

XVIII ENCONTRO E
III FEIRA NACIONAL DO
AMENDOIM
JABOTICABAL - SP



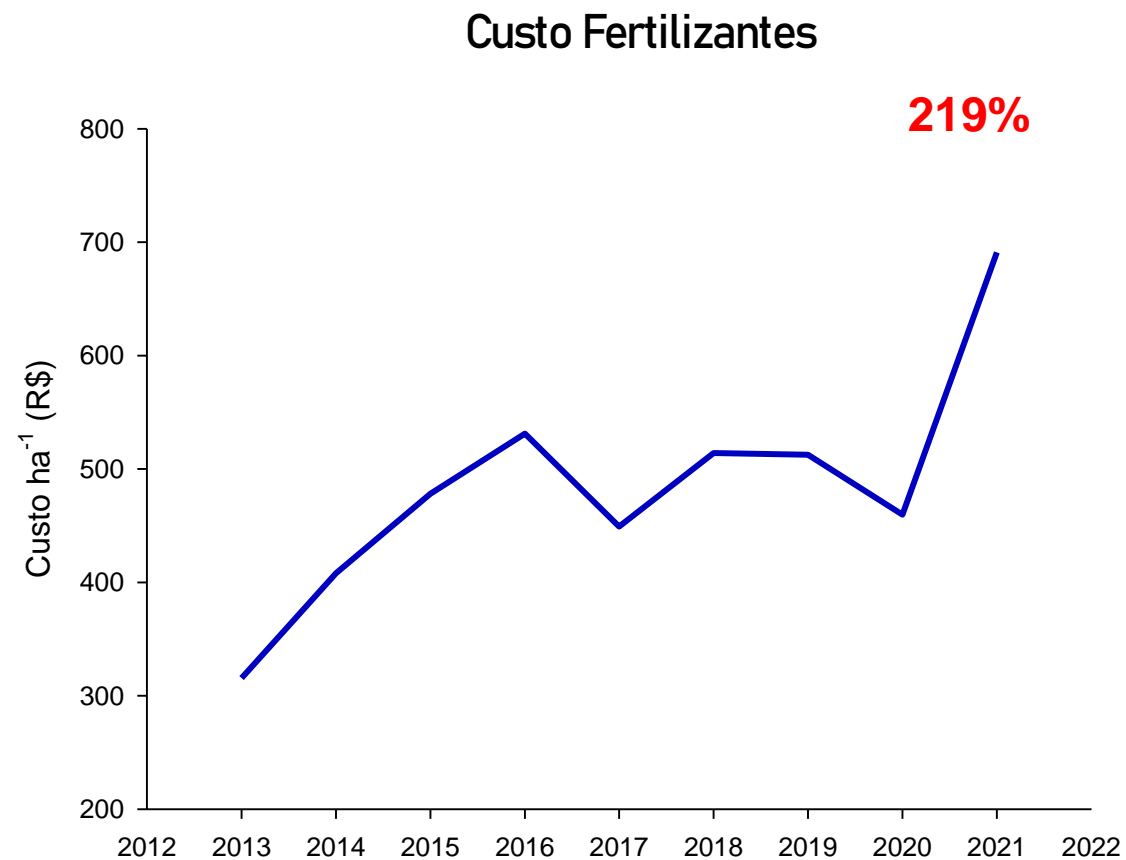
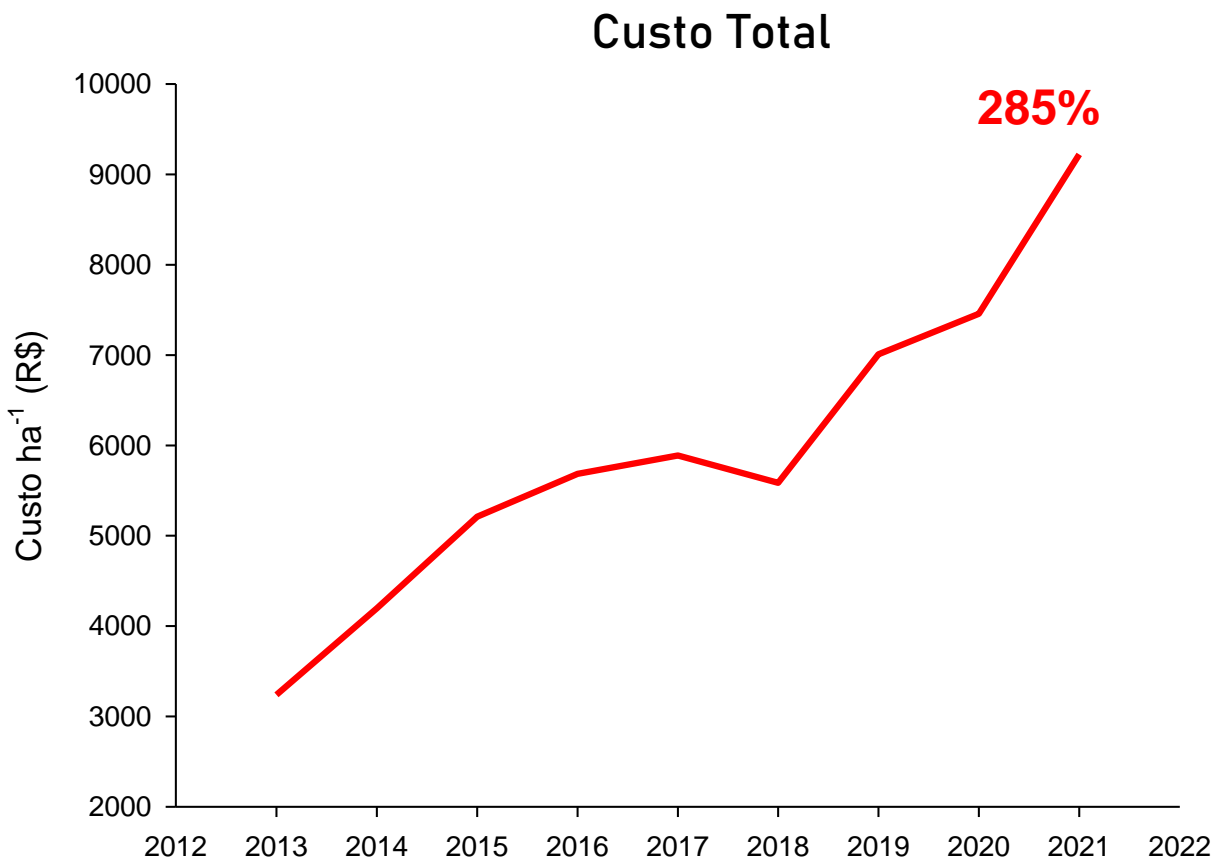
Quando compensa adubar a cultura do amendoim?



Prof. Dr. Carlos Alexandre Costa Crusciol
UNESP, Campus Botucatu

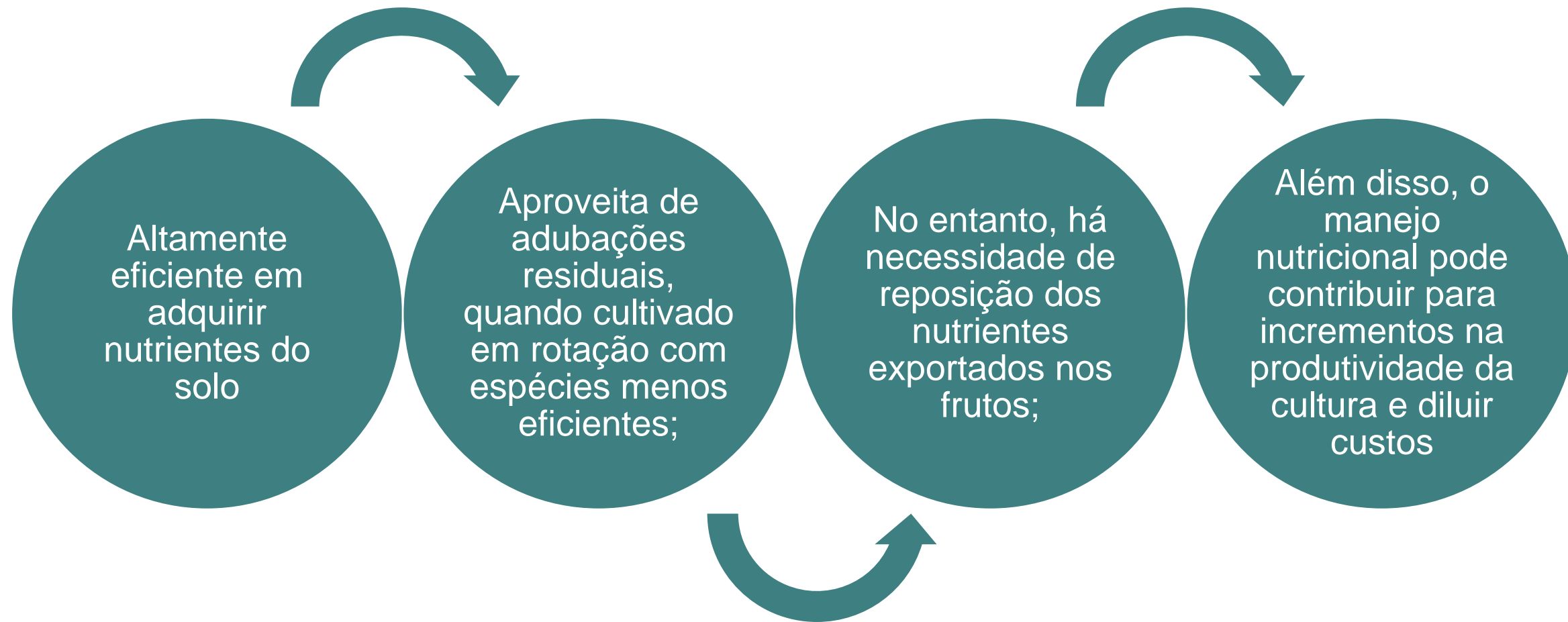
12/08/2022

Custo de produção de amendoim no estado de São Paulo



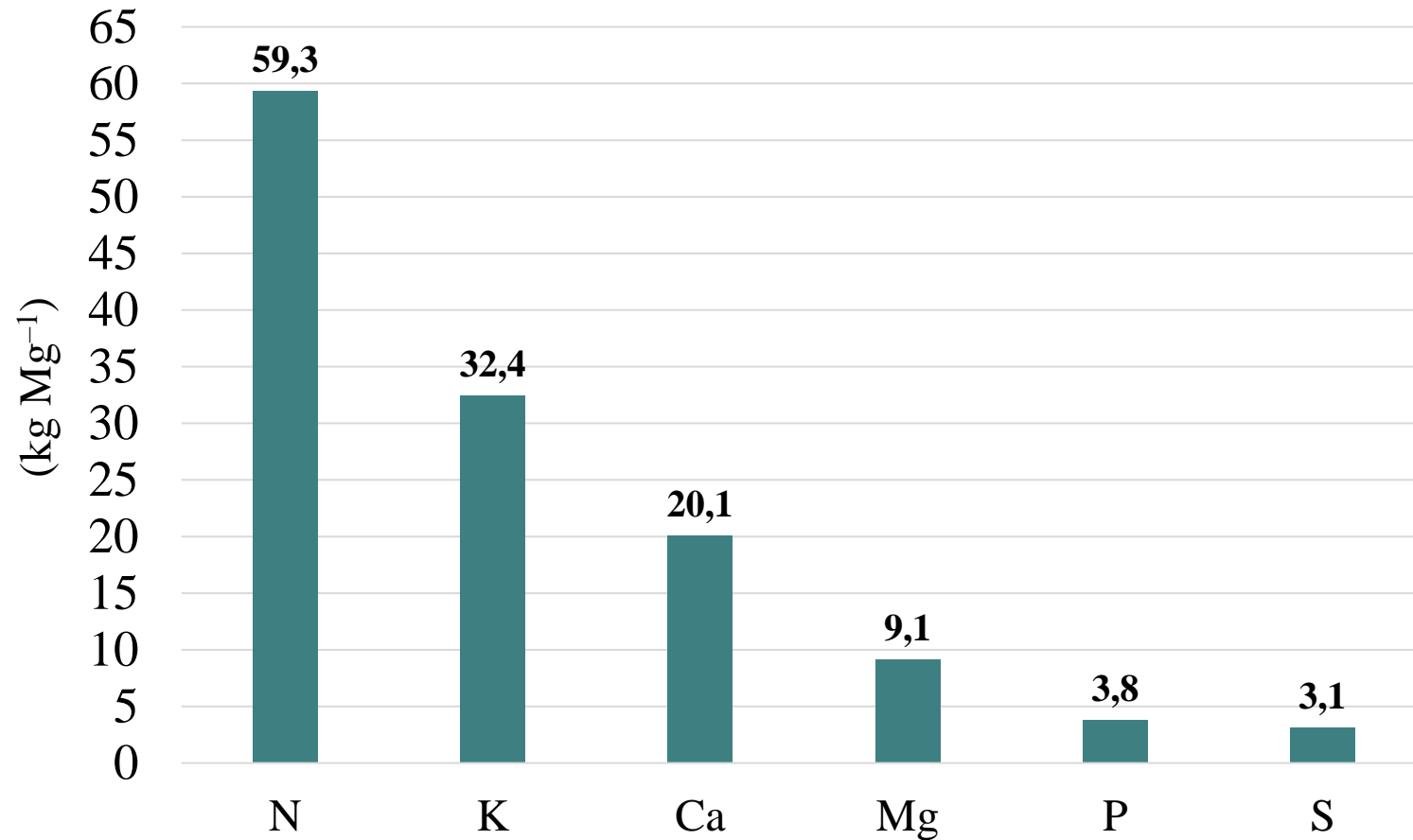
Fonte: Conab, 2021

Amendoim:



