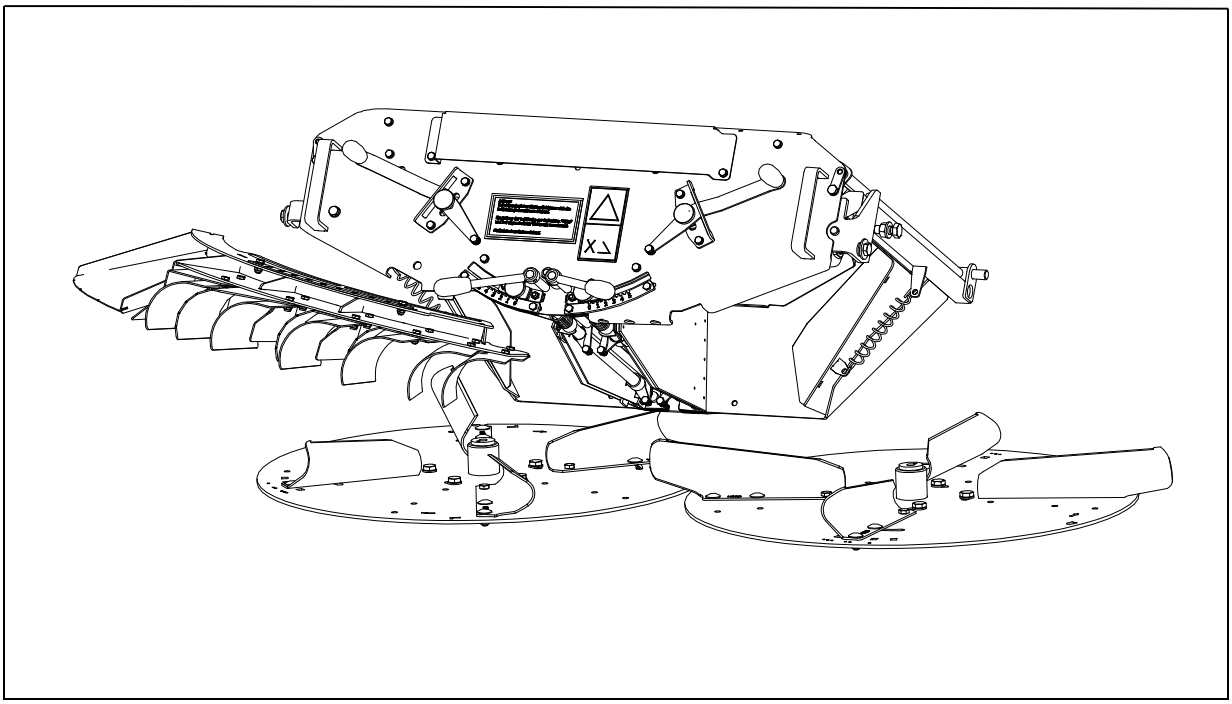
Settings for the H discs spreading unit with spreading vanes

for „High capacity spreaders from Güstrow“ with section control

(scraper chain spreader)



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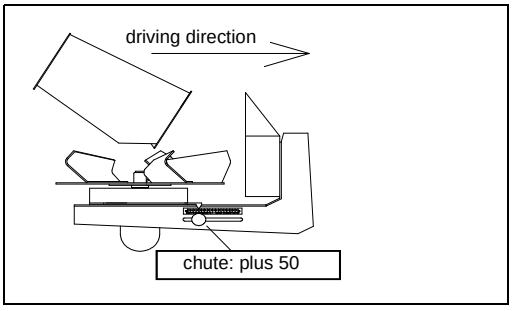
Dear client,

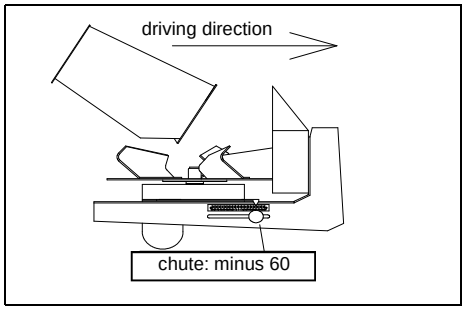
the present settings are the results of extensive tests in our spreading test hall.
They apply under the following conditions:

- basic adjustments for the two discs spreading system according to our guideline
- spreading discs rev. 1100 rpm (if not stated differently)
- driving speed 12 km/h
- fertilizer condition as stated in the tables
- scraper chain spreader
- spreader stands horizontally or slightly inclined forward

The signs of the spreading table (chute) values mean as followed:



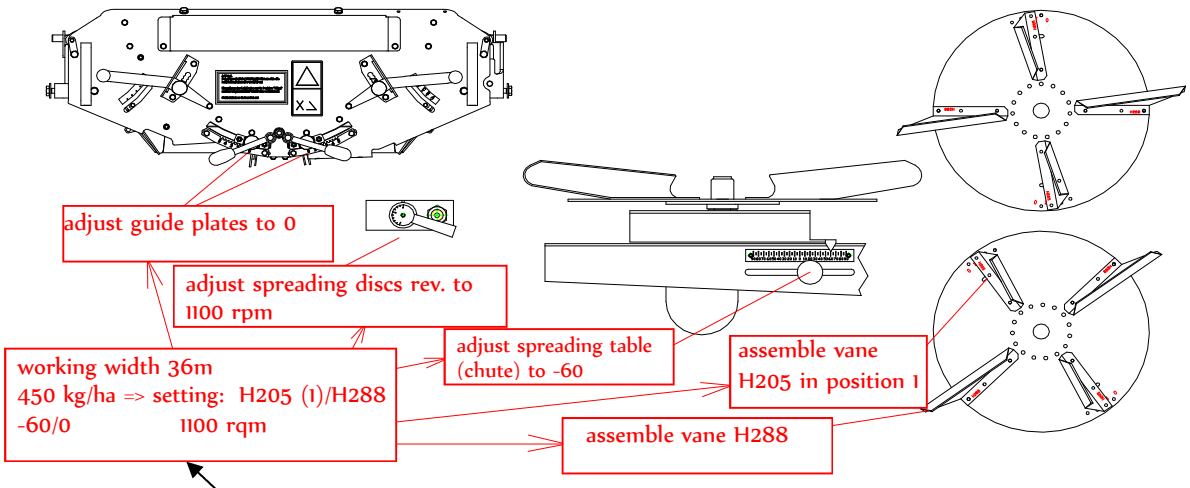
plus => spreader becomes longer



minus => spreader becomes shorter

Normal spreading:

The fertilizer will be spread symmetrically in direction of travel.



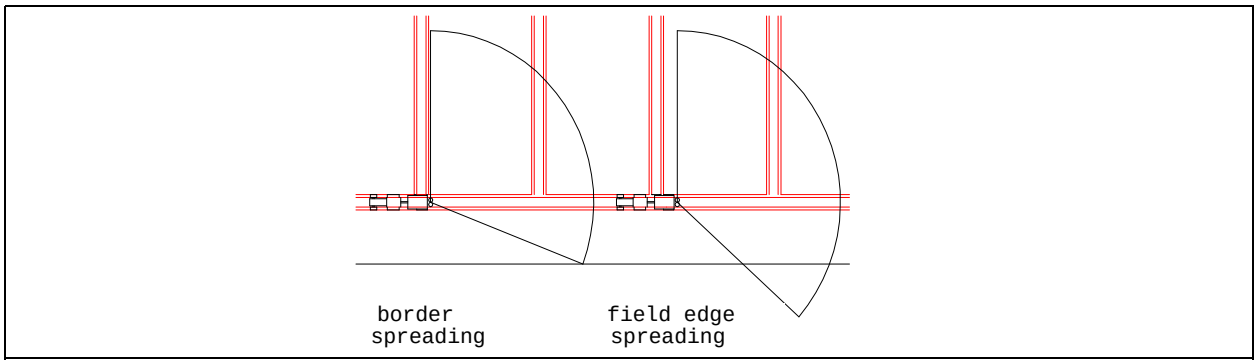
YaraBela EXTRAN 27 (KAS 27% + 4 MgO) (Kratzboden - Streuer, Werte für ca. 12 km/h) **H - Streu**
YARA Rostock Dichte: 1,06 k
Korngröße:

