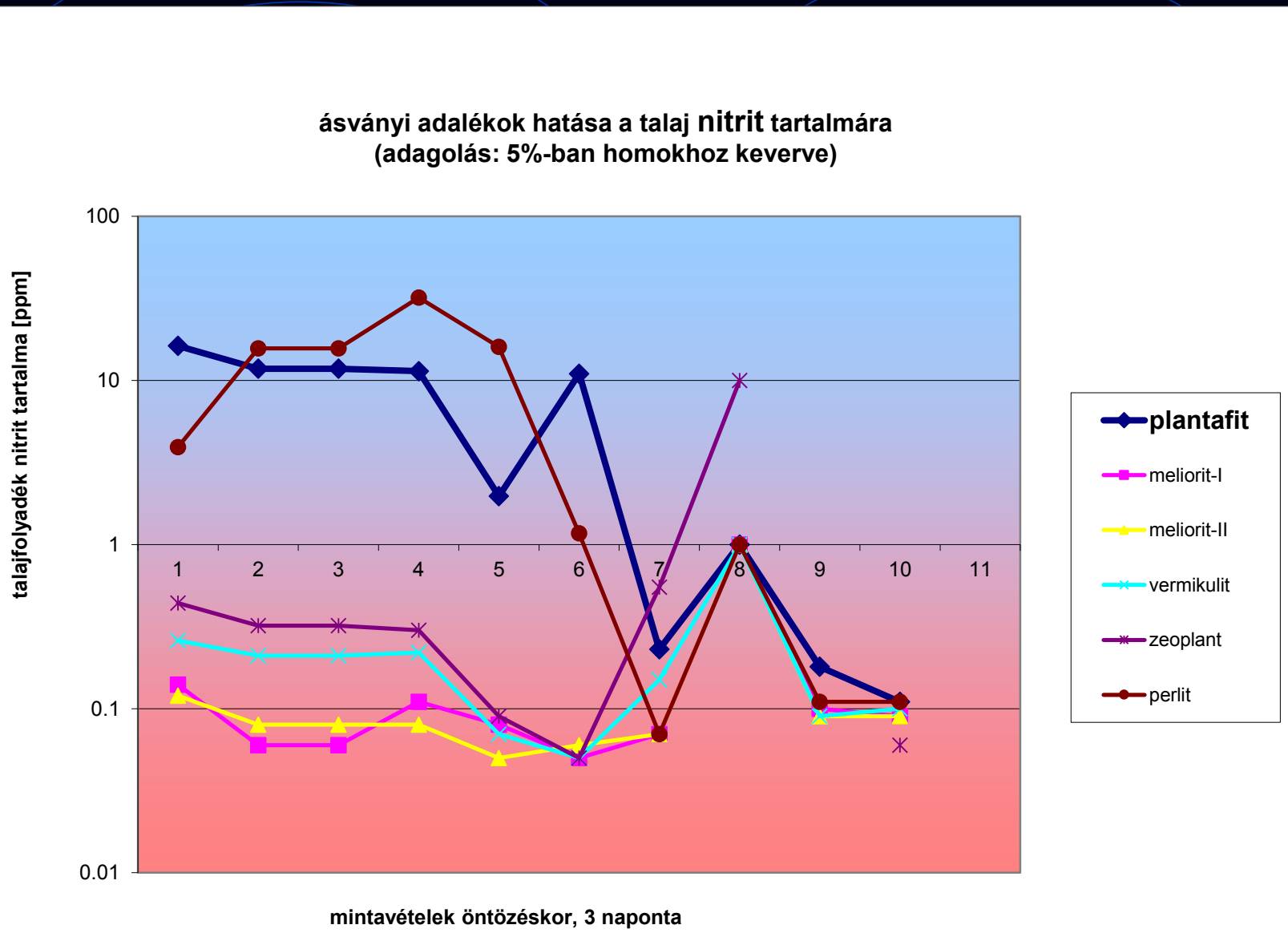
- Infiltrált öntözővíz pH-ja
- Vezetőképesség
- nitrit
- Nitrát
- Ammónia
- Vizuális információ

ásványi adalékok hatása a talaj pH értékére
(adagolás: 5%-ban homokhoz keverve)