Exigência Nutricional

Exigência de macronutrientes para produzir uma tonelada de vagens



Adubação fosfatada



Cultivares: IAC OL3 e IAC 503

Doses de P_2O_5 : 0, 40, 80, 120 e 160 kg ha⁻¹

Três teores de P no solo: baixo, médio e alto

Áreas (2019/2020): Taquaritinga, Barretos, Cruz das Posses

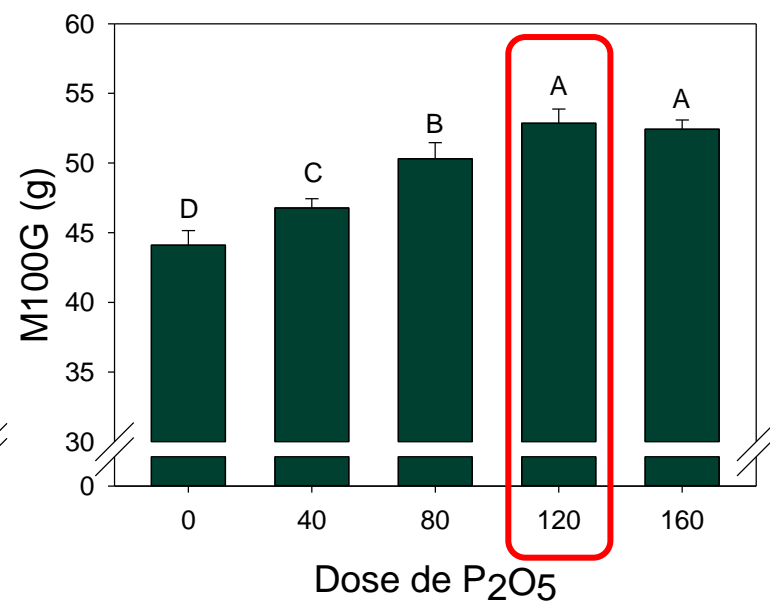
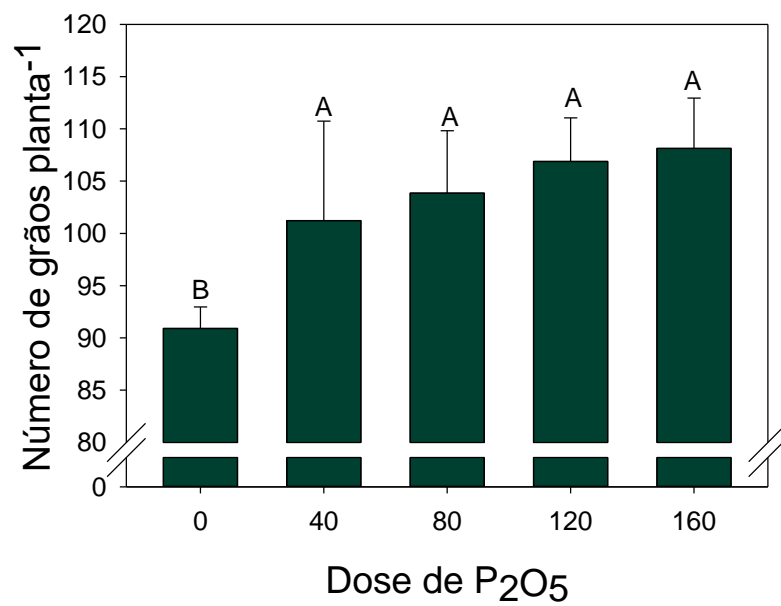
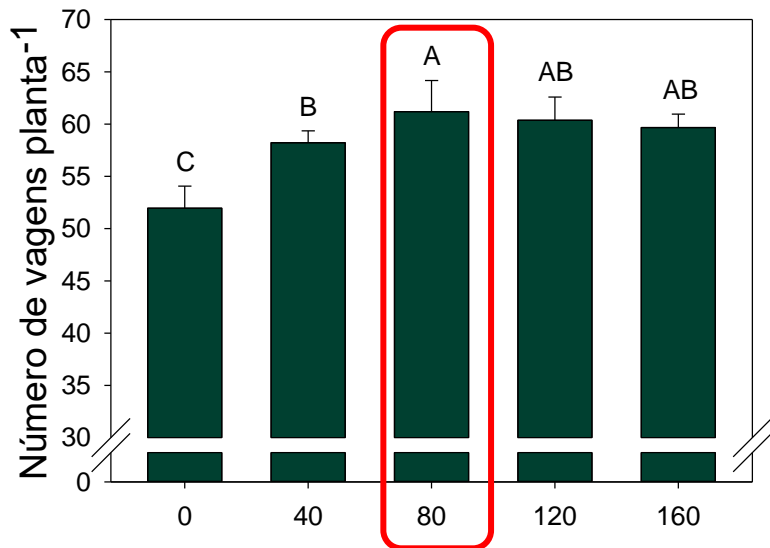
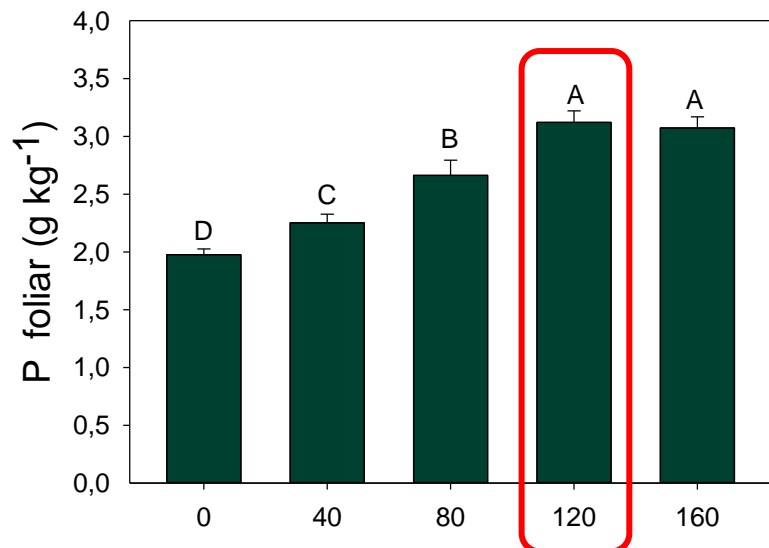
Áreas (2020/2021): Analândia, Araquara, Cruz das Posses, Ibitiúva

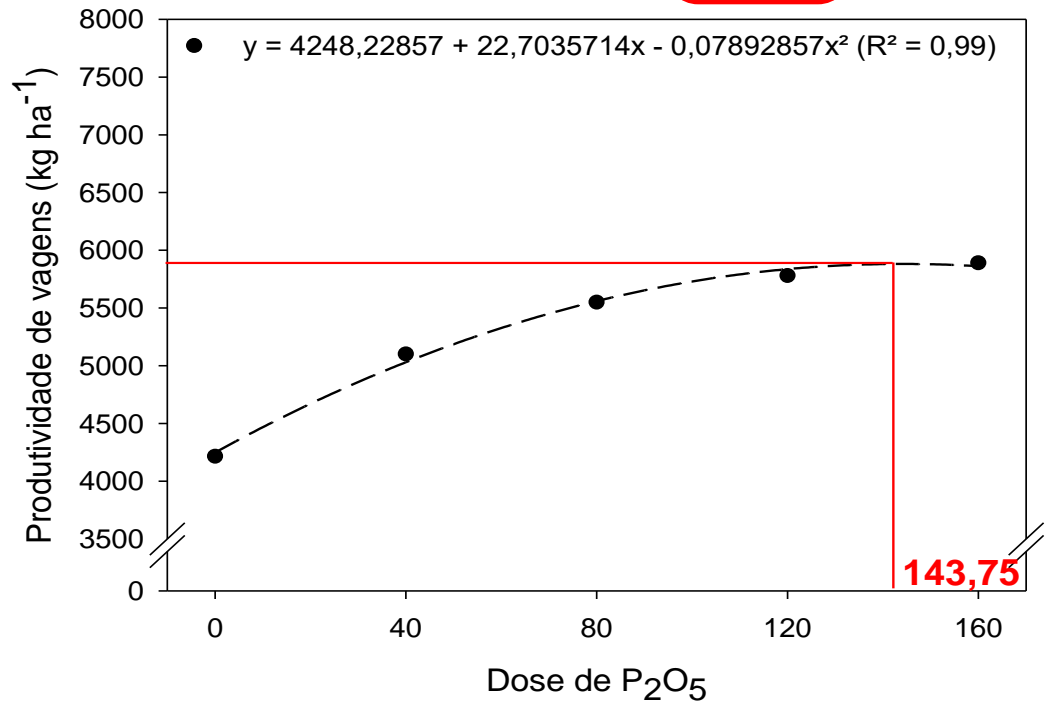
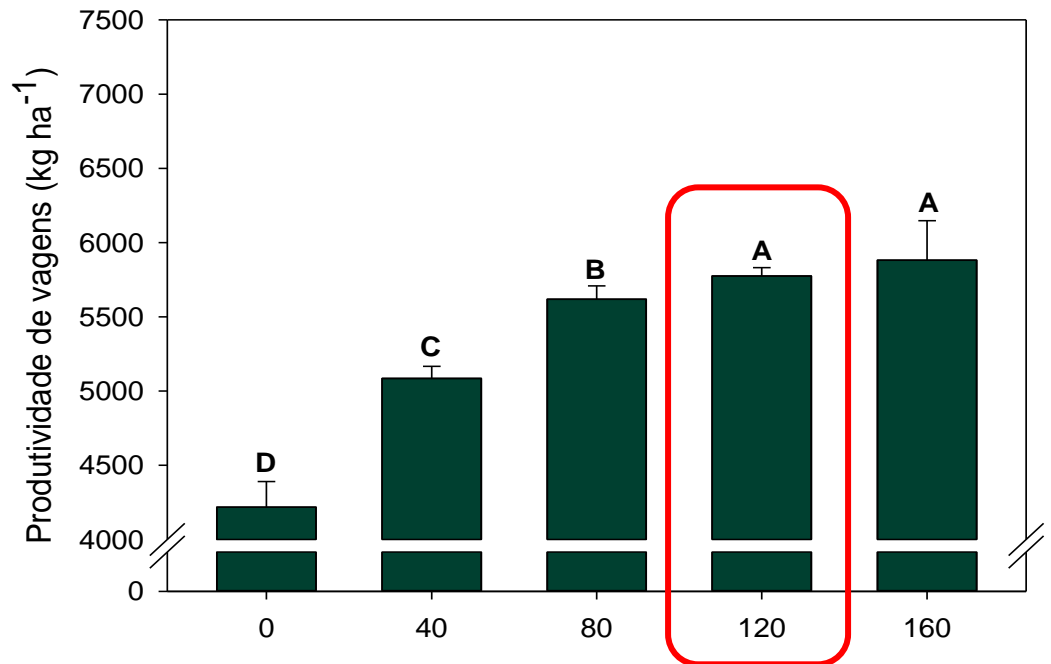
Densidade de plantas: 15 sementes m⁻¹