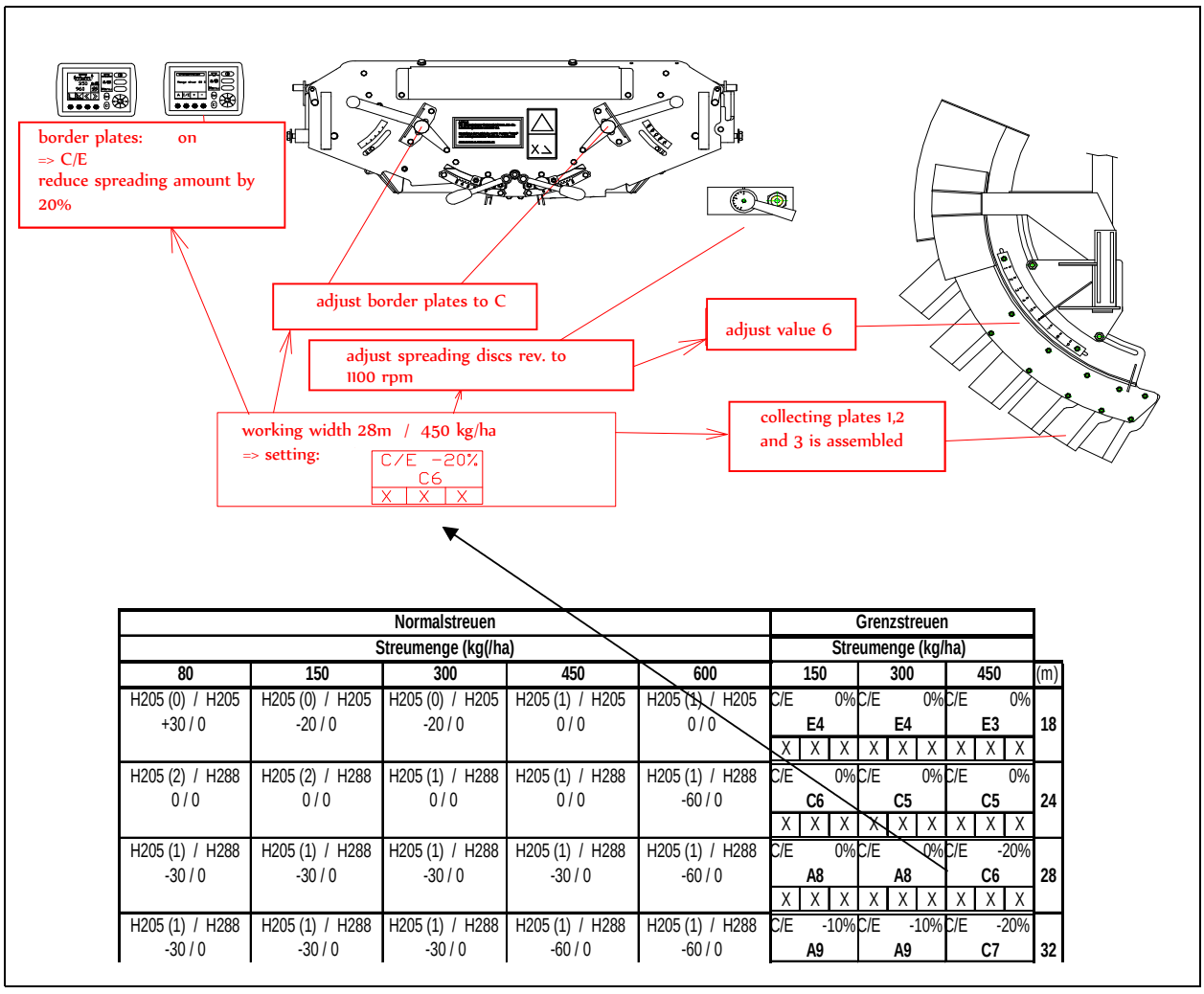
Streubreite (m)	Normalstreuen Streumenge (kg/ha) 80	150	300	450	600	Grenzstr Streumenge 150	300
18	H205 (0) / H205 +30 / 0	H205 (0) / H205 -20 / 0	H205 (0) / H205 -20 / 0	H205 (1) / H205 0 / 0	H205 (1) / H205 0 / 0	C/E 0% E4 X X X	C/E E4 X X X
24	H205 (2) / H288 0 / 0	H205 (2) / H288 0 / 0	H205 (1) / H288 0 / 0	H205 (1) / H288 0 / 0	H205 (1) / H288 -60 / 0	C/E 0% C6 X X X	C/E C5 X X X
28	H205 (1) / H288 -30 / 0	H205 (1) / H288 -30 / 0	H205 (1) / H288 -30 / 0	H205 (1) / H288 -30 / 0	H205 (1) / H288 -60 / 0	C/E 0% A8 X X X	C/E A8 X X X
32	H205 (1) / H288 -30 / 0	H205 (1) / H288 -30 / 0	H205 (1) / H288 -30 / 0	H205 (1) / H288 -60 / 0	H205 (1) / H288 -60 / 0	C/E -10% A9 X X X	C/E A9 X X X
36	H205 (1) / H288 -30 / 0	H205 (1) / H288 -30 / 0	H205 (1) / H288 -30 / 0	H205 (1) / H288 -60 / 0	/	A 0% A8 X X -	C/E A9 X X
	H205 (1) / H288	H205 (1) / H288	H205 (1) / H288			A 0%	A

Border spreading:
The fertilizer will be spread shorter on one side. The aim is not to throw over the border of the field.

Field edge spreading:
The fertilizer will be spread shorter on one side. The aim is to achieve a relatively even distribution up to the edges of the field. The spreading over the edges is accepted. Therefore the adjustments of the border spreading have to be set to the next largest working width.

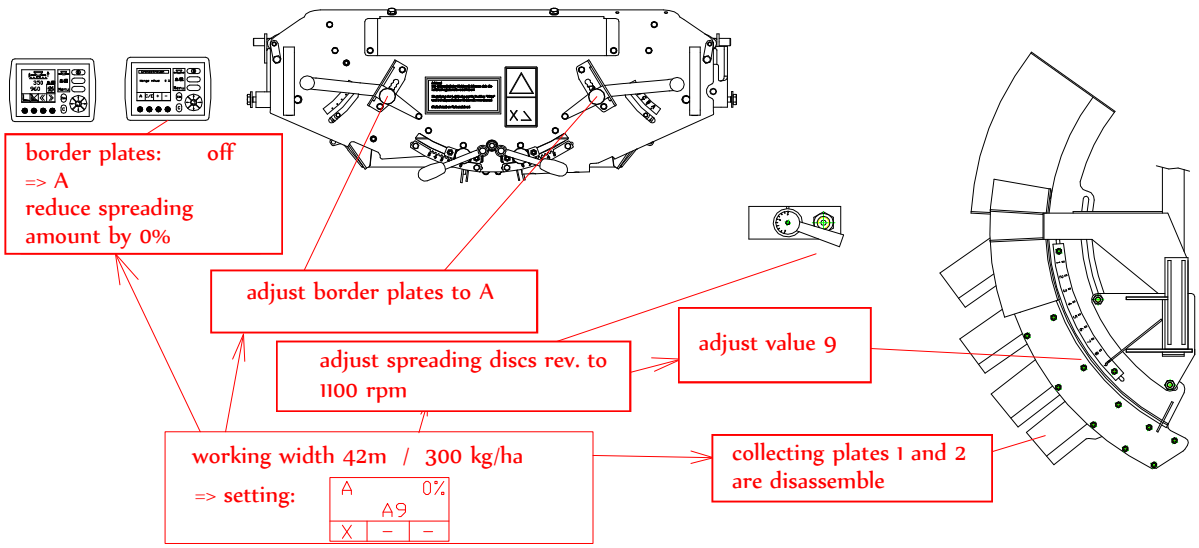
example: field edge spreading working width 24m => use adjustments for border spreading 28m





