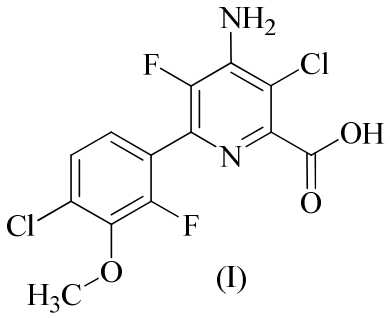
CLAIMS

1. A herbicidal composition comprising a herbicidally effective amount of (a) a compound of the formula (I):



(I)

or a C_{1-4} alkyl or benzyl ester, or an agriculturally acceptable salt of formula (I); and

(b) halosulfuron-methyl, pyrazosulfuron-ethyl or esprocarb, or an agriculturally acceptable salt, ester, carboxylate salt, or carboxylic acid thereof, wherein the (a) and (b) are present in the composition in a ratio such that the composition exhibits synergy, and wherein the ratio between (a) and (b) is from about 6.4:1 to about 1:48.

2. The composition of claim 1, wherein (a) is a benzyl ester of the compound of formula (I).

3. The composition of claim 1, wherein (a) is the carboxylic acid of the compound of formula (I).

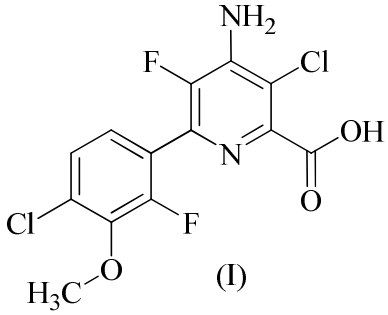
4. The composition of claim 1, further comprising a herbicide safener, adjuvant and/or carrier.

5. The composition of claim 1, wherein the weight ratio of the compound of formula (I) or agriculturally acceptable salt or ester thereof to halosulfuron-methyl or agriculturally acceptable salt or ester thereof is from about 4:1 to about 1:4.

6. The composition of claim 1, wherein the weight ratio of the compound of formula (I) or agriculturally acceptable salt or ester thereof to pyrazosulfuron-ethyl or agriculturally acceptable salt or ester thereof is from about 6.4:1 to about 1:13.7.

7. The composition of claim 1, wherein the weight ratio of the compound of formula (I) or agriculturally acceptable salt or ester thereof to esprocarb or agriculturally acceptable salt or ester thereof is from about 1:6 to about 1:48.

8. A method of controlling undesirable vegetation, comprising the steps of: contacting a plant, wherein the plant is undesirable vegetation or the locus thereof with, or applying to soil or to water, wherein the soil or the water allows for the growth of the undesirable vegetation, a herbicidally effective amount of a combination comprising (a) a compound of the formula (I):



(I)

or a C_{1-4} alkyl or benzyl ester, or an agriculturally acceptable salt of formula (I); and

(b) halosulfuron-methyl, pyrazosulfuron-ethyl or esprocarb, or an agriculturally acceptable salt, ester, carboxylate salt, or carboxylic acid thereof wherein (a) and (b) are present in the combination in a ratio such that the combination exhibits synergy for the control of undesirable vegetation that effects direct-seeded, water-seeded, or transplanted crops selected from the group consisting of: rice, cereals, wheat, barley, oats, rye, sorghum, corn, maize, and cotton, and wherein the ratio between (a) and (b) is from about 6.4:1 to about 1:48.

9. The method of claim 8, wherein the locus is a flooded rice paddy.

10. The method of claim 8, wherein the combination is applied pre-emergently and/or post-emergently to undesirable vegetation which effects the crops.

11. The method of claim 8, wherein the undesirable vegetation is controlled in glyphosate-, 5-enolpyruvylshikimate-3-phosphate synthase inhibitor-, glufosinate-, glutamine synthetase inhibitor-, dicamba-, phenoxy auxin-, synthetic auxin-, auxin transport inhibitor-, pyridyloxy auxin-, aryloxyphenoxypropionate-, cyclohexanedione-, phenylpyrazoline-, acetyl CoA carboxylase inhibitor-, imidazolinone-, sulfonylurea-, pyrimidinylthiobenzoate-, triazolopyrimidine-, sulfonylaminocarbonyltriazolinone-, acetolactate synthase or acetohydroxy acid synthase inhibitor-, 4-hydroxyphenyl-pyruvate dioxygenase inhibitor-, phytoene desaturase inhibitor-, carotenoid biosynthesis inhibitor-, protoporphyrinogen oxidase inhibitor-, cellulose biosynthesis inhibitor-, mitosis inhibitor-, microtubule inhibitor-, very long chain fatty acid inhibitor-, fatty acid and lipid biosynthesis inhibitor-, photosystem I inhibitor-, photosystem II inhibitor-, triazine-, triazine- or bromoxynil-tolerant crops.

12. The method of claim 11, wherein the tolerant crop possesses multiple or stacked traits conferring tolerance to multiple herbicides.

13. The method of claim 8, wherein the undesirable vegetation comprises a herbicide resistant or tolerant plant.

14. The method of claim 13, wherein the resistant or tolerant plant is resistant or tolerant to multiple herbicides.

15. The method of claim 14, wherein the resistant or tolerant plant is resistant or tolerant to acetolactate synthase or acetohydroxy acid synthase inhibitors, photosystem II inhibitors, acetyl CoA carboxylase inhibitors, synthetic auxins, auxin transport inhibitors, photosystem I inhibitors, 5-enolpyruvylshikimate-3-phosphate synthase inhibitors, microtubule assembly inhibitors, fatty acid and lipid synthesis inhibitors, protoporphyrinogen oxidase inhibitors, carotenoid biosynthesis inhibitors, very long chain fatty acid inhibitors, phytoene desaturase inhibitors, glutamine synthetase inhibitors, 4-hydroxyphenyl-pyruvate-dioxygenase inhibitors,

mitosis inhibitors, cellulose biosynthesis inhibitors, herbicides with multiple modes-of-action, quinclorac, arylaminopropionic acids, difenzoquat, endothall, or organoarsenicals.

16. The method of claim 8, wherein the weight ratio of the compound of formula (I) or agriculturally acceptable salt or ester thereof to halosulfuron-methyl or agriculturally acceptable salt or ester thereof is from about 4:1 to about 1:4.

17. The method of claim 8, wherein the weight ratio of the compound of formula (I) or agriculturally acceptable salt or ester thereof to pyrazosulfuron-ethyl or agriculturally acceptable salt or ester thereof is from about 6.4:1 to about 1:13.7.

18. The method of claim 8, wherein the weight ratio of the compound of formula (I) or agriculturally acceptable salt or ester thereof to esprocarb or agriculturally acceptable salt or ester thereof is from about 1:6 to about 1:48.