Espaçamento: 0,90 m

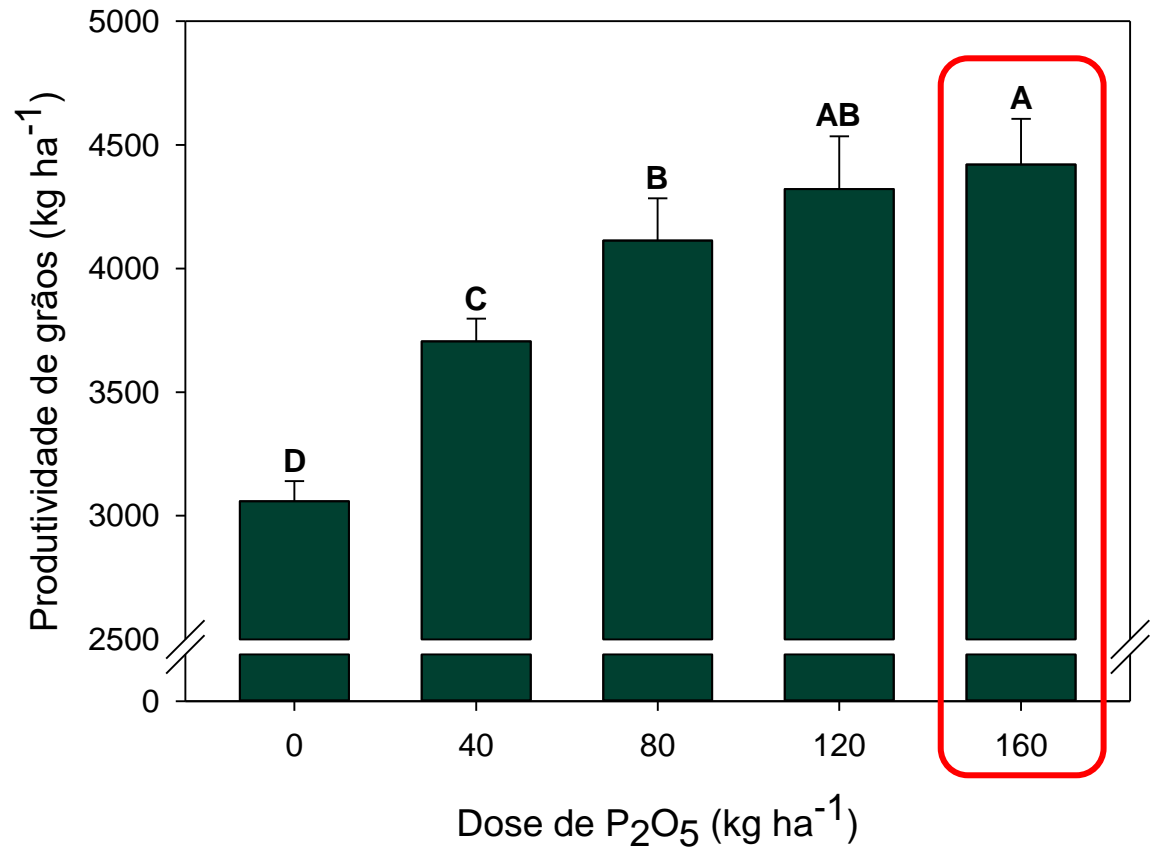


Baixo Teor de P no solo: 10 mg dm⁻³



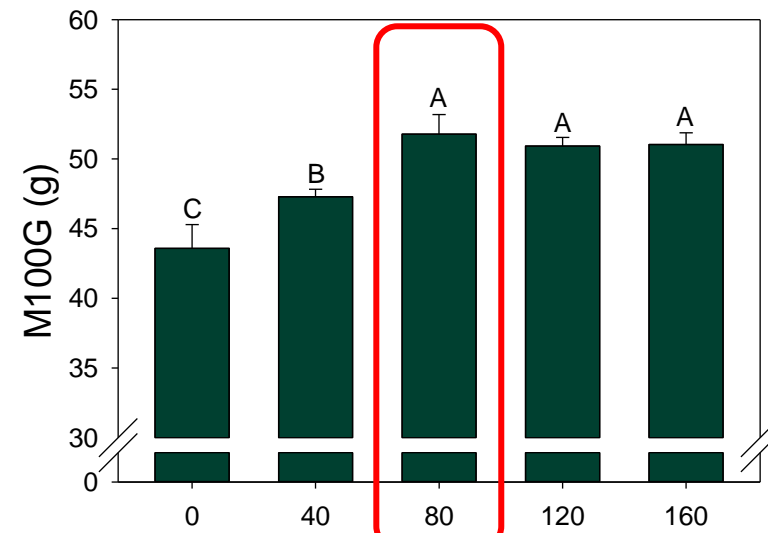
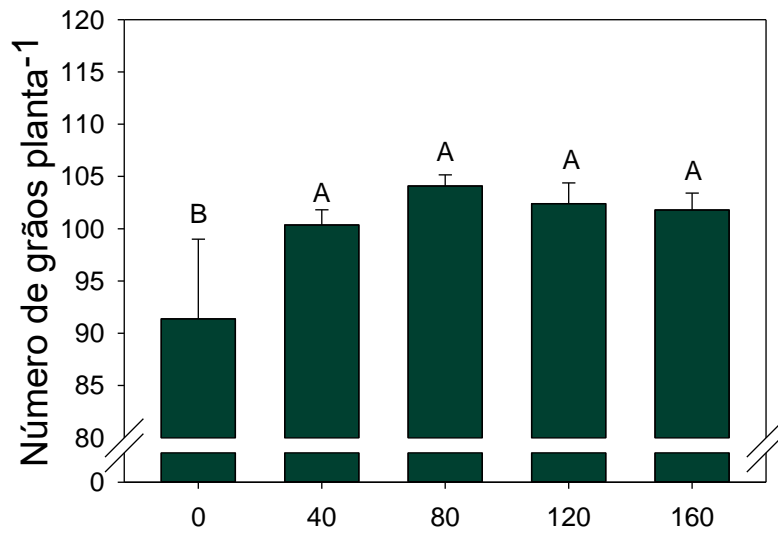
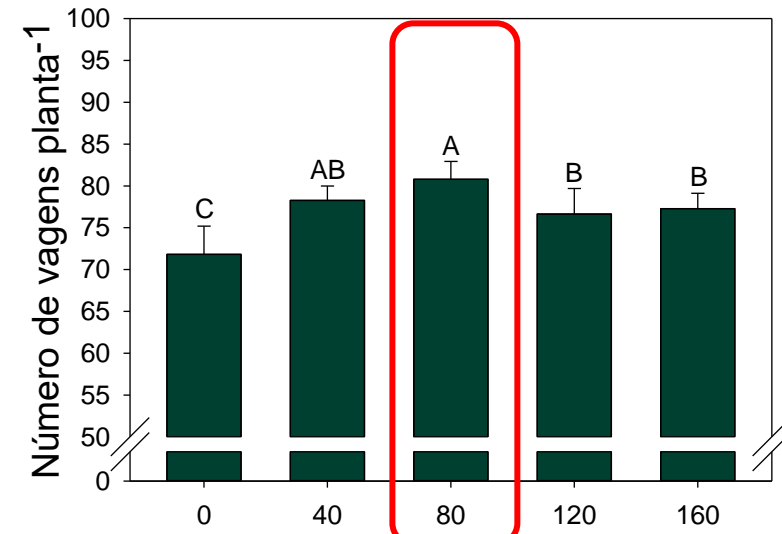
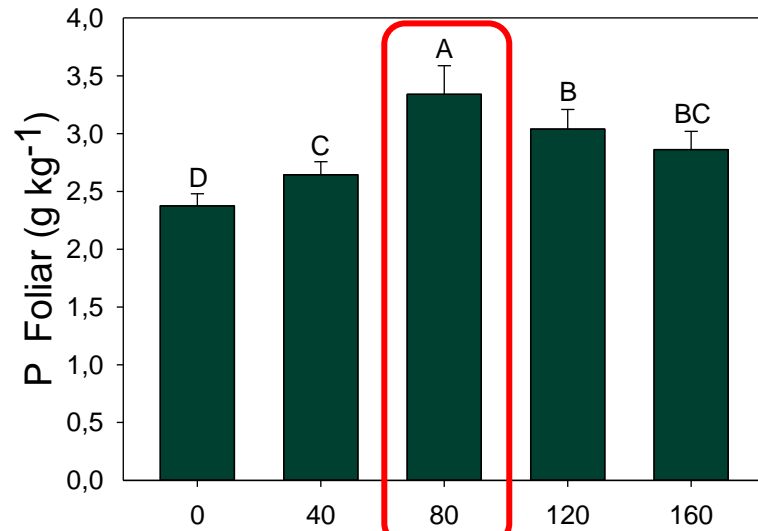


Baixo Teor de P no solo: 10 mg dm⁻³



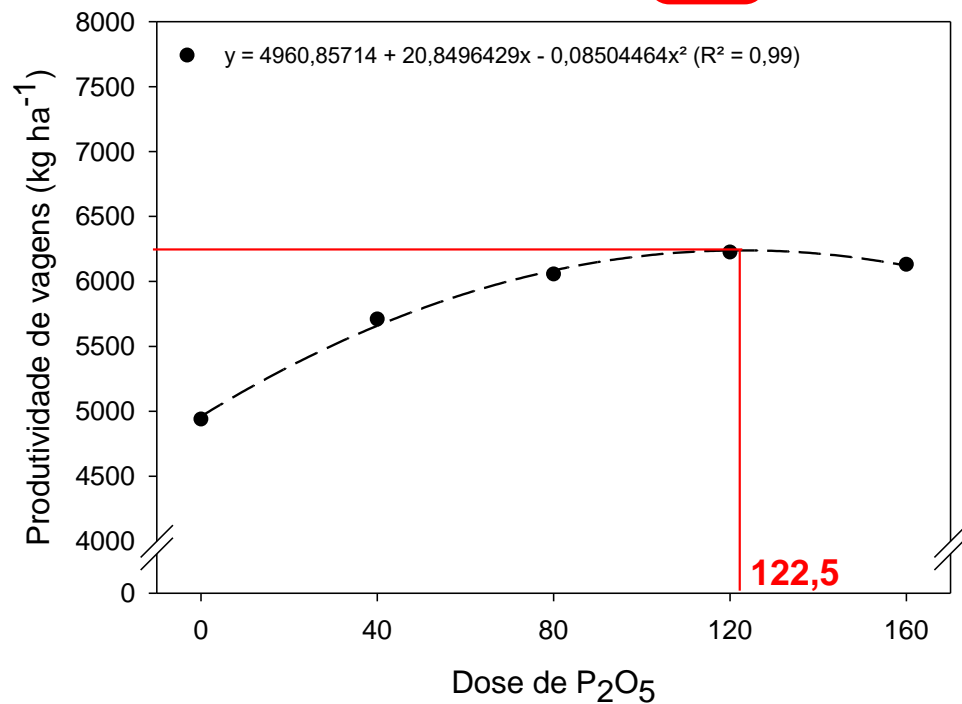
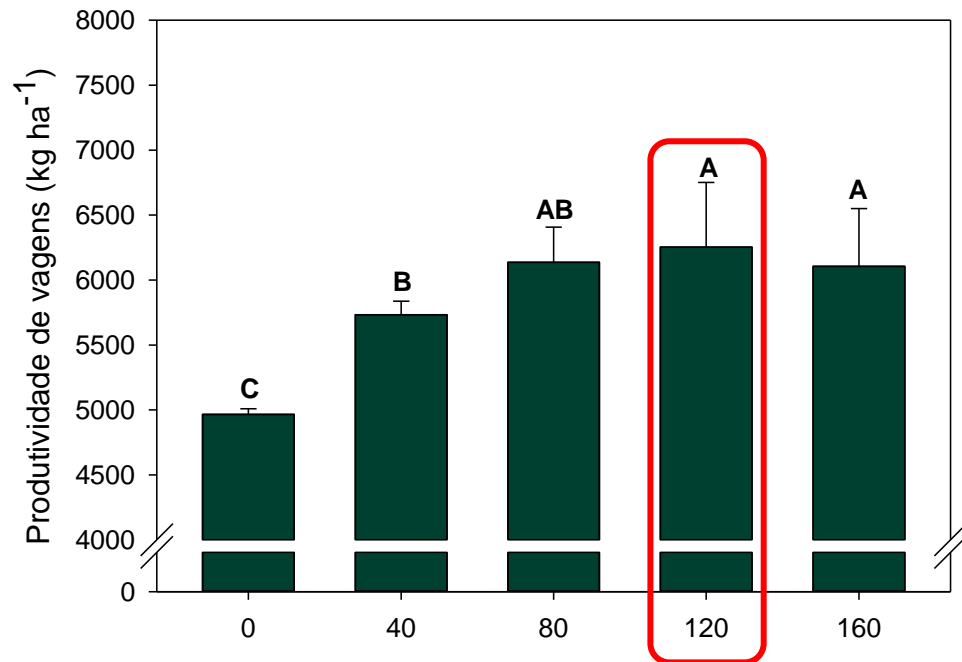
Médio Teor de P no solo: 20 mg dm⁻³

