

AGVISE Zinc Guidelines

Soil test category	Soil test Zn ppm	High Sensitivity		Medium Sensitivity		Low Sensitivity	
		Yield Goal		Yield Goal		Yield Goal	
		Low	High	Low	High	Low	High
		lb/acre Zn broadcast					
Very low	≤ 0.30	8	10	3	5	2	3
Low	0.31 - 0.60	4	6	1	3	0	1
Medium	0.61 - 1.00	1	3	0	1	0	0
High	1.01 - 2.00	0	1	0	0	0	0
Very high	> 2.00	0	0	0	0	0	0

Crop Sensitivity Categories and Yield Goal Break

High Sensitivity		Medium Sensitivity		Low Sensitivity	
Bean, dry	2000 lb/ac	Alfalfa, seed		Alfalfa, hay	3 ton/ac
Bean, faba	2000 lb/ac	Buckwheat	40 bu/ac	Barley, grain	80 bu/ac
Bean, navy	2000 lb/ac	Canary grass, seed	1900 lb/ac	Barley, hay	4 ton/ac
Bean, pinto	2000 lb/ac	Canola	2200 lb/ac	Birdsfoot trefoil	3 ton/ac
Broccoli		Canola	44 bu/ac	Clover	3 ton/ac
Cabbage		Carrot	400 cwt/ac	Cotton	1200 lb/ac
Cauliflower		Chickpea	2000 lb/ac	Grass, hay/pasture	4 ton/ac
Corn, grain	160 bu/ac	Crambe	2000 lb/ac	Grass, lawn	
Corn, pop	75 bu/ac	Lentil	2000 lb/ac	Grass, seed	
Corn, silage	20 ton/ac	Millet, grain	1800 lb/ac	Grass, seed (brome)	500 lb/ac
Corn, sweet	8 ton/ac	Mustard	2200 lb/ac	Grass, timothy	
Flax	40 bu/ac	Pea, fresh green	2000 lb/ac	Hemp, seed	800 lb/ac
Garden, vegetable		Safflower	1500 lb/ac	Oat, grain	120 bu/ac
Grape		Soybean	40 bu/ac	Oat, silage	
Onion	400 cwt/ac	Sugar beet	20 ton/ac	Pea, dry field	40 bu/ac
Potato, dryland	275 cwt/ac	Tomato	250 cwt/ac	Peanut	5000 lb/ac
Potato, irrigated	400 cwt/ac			Rye	70 bu/ac
Sorghum, grain	60 bu/ac			Sainfoin	3 ton/ac
Sorghum, hay	8 tons/ac			Small grain, hay	4 ton/ac
Sorghum, silage	15 ton/ac			Small grain, silage	10 ton/ac
Strawberry				Sunflower	2000 lb/ac
				Triticale	70 bu/ac
				Wheat, durum	70 bu/ac
				Wheat, spring	70 bu/ac
				Wheat, winter	70 bu/ac

AGVISE Guideline Adjustment

- If yield goal is less than or equal to yield goal break, reduce rate 2 lb/acre Zn broadcast (low yield goal Zn guideline). Crops without yield goal break use low yield goal Zn guideline.
- For band application, reduce rate to approximately 1/3 broadcast Zn guideline.
- Minimum application: 1 lb/acre Zn broadcast, 1 lb/acre Zn band.

University Zinc Guidelines

Soil test category	Soil test Zn ppm	Sensitive Crops lb/acre Zn broadcast
Low	≤ 0.50	10
Medium	0.50 - 0.76	5
High	> 0.76	0

- Sensitive crops: dry bean, corn, faba bean, flax, potato, sorghum.
- UMN guideline, starter: 2 lb/acre for low soil test Zn, 1 lb/acre for medium soil test Zn.