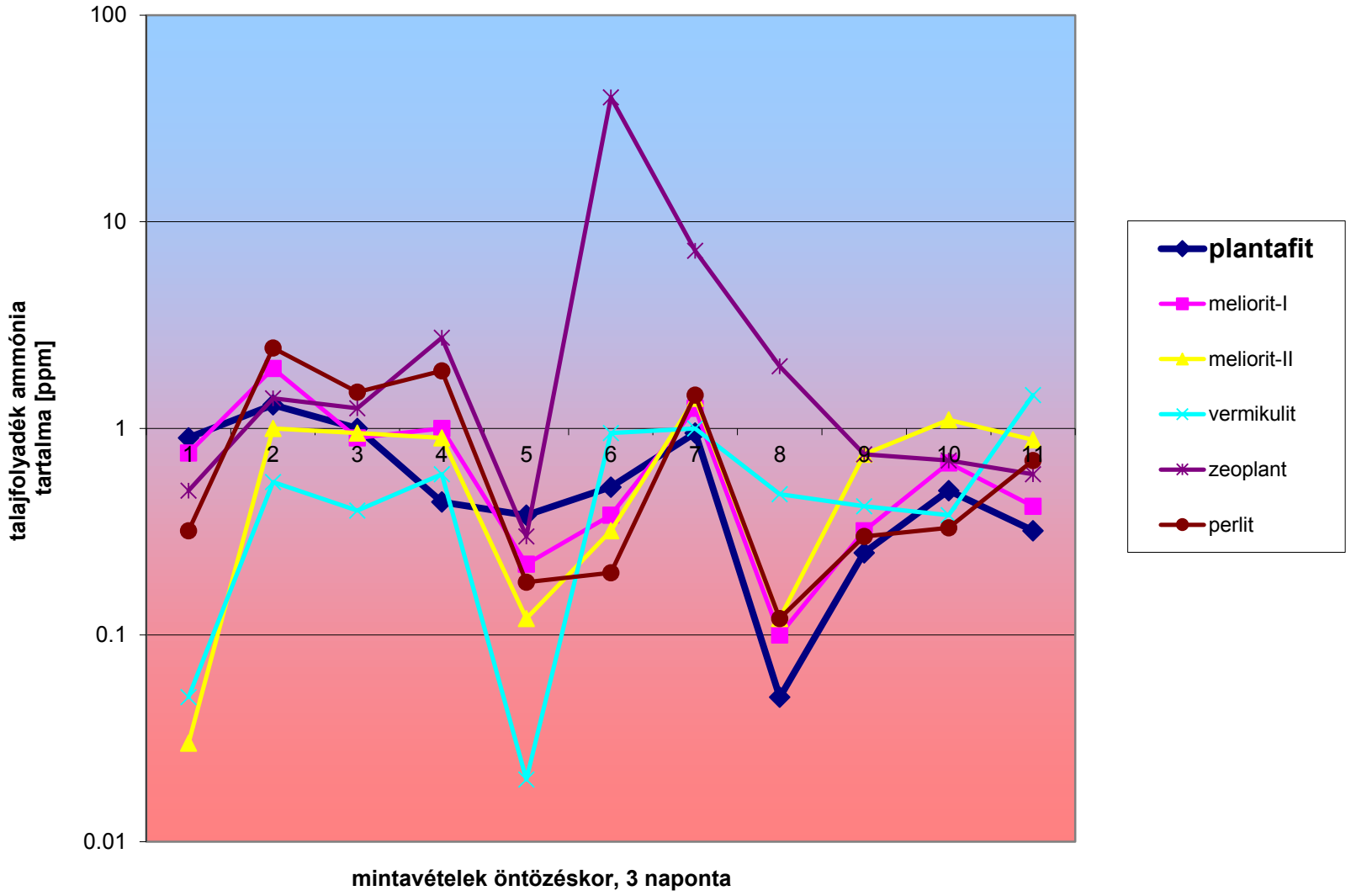


ásványi adalékok hatása a talaj **vezetőképességére**
(adagolás: 5%-ban homokhoz keverve)




ásványi adalékok hatása a talaj nitrit tartalmára
(adagolás: 5%-ban homokhoz keverve)
talajfolyadék nitrit tartalma [ppm]
100
10
1
0.1
0.01
1
2
3
4
5
6
7
8
9
10
11
mintavételek öntözéskor, 3 naponta
plantafit
meliorit-I
meliorit-II
vermikulit
zeoplant
perlit

ásványi adalékok hatása a talajfolyadék **ammónia** tartalmára
(adagolás: 5%-ban homokhoz keverve)



- A talaj felszíne feletti növényzet hasznosításra kerül
- A talajszint alatti biomassza kiaknázatlan

Ez a biomassza rendkívül sokoldalúan alkalmazható, új távlatokat nyit meg

Alkalmazási példák:

- Textil
- Csomagolóanyag
- Hőszigetelő
- Paplanbélés
- Ültetőközeg
- Aktívszén
- Árnyékolófüggöny

Előállítása: speciális zeolit, a PLANTAFIT segítségével, és különleges technológiával

Gazdaságosság:

árbevétel: 10.000×5×50=
2,5 millió Ft/hektár/év
profit: 2 millió Ft/hektár/év
???