Médio Teor de P no solo: 20 mg dm⁻³

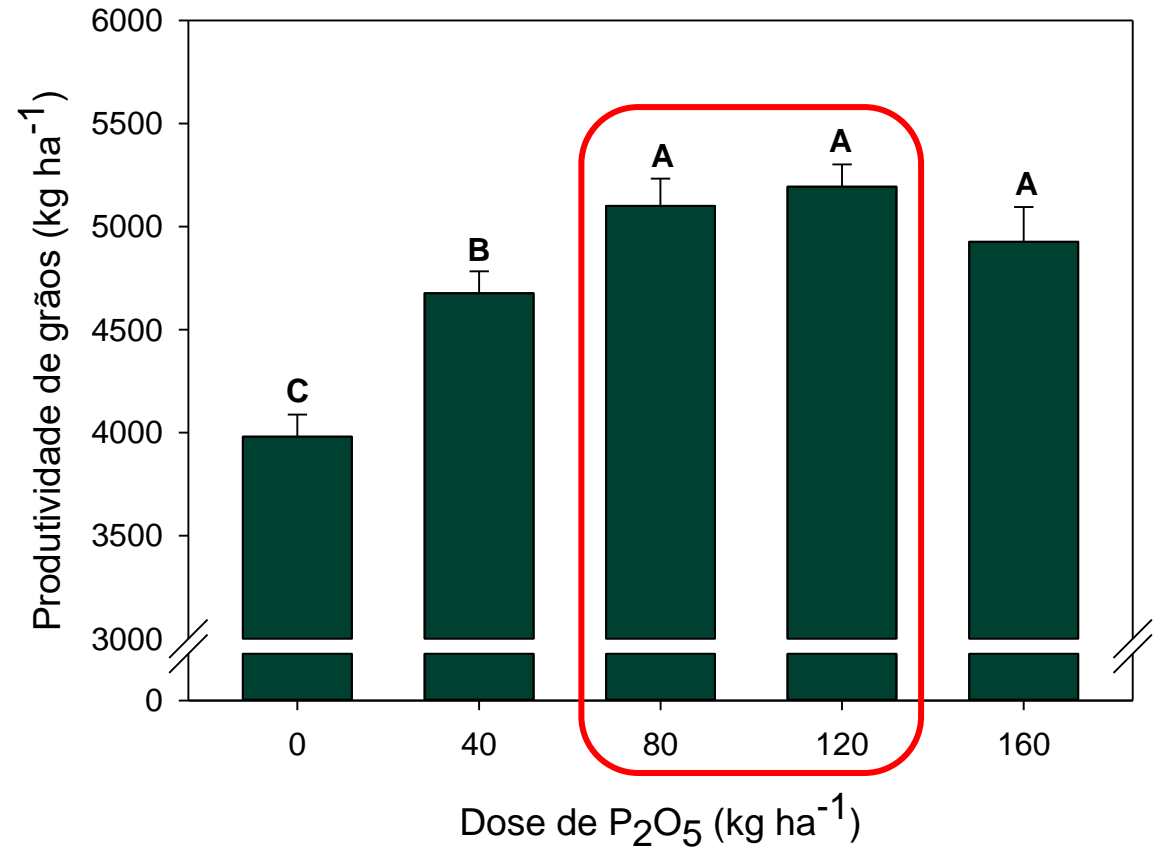


Dose de P₂O₅

Dose de P₂O₅

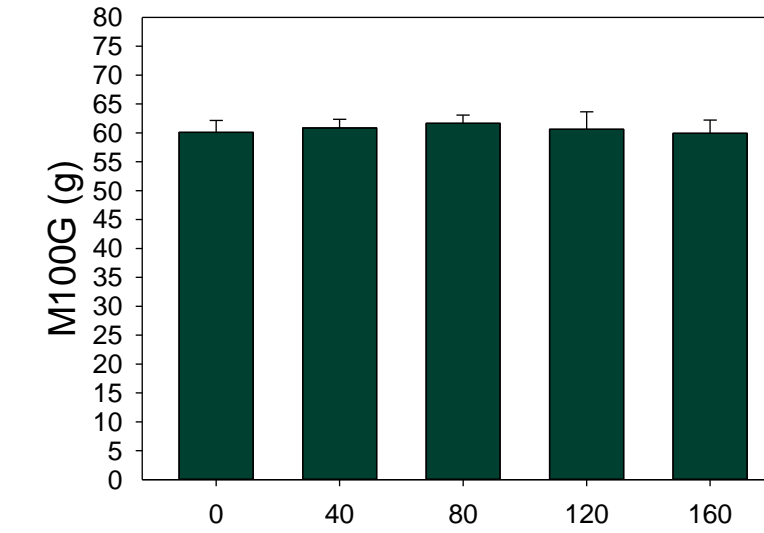
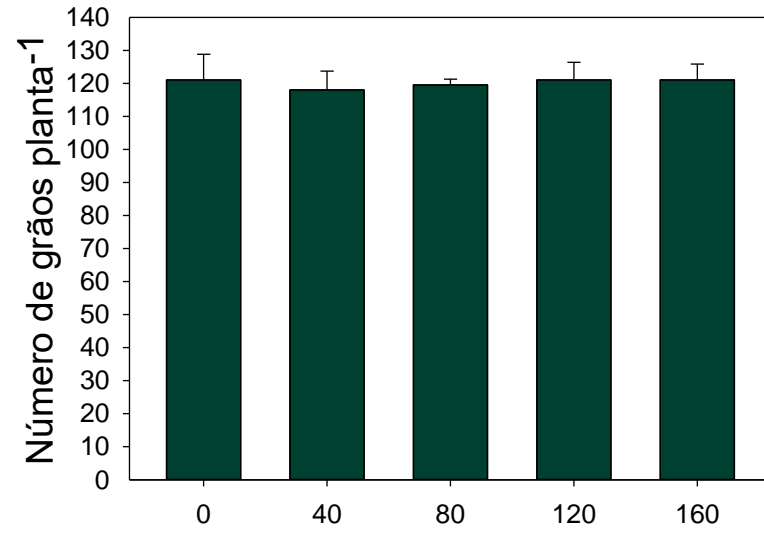
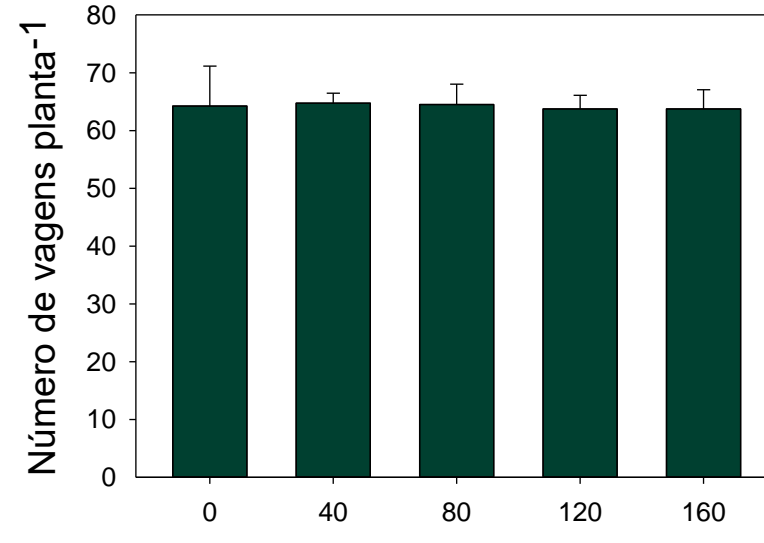
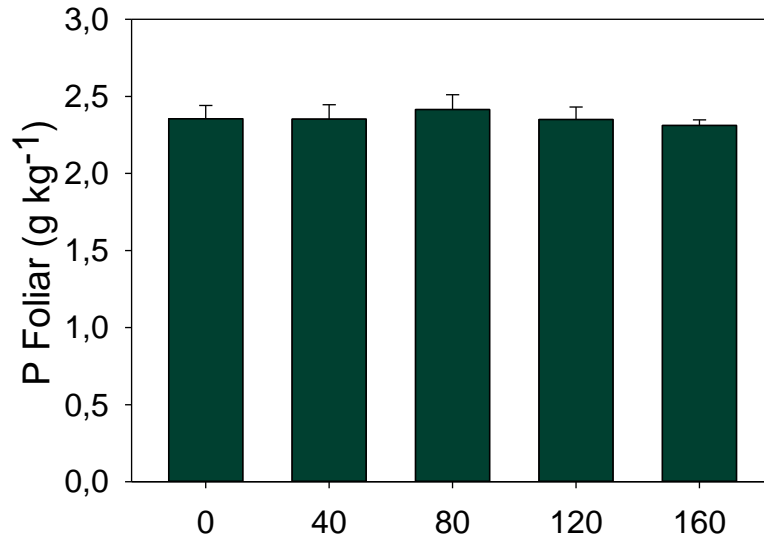


Médio Teor de P no solo: 20 mg dm⁻³



Alto Teor de P no solo: 43 mg dm⁻³

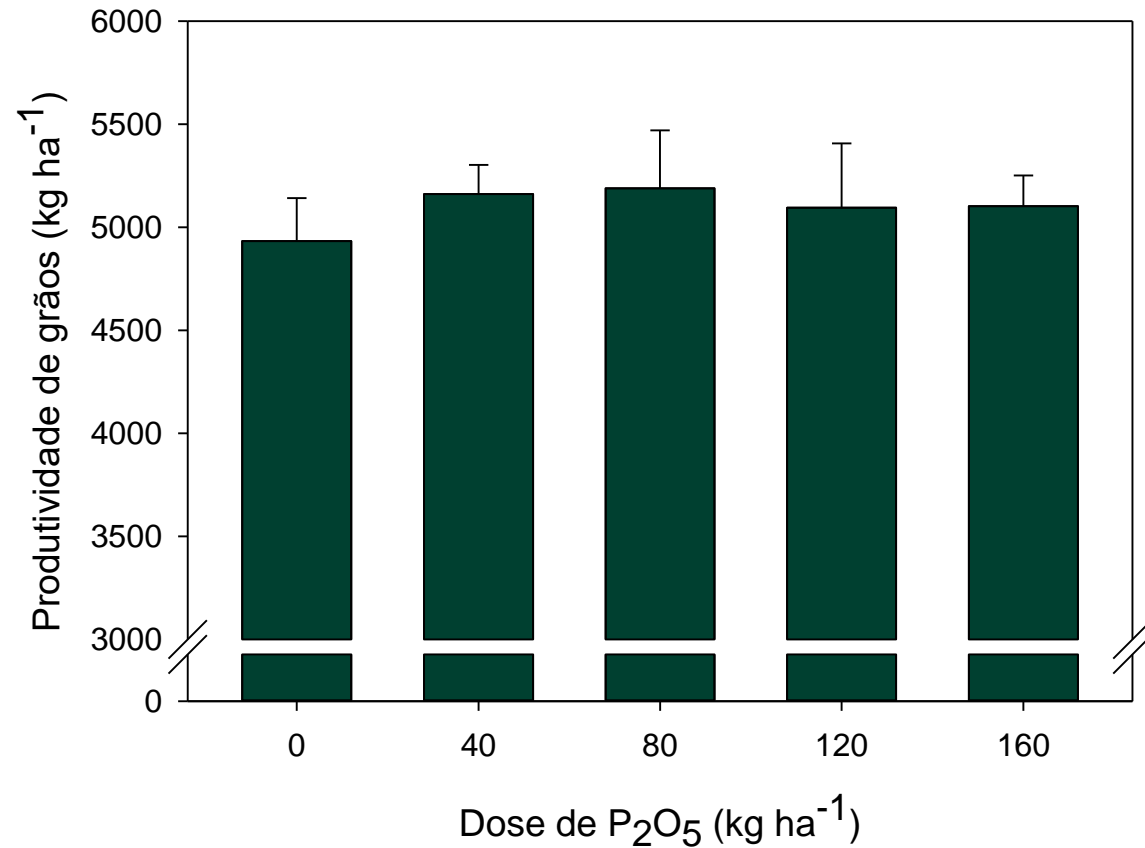
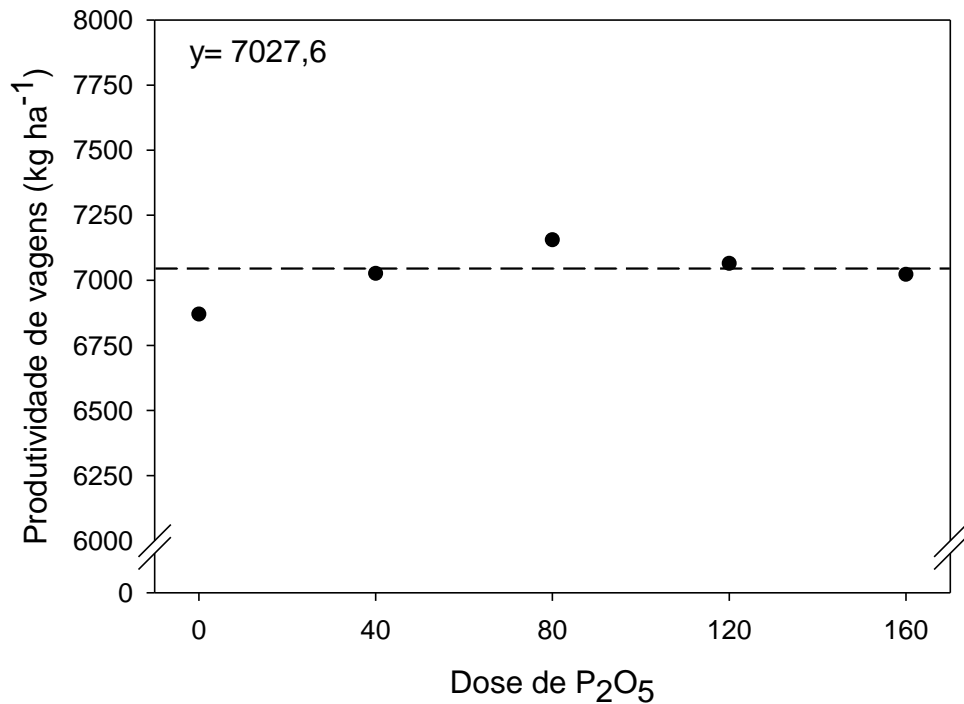
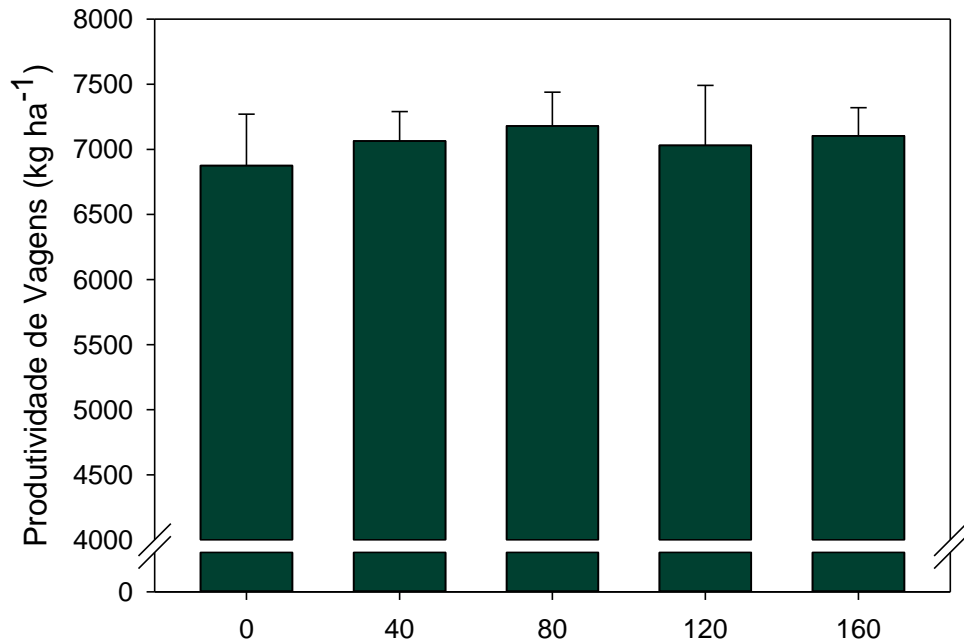
Alto Teor de P no solo: 43 mg dm⁻³