Normalstreuen					Grenzstreuen			
Streumenge (kg(/ha)					Streumenge (kg/ha)			
80	150	300	450	600	150	300	450	(m)
H205 (0) / H205 +30 / 0	H205 (0) / H205 -20 / 0	H205 (0) / H205 -20 / 0	H205 (1) / H205 0 / 0	H205 (1) / H205 0 / 0	C/E 0% E4 X X X	C/E 0% E4 X X X	C/E 0% E3 X X X	18
H205 (2) / H288 0 / 0	H205 (2) / H288 0 / 0	H205 (1) / H288 0 / 0	H205 (1) / H288 0 / 0	H205 (1) / H288 -60 / 0	C/E 0% C6 X X X	C/E 0% C5 X X X	C/E 0% C5 X X X	24
H205 (1) / H288 -30 / 0	H205 (1) / H288 -30 / 0	H205 (1) / H288 -30 / 0	H205 (1) / H288 -30 / 0	H205 (1) / H288 -60 / 0	C/E 0% A8 X X X	C/E 0% A8 X X X	C/E -20% C6 X X X	28
H205 (1) / H288 -30 / 0	H205 (1) / H288 -30 / 0	H205 (1) / H288 -30 / 0	H205 (1) / H288 -60 / 0	H205 (1) / H288 -60 / 0	C/E -10% A9	C/E -10% A9	C/E -20% C7	32

example border spreading 1



Normalstreuen Streumenge (kg/(ha)				Grenzstreuen Streumenge (kg/ha)			
150	300	450	600	150	300	450	(m)
H205 (0) / H205 -20 / 0	H205 (0) / H205 -20 / 0	H205 (1) / H205 0 / 0	H205 (1) / H205 0 / 0	C/E 0% **E4** X X X	C/E 0% **E4** X X X	C/E 0% **E3** X X X	18
H205 (2) / H288 0 / 0	H205 (1) / H288 0 / 0	H205 (1) / H288 0 / 0	H205 (1) / H288 -60 / 0	C/E 0% **C6** X X X	C/E 0% **C5** X X X	C/E 0% **C5** X X X	24
H205 (1) / H288 -30 / 0	H205 (1) / H288 -30 / 0	H205 (1) / H288 -30 / 0	H205 (1) / H288 -60 / 0	C/E 0% **A8** X X X	C/E 0% **A8** X X X	C/E -20% **C6** X X X	28
H205 (1) / H288 -30 / 0	H205 (1) / H288 -30 / 0	H205 (1) / H288 -60 / 0	H205 (1) / H288 -60 / 0	C/E -10% **A9** X X X	C/E -10% **A9** X X X	C/E -20% **C7** X X X	32
H205 (1) / H288 -30 / 0	H205 (1) / H288 -30 / 0	H205 (1) / H288 -60 / 0	/	A 0% **A8** X X -	C/E -10% **A9** X X X	C/E -20% **A9** X X X	36
H205 (1) / H288 -30 / 0	H205 (1) / H288 -30 / 0	/	/	A 0% **A9** X X -	A 0% **A9** X X -	/	40
H205 (1) / H288 -30 / 0	H205 (1) / H288 -30 / 0	/	/	A 0% **A9** X - -	A 0% **A9** X - -	/	42

example border spreading 2

When **Precision Farming** (changing of application rate during the tour) the adjustment of the most commonly used application rate is selected.
The driving speed should be reduced when using much bigger spreading amounts and should be accelerated at much lower spreading amounts.

For **mixed fertilizer** select the adjustment for the largest component. The adjustment is decided by the fertilizer with the greater amount of nitrogen, if the shares of the mixed fertilizer are almost even.

Not mentioned fertilizers are allocated on the basis of their label, their density and their grain size. Use the adjustments of these features.

The present settings create a secure basis for the operation of the spreader. As we can not guarantee the absolute congruence of the consistent of your used and our tested fertilizer, we advice you the check of the spreading pattern with the help of the **kit for check of spreading quality**.

The **grain size** above every table specifies the limit of the minimum and maximum size of the grains for 80% of the fertilizers as well as the average size. (bold printed value)

Is the used **fertilizer more fine-grained** than stated in the tables, containing much dust or is of a lesser grain solidness, we recommend you to relocate the spreading table adjustment by 20 to 30 scale parts to the minus range.

example: adjustment +10/0 to –20/0

Working widths over 28m are usually not executable with this sort of fertilizers.

Working width:

If there is no adjustment for the wanted spreading amount at great working widths available, the driving speed has to be adapted.

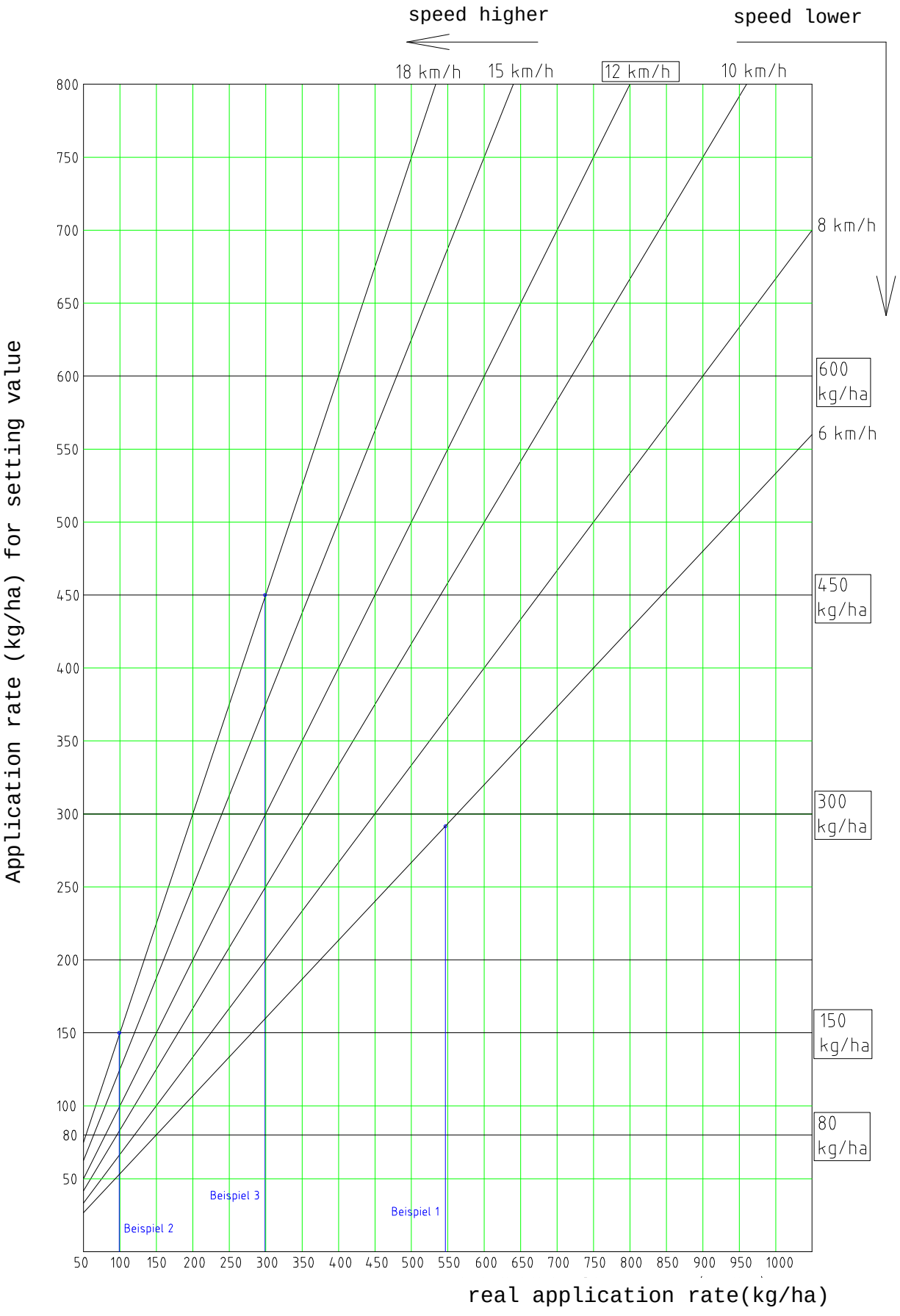
example 1:	adjusted application rate:	550 kg/ha at 40m working width
(KAS)	possible application rate:	300 kg/ha
	in the diagram:	6 km/h driving speed
	adjustment spreading unit:	-30/0 ,H205(1) / H288, 1100 rpm
		(300 kg/ha at 40m)
example 2:	adjusted application rate:	100 kg/ha at 36m working width
(DAP)	possible application rate:	150kg/ha
	in the diagram:	18 km/h driving speed
	adjustment spreading unit:	-20/0, H205(1) / H288 , 1100 rpm
		(150 kg/ha at 36m)

