US ERA ARCHIVE DOCUMENT

DP Barcode

:D194585 DA4592

PC Code No

:129034

EEB Out

.

To:

JOANNE MILLER

Product Manager 23

Registration Division H7505C

From: Anthony F. Maciorowski, Chief

Ecological Effects Branch/EFED (7507-C)

Attached, please find the EEB review of ...

Reg./File # :059639-EUP-RRI Chemical Name : FLUMIOXAZIN :HERBICIDE Type Product Product Name : VALENT U.S.A. CORP. Company Name Purpose :EUP FOR CONTROLING BROADLEAVED WEEDS AND SOME GRASSES IN THE CULITIVATION OF SOYBEANS :710 Action Code Date Due Reviewer :ALVARO YAMHURE Date In EEB:

EEB Guideline/MRID Summary Table: The review in this package contains an evaluation of the following:

GDLN NO	MRID NO	CAT	GDLN NO	MRID NO	CAT	· GDLN NO	MRID NO	CAT
71-1(A)			72-2(A)			72-7(A)		
71-1(B)			72-2(B)			72-7(B)		
71-2(A)			72-3(A)			122-1(A)		
71-2(B)			72-3(B) '			122-1(B)		
71-3		4	72-3(C)			122-2		
71-4(A)			72-3(D)	1		123-1(A)		
71-4(B)			72-3(E)			123-1(B)		
71-5(A)			72-3(F)			123-2		
71-5(B)			72-4(A)			124-1		
72-1(A)			72-4(B)			124-2		
72-1(B)			72-5			141-1		
72-1(C)			72-6			141-2		
72-1(D)						141-5		

Y=Acceptable (Study satisfied Guideline)/Concur

P=Partial (Study partially fulfilled Guideline but

additional information is needed

\$=Supplemental (Study provided useful information but Guideline was not satisfied)

#=Unacceptable (Study was rejected)/Nonconcur

ECOLOGICAL EFFECTS BRANCH EUP REVIEW

V-53482 WP Herbicide

Submission Purpose, Pesticide Label/Use and Description of the EUP.

Valent U.S.A. Corporation is proposing an EUP program to evaluate their 51% a.i. wettable powder (WP), water-soluble packets of the broadleaf weed herbicide identified as V-53482 WP herbicide on soybeans cultivation.

100.1 Formulation Information

V-53482 WP herbicide (51.0% a.i.)

Active Ingredient:

7-fluoro-6[(3,4,5,6,-tetrahydro)phthalimido-4-(2-propynyl)-1,	4
benzoxazine-3(2H)-one51%	
Inert Ingredient:49%	
Total	

ID#: 059639-EUP-RRI

100.2 Application Methods, Directions, Rates

The maximum amount of herbicide allowed per acre is 43.4 grams a.i./A (0.096 lbs a.i. or about one tenth of one pound of a.i./A) applied preemergence.

Directions For Use

Do not apply this product through any type of irrigation system.

VALENT V-53482 WP Herbicide is a 51% wettable powder in a water-soluble packet for the control of certain broadleaf weeds and grasses in soybeans.

Growth and development of rotated crops are unaffected by V-53482.

Plant soybeans at least one (1") inch deep on flat or raised seedbeds only and adjust planters to ensure proper seed coverage or crop injury may result.

Read labels of all tank-mix components for use restrictions, precautions and limitations. Always follow the more restrictive label limitations and precautions.

Application Instructions

For broad spectrum weed control apply V-53382, as a stand alone

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treatment or as part of a tank mix, after planting but before the crop emerges.

Moisture is necessary to activate this herbicide in soil for residual weed control. Dry weather following application may reduce effectiveness. When moisture is received following dry conditions, this herbicide will control susceptible germinating and recently-emerged weeds.

To ensure coverage, use 10 to 30 gallons spray solution per acre (gal/A). For banded applications of V-53482 WP herbicide, use proportionally less product per acre in a band versus a broadcast application.

Fill the spray tank 1/4 to 1/2 full with clean water and begin agitation. Add the required amount of V-53482 WP Herbicide to spray tank and continue to add water. If an adjuvant is used for non-selective postemergence applications in reduced-tillage soybeans, add it last when the tank is nearly full.

Apply V-53482 WP Herbicide with properly calibrated ground equipment at a spray pressure of 20 to 40 psi. Agitate spray solution thoroughly before and during application. Avoid misapplication, skips and gaps in spray patterns and overlap sprays which increase dosage.

IMPORTANT: Crop injury may occur under the following conditions: heavy rainfall within four weeks of planting can cause temporary injury to soybeans; heavy rainfall with cool temperatures can magnify the injury. When used as directed, injury associated with weather does not result in yield reductions. Crop injury may be minimized if soybeans are planted at least one inch deep and completely covered by soil prior to preemergence applications.

RESTRICTIONS AND LIMITATIONS

Do not apply when weather conditions favor spray drift.

* Do not apply more than three ounces of this herbicide per acreduring a single season (our emphasis).

Crop Rotation: Read the labels of all tank mix components and follow all crop rotation restrictions and precautions.

100.3 Target Organisms

Attachment A (two pages), lists all target weeds intended at this time. Page 1 (Table 1 by the registrant) lists the weeds controlled by preemergence treatment and page 2 (the registrant's Table 2) lists grasses and broadleaf weed suppressed by V-53482. This herbicide is a broadleaf weed herbicide being tested for the protection of soybeans cultivation.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water when disposing of equipment washwaters. (See our comment on page 11, Section 106: "Adequacy of Labeling".)

100.5 Proposed EUP Program

100.5.1 Objectives

To evaluate the use (efficacy) of V-53482 WP as a preemergence broadleaf weed herbicide (see Attachment A) in the cultivation of soybeans, application with different types of tillage, the packaging system, use under different climatic and geographic conditions, different application factors including rates, methods and equipment, efficacy of tank mixes with other broadleaf herbicides, evaluate grower acceptance, herbicide performance and application technology, and if needed, conduct a worker exposure study (mixer/loader/applicator).

100.5.2 Date, Duration

This is a two-year EUP. The program is scheduled to start on April 1, 1994.

100.5.3 Amount Shipped, Geographic Distribution

States, Acreage, and Quantity of material for proposed Experimental Use of V-53482 WP are listed in the two pages of Attachment B. The product is to be used in seventeen States representing the most important areas of soybean cultivation in the U.S.A. The registrant expects to need a total of 89,834 grams (198.1 lbs) of active ingredient for the two-year program to treat 810 acres. The first year the total acreage will be 1,260 acres (A) to be treated with a maximum of 54,684 grams (120.58 lbs) of a.i. The second year 35,154 grams of a.i. (77.52 lb) are to be used. There will be a total of 57 trials. An additional 19,530 grams (42 lbs) of a.i. would be used on a worker exposure test if requested by EPA.

- 101 Physical, Chemical Properties and Environmental Fate Data (Data obtained on 10/19/93 from Jose L. Melendez, EFED/EFB)
- 101.1 ACTIVE INGREDIENT (7-fluoro-6[(3,4,5,6,-tetrahydro)phthalimide-4-(2-propynyl)-1,4-benzoxazine-3(2H)-one.) [proposed common name flumioxazin]

[This data obtained from a draft review by the EFB on 7/12/93 and EFED's 6/21/1993 Pesticide Environmental Fate One Line Summary].

Physical state : Solid, odor slightly vinegar-like

Molecular weight: 354.34

Melting point : 201.8 - 203.8° C

Solubility : 1.79 mg/L in water at 25° C

1.78 g/100 mL in ethyl acetate

0.156 g/mL in methanol
0.00247 g/mL in hexane
0.0163 g/mL in n-octanol
1.70 g/mL in acetone
3.23 in acetonitrile

19.1 g/mL in dichloromethane5.38 g/mL in tetrahydrofuran

Octanol/H₂O

Part. Coef. : Log $K_{ov} = 2.55 @ 20^{\circ} C$ Vapor pressure : 2.41 \times 10⁻⁶ mm of Hg @ 22°

101.2 FORMULATION

Wettable powder [(WP and wettable dispersable granules (WDG) but WP is the only formulation proposed for this EUP].

101.3 ABIOTIC HYDROLYSIS

Half Lives (T 1/2): 0 pH 5 = 3.4 - 5.1 days

 θ pH 7 = 21.4 - 24.6 hours

0 pH 9 = 14.6 - 22 minutes

101.4 DEGRADATION IN SOIL

Aerobic half-life of 11.9 days in a California sandy loam soil incubated in the dark at 22-26° C. V-53482 residues bound to soil. No major degradates detected.