Dose de P₂O₅

Dose de P₂O₅

Alto Teor de P no solo: 43 mg dm⁻³





Adubação Potássica

Cultivares: IAC OL3 e IAC 503

Doses de K_2O : 0, 40, 80, 120 e 160 kg ha⁻¹

Três teores de K no solo: baixo, médio e alto

Áreas (2019/2020): Taquaritinga, Barretos, Cruz das Posses

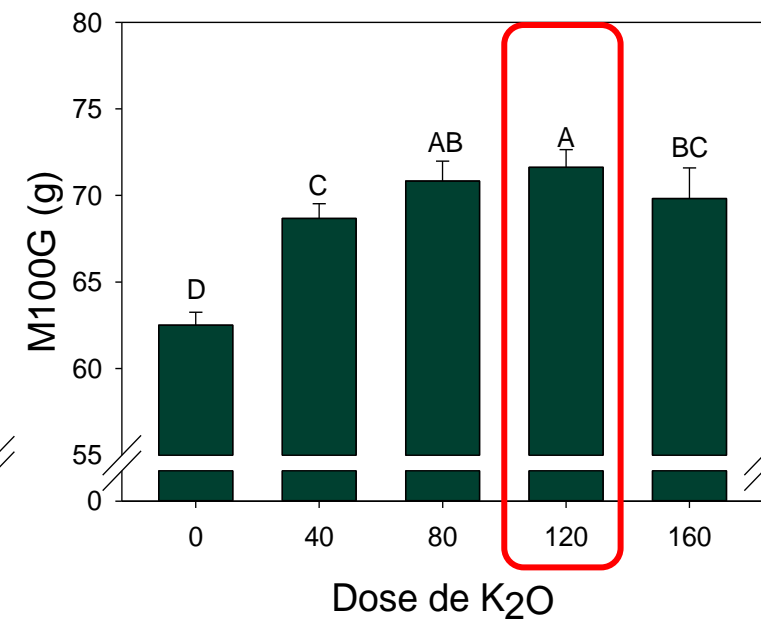
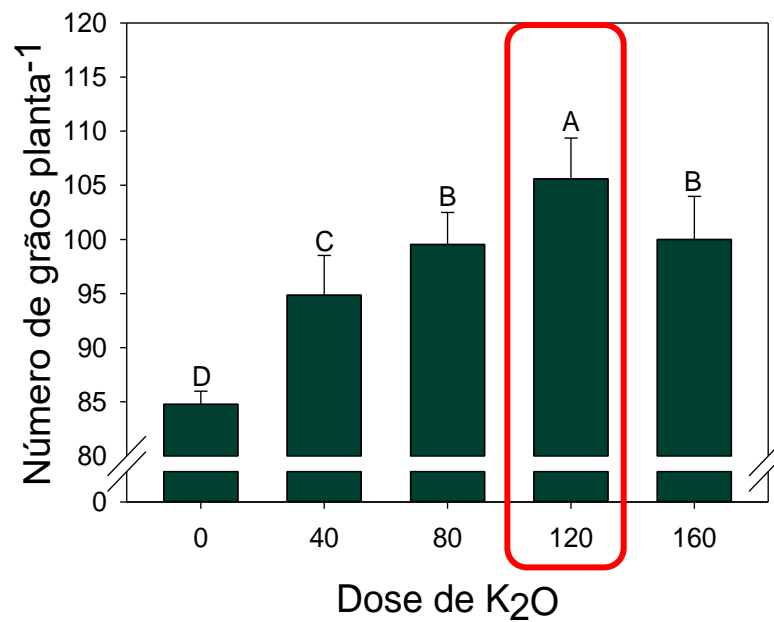
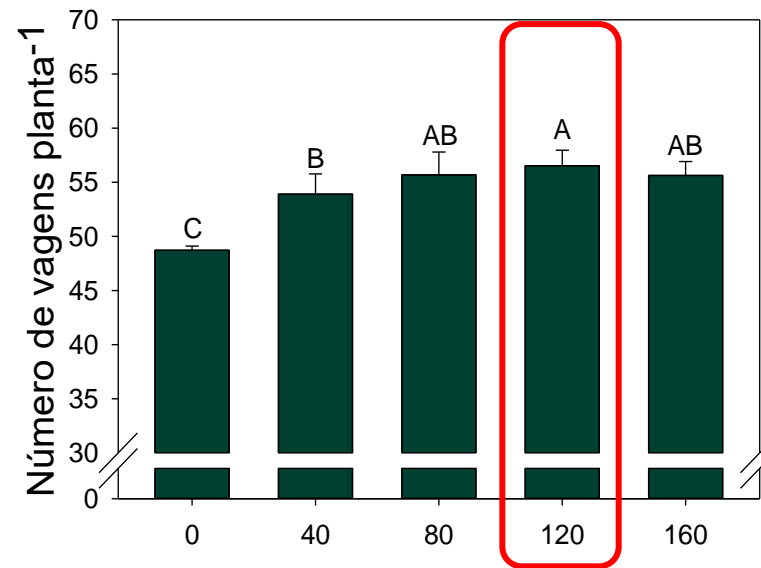
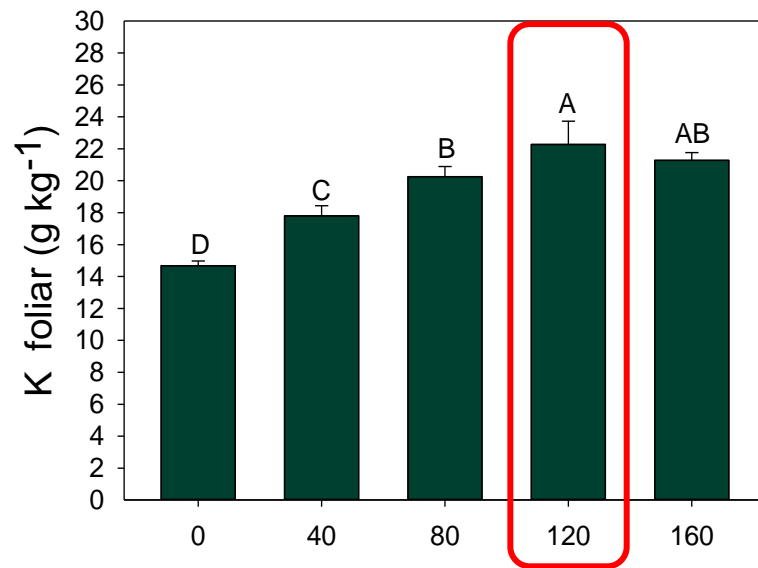
Áreas (2020/2021): Analândia, Araquara, Cruz das Posses, Ibitiúva

Densidade de plantas: 15 sementes m⁻¹

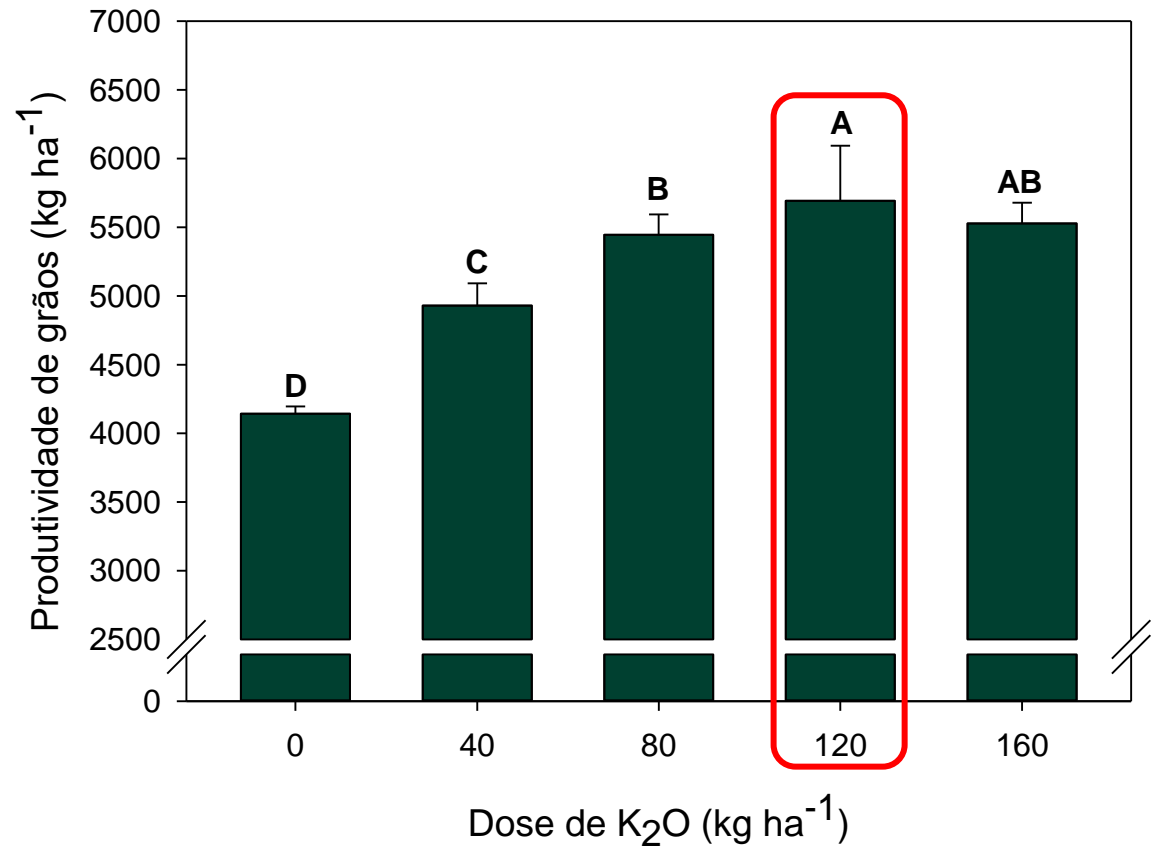
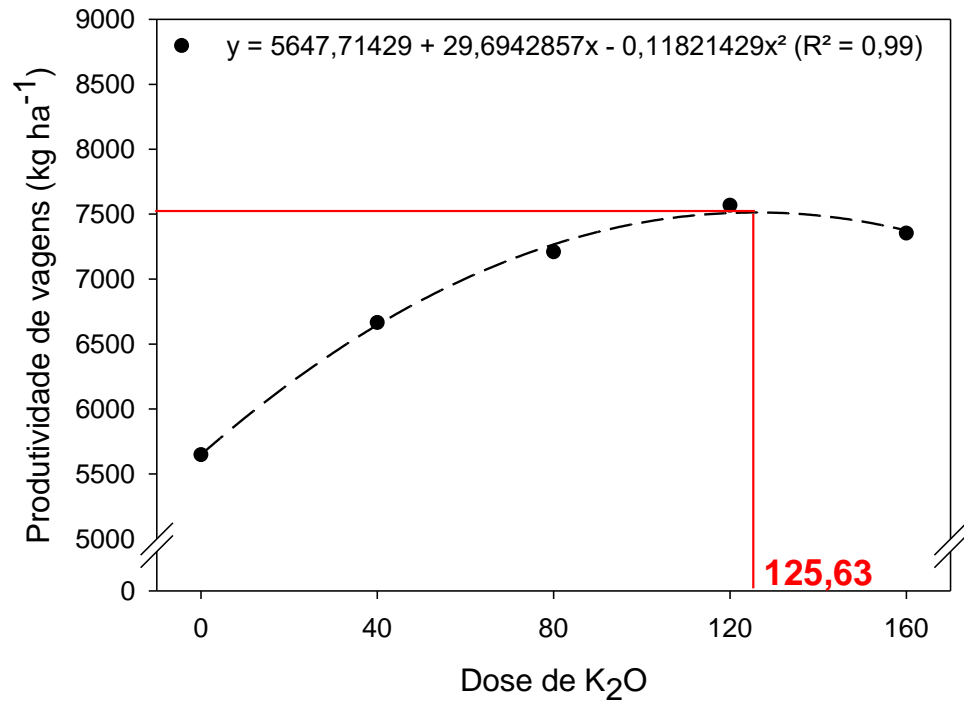
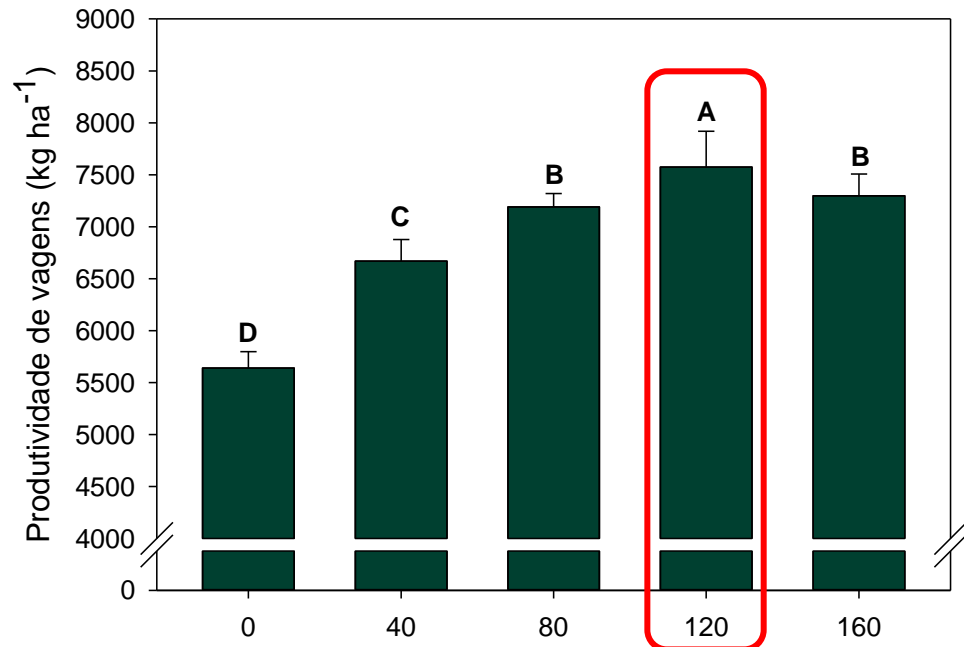
Espaçamento: 0,90 m



Baixo Teor de K no solo: 1,0 mmol_c dm⁻³

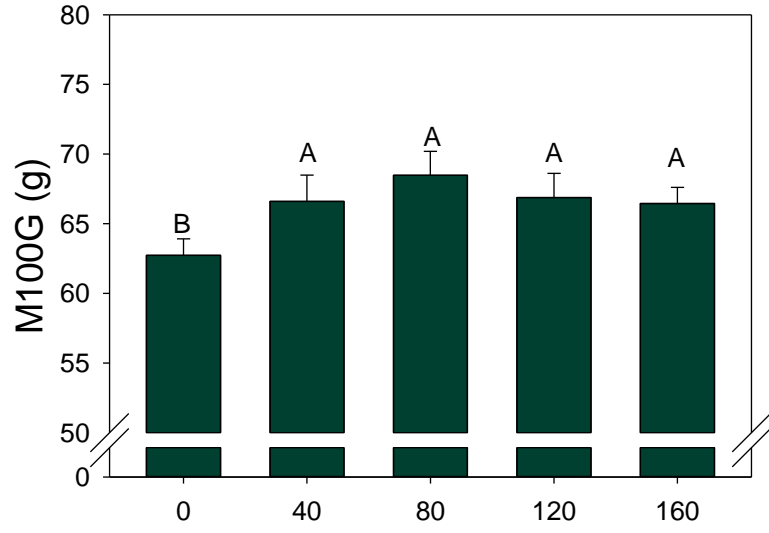
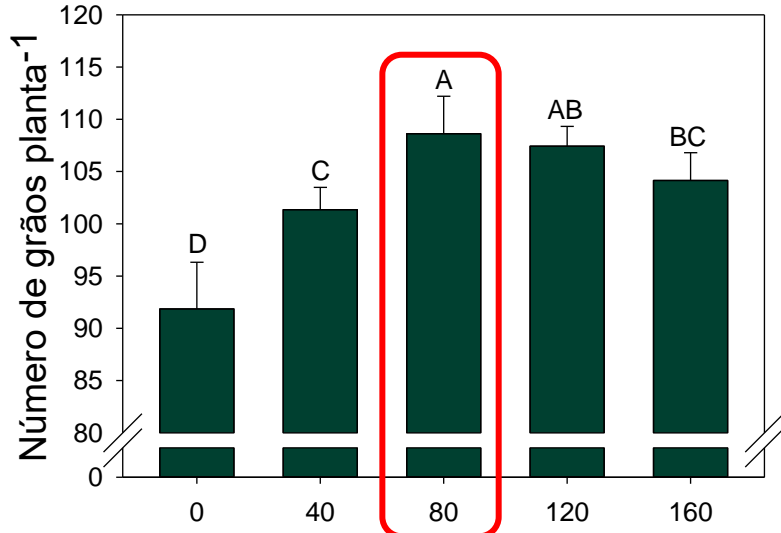
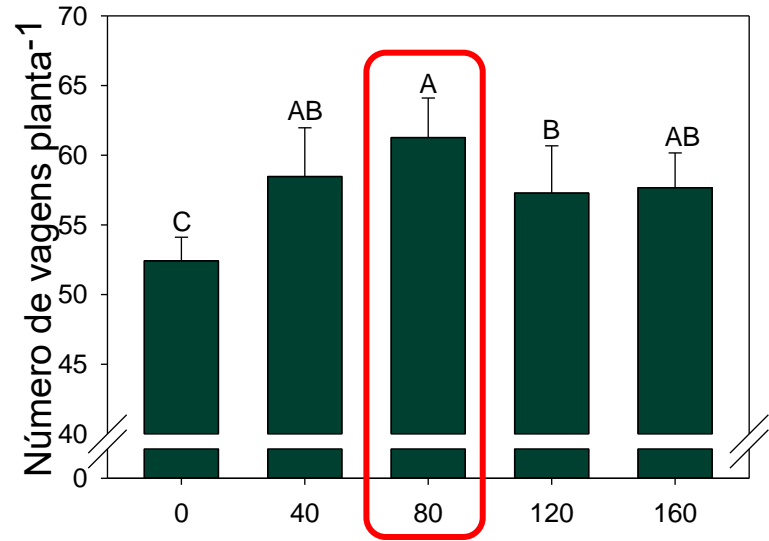
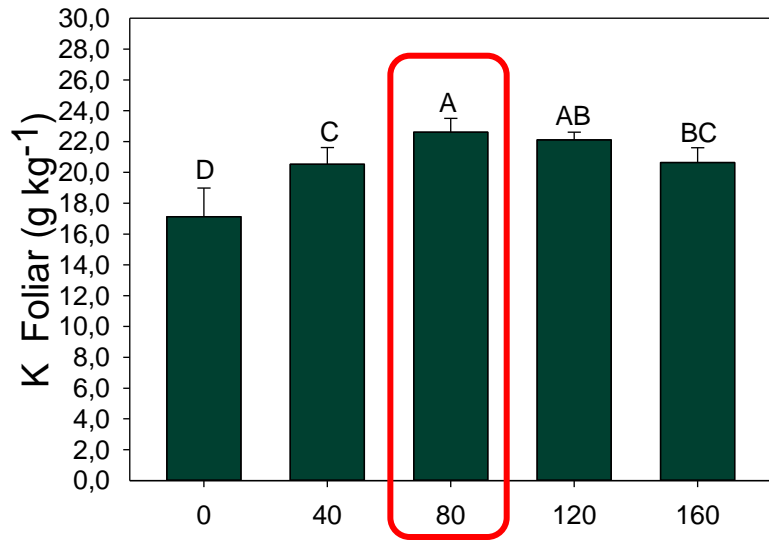