Driving speed:

If the real driving speed differs extremely from the rated-speed of 12 km/h, the adjustment has to be recalculated.

example 3:	application rate:	300 kg/ha at 32m working width
(KAS)	real driving speed:	18 km/h
	in the diagram:	450 kg/ha
	adjustment spreading unit:	-60/0, H205(1) / H288 , 1100 rpm
		(450kg/ha at 32m)

Intermediate values have to be interpolated.



Recalculation of the setting value at deviating application rate respectively driving speed

YaraBela EXTRAN 27 (KAS 27% + 4 MgO)

(scraper chain - spreaders, values for approx. 12 km/h) **H - discs spreading unit**

YARA Rostock

density: 1,06 kg/l

grain size: 2,6/**3,6**/5,0

working width (m)	normal spreading application rate (kg(/ha) 80	150	300	450	600	border spreading application rate (kg/ha) 150	300	450	working width (m)
18	H205 (0) / H205 +30 / 0	H205 (0) / H205 -20 / 0	H205 (0) / H205 -20 / 0	H205 (1) / H205 0 / 0	H205 (1) / H205 0 / 0	C/E 0% **E4** X X X	C/E 0% **E4** X X X	C/E 0% **E3** X X X	**18**
24	H205 (2) / H288 0 / 0	H205 (2) / H288 0 / 0	H205 (1) / H288 0 / 0	H205 (1) / H288 0 / 0	H205 (1) / H288 -60 / 0	C/E 0% **C6** X X X	C/E 0% **C5** X X X	C/E 0% **C5** X X X	**24**
28	H205 (1) / H288 -30 / 0	H205 (1) / H288 -30 / 0	H205 (1) / H288 -30 / 0	H205 (1) / H288 -30 / 0	H205 (1) / H288 -60 / 0	C/E 0% **A8** X X X	C/E 0% **A8** X X X	C/E -20% **C6** X X X	**28**
32	H205 (1) / H288 -30 / 0	H205 (1) / H288 -30 / 0	H205 (1) / H288 -30 / 0	H205 (1) / H288 -60 / 0	H205 (1) / H288 -60 / 0	C/E -10% **A9** X X X	C/E -10% **A9** X X X	C/E -20% **C7** X X X	**32**
36	H205 (1) / H288 -30 / 0	H205 (1) / H288 -30 / 0	H205 (1) / H288 -30 / 0	H205 (1) / H288 -60 / 0	/	A 0% **A8** X X -	C/E -10% **A9** X X X	C/E -20% **A9** X X X	**36**
40	H205 (1) / H288 -30 / 0	H205 (1) / H288 -30 / 0	H205 (1) / H288 -30 / 0	/	/	A 0% **A9** X X -	A 0% **A9** X X -	/	**40**
42	H205 (1) / H288 -30 / 0	H205 (1) / H288 -30 / 0	H205 (1) / H288 -30 / 0	/	/	A 0% **A9** X - -	A 0% **A9** X - -	/	**42**

spreading discs rev. 1100 rpm

YaraBela Sulfan 24 + 6

YARA Rostock

(scraper chain - spreaders, values for approx. 12 km/h)

H - discs spreading unit

density: 1,09 kg/l

grain size: 2,9/**3,6**/4,8

working width (m)	normalspreadin applicationrate (kg/ha) 80	150	300	450	600	border spreading application rate (kg/ha) 150	300	450	(m)
24	H205 (2) / H288 -10 / 0	H205 (2) / H288 -20 / 0	H205 (2) / H288 -40 / 0	H205 (2) / H288 -40 / 0	H205 (2) / H288 -60 / 0	C/E 0% **C6** X X X	C/E 0% **C5** X X X	C/E 0% **C5** X X X	**24**
28	H205 (2) / H288 -20 / 0	H205 (2) / H288 -20 / 0	H205 (2) / H288 -30 / 0	H205 (2) / H288 -40 / 0	H205 (2) / H288 -60 / 0	C/E 0% **A8** X X X	C/E 0% **A8** X X X	C/E -20% **C6** X X X	**28**
32	H205 (2) / H288 -20 / 0	H205 (2) / H288 -10 / 0	H205 (2) / H288 -30 / 0	H205 (2) / H288 -60 / 0	/	C/E -10% **A9** X X X	C/E -10% **A9** X X X	C/E -20% **C7** X X X	**32**
36	H205 (2) / H288 -20 / 0	H205 (2) / H288 +5 / 0	H205 (2) / H288 -40 / 0	/	/	A 0% **A8** X X -	C/E -10% **A9** X X X	/	**36**
40	/	H205 (2) / H288 -40 / 0	H205 (2) / H288 -60 / 0	/	/	A 0% **A9** X X -	A 0% **A9** X X -	/	**40**

spreading discs rev. 1100 rpm

YaraBela Optimag 24 + 8 + 6

YARA Rostock

(scraper chain - spreaders, values for approx. 12 km/h)

H - discs spreading unit

density: 1,04 kg/l
grain size:

working width (m)	normal spreading, application rate (kg/ha) 80	150	300	450	600	border spreading, application rate (kg/ha) 150	300	450	(m)
24	H205 (2) / H288 -5 / 0	H205 (2) / H288 -10 / 0	H205 (2) / H288 -20 / 0	H205 (2) / H288 -40 / 0	H205 (2) / H288 -60 / 0	C/E 0% **C6** X X X	C/E 0% **C5** X X X	C/E 0% **C5** X X X	**24**
28	H205 (2) / H288 -15 / 0	H205 (2) / H288 -20 / 0	H205 (2) / H288 -30 / 0	H205 (2) / H288 -40 / 0	H205 (2) / H288 -60 / 0	C/E 0% **A8** X X X	C/E 0% **A8** X X X	C/E -20% **C6** X X X	**28**
32	H205 (2) / H288 -15 / 0	H205 (2) / H288 0 / 0	H205 (2) / H288 -30 / 0	H205 (2) / H288 -60 / 0	H205 (2) / H288 -60 / 0	C/E -10% **A9** X X X	C/E -10% **A9** X X X	C/E -20% **C7** X X X	**32**
36	H205 (2) / H288 -20 / 0	H205 (2) / H288 -40 / 0	H205 (2) / H288 -60 / 0	H205 (2) / H288 -60 / 0	/	A 0% **A8** X X -	C/E -10% **A9** X X X	C/E -20% **A9** X X X	**36**
40	H205 (2) / H288 0 / 0	H205 (2) / H288 -20 / 0	H205 (2) / H288 -60 / 0	/	/	A 0% **A9** X X -	A 0% **A9** X X -	/ 			**40**
42	/	H205 (2) / H288 -20 / 0	/	/	/	A 0% **A9** X - -	/ |		/ |		**42**

spreading discs rev. 1100 rpm

Nitrophoska 20 - 8 - 8

K+S Nitrogen

(scraper chain - spreaders, values for approx. 12 km/h)