101.5 SOIL ADSORPTION

Mobility in four different types of soil ranged from weak to high. A California College sandy loam had a $K_{\rm oc}$ value of 118; a plain field sand had a $K_{\rm oc}$ value of 265; a Kewaunee clay loam had a $K_{\rm oc}$ value of 816 and Mississippi silt loam had the highest $K_{\rm oc}$ value of 1705. Adsorption was linear and correlated better with soil pH than with organic soil contents.

The mobility of unaged V-53482 was low to high in 36-cm soil leaching columns, using four soil types. The average calculated values obtained are as follows:

,	[Ph-	¹⁴ C]		[THP-	¹⁴ C]	
Soil	R _f	K _d	Koc	R_{f}	K _d	Koc
Plainfield sand	0.61	0.465	265	0.59	0.484	277
California College sandy loam	0.56	0.833	118	0.57	0.744	105
Mississippi silt loam	0.15	11.0	1705	0.30	4.37	675
Kewaunee clay loam	0.08	24.0	816	0.11	14.6	497

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The majority of the radioactivity detected was identified as

parent V-53482. Several minor degradation components were present at ≤10% of the applied.

Additional data obtained by testing a two-ring-radiolabeled molecule are being requested by the EFGWB of EFED.

101.6 FISH BIOACCUMULATION

EFGWB granted the registrant's request for a waiver for the fish bioaccumulation test on the basis that: 1) The observed Octanol/Water partition coefficient is smaller than 1000 (log K_{ow} = 2.55, K_{ow} = 3.55 - value not confirmed). 2) This herbicide degrades quickly in water with a half-life of about one day at pH 7 and about 20 min. at pH 9. 3) "The aerobic soil metabolism shows that V-53482 degradates are tightly bound to soil and could not be desorbed into surrounding waters" and therefore not likely to bioaccumulate in fish.

DISCUSSION

This herbicide has low water solubility (1.7 mg/L @ 25° C); relatively low vapor pressure (2.41 X 10 mm Hg @ 22° C); at pH 7 degrades quickly in water; soil adsorption correlated better with pH than with organic soils and its organic soil metabolism shows that its degradates are tightly bound to soil and could not be desorbed into surrounding waters. These environmental fate and physical characteristics are such that favor lower exposure for non-target organisms.

According to the OPP/ Environmental Fate Branch, the registrant appears to have satisfied the environmental fate requirements for this EUP.

102 Hazard Assessment

102.1 Likelihood of Adverse Effects to Non-Target Organisms

ECOTOXICOLOGICAL DATA AVAILABLE FOR V-53482

Table 1 below lists the studies that have been presented to EEB in support of this EUP:

Table 1. V-53482

Ecotoxicological Studies Presented to EEB

Guid. No.	Test Species	% a.i.	LC/LD ₅₄ (ppm/-mg/kg)	MRID/ACC.	Evaluation Date	Status			
FISH TEST	FISH TESTS								
72-1(c)	Rainbow trout	94.8	2.3 ppm NOEL 0.92 ppm	422849-48	05/11/93	core			
72-1(a)	Bluegill	94.8	>21 ppm NOEL 3.9 ppm	426849-49	05/11/93	core			
AVIAN TE	STS					•			
71-1(a)	Bobwhite	94.8	>2250 mg/kg NOEL =2250 mg/kg	426849-45	05/14/93	core			
71-2(a)	Bobwhite	94.8	>5620 ppm NOEC 3160 ppm	426849-47	05/05/93	core			
71-2(ь)	Mallard	94.8	>5620 ppm NOEC =5620 ppm	426849-46	05/05/93	core			
FRESHWA	TER INVERTEBRA	TE							
72-2(a)	Daphnia	94.7	EC ₅₀ = 5.5 ppm No NOEC	426849-50	05/11/93	under review			
HONEY BE	EE.				-				
141-1	Apis m.	94.8	LD ₅₀ >105 ug/bee NOEL=105 ug/bee	426849-51	05/12/93	core			
ACUTE O	RAL RAT								
81-1	Rat(M&F)		LD ₅₀ >5000 mg/kg						

CITATION: Reed, D. and J.P. Swigert. 1992. A 48-Hour Flow-Through Acute Toxicity Test with the Cladoceran (Daphnia magna). Project No. 263A-104. Prepared by Wildlife International Ltd., Easton, MD. Submitted by Valent U.S.A. Corporation, Walnut Creek, CA. EPA MRID No. 426849-50. (This study is presently under review).

At present, EEB does not have any additional ecotoxicological data on this compound. The acute oral rat study is evaluated by the Toxicology Branch of OPP's Health Effects Division and EEB uses the rat as a toxicological surrogate, representative of small mammals.

102.2 Discussion

The active ingredient of the herbicide under discussion is formulated as both, a wettable powder (V-53482 WP) and a water-dispersible granule (V-53482 WDG). Both formulations are claimed to be the same chemically where the WP formulation is used to allow packaging in polyvinyl alcohol water-soluble bag. The WP formulation is the one to be used in this EUP.

This EUP is intended to investigate the various aspects listed above regarding the efficacy and commercial uses of this herbicide for the pre-emergence and pre-plant control of broadleaved weeds in soybeans at a maximum use rate of 43.4 grams of active ingredient per acre (g a.i./A) or 0.094 pounds a.i./A and, if required by EPA, to evaluate farm worker exposure/risk.

102.3 Toxicity Information

Table 2. BIRDS

Guid. No.	Test Species	% a.i.	LC/LD ₅₀ (ppm/-mg/kg)	MRID/ACC.	Evaluation Date	Status
AVIAN TI	ESTS	· · · · · · · · · · · · · · · · · · ·				
71-1(a)	Bobwhite	94.8	>2250 mg/kg NOEL =2250 mg/kg	426849-45	05/14/93	core
71-2(a)	Bobwhite	94.8	>5620 ppm NOEC 3160 ppm	426849-47	05/05/93	core
71-2(ъ)	Mallard	94.8	>5620 ppm NOEC =5620 ppm	426849-46	05/05/93	core

The above avian data shows that V-53482 is practically non-toxic to this group of organisms.

Table 3. MAMMALS (Verbal communication (7/13/93) from Alberto Protzel of HED/TB - Preliminary review)

Guid. No.	Test Species	LD ₅₀ (mg/kg)	MRID No.	Date of Test	Coregrade/ Document #
81-1	Rat	(M&F) > 5000 mg/kg	426849-11	1993	Guideline 010090

From the above mammalian acute toxicity data it can be inferred that V-53482 is practically non-toxic to small rodent-type mammals.

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Table 4. FISH

Guid. No.	Test Species	% a.i.	LC/LD ₅₀ (ppm/-mg/kg)	MRID/ACC.	Evaluation Date	Status
72-1(c)	Rainbow trout	94.8	2.3 ppm NOEL 0.92 ppm	422849-48	05/11/93	core
72-1(a)	Bluegill	94.8	>21 ppm NOEL 3.9 ppm	426849-49	05/11/93	core

V-53482 appears to be moderately toxic to the rainbow trout but only slightly toxic to the bluegill.

Table 5. AQUATIC INVERTEBRATES

Guid. Test & LC/LD ₅₀ MRID/ACC. Evaluation St. No. Species a.i. (ppm/-mg/kg) Date							
FRESHWA	FRESHWATER INVERTEBRATE						
72-2(a)	Daphnia	94.7	EC ₅₀ = 5.5 ppm No NOEC	426849-50	05/11/93	*under review	

^{*}This study is presently under review.

Table 6. BENEFICIAL INSECTS

Guid. Test a			LC/LD ₅₀ (ppm/-mg/kg)	MRID/ACC.	Evaluation Date	Status
HONEY B	EE .					
141-1	Apis m.	94.8	LD ₅₀ >105 ug/bee NOEL 105 ug/bee	426849-51	05/12/93	core

With the above LD_{50} value, V-53482 is considered to be practically nontoxic to the honey bee.

PLANTS

The registrant has not given EEB/OPP any data on the toxicity of this herbicide to non-target plants (aquatic or terrestrial).

103 RESIDUES AND EXPOSURE ASSESSMENT

103.1 Aquatic Exposure

The maximum application rate, according to the label provided by the registrant, will be 43.4 g a.i./A or about 0.1 lb a.i./A. If 10 acres of ground (drainage basin) are treated at a rate of 0.1 lbs a.i./A drain into a hypothetical one-acre pond (two different depths for the same pond are used to estimate different dilution factors), if total solubility of the herbicide in water is assumed and 1% of the pesticide were to reach the pond via runoff produced by rainfall following application, the following preliminary estimated environmental concentrations (PEEC) would be expected:

- a. 6-inch deep, 1 acre pond, surrounded by a 10 acre drainage basin
 = 7.34 ppb (0.00734 ppm)
- b. 6-foot deep, 1 acre pond, surrounded by a 10 acre drainage basin = 0.61 ppb (0.00061 ppm)

Comparing the lowest aquatic toxicity LC_{50} from the registrant's tests, namely the one for rainbow trout - or 2.3 ppm (NOEL= 0.92 ppm), with the above PEEC, this chemical at the proposed application rate is not likely to adversely affect fish similar in sensitivity to the surrogate tests species used in these tests. The sensitivity of freshwater invertebrates is still to be estimated from the daphnid study presently in EEB's possession.