Baixo Teor de K no solo: 1,0 mmol_c dm⁻³



Médio Teor de K no solo: 2,0 mmol_c dm⁻³

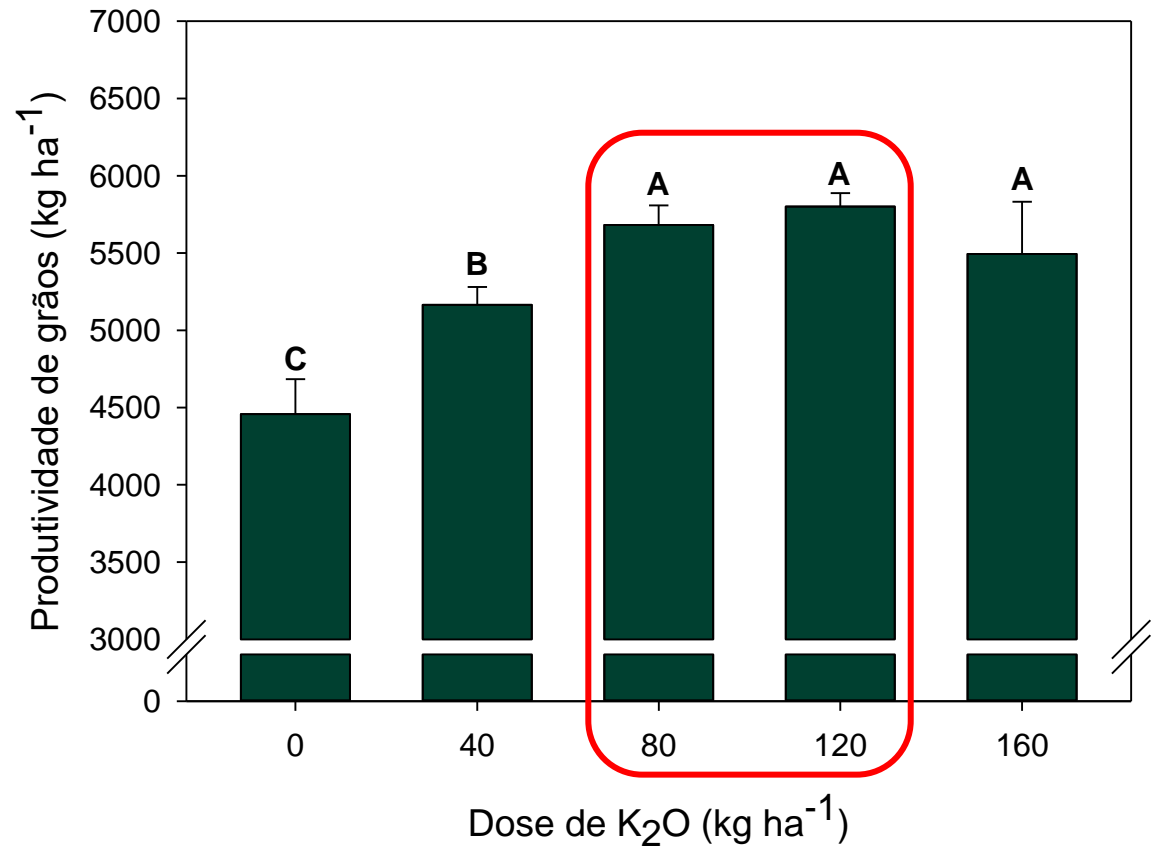
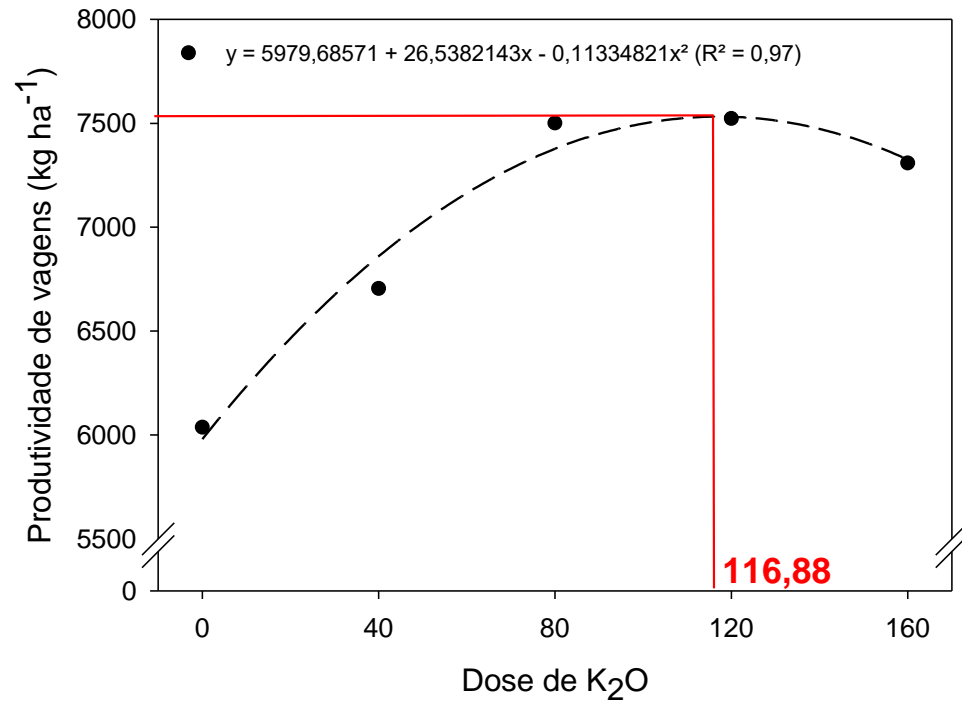
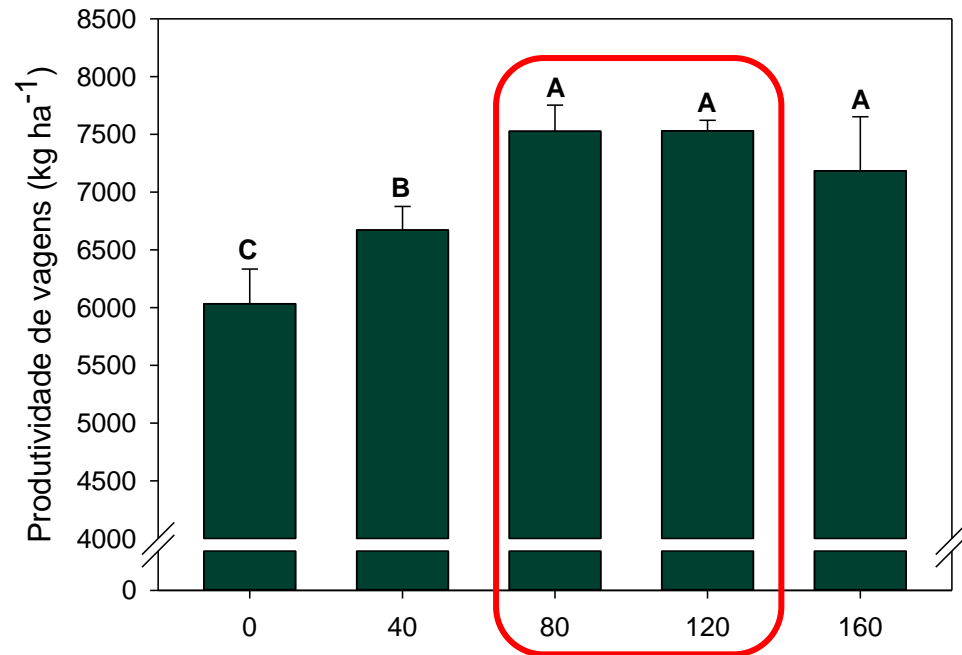
Médio Teor de K no solo: 2,0 mmol_c dm⁻³



Dose de K₂O

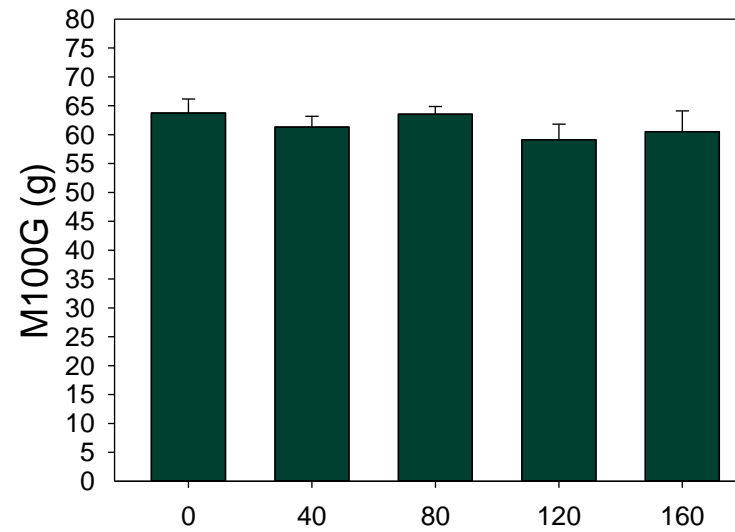
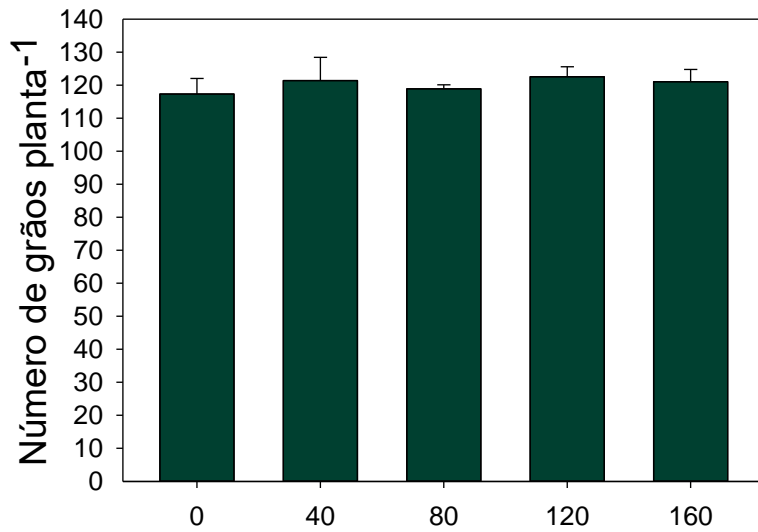
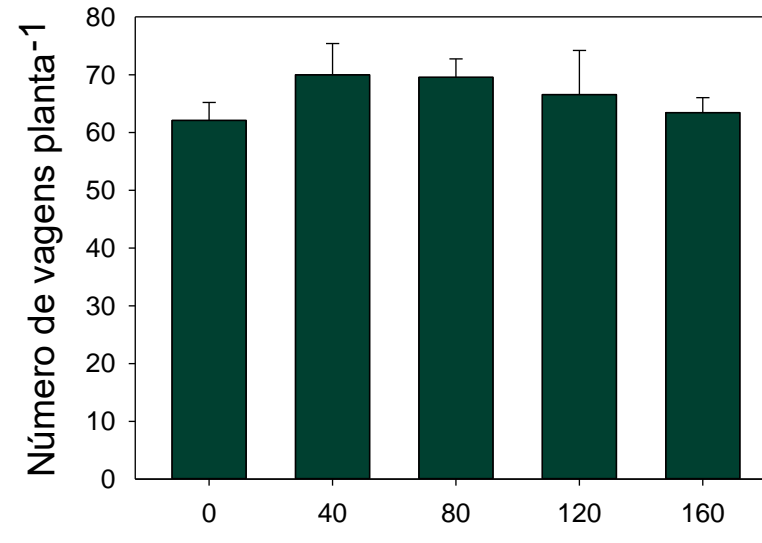
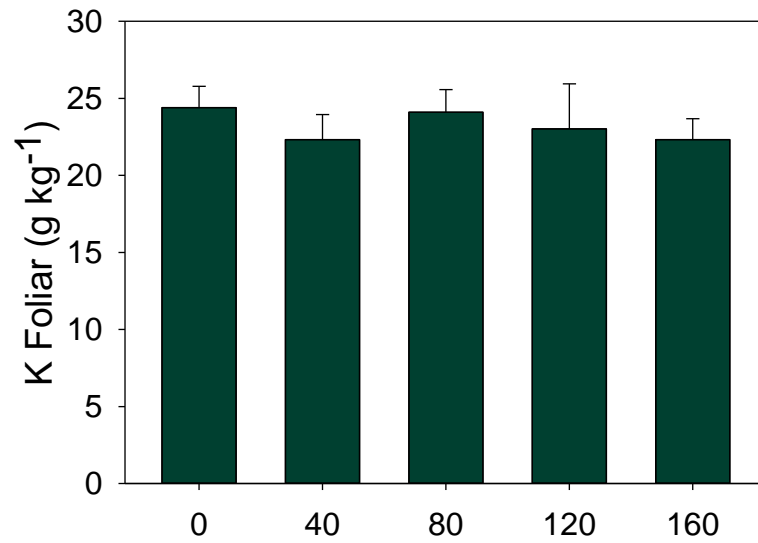
Dose de K₂O