H - discs spreading unit

density: 1,06 kg/l
grain size: 2,6/**3,5**/4,9

working width	(m)	normal spreading application rate (kg/ha) 80	150	300	450	600	border spreading application rate (kg/ha) 150	300	450	(m)
	24	H205 (2) / H288 -5 / 0	H205 (2) / H288 -5 / 0	H205 (2) / H288 0 / 0	H205 (2) / H288 -60 / 0	H205 (2) / H288 -60 / 0	C/E 0% **C6** X X X	C/E 0% **C5** X X X	C/E 0% **C5** X X X	**24**
	28	H205 (2) / H288 -5 / 0	H205 (2) / H288 -5 / 0	H205 (2) / H288 0 / 0	H205 (2) / H288 -60 / 0	H205 (2) / H288 -60 / 0	C/E 0% **A8** X X X	C/E 0% **A8** X X X	C/E -20% **C6** X X X	**28**
	32	H205 (2) / H288 -5 / 0	H205 (2) / H288 -5 / 0	H205 (2) / H288 0 / 0	H205 (2) / H288 -60 / 0	/	C/E -10% **A9** X X X	C/E -10% **A9** X X X	C/E -20% **C7** X X X	**32**
	36	H205 (2) / H288 -30 / 0	H205 (2) / H288 -30 / 0	H205 (2) / H288 -30 / 0	/	/	A 0% **A8** X X -	C/E -10% **A9** X X X	/	**36**
	40	H205 (2) / H288 -30 / 0	H205 (2) / H288 -30 / 0	H205 (2) / H288 -60 / 0	/	/	A 0% **A9** X X -	A 0% **A9** X X -	/	**40**

spreading discs rev. 1100 rpm

YARA Mila NPK 15-15-15, gran.

(scraper chain - spreaders, values for approx. 12 km/h)

YARA

H - discs spreading unit

density: 1,07 kg/l
grain size: 1,8/**2,6**/3,5

working width (m)	normal spreading Streumenge (kg/ha) 80	150	300	450	600	border spreading application rate (kg/ha) 150	300	450	(m)
24	H205 (1) / H222 +20 / 0	H205 (1) / H222 +20 / 0	H205 (1) / H222 +20 / 0	H205 (2) / H288 -10 / 0	H205 (2) / H288 -40 / 0	C/E 0% **C6** X X X	C/E 0% **C5** X X X	C/E 0% **C5** X X X	**24**
28	H205 (1) / H222 0 / 0	H205 (1) / H222 +10 / 0	H205 (1) / H222 -10 / 0	H205 (2) / H288 -10 / 0	H205 (2) / H288 -40 / 0	C/E 0% **A8** X X X	C/E 0% **A8** X X X	C/E -20% **C6** X X X	**28**
32	H205 (1) / H222 0 / 0	H205 (1) / H222 0 / 0	H205 (1) / H222 -10 / 0	H205 (2) / H288 -60 / 0	/	C/E -10% **A9** X X X	C/E -10% **A9** X X X	C/E -20% **C7** X X X	**32**
36	H205 (1) / H288 +20 / 0	H205 (1) / H288 +20 / 0	H205 (1) / H288 0 / 0	H205 (1) / H288 -60 / 0	/	A 0% **A8** X X -	C/E -10% **A9** X X X	C/E -20% **A9** X X X	**36**

spreading discs rev. 1100 rpm

Entec 26%

K+S Nitrogen

(scraper chain - spreaders, values for approx. 12 km/h)

H - discs spreading unit

density: 0,94 kg/l

grain size:

working width	(m)	normal spreading application rate (kg/ha) 80	150	300	450	600	border spreading application rate (kg/ha) 150	300	450	(m)
	24	H205 (2) / H288 +20 / 0	H205 (2) / H288 0 / 0	H205 (2) / H288 -40 / 0	H205 (2) / H288 -60 / 0	H205 (2) / H288 -60 / 0	C/E 0% **C6** X X X	C/E 0% **C5** X X X	C/E 0% **C5** X X X	**24**
	28	H205 (2) / H288 0 / 0	H205 (2) / H288 -20 / 0	H205 (2) / H288 -40 / 0	H205 (2) / H288 -60 / 0	H205 (2) / H288 -60 / 0	C/E 0% **A8** X X X	C/E 0% **A8** X X X	C/E -20% **C6** X X X	**28**
	32	H205 (2) / H288 0 / 0	H205 (2) / H288 -20 / 0	H205 (2) / H288 -20 / 0	H205 (2) / H288 -60 / 0	H205 (2) / H288 -60 / 0	C/E -10% **A9** X X X	C/E -10% **A9** X X X	C/E -20% **C7** X X X	**32**
	36	H205 (2) / H288 -20 / 0	H205 (2) / H288 -20 / 0	H205 (2) / H288 -60 / 0	H205 (2) / H288 -10 / 2	/	A 0% **A8** X X -	C/E -10% **A9** X X X	C/E -20% **A9** X X X	**36**
	40	/	H205 (2) / H288 -40 / 0	H205 (2) / H288 -60 / 0	/	/	A 0% **A9** X X -	A 0% **A9** X X -	/ 			**40**
	42	/	H205 (2) / H288 -50 / 0	/	/	/	A 0% **A9** X - -	/ |		/ |		**42**

spreading discs rev. 1100 rpm

Ammonsulfatsalpeter ASS26%

(scraper chain - spreaders, values for approx. 12 km/h) **H - discs spreading unit**

K+S Nitrogen

density: 0,96 kg/l

grain size: 2,7/**3,5**/4,4

working width (m)	normal spreading application rate (kg/ha) 80	150	300	450	600	border spreading application rate (kg/ha) 150	300	450	working width (m)
24	H205 (2) / H288 +30 / 2	H205 (2) / H288 +40 / 2	H205 (2) / H288 +10 / 0	H205 (2) / H288 -30 / 0	H205 (2) / H288 -60 / 0	C/E 0% **C6** X X X	C/E 0% **C5** X X X	C/E 0% **C5** X X X	**24**
28	H205 (2) / H288 +30 / 2	H205 (2) / H288 +20 / 0	H205 (2) / H288 (+5 / 0)	H205 (2) / H288 (-40 / 0)	H205 (2) / H288 -60 / 0	C/E 0% **A8** X X X	C/E 0% **A8** X X X	C/E -20% **C6** X X X	**28**
32	H205 (2) / H288 +20 / 2	H205 (2) / H288 (+20 / 2)	H205 (2) / H288 -20 / 0	H205 (2) / H288 (-60 / 0)	H205 (2) / H288 -60 / 0	C/E -10% **A9** X X X	C/E -10% **A9** X X X	C/E -20% **C7** X X X	**32**
36	H205 (2) / H288 -10 / 0	H205 (2) / H288 -20 / 0	H205 (2) / H288 -20 / 0	H205 (2) / H288 -60 / 0	/	A 0% **A8** X X -	C/E -10% **A9** X X X	C/E -20% **A9** X X X	**36**

spreading discs rev. 1100 rpm

( ) coefficient of variation between 15 and 20%

Domogran 45

DOMO Leuna

(scraper chain - spreaders, values for approx. 12 km/h)

H - discs spreading unit

density: 1,02 kg/l

grain size: 1,9/***2,6***/3,7

working width (m)	normal spreading application rate (kg/ha) 80	150	300	450	600	border spreading application rate (kg/ha) 150	300	450	(m)
18	H205 (3) / H288 0 / 2	H205 (3) / H288 +30 / 2	H205 (3) / H288 +30 / 2	H205 (3) / H288 +30 / 2	H205 (3) / H288 +30 / 2	C/E -15% **C6** X X X	C/E -15% **C5** X X X	C/E -15% **C5** X X X	**18**
24	/	H205 (3) / H288 0 / 0	H205 (3) / H288 0 / 0	H205 (3) / H288 0 / 0	H205 (3) / H288 -50 / 0	C/E -10% **A6** X X X	C/E -10% **A5** X X X	C/E -20% **A5** X X X	**24**
28	/	H205 (3) / H288 -20 / 0	H205 (3) / H288 -20 / 0	H205 (3) / H288 -50 / 0	/	C/E -10% **A6** X X X	C/E -20% **A6** X X X	C/E -20% **A5** X X X	**28**
32	/	spreading wings +40 / 3	spreading wings +40 / 3	spreading wings +40 / 3	/	C/E -10% **960 / C9** - - X	C/E -10% **960 / C9** - - X	C/E -20% **960 / C9** - - X	**32**
36	/	spreading wings +20 / 2	spreading wings +20 / 2	/	/	A 0% **960 / A9** - - -	C/E -10% **960 / A9** - - -	/ |		**36**

spreading discs rev. 1100 rpm (H-discs spreading unit)
spreading discs rev. 960 rpm (standard spreading unit with spreading wings)