Because no data are available, the effects on aquatic vegetation are unknown.

103.2 Avian and Mammalian Exposure

Test data for these two groups of organisms suggest that V-53482 is practically non-toxic to birds and small, rodent type mammals. At the maximum proposed application rate of 0.1 lb a.i./A, the concentration of this material on short range grasses would be about 24 ppm and 5.8 ppm for forage and insects.

Again, this level of exposure is not expected to have adverse effects on birds or small mammals similar to the test organisms (bobwhite quail, mallard duck and rats) where the lowest toxicity avian value was the avian LC_{50} 's > 5620 ppm. The young rat tests show all LD_{50} s >5000 mg/kg with estimated LC_{50} s = 50,000 ppm (assuming a body weight of 100 g and 10% daily consumption of this body weight or 10.0 g of food). Clearly no adverse effects are expected on this group of terrestrial organisms.

The formula used to estimate $LC_{50}s$ from $LD_{50}s$ is as follows:

LC₅₀ = Lowest LD₅₀ X Weight of Bird or Mammal

Total Amount Eaten/day

103.3 Plant Exposure (Terrestrial and Aquatic)

The adverse effects of this chemical to non-target plant species cannot be evaluated at present for a total lack of phytotoxicological data. Since this chemical is a herbicide it is potentially hazardous to plants.

104 Endangered Species Considerations

104.1 Terrestrial Species

Birds and Mammals

Test data for these two groups of organisms suggest that V-53482 is practically non-toxic to birds an small mammals. At the proposed maximum

application rate of 0.1 lb a.i./A the concentration of this material on short rangegrasses would be about 24 ppm (24,000 ppb) and 5.8 ppm (5800 ppb) for forage and insects.

As we stated before, this level of exposure is not expected to have adverse effects on birds or small mammals similar to the test organisms (bobwhite quail, mallard duck and rats) where the lowest toxicity avian value was the avian LC₅₀'s > 5620 ppm. The young rat tests show all LD₅₀s >5000 mg/kg with estimated LC₅₀s = 50,000 ppm (assuming a body weight of 100 g and 10% daily consumption of this body weight or 10.0 g of food). Clearly no adverse effects are expected on this group of terrestrial organisms. These estimated terrestrial residue values (ETRV)- from: Hoerger and Kenaga, 1972 - are much lower than 1/10 the lowest LC₅₀ (5620 ppm/10 = 562 ppm). The ETRVs for the broadcast applications is also lower than 1/10 the lowest LC₅₀ (50,000 ppm/10=5000 ppm) calculated for mammals. The proposed exposure levels resulting from the proposed maximum application rates do not appear to present a hazard to these two groups of organisms.

104.2 Aquatic Species

Fish and Freshwater Aquatic Invertebrates

Section 103.1 above describes the potential aquatic exposure to aquatic organisms or an application rate of 0.1 lb a.i. to a 6-inch deep, 1-acre pond with a 10-acre drainage basin would produce an EEC of 7.34 ppb and a similar pond 6 foot-deep will have a resulting EEC of 0.61 ppb. One tenth of the lowest scientifically valid reported LC₅₀ values for this group of organisms or 2.3 ppm/10 = 0.23 ppm (Bluegill - see Table 1) is considerably higher than these EEC values for the above broadcast unincorporated applications (7.34 and 0.61 ppb). As indicated above, the Daphnid test acute toxicity test (MRID 426849-50) is presently under review so that the risk to this type of organism from the proposed EUP has not been estimated. As indicated in Section 104 above, presently there are no listed endangered or threatened animal aquatic species in the proposed counties.

104.3 Terrestrial and Aquatic Plants

As stated above, the adverse effects of this chemical to non-target plant species cannot be evaluated at present for a total lack of data. However, because of the likely presence of listed endangered plants in some of the areas to be treated, EEB strongly recommends that the adverse-impact mitigating measure, as described under section 106 below, be observed.

Attachment C is an updated list of all endangered and threatened U.S. plants found in the 17 States where V-53482 WP is to be tested. The specific counties where these endangered plants are found are also listed.

105 Adequacy of toxicity Data

The toxicity data presented are adequate to evaluate this EUP proposal. For FIFRA Section 3 registration of this herbicide, additional data may be needed to fully assess risk. These data may include among others:

phytotoxic tests, specially if aerial application is to be used; chronic birds tests [71-4(a) and (b)] and fish and aquatic invertebrates ([72-4(a) and (b)]) tests. The acute daphnid test [72-2 (a)] is presently under review.

106 Adequacy of Labeling

The environmental precautionary labeling for the proposed use and maximum application rate is not adequate. It is recommended that the following verbiage be removed from the Environmental Hazards statement of the proposed label: Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated.

Also, the inclusion on the label of one or both of the following mitigating measures is highly recommended (if only one of these mitigating measures is to be used in the label, EEB would prefer the first one:

- 1." Do not use this herbicide in any of the counties listed in Attachment C where endangered plants are found."
- 2. "Do not spray within 100 yards of areas covered with native vegetation and rights-of-way."

A listing of the counties where endangered plant species are found is included for your convenience and use as "Attachment C".

NOTE: The label clearly indicates that this herbicide is to be applied by "properly calibrated ground equipment" but does not clearly specify that it should not be applied by aircraft as to avoid possible misuse by future buyers and EUP participants.

107 Conclusions:

Given the relatively low maximum application rate proposed, the application methods to be used (no aerial application is proposed), the fact that the area to be treated is relatively small, the environmental fate and toxicological characteristics of this herbicide to test organisms at the proposed application rates, EEB believes that no significant ecological hazard to non-target, non-endagered species is likely to occur by the implementation of this EUP.

Listed, endangered terrestrial and semi-aquatic plants are unlikely to be placed at risk as long as the proposed mitigation measures suggested above are adhered to.

The risk to aquatic invertebrates is being estimated from the daphnid test presented to EEB by the registrant. Additional tests may be required for future registration actions.

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Signature:

Alvaro A. Yamhure, Aquatic Biologist

Ecological Effects Branch

Environmental Fate and Effects Division Date:

H7507C

Daniel Rieder, Head Section 3

Ecological Effects Branch

Environmental Fate and Effects Division Date:

H7507C

Anthony F. Maciorowski, Chief

Ecological Effects Branch

Environmental Fate and Effects Division Date:

H7507C

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Signature:

Signature;

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Proposed EUP Labeling

TABLE 1. WEEDS CONTROLLED BY V-53482 WP HERBICIDE Preemergence Uses

		SECTION A			 		
WEED	SPECIES	Preemergence Uses *Acres Treated Per 6-oz Packet					
Common Name	Scientific Name		Soil	Organic Matte			
Carpetweed Common Groundsel Common Lambsquarters Common Pursiane Eclipta Florida Beggarweed Florida Pusiey	Mollugo versicillata Senecio vulgaris Chenopodium album Portulaca oleracea Eclipta alba Desmodium tortuosum Richardia scabra	Soil Texture	Less than 2%	2 to 4%	Over 4%		
Goosegrass Hairy indigo Kochia Little Mallow Nightshades	Eicusine indica Indigofera hirsuta Kochia scoparia Malva parviflora	Coarse Soils (sandy loam, loamy sand)	4	4	. 4		
Black Eastern Black Pigweeds Palmer Amaranth Redroot Smooth Spiny Amaranth Tumble Prickly Sida (Teaweed)	Solanum nigrum Solanum ptycanthum Amaranthus palmeri Amaranthus retroflexus Amaranthus hybridis Amaranthus spinosus Amaranthus albus Sida spinosa	Medium Soils (loamy, silt-loam, silt, sandy clay, sandy clay loam)	4	4	3		
Puncturevine Redmaids Shepardspurse Spotted Spurge Tall Waterhemp Venice Mallow	Tribulis terretris Calandrinia ciliata Capsella bursa-pastoris Euphorbia maculata Amaranthus tuberculatos Hibiscus trionum	Fine Soils (silty clay, silty clay loam, clay, clay loam)	3	3	. 3		
		SECTION B					
Common Name Barnyardgrass Common Ragweed Crabgrass	Scientific Name Echinochloa crus-galli Ambrosia artemisiifolia	Coarse Soils (sandy loam, loamy sand)	4	4	4		
Large Smooth Hemp Sesbania Jimsonweed Morningglories**	Digliaria sanguinalis Digliaria ischaemum Sesbania exaltata Datura stramonium	Medium Soils (loamy, silt loam, silt, sandy clay, sandy clay loam)	3	2.4	2.4		
Entire leaf Ivyleaf Pined Tall Velvetleaf	Ipomoea hederacea var. integriuscula Ipomoea hederacea Ipomoea lacunosa Ipomoea purpurea Aburtilon theophrasti	Fine Soils (sitty clay, sitty clay loam, clay, clay loam)	2.4	2.4	2		

Note: The information in this Table describes the number of acres treated with a 6-oz packet of V-53482 WP Herbicide, depending on soil texture and organic matter for the weed species listed in the left-hand column of this Table.