World´s No.1 Moisture Retaining Soil Additive

Natural conservation of irrigation water...

In arid areas like the Middle East, water is one of the most precious natural resources. Following the massive economic boom in this part of the world, huge developments need excessive amounts of irrigation water for their landscapes and Golf courses.

The sandy soils have a very low water holding capacity and are poor in nutrients. The plant roots don't have enough time to use the irrigation water and fertilizers because they are washed out very fast.

Zeoplant is addressing these problems immediately after application into the root zones.

Zeoplant improves the soil structure and increases the water holding capacity of the soils to the extent that infiltration speed of irrigation water will be reduced by up to 85%. Plant roots have more time to absorb the water and loss of water through percolation is reduced drastically.

Zeoplant reduces the necessary quantity of irrigation water by 50%. Zeoplant's additional benefits are as follows:

- **Savings of 50% electricity** for pumping of irrigation water
- **Direct wear & tear savings** on maintenance for pumping units & irrigation equipment
- **Reduction of storage cost** for irrigation water (minimize/eliminate tanks)
- **Reduction of chemical fertilizers** during maintenance and operation through prevention of leaching. Therefore monetary savings in time, logistics, labour, spreading
- **Healthier and faster growth** of plants and crops which can be substantially proven (temperature controlled areas, i.e. Green houses and open areas) **pH is reduced** and **EC increased** which effects growth rate by providing the plants more nutrients Zeoplant has a **high CEC** and contains lots of nutrients
- **Replaces the usage of peat moss** completely
- **Reduces carbon footprint**

Zeoplant contributes strongly to sustainable and environ-mentally friendly landscape developments. **Zeoplant** is easy to apply, has a long lasting efficiency and needs no re-application.

Amazing results

With **zeoplant** in the soil mix one will see the difference already after two weeks of usage, regardless whether for potting plants, lawns or shrubs. Even trees and palms show dramatically differences with or without **zeoplant**...

Save water – Protect environment - Cut cost

zeoplant news

Middle East Smart Landscape Summit

at the Sofitel Dubai the Palm Resort & Spa, Dubai, United Arab Emirates ...read more

Zeoplant sponsors Future Landscape

Future Landscape & Public Realm Qatar powered by Project Qatar - provides an excellent opportunity ...read more

zeoplant certifications

Zeoplant is certified and approved by

last updated

21.01.2015 New Application Video
13.01.2015 New Picture Galleries


Palm Jumeirah Dubai


Fairmont Hotel & Residences Dubai


The Montgomerie Links Golf Course Vietnam


Downtown Jebel Ali


Zabeel Palace Dubai


Durrat Al Bahrain


Jumeirah Village Triangle Dubai


Green Community Dubai


RAK Bank Headquarter Ras Al Khaimah


Qasr Al Sarab Desert Resort & Spa - Abu Dhabi


Sir Bani Yas Island Abu Dhabi


Al Bateen Palace Abu Dhabi


Yas Marina Circuit - Yas Island Abu Dhabi


Streetscapes - Yas Island Abu Dhabi


Yacht Club Yas Marina - Yas Island Abu Dhabi


Shuttle Bus Link Rd - Yas Island Abu Dhabi

Manarat Saadiyat


Liwa Roundabout Abu Dhabi


Qassim Saudi Arabia


Tehran Municipality Iran


Terraverde Shop Dubai


Mina Al Arab, Ras Al Khaimah


Zeoplant Show


Victory Heights, Dubai


New Doha Intl. Airport


IKEA Yas Island, Abu Dhabi


Mina Residential Palace, Abu Dhabi


Mina Al Arab Precinct 5, RAK


Marina Project, Umm Al Quwain


Westin Golf Resort, Abu Dhabi


Financial Centre, Abu Dhabi


The Court of the Crown Prince, Abu Dhabi


Mafaq Dialysis Centre

PLANTAFIT + Ficus benjamina