Ammonium sulfate, crystalline

(scraper chain - spreaders, values for approx 12 km/h)

OCI Agro (DSM)

H - discs spreading unit

density: 1,10 kg/l
grain size: 0/**1,1**/1,9

working width (m)	normal spreading application rate (kg/ha) 80	150	300	450	600	border spreading application rate (kg/ha) 150	300	450	(m)
12	H205 (3) / H288 +30 / 1	H205 (3) / H288 +30 / 1	H205 (3) / H288 +30 / 1	H205 (3) / H288 +30 / 1	H205 (3) / H288 +30 / 1	C/E 0% **E4** X X X	C/E 0% **E4** X X X	C/E 0% **E3** X X X	**12**
14	H205 (3) / H288 +30 / 1	H205 (3) / H288 +30 / 1	H205 (3) / H288 +30 / 1	H205 (3) / H288 +30 / 1	H205 (3) / H288 +30 / 1	C/E 0% **A5** X X X	C/E 0% **C5** X X X	C/E 0% **C5** X X X	**14**
16	H205 (3) / H288 (+40 / 3)	H205 (3) / H288 +30 / 1	H205 (3) / H288 +30 / 1	H205 (3) / H288 +30 / 1	H205 (3) / H288 +30 / 1	C/E 0% **A9** X X -	C/E 0% **A9** X X X	C/E -20% **A9** X X X	**16**
18	H205 (2) / H288 (+60 / 3)	H205 (3) / H288 +60 / 3	H205 (2) / H288 +50 / 3	H205 (2) / H288 +50 / 3	H205 (2) / H288 +50 / 3	normal spreading	normal spreading	normal spreading	**18**

spreading discs rev. 1100 rpm

( ) coefficient of variation between 15 and 20%

Canwil S NS 27-4

Anwil Polen

(scraper chain - spreaders, values for approx 12 km/h)

H - discs spreading unit

density: 1,057 kg/l
grain size: 3,0/**3,7**/4,8

working width	(m)	normal spreading application rate (kg/ha) 80	150	300	450	600	border spreading application rate (kg/ha) 150	300	450	(m)
	24	H205 (1) / H288 +10 / 0	H205 (2) / H288 -10 / 0	H205 (2) / H288 -10 / 0	H205 (2) / H288 -30 / 0	H205 (2) / H288 -60 / 0	C/E 0% **C6** X X X	C/E 0% **C5** X X X	C/E 0% **C5** X X X	**24**
	28	/	H205 (2) / H288 -10 / 0	H205 (2) / H288 -10 / 0	H205 (2) / H288 -30 / 0	H205 (2) / H288 -60 / 0	C/E 0% **A8** X X X	C/E 0% **A8** X X X	C/E -20% **C6** X X X	**28**
	32	/	H205 (2) / H288 -10 / 0	H205 (2) / H288 -30 / 0	H205 (2) / H288 -60 / 0	/	C/E -10% **A9** X X X	C/E -10% **A9** X X X	C/E -20% **C7** X X X	**32**
	36	/	H205 (2) / H288 -10 / 0	H205 (2) / H288 -30 / 0	/	/	A 0% **A8** X X -	C/E -10% **A9** X X X	/	**36**
	40	/	H205 (1) / H288 +30 / 0	H205 (1) / H288 +30 / 0	/	/	A 0% **A9** X X -	C/E 0% **A9** X X -	/	**40**
	42	/	H205 (1) / H288 +10 / 0	/	/	/	A 0% **A9** X - -	/	/	**42**

spreading discs rev. 1100 rpm

Saletra amonova Ammoniumnitrat 34%

(scraper chain - spreaders, values for approx 12 km/h) **H - discs spreading unit**

Anwil Polen

density: 1,017 kg/l
grain size: 1,6/**2,2**/2,7

working width	(m)	normal spreading application rate (kg/ha) 80	150	300	450	600	border spreading application rate (kg/ha) 150	300	450	(m)
	24	H205 (0) / H288 +20 / 0	H205 (1) / H288 -40 / 0	H205 (2) / H288 +20 / 0	H205 (2) / H288 +20 / 0	H205 (2) / H288 0 / 0	C/E 0% **C6** X X X	C/E 0% **C5** X X X	C/E 0% **C5** X X X	**24**
	28	/	H205 (2) / H288 +30 / 0	H205 (2) / H288 +20 / 0	H205 (2) / H288 0 / 0	H205 (2) / H288 0 / 0	C/E 0% **A8** X X X	C/E 0% **A8** X X X	C/E -20% **C6** X X X	**28**
	32	/	H205 (1) / H288 +20 / 0	H205 (2) / H288 0 / 0	H205 (2) / H288 -20 / 0	H205 (1) / H288 -40 / 0	C/E -10% **A9** X X X	C/E -10% **A9** X X X	C/E -20% **C7** X X X	**32**
	36	/	/	H205 (1) / H288 0 / 0	H205 (1) / H288 0 / 0	/	/	C/E -10% **A9** X X X	C/E -20% **A9** X X X	**36**

spreading discs rev. 1100 rpm

Piagran 46(Urea granulated 46%)

(scraper chain - spreaders, values for approx 12 km/h)

SKW Piesteritz

H - discs spreading unit

density: 0,78 kg/l

grain size: 2,8/**3,2**/4,2

working width (m)	normal spreading application rate (kg/ha) 80	150	210	280	350	border spreading application rate (kg/ha) 150	280	350	(m)
24	H222 (2) / H222 +10 / 2	H222 (2) / H222 0 / 0	H222 (2) / H222 0 / 0	H222 (2) / H222 -10 / 0	H222 (2) / H222 -10 / 0	C/E 0% **A8** X X X	C/E 0% **A8** X X X	C/E -20% **C6** X X X	**24**
28	H222 (2) / H288 +10 / 0	H222 (2) / H288 +30 / 0	H222 (2) / H288 +10 / 0	H222 (2) / H288 0 / 0	H222 (2) / H288 -10 / 0	C/E -10% **A9** X X X	C/E -10% **A9** X X X	C/E -20% **C7** X X X	**28**
32	H222 (2) / H288 +10 / 0	H222 (2) / H288 +10 / 0	H222 (2) / H288 0 / 0	H222 (2) / H288 -10 / 0	H222 (2) / H288 -20 / 0	A 0% **A8** X X X	C/E -10% **A9** X X X	C/E -20% **A9** X X X	**32**
34	H222 (2) / H288 +10 / 2	H222 (2) / H288 -10 / 0	H222 (2) / H288 -10 / 0	H222 (2) / H288 -10 / 0	H222 (2) / H288 -20 / 0	A 0% **A9** X X -	C/E 0% **A9** X X -	C/E 0% **A9** X X X	**34**
36	H222 (2) / H288 0 / 2	H222 (2) / H288 -10 / 0	H222 (2) / H288 -10 / 0	/	/	A 0% **A9** X - -	/	/	**36**

spreading discs rev. 1100 rpm

Alzon 46 (Urea stabilized)

SKW Piesteritz

(scraper chain - spreaders, values for approx 12 km/h)