Morningglory species are not adequately controlled on heavy soils or soils with greater than 4 percent organic matter when V-53482 is applied alone or in a tank-mix with LASSO*, DUAL* or PROWL*.

HARCHMENT A VALENT 93-482-04 Page 21

D194585 Proposed EUP Labeling

TABLE 2. BROADLEAVES AND GRASSES SUPPRESSED BY V-53482 WP HERBICIDE

Preemergence Uses

BROADLEAVES			GRASSES	ACRES TREATED PER 6 OZ. PAÇKET
Common Name	Scientific Name	Common Name	Scientific Name	
Ladysthumb	Polygonum persicaria	Fall Panicum	Panicum dichotomiflorum	4
Pennsylvania Smartweed	Polygonum pensylvanicum			
Common Cocklebur	Xanthium Strumarium	Broadleaf Signalgrass	Brachiaria Platyphila	
Common Sunflower	Helianthus annuusum	Foxtails Giant Green Yellow	Setaria faberi Sertaria viridis Sertaria glauca	. 3
Sicklepod	Cassia obtusifolia	Johnsongrass seedlings	Sorghum halepense	2
Yellow Nutsedge	Cyperus esculentus			

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	PROPOSED	TRIAL	NUMBER	PRODUCT REQUI	REMENT NEEDS
STATE	ACREAGE USE	TYPE For Soybeans*	OF TRIALS	Formulated Product	Active Ingredient**
	COL	Soyocans	1.00	(oz)	(gms)
Arkansas	30	RT/NT(2)	2	90.1	1,302
Illinois	2 40	CP(2) RT/NT(4) WE (1)	7	720.6	10,416
Indiana	75	CP(2) RT/NT(3)	5	225.2	3,255
Iowa	90	CP(3) RT/NT(3)	6	270.2	3,906
Kansas	15	CP(1)	1	45	651
Kentucky	45	RT/NT(3)	3	135.1	1,953
Louisiana	. 30	RT/NT(2)	2	90.1	1,302
Maryland	15	RT/NT(1)	1	45	651
Michigan	30	RT/NT(2)	2	90.1	1,302
Minnesota	60	CP(2) RT/NT(2)	4	180.1	2,604
Mississippi	30	RT/NT(2)	2	90.1	1,302
Missouri	240	CP(3) RT/NT(3) WE(1)	7	720.6	10,416
Nebraska	45	CP(1) RT/NT(2)	3	135.1	1,953

STATE	PROPOSED ACREAGE	TRIAL	NUMBER	PRODUCT REQU	IREMENT NEEDS	
SIAIL	USE	TYPE For Soybeans*	OF TRIALS	Formulated Product (oz)	Active Ingredient** (gms)	
North Carolina	30	CP(1) RT/NT(1)	2	90.1	1,302	
Ohio	225	CP(1) RT/NT(4) WE(1)	r(4) 6 675.5		9,765	
Tennessee	30	0 RT/NT(2) 2		90.1	1,302	
Virginia	30	RT/NT(2)	2	90.1	1,302	
Totals	1,260	CP=16 RT/NT=38 WE=3	57	3,783.1	54,684	

- Trials conducted under this EUP will be of three types; conventional tillage preemergence (CP), reduced tillage (RT)/no-tillage (NT) and possibly worker exposure (WE) (3 trials at 150 acres per trial). For purposes of this EUP, conventional tillage will be defined as any mechanical tillage which results in a weed-free seedbed, (i.e., deep tillage, plow + disc, subsoil + disc) all weed and crop residue are buried. Reduced tillage will be defined as tillage less than conventional with weeds present at planting. No-tillage is defined as no mechanical soil disturbance with weeds present at planting (includes stale seedbed).
- The amount of V-53482 WP in water soluble packets requested for this EUP program is based on a maximum application rate of 43.4 grams active ingredient per acre per single growing season. No more than 43.4 grams active ingredient or 3 ounces of formulated product per acre of V-53482 WP in water soluble packets will be applied to an EUP-treated acre in a single growing season. This EUP Program is scheduled to last for two (2) years. A total of 89,838 grams (198.1 lbs) active ingredient will be needed to conduct this two (2) year program. A total of 35,154 grams (77.52 lbs) active ingredient will be used each year with the following exception: an additional 19,530 grams (43 lbs) active ingredient will be used in one year for the worker exposure study, if deemed necessary by EPA.

3. Justification for Product Requirements

Based on U.S. Agricultural Statistics for 1988 (Agricultural Statistics 1987 — Soybeans, Pages 126-127, United States Government Printing Office, Washington; 1988), the total soybean acreage planted in Arkansas, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maryland, Michigan, Minnesota, Mississippi, Missouri, Nebraska, North Carolina, Ohio, Tennessee, and Virginia was 52,110,000 acres.

"Attachment C" 10/19/93 D194585 PAGE 1 0f 15

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	COUNTY	SPECIES	COUNT	GROUP	SOYBEANS
*1	STATE > ARKANSAS				
	BRADLEY	GEOCARPON MINIMUM	1	PLANT	, 338
	CLAY	PONDBERRY	1	PLANT	82226
	DREW	GEOCARPON MINIMUM	1	PLANT	20385
	FRANKLIN	GEOCARPON MINIMUM	1	PLANT	2424
	JACKSON	PONDBERRY	1	PLANT	161259
	LAVRENCE	PONDBERRY	1	PLANT	74431
	WOODRUFF	PONDBERRY	1	PLANT	122367
	YELL	HARPERELLA	. 1	PLANT	15142
**	Subtotal **	·	*		
			. 8		478572
œ m	STATE > IOWA				•
	ADAIR	MILKWEED, MEAD'S	1	PLANT	. 66704
	ADAIR	ORCHID, WESTERN PRAIRIE FRINGED		PLANT	66704
	ALLAMAKEE	MONKSHOOD, NORTHERN WILD		PLANT	3726
	BREMER	ORCHID, WESTERN PRAIRIE FRINGED	_	PLANT	52660
	BUENA VISTA	ORCHID, WESTERN PRAIRIE FRINGED	_	PLANT	130258
	BUTLER	BUSH-CLOVER, PRAIRIE		PLANT	86141
	CHEROKEE	ORCHID, WESTERN PRAIRIE FRINGED		PLANT	
	CLARKE	BUSH-CLOVER, PRAIRIE		PLANT	100873
	CLARKE	MILKWEED, MEAD'S			24717
	CLAY	ORCHID, WESTERN PRAIRIE FRINGED		PLANT	24717
	CLAYTON	MONKSHOOD, NORTHERN WILD		PLANT	10851
	DELAWARE	MONKSHOOD, NORTHERN WILD		PLANT	10851
	DICKINSON	BUSH-CLOVER, PRAIRIE		PLANT	26262
	DICKINSON			PLANT	74062
	DUBUQUE	ORCHID, WESTERN PRAIRIE FRINGED		PLANT	74062
	EMMET	MONKSHOOD, NORTHERN WILD		PLANT	4133
	EMMET	BUSH-CLOVER, PRAIRIE		PLANT	84899
		ORCHID, WESTERN PRAIRIE FRINGED		PLANT	84899
	GUTHRIE	ORCHID, WESTERN PRAIRIE FRINGED		PLANT	72201
	HOWARD	BUSH-CLOVER, PRAIRIE		PLANT	63110
	HOWARD	ORCHID, WESTERN PRAIRIE FRINGED		PLANT	63110
	JACKSON	MONKSHOOD, NORTHERN WILD		PLANT	9467
	JOHNSON	ORCHID, EASTERN PRAIRIE FRINGED		PLANT	54296
	KOSSUTH	BUSH-CLOVER, PRAIRIE	1	PLANT	233034
	KOSSUTH	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	233034
	LUCAS	BUSH-CLOVER, PRAIRIE	1	PLANT	19978
	OSCEOLA	BUSH-CLOVER, PRAIRIE	.1	PLANT	91774
	POCOHONTAS	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	94261
	STORY	BUSH-CLOVER, PRAIRIE	1	PLANT	117965
	WARREN	MILKWEED, MEAD'S	1	PLANT	53371
	WINNESHIEK	BUSH-CLOVER, PRAIRIE	1	PLANT	18580
	DECATUR	ORCHID, EASTERN PRAIRIE FRINGED	1	PLANT	31224
	APPANOOSE	ORCHID, EASTERN PRAIRIE FRINGED	1	PLANT	25860
	CEDAR	ORCHID, EASTERN PRAIRIE FRINGED	1	PLANT	71248