Médio Teor de K no solo: 2,0 mmol_c dm⁻³



Alto Teor de K no solo: 4,0 mmol_c dm⁻³

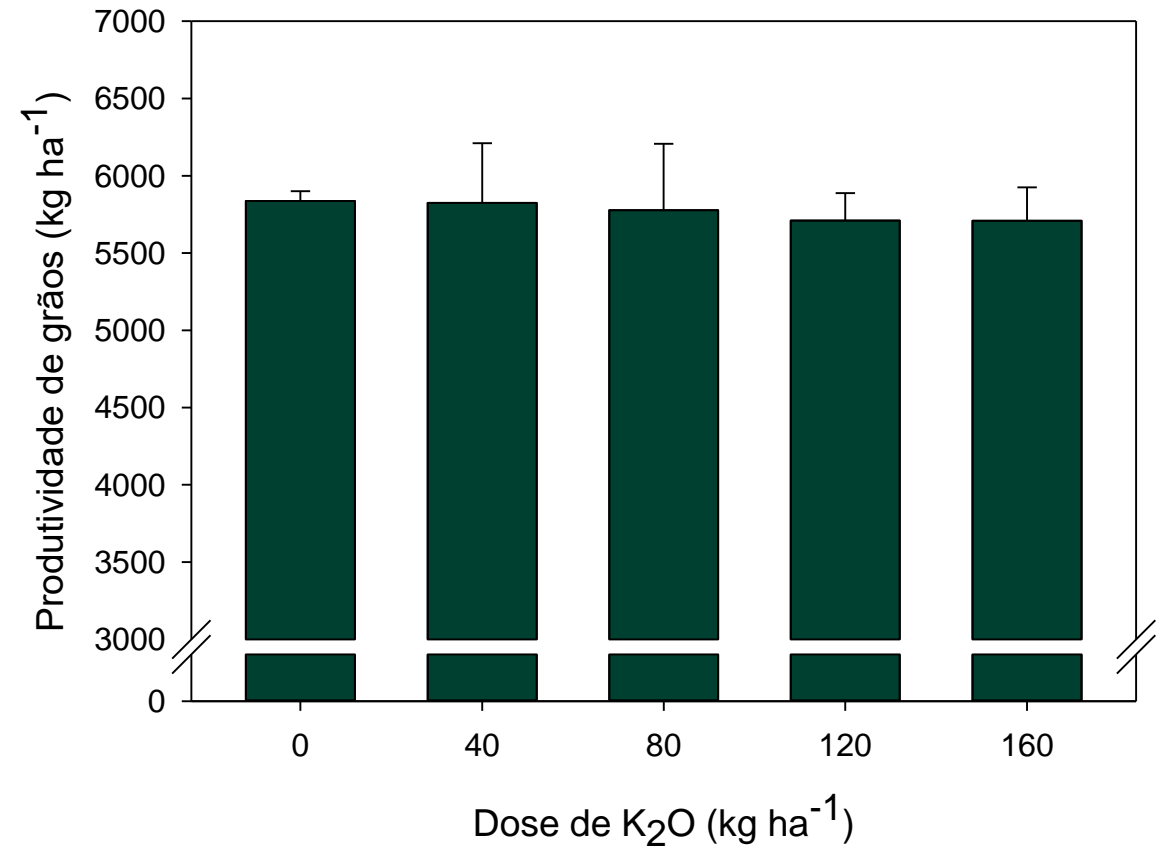
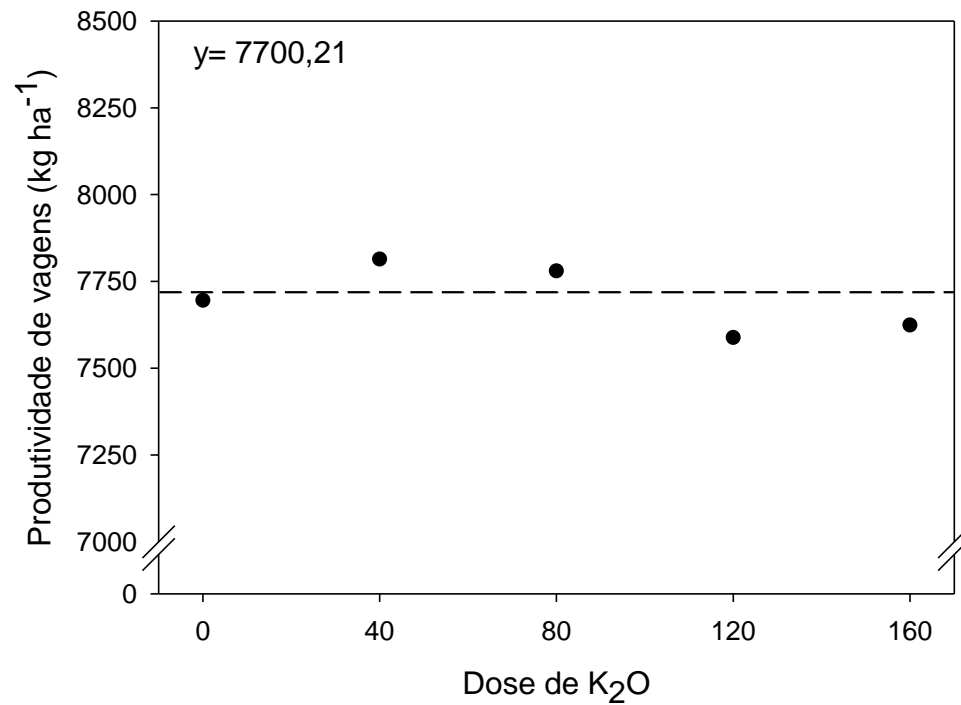
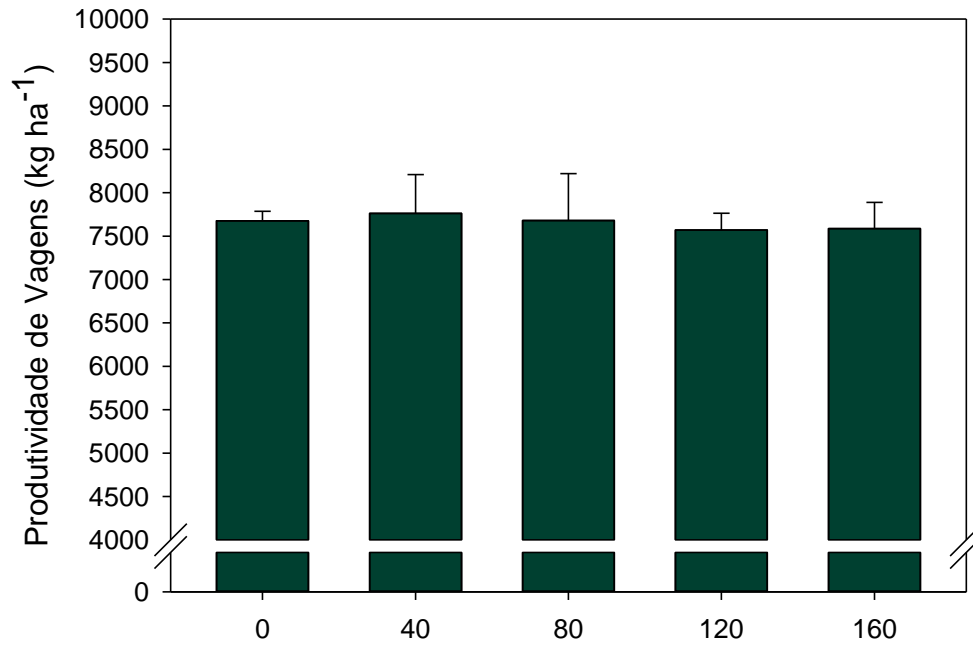
Alto Teor de K no solo: 4,0 mmol_c dm⁻³

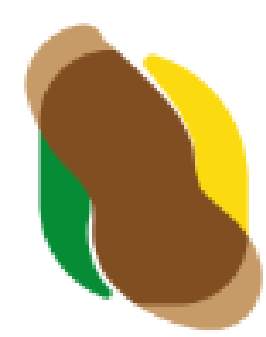


Dose de K₂O

Dose de K₂O

Alto Teor de K no solo: 4,0 mmol_c dm⁻³





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AMENDOIM
JABOTICABAL - SP

Retorno Econômico **(*Adubação Fosfatada*)**

Baixo Teor de P no solo: **10 mg dm⁻³**

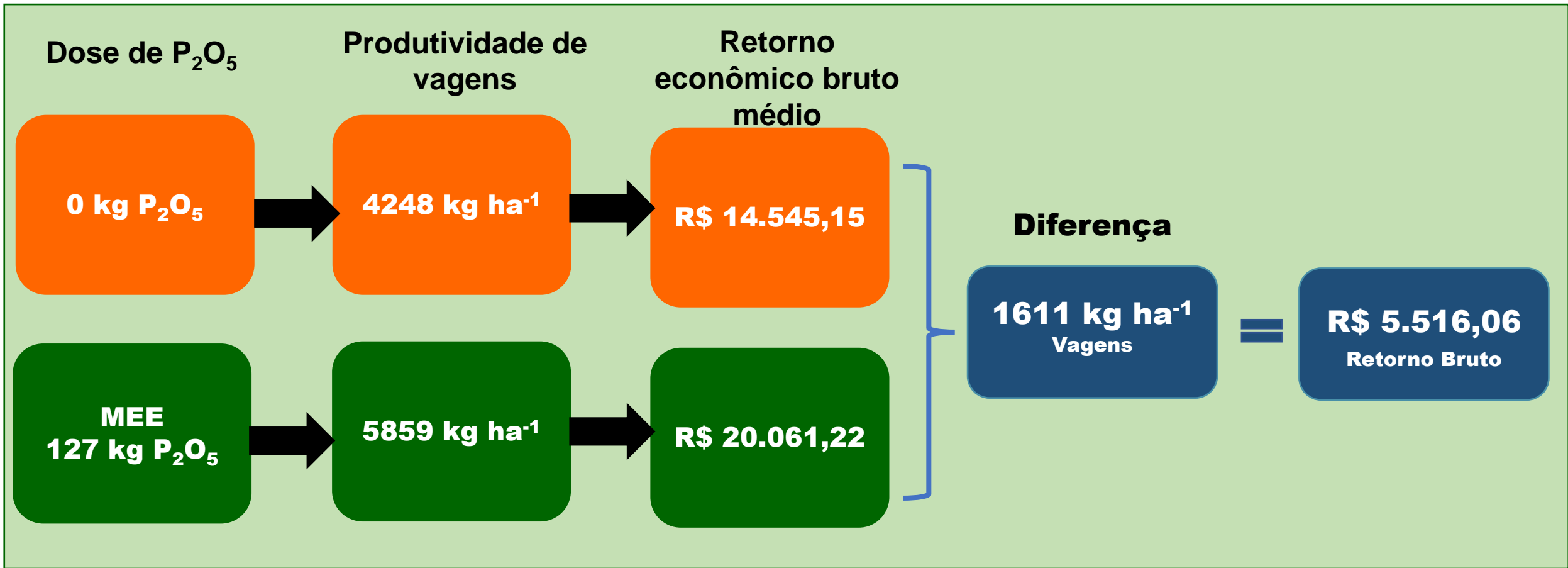
Máxima Eficiência Econômica – Amendoim (5 anos)

2018/2019		2019/2020		2020/2021	
04-30-10	R\$ 1.600	04-30-10	R\$ 1.700	04-30-10	R\$ 1.900
300	R\$ 5,33	300	R\$ 5,67	300	R\$ 6,33
Amendoim	R\$ 74,00	Amendoim	R\$ 120,00	Amendoim	R\$ 94,00
25	R\$ 2,96	25	R\$ 4,80	25	R\$ 3,76
PRODmáx	5881	5881	5881	5881	5881
MEA	144	144	144	144	144
MEE	132	136	133	133	133

2021/2022		2022/2023		MÉDIA	
04-30-10	R\$ 3.200	04-30-10	R\$ 5.000	04-30-10	R\$ 2.680
300	R\$ 10,67	300	R\$ 16,67	300	R\$ 8,93
Amendoim	R\$ 65,00	Amendoim	R\$ 75,00	Amendoim	R\$ 85,60
25	R\$ 2,60	25	R\$ 3,00	25	R\$ 3,42
PRODmáx	5881	5881	5881	5881	5881
MEA	144	144	144	144	144
MEE	118	109	109	127	127

Kg P₂O₅ t⁻¹ Vag.
24
22

Baixo Teor de P no solo: 10 mg dm⁻³



Ao aplicar a Dose de 127 kg ha⁻¹ de P₂O₅ há um retorno líquido de **R\$ 4.381,53**