H - discs spreading unit

density: 0,78 kg/l

grain size: 2,8/**3,2**/4,2

working width (m)	normal spreading application rate (kg/ha) 80	150	210	280	350	border spreading application rate (kg/ha) 150	280	350	(m)
24	H222 (2) / H222 +10 / 2	H222 (2) / H222 0 / 0	H222 (2) / H222 -10 / 0	H222 (2) / H222 -10 / 0	H222 (2) / H222 -10 / 0	C/E 0% **A8** X X X	C/E 0% **A8** X X X	C/E -20% **C6** X X X	**24**
28	H222 (2) / H288 +10 / 0	H222 (2) / H288 +30 / 0	H222 (2) / H288 +10 / 0	H222 (2) / H288 +10 / 0	H222 (2) / H288 +10 / 0	C/E -10% **A9** X X X	C/E -10% **A9** X X X	C/E -20% **C7** X X X	**28**
32	H222 (2) / H288 +10 / 0	H222 (2) / H288 +10 / 0	H222 (2) / H288 0 / 0	H222 (2) / H288 -10 / 0	H222 (2) / H288 -10 / 0	A 0% **A8** X X X	C/E -10% **A9** X X X	C/E -20% **A9** X X X	**32**
34	H222 (2) / H288 +10 / 2	H222 (2) / H288 -10 / 0	H222 (2) / H288 -10 / 0	H222 (2) / H288 -10 / 0	H222 (2) / H288 -20 / 0	A 0% **A9** X X -	C/E 0% **A9** X X -	C/E 0% **A9** X X X	**34**
36	H222 (2) / H288 0 / 2	H222 (2) / H288 -10 / 0	H222 (2) / H288 -10 / 0	H222 (2) / H288 -20 / 0	/	A 0% **A9** X - -	A 0% **A9** X - -	/	**36**

spreading discs rev. 1100 rpm

Piamon

SKW Piesteritz

(scraper chain - spreaders, values for approx 12 km/h)

H - discs spreading unit

density: 0,77 kg/l

grain size: 2,2/**3,0**/4,0

working width (m)	normal spreading application rate (kg/ha) 80	150	210	280	350	border spreading application rate (kg/ha) 150	280	350	(m)
24	H205 (2) / H222 0 / 0	H205 (2) / H222 -10 / 0	H205 (2) / H222 -10 / 0	H205 (2) / H222 -10 / 0	H205 (2) / H222 -20 / 0	C/E 0% **A8** X X X	C/E 0% **A8** X X X	C/E -20% **C6** X X X	**24**
28	H205 (2) / H288 0 / 0	H205 (2) / H288 +10 / 0	H205 (2) / H288 0 / 0	H205 (2) / H288 -10 / 0	H205 (2) / H288 -10 / 0	A 0% **A8** X X -	C/E -10% **A9** X X X	C/E -20% **A9** X X X	**28**
32	H222 (3) / H288 0 / 0	H222 (3) / H288 -10 / 0	H222 (3) / H288 0 / 1	H222 (3) / H288 -20 / 0	/	A 0% **A9** X X -	C/E -10% **A9** X X -	/ 			**32**
34	/	H205 (2) / H288 -10 / 0	H222 (3) / H288 -20 / 0	/	/	A 0% **A9** X - -	/ |		/ |		**34**

spreading discs rev. 1100 rpm

Urea, prilled

SKW Piesteritz

(scraper chain - spreaders, values for approx 12 km/h)

H - discs spreading unit

density: 0,74 kg/l

grain size: 1,2/**1,7**/2,2

working width (m)	normal spreading application rate (kg/ha) 80	150	210	280	350	border spreading application rate (kg/ha) 150	280	350	working width (m)
12	H222 (3) / H222 +30 / 1	H222 (3) / H222 +30 / 1	H222 (3) / H222 +20 / 1	H222 (3) / H222 +20 / 1	H222 (3) / H222 +20 / 1	C/E 0% **C6** X X X	C/E 0% **C5** X X X	C/E 0% **C5** X X X	**12**
18	H205 (2) / H222 0 / 1	H205 (2) / H222 0 / 0	H222 (3) / H222 +20 / 1	H222 (3) / H222 +20 / 1	H222 (2) / H222 +10 / 1	A 0% **A9** X X -	C/E 0% **A9** X X -	C/E -20% **A9** X X -	**18**
21	/	H205 (2) / H222 0 / 1	H205 (2) / H222 0 / 0	H205 (2) / H222 -10 / 0	H205 (2) / H222 -10 / 0	A -10% **A9** X - -	A -10% **A9** X - -	A -20% **A9** X - -	**21**
24	/	H205 (2) / H222 0 / 0	H205 (2) / H288 +20 / 1	H205 (2) / H288 -10 / 0	H205 (2) / H288 0 / 0	normal spreading	normal spreading	normal spreading	**24**

spreading discs rev. 1100 rpm

DAP 16 - 48

Ammophos

(scraper chain - spreaders, values for approx 12 km/h)

H - discs spreading unit

density: 0,95 kg/l

grain size: 1,9/**2,9**/3,8

working width (m)	normal spreading application rate (kg/ha) 80	150	300	450	600	border spreading application rate (kg/ha) 150	300	450	working width (m)
24	H205 (2) / H288 0 / 0	H205 (2) / H288 0 / 0	H205 (2) / H288 -20 / 0	H205 (2) / H288 -40 / 0	H205 (2) / H288 -40 / 0	C/E 0% **C6** X X X	C/E 0% **C5** X X X	C/E 0% **C5** X X X	**24**
28	H205 (1) / H288 +10 / 0	H205 (2) / H288 0 / 0	H205 (2) / H288 -20 / 0	H205 (2) / H288 -40 / 0	H205 (2) / H288 -40 / 0	C/E 0% **A8** X X X	C/E 0% **A8** X X X	C/E -20% **C6** X X X	**28**
32	H205 (1) / H288 +10 / 0	H205 (1) / H288 0 / 0	H205 (1) / H288 -40 / 0	H205 (1) / H288 -60 / 0	/	C/E -10% **A9** X X X	C/E -10% **A9** X X X	C/E -20% **C7** X X X	**32**
36	/	H205 (1) / H288 -20 / 0	H205 (1) / H288 -40 / 0	/	/	A 0% **A8** X X -	C/E -10% **A9** X X X	/ |		**36**

spreading discs rev. 1100 rpm

Monoammonphosphat MAP 12 - 52 - 0

(scraper chain - spreaders, values for approx 12 km/h) **H - discs spreading unit**

Eurochem Agro

density: 0,993 kg/l
grain size: 2,2/**3,2**/4,0

working width (m)	normal spreading application rate (kg/ha) 80	150	300	450	600	border spreading application rate (kg/ha) 150	300	450	working width (m)
24	H205 (2) / H288 0 / 0	H205 (2) / H288 -10 / 0	H205 (2) / H288 -10 / 0	H205 (2) / H288 -10 / 0	H205 (2) / H288 -10 / 0	C/E 0% **C6** X X X	C/E 0% **C5** X X X	C/E 0% **C5** X X X	**24**
28	/	H205 (2) / H288 -30 / 0	H205 (2) / H288 -10 / 0	H205 (2) / H288 -10 / 0	H205 (1) / H288 -40 / 0	C/E 0% **A8** X X X	C/E 0% **A8** X X X	C/E -20% **C6** X X X	**28**
32	/	H205 (2) / H288 -30 / 0	H205 (2) / H288 -10 / 0	H205 (2) / H288 -40 / 0	H205 (1) / H288 -40 / 0	C/E -10% **A9** X X X	C/E -10% **A9** X X X	C/E -20% **C7** X X X	**32**
36	/	H205 (1) / H288 -20 / 0	H205 (1) / H288 -40 / 0	H205 (1) / H288 -40 / 0	H205 (1) / H288 -40 / 0	A 0% **A8** X X -	C/E -10% **A9** X X X	C/E -10% **C8** X X X	**36**
40	/	H205 (1) / H288 -20 / 0	H205 (1) / H288 -40 / 0	/	/	A 0% **A9** X X -	C/E 0% **A9** X X -	/ 			**40**
42	/	H205 (1) / H288 -40 / 0	/	/	/	A 0% **A9** X - -	/ |		/ |		**42**

spreading discs rev. 1100 rpm

PK(S) 12 + 24 (+6)