COUNTY	SPECIES	COUNT	GROUP	SOYBEANS
DAVIS	ORCHID, EASTERN PRAIRIE FRINGED	1	PLANT	31948
DES MOINES	ORCHID, EASTERN PRAIRIE FRINGED	1	PLANT	50976
HENRY	ORCHID, EASTERN PRAIRIE FRINGED	1	PLANT	49029
IOHA	ORCHID, EASTERN PRAIRIE FRINGED	1	PLANT	48725
JEFFERSON	ORCHID, EASTERN PRAIRIE FRINGED	1	PLANT	54787
KEOKUK .	ORCHID, EASTERN PRAIRIE FRINGED	1	PLANT	64470
LEE	ORCHID, EASTERN PRAIRIE FRINGED	1	PLANT	60580
LOUISA	ORCHID, EASTERN PRAIRIE FRINGED	1	PLANT	50482
LUCAS	ORCHID, EASTERN PRAIRIE FRINGED	1	PLANT	19978
MONROE	ORCHID, EASTERN PRAIRIE FRINGED	1	PLANT	19212
MUSCATINE	ORCHID, EASTERN PRAIRIE FRINGED	1	PLANT	54102
SCOTT	ORCHID, EASTERN PRAIRIE FRINGED	3	PLANT	38786
WAPELLO	ORCHID, EASTERN PRAIRIE FRINGED	. 1	PLANT	46721
WASHINGTON	ORCHID, EASTERN PRAIRIE FRINGED	1	PLANT	66723
WAYNE	ORCHID, EASTERN PRAIRIE FRINGED	. 1	PLANT	38334
VAN BUREK	ORCHID, EASTERN PRAIRIE FRINGED	1	PLANT	40843
DECATUR	MILKWEED, MEAD'S	1	PLANT	31224
LUEAS	MILKWEED, MEAD'S	1	PLANT	19978
MADISON	MILKWEED, MEAD'S	1	PLANT	51363
RINGGOLD	MILKWEED, MEAD'S	1	PLANT	⁻ 42819
UNION	MILKWEED, MEAD'S	1	PLANT	32681
WAYNE	MILKWEED, MEAD'S	1	PLANT	38334
DELAWARE	BUSH-CLOVER, PRAIRIE	1	PLANT	26262
- ADAIR	BUSH-CLOVER, PRAIRIE	1	PLANT	66704
ADAMS	BUSH-CLOVER, PRAIRIE	1	PLANT	42173
ALLAMAKEE	BUSH-CLOVER, PRAIRIE	,	PLANT	3726
APPANOOSE	BUSH-CLOVER, PRAIRIE	1	PLANT	25860
AUDUBON	BUSH-CLOVER, PRAIRIE	1	PLANT	65109
BENTON	BUSH-CLOVER, PRAIRIE	· 1	PLANT	126534
BLACK HAWK	BUSH-CLOVER, PRAIRIE	1	PLANT	88213
BOONE	BUSH-CLOVER, PRAIRIE	1	PLANT	122615
BUCHANAN	BUSH-CLOVER, PRAIRIE	1	PLANT	71922
BREMER	BUSH-CLOVER, PRAIRIE	1	PLANT	52660
BUENA VISTA	BUSH-CLOVER, PRAIRIE	1	PLANT	130258
CALHOUN	BUSH-CLOVER, PRAIRIE	1	PLANT	144293
CARROLL	BUSH-CLOVER, PRAIRIE		PLANT	115659
CASS	BUSH-CLOVER, PRAIRIE	1	PLANT	84078
CEDAR	BUSH-CLOVER, PRAIRIE	1	PLANT	71248
CERRO GORDO	BUSH-CLOVER, PRAIRIE		PLANT	98942
CHEROKEE	BUSH-CLOVER, PRAIRIE	1	PLANT	100873
CHICKASAW	BUSH-CLOVER, PRAIRIE		PLANT	59084
CLAY	BUSH-CLOVER, PRAIRIE		PLANT	114582
CLAYTON	BUSH-CLOVER, PRAIRIE		PLANT	10851
CLINTON	BUSH-CLOVER, PRAIRIE	_	PLANT	63428
CRAWFORD	BUSH-CLOVER, PRAIRIE		PLANT	98070
DALLAS	BUSH-CLOVER, PRAIRIE		PLANT	103628
	APPENDED TO THE PROPERTY OF TH			

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COUNTY	· SP	ECIES	COUNT	GROUP	SOYBEANS
DAVIS	BUSH-CLOVER, PRAIL	RIE	1	PLANT	31948
DECATUR	BUSH-CLOVER, PRAIL	RIE	1	PLANT	31224
DES MOINES	BUSH-CLOVER, PRAIL	RIE	. 1	PLANT	50976
DUBUQUE	BUSH-CLOVER, PRAIL	RIE	1	PLANT	4133
FAYETTE	BUSH-CLOVER, PRAIL	RIE	1	PLANT	67824
FLOYD	BUSH-CLOVER, PRAIL	RIE .	1	PLANT	93208
FRANKLIN	BUSH-CLOVER, PRAIL	RIĖ	1	PLANT	111856
FREMONT	BUSH-CLOVER, PRAIL	RIE	1	PLANT	107022
GREENE	BUSH-CLOVER, PRAI	RIE	1	PLANT	139225
GRUNDY	BUSH-CLOVER, PRAIL	RIE	1	PLANT	103749
CUTHRIE	BUSH-CLOVER, PRAIL		1	PLANT	72201
HAMILTON	BUSH-CLOVER, PRAIL	RIE 🥳 💮	1	PLANT	133655
HANCOCK	BUSH-CLOVER, PRAIL	RIE	1	PLANT	120801
HARDIN	BUSH-CLOVER, PRAIL	RIE	1	PLANT	105352
HARRISON	BUSH-CLOVER, PRAI	RIE	1	PLANT	113656
HENRY	BUSH-CLOVER, PRAIL	RIE	1	PLANT	49029
HUMBOLT	BUSH-CLOVER, PRAIL	RIE	1	PLANT	111004
IDA	BUSH-CLOVER, PRAIL	RIE	1	PLANT	69740
IOWA	BUSH-CLOVER, PRAI	RIE	1	PLANT	48725
JACKSON	BUSH-CLOVER, PRAIL	RIE	1	PLANT	9467
JASPER	BUSH-CLOVER, PRAI	RIE	1	PLANT	102143
JEFFERSON	BUSH-CLOVER, PRAIL	RIE	1	PLANT	54787
LOHNSON	BUSH-CLOVER, PRAIL	RIE	1	PLANT	54296
JONES	BUSH-CLOVER, PRAIL	RIE	1	PLANT	40219
KEOKUK	BUSH-CLOVER, PRAIL	RIE	1	PLANT	64470
LEE	BUSH-CLOVER, PRAIL	RIE	1	PLANT	60580
LOUISA	BUSH-CLOVER, PRAIL	RIE	1	PLANT	50482
MADISON	BUSH-CLOVER, PRAIL	RIE	1	PLANT	51363
MAHASKA	BUSH-CLOVER, PRAIL	RIE	1	PLANT	79429
MARION	BUSH-CLOVER, PRAIL	RIE	1	PLANT	58702
MARSHALL	BUSH-CLOVER, PRAIL	RIE	1	PLANT	81281
MILLS	BUSH-CLOVER, PRAIL	RIE	1	PLANT	80845
MITCHELL	BUSH-CLOVER, PRAIL	RIE	1	PLANT	72951
MONONA	BUSH-CLOVER, PRAIL	RIE	1	PLANT	97936
MONROE	BUSH-CLOVER, PRAIL	RIE	1	PLANT	19212
MONTGOMERY	BUSH-CLOVER, PRAIL	RIE	. 1	PLANT	72597
MUSCATINE	BUSH-CLOVER, PRAIL	RIE	1	PLANT	54102
O'BRIEN	BUSH-CLOVER, PRAIL	RIE	1	PLANT	132665
PAGE	BUSH-CLOVER, PRAI	RIE	1	PLANT	94261
PALO ALTO	BUSH-CLOVER, PRAI	RIE	1	PLANT	126240
PLYMOUTH	BUSH-CLOVER, PRAI		. 1	PLANT	126240
POCAHONTAS	BUSH-CLOVER, PRAIL	RIE	1	PLANT	142055
POLK	BUSH-CLOVER, PRAI	RIE	1	PLANT	79880
POTTAWATTAMIE	BUSH-CLOVER, PRAI		1	PLANT	159046
POWESHIEK	BUSH-CLOVER, PRAI	RIE	1	PLANT	76368
RINGGOLD	BUSH-CLOVER, PRAT		1	PLANT	42819