Médio Teor de P no solo: 20 mg dm⁻³

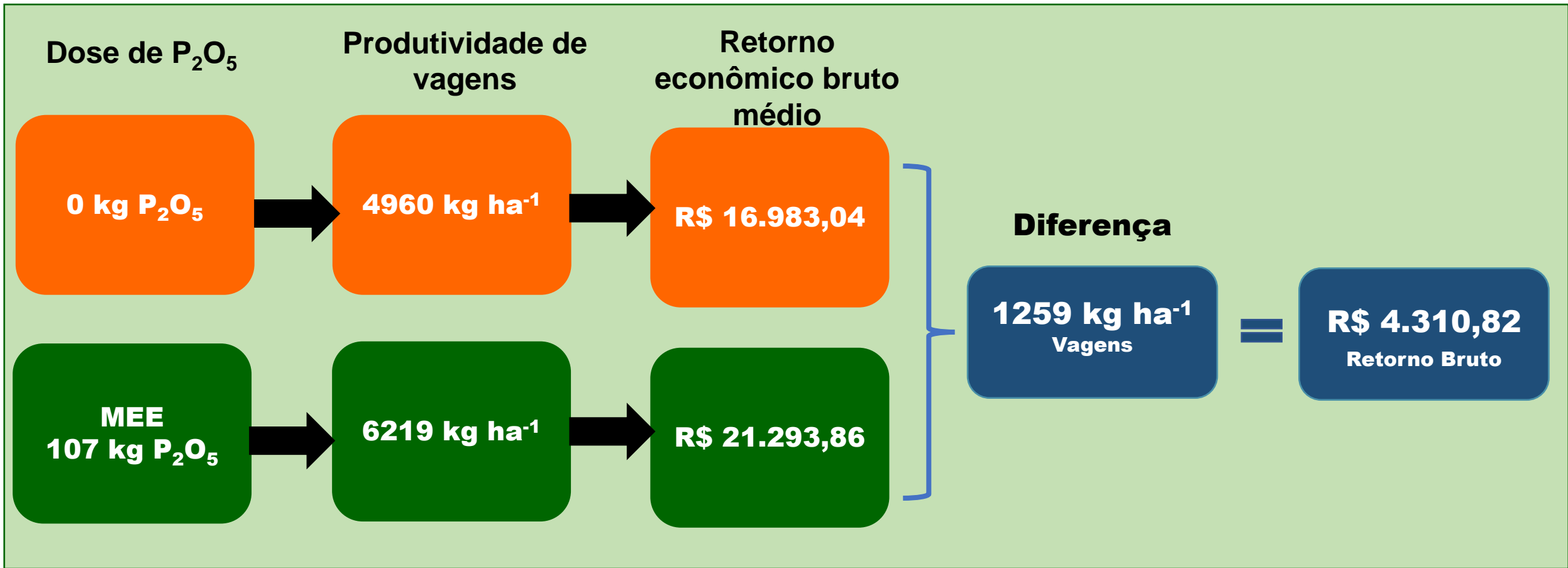
Máxima Eficiência Econômica – Amendoim (5 anos)

2018/2019		2019/2020		2020/2021	
04-30-10	R\$ 1.600	04-30-10	R\$ 1.700	04-30-10	R\$ 1.900
300	R\$ 5,33	300	R\$ 5,67	300	R\$ 6,33
Amendoim	R\$ 74,00	Amendoim	R\$ 120,00	Amendoim	R\$ 94,00
25	R\$ 2,96	25	R\$ 4,80	25	R\$ 3,76
PRODmáx	6239	6239	6239	6239	6239
MEA	123	123	123	123	123
MEE	112	116	116	113	113

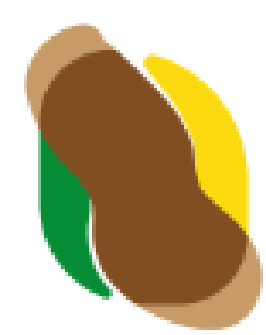
2021/2022		2022/2023		MÉDIA	
04-30-10	R\$ 3.200	04-30-10	R\$ 5.000	04-30-10	R\$ 2.680
300	R\$ 10,67	300	R\$ 16,67	300	R\$ 8,93
Amendoim	R\$ 65,00	Amendoim	R\$ 75,00	Amendoim	R\$ 85,60
25	R\$ 2,60	25	R\$ 3,00	25	R\$ 3,42
PRODmáx	6239	6239	6239	6239	6239
MEA	123	123	123	123	123
MEE	98	90	90	107	107

Kg P₂O₅ t⁻¹ Vag.
20
17

Médio Teor de P no solo: 20 mg dm⁻³



Ao aplicar a Dose de 107 kg ha⁻¹ de P₂O₅ há um retorno líquido de **R\$ 3.354,95**



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Retorno Econômico **(*Adubação Potássica*)**

Baixo Teor de K no solo: 1,0 mmol_c dm⁻³

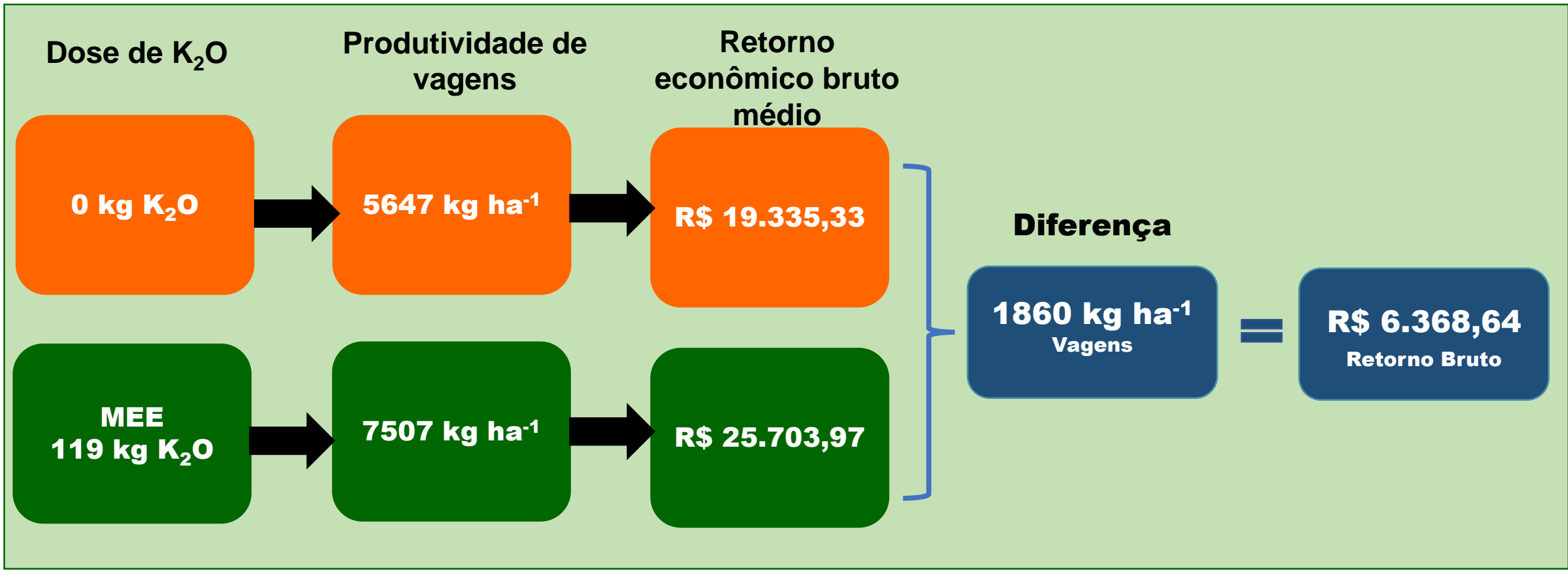
Máxima Eficiência Econômica – Amendoim (5 anos)

2018/2019		2019/2020		2020/2021	
00-00-60	R\$ 1.600	00-00-60	R\$ 1.800	00-00-60	R\$ 1.700
600	R\$ 2,67	600	R\$ 3,00	600	R\$ 2,83
Amendoim	R\$ 74,00	Amendoim	R\$ 120,00	Amendoim	R\$ 94,00
25	R\$ 2,96	25	R\$ 4,80	25	R\$ 3,76
PRODmáx	7508	7508	7508	7508	7508
MEA	126	126	126	126	126
MEE	122	123	122	122	122

2021/2022		2022/2023		MÉDIA	
00-00-60	R\$ 4.000	00-00-60	R\$ 6.400	00-00-60	R\$ 3.100
600	R\$ 6,67	600	R\$ 10,67	600	R\$ 5,17
Amendoim	R\$ 65,00	Amendoim	R\$ 75,00	Amendoim	R\$ 85,60
25	R\$ 2,60	25	R\$ 3,00	25	R\$ 3,42
PRODmáx	7508	7508	7508	7508	7508
MEA	126	126	126	126	126
MEE	115	111	111	119	119

Kg P₂O₅ t⁻¹ Vag.
17
16

Baixo Teor de K no solo: 1,0 mmol_c dm⁻³



Ao aplicar a Dose de 119 kg ha⁻¹ de K₂O há um retorno líquido de **R\$ 5.753,41**

Médio Teor de K no solo: 2,0 mmol_c dm⁻³

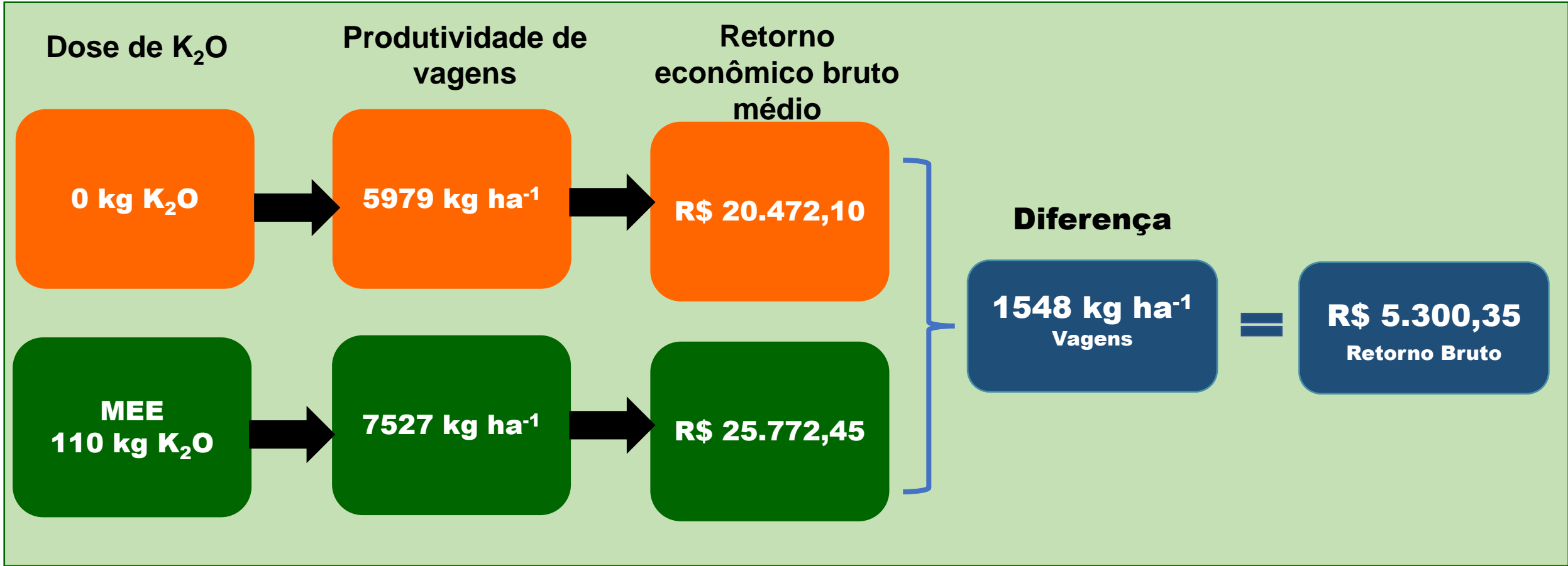
Máxima Eficiência Econômica – Amendoim (5 anos)

2018/2019		2019/2020		2020/2021	
00-00-60	R\$ 1.600	00-00-60	R\$ 1.800	00-00-60	R\$ 1.700
600	R\$ 2,67	600	R\$ 3,00	600	R\$ 2,83
Amendoim	R\$ 74,00	Amendoim	R\$ 120,00	Amendoim	R\$ 94,00
25	R\$ 2,96	25	R\$ 4,80	25	R\$ 3,76
PRODmáx	7533	7533	7533	7533	7533
MEA	117	117	117	117	117
MEE	113	114	114	114	114

2021/2022		2022/2023		MÉDIA	
00-00-60	R\$ 4.000	00-00-60	R\$ 6.400	00-00-60	R\$ 3.100
600	R\$ 6,67	600	R\$ 10,67	600	R\$ 5,17
Amendoim	R\$ 65,00	Amendoim	R\$ 75,00	Amendoim	R\$ 85,60
25	R\$ 2,60	25	R\$ 3,00	25	R\$ 3,42
PRODmáx	7533	7533	7533	7533	7533
MEA	117	117	117	117	117
MEE	106	101	101	110	110

Kg P₂O₅ t⁻¹ Vag.
16
15

Médio Teor de K no solo: 2,0 mmol_c dm⁻³



Ao aplicar a Dose de 110 kg ha⁻¹ de K₂O há um retorno líquido de **R\$ 4.732,02**

RESUMO



Teor de P no solo

Alto (43 mg dm^{-3})

Não houve resposta

Médio (20 mg dm^{-3})

MEA
 123 kg ha^{-1} de P_2O_5
MEE
 107 kg ha^{-1} de P_2O_5
Retorno Líquido
R\$3.354,95

Baixo (10 mg dm^{-3})

MEA
 144 kg ha^{-1} de P_2O_5
MEE
 127 kg ha^{-1} de P_2O_5
Retorno Líquido
R\$4.381,53

Teor de K no solo

Alto ($4,0 \text{ mmol}_c \text{ dm}^{-3}$)

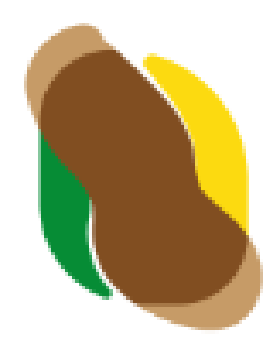
Não houve resposta

Médio ($2,0 \text{ mmol}_c \text{ dm}^{-3}$)

MEA
 117 kg ha^{-1} de K_2O
MEE
 110 kg ha^{-1} de K_2O
Retorno Líquido
R\$4.732,02

Baixo ($1,0 \text{ mmol}_c \text{ dm}^{-3}$)

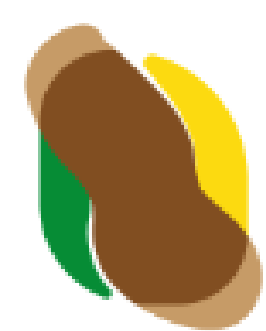
MEA
 126 kg ha^{-1} de K_2O
MEE
 119 kg ha^{-1} de K_2O
Retorno Líquido
R\$5.753,41



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AGRADECIMENTOS





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JABOTICABAL - SP

OBRIGADO!

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