Eurochem Agro

(scraper chain - spreaders, values for approx 12 km/h) **H - discs spreading unit**

density: 1,226 kg/l

grain size: 2,4/**3,1**/4,1

working width (m)	normal spreading – application rate (kg/ha) 80	150	300	450	600	border spreading – application rate (kg/ha) 150	300	450	(m)
24	H205 (2) / H222 -20 / 0	H205 (2) / H222 0 / 0	H205 (2) / H2 -20 / 0	H205 (2) / H222 -40 / 0	H205 (2) / H222 -60 / 0	C/E 0% **C6** X X X	C/E 0% **C5** X X X	C/E 0% **C5** X X X	**24**
28	H205 (2) / H222 0 / 0	H205 (2) / H222 0 / 0	H205 (2) / H222 -20 / 0	H205 (2) / H222 -40 / 0	/	C/E 0% **A8** X X X	C/E 0% **A8** X X X	C/E -20% **C6** X X X	**28**
32	/	H205 (2) / H222 0 / 0	H205 (2) / H222 -40 / 0	H205 (2) / H222 -40 / 0	/	C/E -10% **A9** X X X	C/E -10% **A9** X X X	C/E -20% **C7** X X X	**32**
36	/	H205 (2) / H288 0 / 0	/	/	/	A 0% **A8** X X -	/ |		/ |		**36**
40	/	H205 (2) / H288 -40 / 0	/	/	/	A 0% **A9** X X -	/ |		/ |		**40**
42	/	H205 (2) / H288 -40 / 0	/	/	/	A 0% **A9** X - -	/ |		/ |		**42**

spreading discs rev. 1100 rpm

Triplesuper - Phosphat TSP 45%

ICL fertilizers

(scraper chain - spreaders, values for approx 12 km/h) **H - discs spreading unit**

density: 1,039 kg/l

grain size: 2,5/**3,1**/3,9

working width (m)	normal spreading application rate (kg/ha) 80	150	300	450	600	border spreading application rate (kg/ha) 150	300	450	working width (m)
24	H205 (2) / H222 -20 / 0	H205 (2) / H222 -20 / 0	H205 (2) / H222 -20 / 0	H205 (2) / H222 -60 / 0	/	C/E 0% **C6** X X X	C/E 0% **C5** X X X	C/E 0% **C5** X X X	**24**
28	H205 (2) / H222 -20 / 0	H205 (2) / H222 -40 / 0	H205 (2) / H222 -20 / 0	H205 (2) / H222 -40 / 0	/	C/E 0% **A8** X X X	C/E 0% **A8** X X X	C/E -20% **C6** X X X	**28**
32	/	H205 (2) / H288 0 / 0	H205 (2) / H288 0 / 0	H205 (2) / H288 -20 / 0	/	C/E -10% **A9** X X X	C/E -10% **A9** X X X	C/E -20% **C7** X X X	**32**
36	/	H205 (2) / H288 -40 / 0	H205 (2) / H288 -40 / 0	H205 (2) / H288 -40 / 0	/	A 0% **A8** X X -	C/E -10% **A9** X X X	C/E -10% **C8** X X X	**36**

spreading discs rev. 1100 rpm

Corn kali with 6%MgO

K+S

(scraper chain - spreaders, values for approx 12 km/h)

H - discs spreading unit

density: 1,07 kg/l
grain size 2,1/**3,0**/4,2

working width (m)	normal spreading application rate (kg/ha) 80	150	300	450	600	border spreading application rate (kg/ha) 150	300	450	(m)
24	H205 (2) / H222 (+50 / 2)	H205 (2) / H222 (+40 / 2)	H205 (3) / H288 +20 / 0	H205 (3) / H288 -10 / 0	H205 (3) / H288 0 / 0	C/E 0% **C6** X X X	C/E 0% **C5** X X X	C/E 0% **C5** X X X	**24**
28	H205 (2) / H222 +40 / 2	H205 (2) / H222 +40 / 2	H205 (3) / H288 0 / 0	H205 (3) / H288 -20 / 0	H205 (3) / H288 -60 / 0	C/E 0% **A8** X X X	C/E 0% **A8** X X X	C/E -20% **C6** X X X	**28**
32	H205 (2) / H222 +20 / 2	H205 (2) / H222 +20 / 0	H205 (3) / H288 -10 / 0	H205 (3) / H288 -60 / 0	H205 (3) / H288 -60 / 0	C/E -10% **A9** X X X	C/E -10% **A9** X X X	C/E -20% **C7** X X X	**32**
36	/	H205 (3) / H288 (-40 / 0)	H205 (3) / H288 -60 / 0	H205 (3) / H288 (-60 / 0)	H205 (3) / H288 (-60 / 0)	A 0% **A8** X X -	C/E -10% **A9** X X X	C/E -20% **A9** X X X	**36**

spreading discs rev. 1100 rpm

( ) coefficient of variation between 15 and 20%

Kali 60
K+S

(scraper chain - spreaders, values for approx 12 km/h)

H - discs spreading unit

density: 1,085 kg/l
grain size: 2,3/**3,2**/4,4

working width (m)	normal spreading, application rate (kg/ha) 80	150	300	450	600	border spreading, application rate (kg/ha) 150	300	450	(m)
24	H205 (2) / H288 (0 / 0)	H205 (3) / H288 0 / 0	H205 (3) / H288 0 / 0	H205 (3) / H288 0 / 0	/	C/E -10% **A5** X X X	C/E -10% **A4** X X X	C/E -10% **A4** X X X	**24**
28	/	H205 (3) / H288 (0 / 0)	H205 (3) / H288 0 / 0	H205 (3) / H288 0 / 0	/	C/E 0% **A6** X X X	C/E 0% **A5** X X X	C/E -10% **A5** X X X	**28**
32	spreading wings +50 / 3	spreading wings +50 / 3	spreading wings +10 / 0	spreading wings +10 / 0	/	C/E 0% **960 / C9** - - -	C/E 0% **960 / C9** - - -	C/E -20% **960 /C9** - - -	**32**
36	/	/	spreading wings (+10 / 1)	/	/	/ - - -	C/E 0% **960 / A9** - - -	/ - - -	**36**

spreading discs rev. 1100 rpm (H-discs spreading unit)
spreading discs rev. 960 rpm (standard spreading unit with spreading wings)

( ) coefficient of variation between 15 and 20%

Kieserit

K+S

(scraper chain - spreaders, values for approx 12 km/h)

H - discs spreading unit

density: 1,29 kg/l

grain size: 2,9/**3,7**/5,1

		normal spreading					border spreading									
		application rate (kg/ha)					application rate (kg/ha)									
	(m)	80	150	300	450	600	150			300			450			(m)
Streubreite	**24**	H205 (1) / H222 0 / 0	H205 (1) / H222 -20 / 0	H205 (1) / H222 -20 / 0	H205 (1) / H222 -60 / 0	/	C/E 0% **C6**			C/E 0% **C5**			C/E 0% **C5**			**24**
							X	X	X	X	X	X	X	X	X	
	28	H205 (1) / H222 -40 / 0	H205 (1) / H222 -20 / 0	H205 (1) / H222 -20 / 0	H205 (1) / H222 -20 / 0	/	C/E 0% **A8**			C/E 0% **A8**			C/E -20% **C6**			**28**
							X	X	X	X	X	X	X	X	X	
	32	H205 (1) / H222 -40 / 0	H205 (1) / H222 -20 / 0	H205 (1) / H222 -40 / 0	H205 (1) / H222 -40 / 0	/	C/E -10% **A9**			C/E -10% **A9**			C/E -20% **C7**			**32**
							X	X	X	X	X	X	X	X	X	
	36	H205 (1) / H222 +10 / 0	H205 (1) / H222 -30 / 0	H205 (1) / H222 -40 / 0	/	/	A 0% **A8**			C/E -10% **A9**			/			**36**
							X	X	-	X	X	X				
	40	/	H205 (1) / H222 -40 / 0	H205 (1) / H222 -40 / 0	/	/	A 0% **A9**			A 0% **A9**			/			**40**
							X	X	-	X	X	-				

spreading discs rev. 1100 rpm