COUNTY	. SPECIES	COUNT GROUP	SOYBEANS
SAC	BUSH-CLOVER, PRAIRIE	1 PLANT	117003
SCOTT	BUSH-CLOVER, PRAIRIE	1 PLANT	117882
SHELBY	BUSH-CLOVER, PRAIRIE	1 PLANT	38786 90028
SIOUX	BUSH-CLOVER, PRAIRIE	1 PLANT	118683
TANA	BUSH-CLOVER, PRAIRIE	1 PLANT	100936
TAYLOR	BUSH-CLOVER, PRAIRIE	1 PLANT	59816
UNION	BUSH-CLOVER, PRAIRIE	1 PLANT	32681
VAN BUREN	BUSH-CLOVER, PRAIRIE	1 PLANT	40843
WAPELLO	BUSH-CLOVER, PRAIRIE	1 PLANT	46721
WARREN	BUSH-CLOVER, PRAIRIE	1 PLANT	53371
WASHINGTON	BUSH-CLOVER, PRAIRIE	1 PLANT	66723 .
WAYNE	BUSH-CLOVER, PRAIRIE	1 PLANT	38334
WEBSTER	BUSH-CLOVER, PRAIRIE	1 PLANT	170666
WINNEBAGO	BUSH-CLOVER, PRAIRIE	1 PLANT	82268
WOODBURY	BUSH-CLOVER, PRAIRIE	1 PLANT	86671
WORTH	BUSH-CLOVER, PRAIRIE	1 PLANT	72543
WRIGHT	BUSH-CLOVER, PRAIRIE	1 PLANT	137106
FAYETTE	ORCHID, WESTERN PRAIRIE FRINGED	1 PLANT	67824
ADAMS	ORCHID, WESTERN PRAIRIE FRINGED	1 PLANT	66704
APPANOOSE	ORCHID, WESTERN PRAIRIE FRINGED	1 PLANT	25860
AUDUBON	ORCHID, WESTERN PRAIRIE FRINGED	1 PLANT	65109
BENTON	ORCHID, WESTERN PRAIRIE FRINGED	1 PLANT	126534
BLACK HAWK	ORCHID, WESTERN PRAIRIE FRINGED	1 PLANT	88213
BOONE	ORCHID, WESTERN PRAIRIE FRINGED	1 PLANT	122615
BUCHANAN	. ORCHID, WESTERN PRAIRIE FRINGED	1 PLANT	71922
BUTLER	ORCHID, WESTERN PRAIRIE FRINGED	1 PLANT	86141
CALHOUN	ORCHID, WESTERN PRAIRIE FRINGED	1 PLANT	144293
CARROLL	ORCHID, WESTERN PRAIRIE FRINGED	1 PLANT	115659
CASS	ORCHID, WESTERN PRAIRIE FRINGED	1 PLANT	84078
CEDAR	ORCHID, WESTERN PRAIRIE FRINGED	1 PLANT	71248
CERRO GORDO	ORCHID, WESTERN PRAIRIE FRINGED	1 PLANT	98942
CHICKASAW	ORCHID, WESTERN PRAIRIE FRINGED	1 PLANT	59084
CLARKE	ORCHID, WESTERN PRAIRIE FRINGED	1 PLANT	24717
CLAYTON	ORCHID, WESTERN PRAIRIE FRINGED	1 PLANT	10851
CLINTON	ORCHID, WESTERN PRAIRIE FRINGED	1 PLANT	63428
CRAWFORD	ORCHID, WESTERN PRAIRIE FRINGED	1 PLANT	98070
DALLAS	ORCHID, WESTERN PRAIRIE FRINGED	1 PLANT	103628
DAVIS	ORCHID, WESTERN PRAIRIE FRINGED	1 PLANT	31948
DECATUR	ORCHID, WESTERN PRAIRIE FRINGED	1 PLANT	31224
DELAWARE	ORCHID, WESTERN PRAIRIE FRINGED	1 PLANT	26262
DES MOINES	ORCHID, WESTERN PRAIRIE FRINGED	1 PLANT	50976
DUBUQUE	ORCHID, WESTERN PRAIRIE FRINGED	1 PLANT	4133
FLOYD	ORCHID, WESTERN PRAIRIE FRINGED	1 PLANT	93208
FRANKLIN	ORCHID, WESTERN PRAIRIE FRINGED	1 PLANT	111856
FREMONT	ORCHID, WESTERN PRAIRIE FRINGED	1 PLANT	107022
GREENE	ORCHID, WESTERN PRAIRIE FRINGED	1 PLANT	139225

GRUNDY ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 133655 MANICCK OCCHID, MESTERN PRAIRIE FRINGED 1 PLANT 133655 MANICCK OCCHID, MESTERN PRAIRIE FRINGED 1 PLANT 120001 MARDIN OCCHID, MESTERN PRAIRIE FRINGED 1 PLANT 1005552 MARRISON ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 13656 MEMRY OCCHID, MESTERN PRAIRIE FRINGED 1 PLANT 13656 MEMRY OCCHID, MESTERN PRAIRIE FRINGED 1 PLANT 11004 IDA OCCHID, MESTERN PRAIRIE FRINGED 1 PLANT 111004 IDA OCCHID, MESTERN PRAIRIE FRINGED 1 PLANT 111004 IDA OCCHID, MESTERN PRAIRIE FRINGED 1 PLANT 69740 JOHAN OCCHID, MESTERN PRAIRIE FRINGED 1 PLANT 10214 JASPER OCCHID, MESTERN PRAIRIE FRINGED 1 PLANT 10214 JOHNSON OCCHID, MESTERN PRAIRIE FRINGED 1 PLANT 10260 JOHES OCCHID, MESTERN PRAIRIE FRINGED 1 PLANT 10260 JOHES OCCHID, MESTERN PRAIRIE FRINGED 1 PLANT 10260 LINN OCCHID, MESTERN PRAIRIE FRINGED 1 PLANT 10260 LINN OCCHID, MESTERN PRAIRIE FRINGED 1 PLANT 105050 MOJISA JORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 105550 MOJISA JORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 105550 MOJISON OCCHID, MESTERN PRAIRIE FRINGED 1 PLANT 105631 MONONA OCCHID, MESTERN PRAIRIE FRINGED 1 PLANT 105636 MOSCELLA OCCHID, MESTERN PRAIRIE FRINGED 1 PLANT 105636 MOSCELLA O	COUNTY	SPECIES	COUNT	GROUP	SOYBEANS
NAMODIX	GRUNDY	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	103749
NARDIN	HAMILTON	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	133655
MARRISON	HANCOCK	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	120801
NENRY	HARDIN	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	105352
NUMBOLT	HARRISON	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	113656
IDA	HENRY	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	49029
IOMA	HUMBOLT	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	111004
JACKSOM ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 102143 JASPER ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 102143 JEFFERSON ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 54787 JOHNSON ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 54296 JONES ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 122615 KEOKUK ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 122615 KEOKUK ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 64470 LEE ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 64580 LINN ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 81631 LUJISA JORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 50482 LUCAS ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 19976 LYON ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 195550 MAJISON ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 105550 MAJISON ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 51363 MAHASKA ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 51363 MARSKAL ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 558702 MARION ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 58702 MARSHALL ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 81281 MILLS ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 81281 MILLS ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 80845 MITCHELL ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 80845 MONONA ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 72951 MONONA ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 72951 MONORE ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 72597 MUSCATINE ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 72597 MUSCATINE ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 72597 MUSCATINE ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 72597 PAGE ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 72597 PAGE ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 72680 POLK ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 72680 POLK ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 73680 RINGGOLD ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 75880 POTTAUATTAMIE ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 75880 POTTAUATTAMIE ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 75880 POTTAUATTAMIE ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 75880 SCOTT ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 115882 SCOTT ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 1159046 FOMESTERN PRAIRIE FRINGED 1 PLANT 115883 STORY ORC	IDA -	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	69740
JASPER ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 54787 JOHNSON ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 54787 JOHNSON ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 54296 JONES ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 122615 KEOKUK ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 64470 LEE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 64508 LITHN ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 81631 LUJISA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 50482 LUCAS ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 19978 LYON ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 105550 MADISON ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 105550 MADISON ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 51363 MAHASKA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 51363 MARASKA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 54809 MARION ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 54809 MARION ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 81281 MILLS ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 81281 MILLS ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 81281 MILLS ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 80845 MITCHELL ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 80845 MITCHELL ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 81631 MONROE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 19212 MONTGOMERY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 192665 OSCEOLA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 132665 OSCEOLA	IOHA	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	48725
JEFFERSON	JACKSON	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	9467
JOHNSON ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 122615	JASPER	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	102143
JONES	JEFFERSON	ORCHID, WESTERN PRAIRIE FRINGED	. 1	PLANT	54787
KEOKUK ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 64470 LEE ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 60580 LINM ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 81631 LOUISA .ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 50482 LUCAS ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 19978 LYON ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 105550 MADISON ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 79429 MARION ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 79429 MARION ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 81281 MILLS ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 80245 MITCHELL ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 72951 MONOMA ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 81631 MONTCOMERY ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 72597 MUSCATINE ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 72597 MUSCATINE ORCHID, MESTERN PRAIRIE FRINGED </td <td>JOHNSON</td> <td>ORCHID, WESTERN PRAIRIE FRINGED</td> <td>1</td> <td>PLANT</td> <td>54296</td>	JOHNSON	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	54296
LEE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 60580 LINN ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 81631 LOUISA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 50482 LUCAS ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 19978 LYON ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 105550 MADISON ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 51363 MARSKA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 58702 MARION ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 58702 MARSHALL ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 80845 MITCHELL ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 80845 MITCHELL ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 72951 MONROE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 722951 MONROE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 72597 MUSCATINE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 72640 O'BRIED ORCHID, WESTERN PRAIRIE FRINGED <td>JONES</td> <td>ORCHID, WESTERN PRAIRIE FRINGED</td> <td>. 1</td> <td>PLANT</td> <td>122615</td>	JONES	ORCHID, WESTERN PRAIRIE FRINGED	. 1	PLANT	122615
LINN ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 50482 LUCAS ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 50482 LUCAS ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 19978 LYON ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 105550 MADISON ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 51363 MAHASKA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 51363 MAHASKA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 55702 MARION ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 55702 MARSHALL ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 81281 MILLS ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 80845 MITCHELL ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 80645 MITCHELL ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 72951 MONONA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 19212 MONTGOMEY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 19212 MONTGOMEY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 72597 MUSCATINE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 72597 MUSCATINE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 132665 OSCEOLA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 132665 OSCEOLA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 132665 OSCEOLA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 132665 PALO ALTO ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 132664 PLYMOUTH ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 13600 POLK ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 159046 POWESHIEK ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 159046 POWESHIEK ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 159046 POWESHIEK ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 159046 SAC ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 159046 SCOTT ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 159046 SHEBY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117882 SCOTT ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117882 SCOTT ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117865 STORY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117868	KEOKUK	ORCHID, WESTERN PRAIRIE FRINGED	. 1	PLANT	64470
LOUISA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 19978 LYON ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 105550 MADISON ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 105550 MADISON ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 751363 MANASKA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 75429 MARION ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 58702 MARSHALL ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 81281 MILLS ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 80845 MITCHELL ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 72951 MONONA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 81631 MONROE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 19212 MONTGOMERY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 19212 MONTGOMERY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 72597 MUSCATINE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 132665 OSCEOLA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 132665 OSCEOLA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 132665 OSCEOLA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 132665 PALO ALTO ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 94774 PAGE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 94261 PALO ALTO ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 94261 PALO ALTO ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 137600 POLK ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 137600 POLK ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 79880 POTIAWATIAMIE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 137600 POLK ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 137606 RINGGOLD ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 159046 RINGGOLD ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 159046 RINGGOLD ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 159046 SAC ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 137882 SCOTT ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 137882 SCOTT ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 13883 SIONY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117882 SIOUX ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 118883 STORY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117865	LEE	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	60580
LUCAS ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 19978 LYON ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 105550 MADISON ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 51363 MARASKA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 79429 MARION ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 58702 MARSHALL ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 80845 MITCHELL ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 72951 MONONA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 81631 MONROE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 19212 MONTGOMERY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 72597 MUSCATINE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 132665 OSCEOLA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 132665 OSCEOLA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 132665 OSCEOLA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 137600 PULYHOUTH ORCHID, WESTERN PR	LINN	ORCHID, WESTERN PRAIRIE FRINGED		PLANT	81631
LYON ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 105550 MADISON ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 51363 MAHASKA ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 79429 MARION ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 58702 MARSHALL ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 81281 MILLS ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 80845 MITCHELL ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 72951 MONONA ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 72951 MONROE ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 72597 MUSCATINE ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 72597 MUSCATINE ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 736402 O'BRIEN ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 132665 OSCEOLA ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 132645 OSCEOLA ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 132645 OSCEOLA ORCHID, MESTERN PRAIR	LOUISA .	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	50482
MADISON ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 51363 MAHASKA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 79429 MARION ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 58702 MARSHALL ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 81281 MILLS ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 80845 MITCHELL ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 72951 MONONA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 81631 MONROE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 72597 MUSCATINE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 72597 MUSCATINE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 54102 O'BRIEN ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 97774 PAGE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 132665 OSCEOLA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 126240 PLAW ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 137600 POLK ORCHID, WESTERN PRAIRIE FRING	LUCAS	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	19978
MAHASKA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 79429 MARION ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 58702 MARSHALL ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 81281 MILLS ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 80845 MITCHELL ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 72951 MONONA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 81631 MONROE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 72597 MUSCATINE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 72597 MUSCATINE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 132665 OSCEOLA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 132665 OSCEOLA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 94261 PALO ALTO ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 126240 PLYMOUTH ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 137600 POLK ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 179880 POTAWATATMIE ORCHID, WESTE	LYON	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	105550
MARION ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 58702 MARSHALL ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 81281 MILLS ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 80845 MITCHELL ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 72951 MONONA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 81631 MONROE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 19212 MONTGOMERY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 72597 MUSCATINE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 54102 O'BRIEN ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 132665 OSCEOLA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 91774 PAGE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 126240 PLYMOUTH ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 137600 POLK ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 79880 POTTAWATAMIE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 76368 RINGGOLD ORCHID, WESTERN PR	MADISON	ORCHID, WESTERN PRAIRIE FRINGED	- 1	PLANT	51363
MARSHALL ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 80845 MILLS ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 80845 MITCHELL ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 72951 MONONA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 81631 MONROE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 19212 MONTGOMERY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 72597 MUSCATINE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 72597 MUSCATINE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 132665 OSCEOLA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 91774 PAGE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 91774 PAGE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 91774 PAGE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 126240 PLYMOUTH ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 137600 POLK ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 79880 POTTAWATTAMIE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 75860 POWESHIEK ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 76368 RINGGOLD ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 76368 RINGGOLD ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117882 SAC ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117882 SCOTT ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117882 SCOTY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117865 TAMA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117865	MAHASKA	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	79429
MILLS ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 72951 MITCHELL ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 72951 MONONA ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 81631 MONROE ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 19212 MONTGOMERY ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 72597 MUSCATINE ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 54102 O'BRIEN ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 132665 OSCEOLA ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 91774 PAGE ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 94261 PALO ALTO ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 126240 PLYMOUTH ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 137600 POLK ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 79880 POTTAWATTAMIE ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 159046 POWESHIEK ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 76368 RINGGOLD ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 76368 RINGGOLD ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 117882 SAC ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 117882 SCOTT ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 117863 STORY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 118683 STORY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117965 TAMA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117965	MARION	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	58702
MITCHELL ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 72951 MONONA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 81631 MONROE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 19212 MONTGOMERY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 72597 MUSCATINE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 54102 O'BRIEN ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 132665 OSCEOLA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 91774 PAGE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 94261 PALO ALTO ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 126240 PLYMOUTH ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 137600 POLK ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 79880 POTTAWATTAMIE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 76368 RINGGOLD ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 76368 RINGGOLD ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 42819 SAC ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117882 SCOTT ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117886 SHELBY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 118683 STORY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 118683 STORY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 118683	MARSHALL	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	81281
MONONA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 19212 MONTGOMERY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 72597 MUSCATINE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 72597 MUSCATINE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 54102 O'BRIEN ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 132665 OSCEOLA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 91774 PAGE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 94261 PALO ALTO ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 126240 PLYMOUTH ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 137600 POLK ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 79880 POTTAWATTAMIE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 159046 POWESHIEK ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 76368 RINGGOLD ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 42819 SAC ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117882 SCOTT ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117882 SIOUX ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 118683 STORY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 118683 STORY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117965 TAMA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 1100936	MILLS	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	80845
MONROE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 19212 MONTGOMERY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 72597 MUSCATINE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 54102 O'BRIEN ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 132665 OSCEOLA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 91774 PAGE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 94261 PALO ALTO ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 126240 PLYMOUTH ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 137600 POLK ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 79880 POTTAWATTAMIE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 159046 POWESHIEK ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 76368 RINGGOLD ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117882 SCOTT ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 38786 SHEBY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 118683 SIOUX ORCHID, WESTER	MITCHELL	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	72951
MONTGOMERY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 72597 MUSCATINE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 54102 O'BRIEN ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 132665 OSCEOLA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 91774 PAGE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 94261 PALO ALTO ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 126240 PLYMOUTH ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 137600 POLK ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 79880 POTTAWATTAMIE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 159046 POWESHIEK ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 76368 RINGGOLD ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 42819 SAC ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117882 SCOTT ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117882 SCOTT ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 38786 SHELBY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 90028 SIOUX ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 118683 STORY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 118683	MONONA	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	81631
MUSCATINE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 54102 O'BRIEN ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 132665 OSCEOLA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 91774 PAGE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 94261 PALO ALTO ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 126240 PLYMOUTH ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 137600 POLK ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 79880 POTTAWATTAMIE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 159046 POWESHIEK ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 76368 RINGGOLD ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 76368 RINGGOLD ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 42819 SAC ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117882 SCOTT ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 38786 SHELBY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 90028 SIOUX ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 118683 STORY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 118683	MONROE	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	19212
O'BRIEN ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 132665 OSCEOLA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 91774 PAGE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 94261 PALO ALTO ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 126240 PLYMOUTH ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 137600 POLK ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 79880 POTTAWATTAMIE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 159046 POWESHIEK ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 76368 RINGGOLD ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 42819 SAC ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117882 SCOTT ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 38786 SHELBY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 90028 SIOUX ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 118683 STORY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 118683	MONTGOMERY	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	72597
OSCEOLA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 91774 PAGE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 94261 PALO ALTO ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 126240 PLYMOUTH ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 137600 POLK ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 79880 POTTAWATTAMIE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 159046 POWESHIEK ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 76368 RINGGOLD ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 42819 SAC ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117882 SCOTT ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 38786 SHELBY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 90028 SIOUX ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 118683 STORY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117965 TAMA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117965	MUSCATINE	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	54102
PAGE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 94261 PALO ALTO ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 126240 PLYMOUTH ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 137600 POLK ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 79880 POTTAWATTAMIE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 159046 POWESHIEK ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 76368 RINGGOLD ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 42819 SAC ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117882 SCOTT ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 38786 SHELBY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 90028 SIOUX ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 118683 STORY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117965 TAMA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117965	O'BRIEN	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	132665
PALO ALTO ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 126240 PLYMOUTH ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 137600 POLK ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 79880 POTTAWATTAMIE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 159046 POWESHIEK ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 76368 RINGGOLD ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 42819 SAC ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117882 SCOTT ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 38786 SHELBY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 90028 SIOUX ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 118683 STORY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117965 TAMA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117965	OSCEOLA	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	91774
PLYMOUTH ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 137600 POLK ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 79880 POTTAWATTAMIE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 159046 POWESHIEK ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 76368 RINGGOLD ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 42819 SAC ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117882 SCOTT ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 38786 SHELBY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 90028 SIOUX ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 118683 STORY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117965 TAMA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117965	PAGE	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	94261
POLK ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 79880 POTTAWATTAMIE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 159046 POWESHIEK ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 76368 RINGGOLD ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 42819 SAC ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117882 SCOTT ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 38786 SHELBY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 90028 SIOUX ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 118683 STORY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117965 TAMA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 1100936	PALO ALTO	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	
POTTAWATTAMIE ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 159046 POWESHIEK ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 76368 RINGGOLD ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 42819 SAC ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117882 SCOTT ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 38786 SHELBY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 90028 SIOUX ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 118683 STORY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117965 TAMA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 100936	PLYMOUTH	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	137600
POWESHIEK ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 76368 RINGGOLD ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 42819 SAC ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117882 SCOTT ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 38786 SHELBY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 90028 SIOUX ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 118683 STORY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117965 TAMA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 100936	POLK	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT -	79880
RINGGOLD ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 42819 SAC ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117882 SCOTT ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 38786 SHELBY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 90028 SIOUX ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 118683 STORY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117965 TAMA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 100936	POTTAWATTAMIE	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	159046
SAC ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117882 SCOTT ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 38786 SHELBY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 90028 SIOUX ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 118683 STORY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117965 TAMA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 100936	POWESHIEK	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	76368
SCOTT ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 38786 SHELBY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 90028 SIOUX ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 118683 STORY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117965 TAMA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 100936	RINGGOLD	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	42819
SHELBY ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 90028 SIOUX ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 118683 STORY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117965 TAMA ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 100936	SAC	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	117882
SIOUX ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 118683 STORY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117965 TAMA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 100936	SCOTT	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	38786
STORY ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 117965 TAMA ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 100936	SHELBY	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	90028
TAMA ORCHID, MESTERN PRAIRIE FRINGED 1 PLANT 100936	SIOUX	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	118683
	STORY	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	117965
TAYLOR ORCHID, WESTERN PRAIRIE FRINGED 1 PLANT 59816	TAMA	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	100936
	TAYLOR	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	59816

•	COUNTY	SPECIES	COUNT	GROUP	SOYBEANS
			•		
	UNION	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	32681
	VAN BUREN	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	40843
	WAPELLO	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	46721
	WARREN	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	53371
	WASHINGTON	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	66723
	WAYNE -	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	38334
	WEBSTER	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	170666
	WINNEBAGO	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	82268
	WINNESHIEK	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	82268
	WOODBURY	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	86671
٠	WORTH	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	72543
	WRIGHT	ORCHID, WESTERN PRAIRIE FRINGED	. 1	PLANT	137106
**	Subtotal **				
			229	•	16941262
**	STATE > ILLINOIS				.*
	COOK	BUSH-CLOVER, PRAIRIE	. 1	PLANT	12063
	COOK	ORCHID, EASTERN PRAIRIE FRINGED		PLANT	12063
	DU PAGE	BUSH-CLOVER, PRAIRIE		PLANT	7186
	DU PAGE	ORCHID, EASTERN PRAIRIE FRINGED	·	PLANT	7186
	FORD	MILKVEED, MEAD'S		PLANT	127522
	FULTON	ASTER, DECURRENT FALSE		PLANT	115523
,	GRUNDY	ORCHID, EASTERN PRAIRIE FRINGED		PLANT	85434
	HENRY	ORCHID, EASTERN PRAIRIE FRINGED		PLANT	87306
	IROQUOIS	ORCHID, EASTERN PRAIRIE FRINGED		PLANT	274537
	JERSEY	ASTER, DECURRENT FALSE		PLANT	52209
	KANE	ORCHID, EASTERN PRAIRIE FRINGED	1	PLANT	52419
	LAKE	ORCHID, EASTERN PRAIRIE FRINGED	: 1	PLANT	19052
	LEE	BUSH-CLOVER, PRAIRIE	1	PLANT	105729
	MARSHALL	ASTER, DECURRENT FALSE	1	PLANT	63815
	MCHENRY	BUSH-CLOVER, PRAIRIE	1	PLANT	22936
•	MCHENRY	ORCHID, EASTERN PRAIRIE FRINGED	1	PLANT	22936
	MORGAN	ASTER, DECURRENT FALSE	1	PLANT	110644
	OGLE	BUSH-CLOVER, PRAIRIE	1	PLANT	62354
	PUTNAM	ASTER, DECURRENT FALSE	. 1	PLANT	24345
	RANDOLPH	POGONIA, SMALL WHORLED	1	PLANT	65503
	SALINE	MILKWEED, MEAD'S	1	PLANT	40570
	SCHUYLER	ASTER, DECURRENT FALSE	. 1	PLANT	57779
	ST. CLAIR	ASTER, DECURRENT FALSE	1	PLANT	102565
	TAZEWELL	DAISY, LAKESIDE	1	PLANT	105867
	UNION	POTATO-BEAN, PRICE'S	1	PLANT	25455
	WILL	PRAIRIE-CLOVER, LEAFY	1	PLANT	17834
	WINNEBAGO	BUSH-CLOVER, PRAIRIE	1	PLANT	30119
	WOOD FORD	ASTER, DECURRENT FALSE	1	PLANT	98072
	BUREAU	ASTER, DECURRENT FALSE	1	PLANT	118066
	MASON	ASTER, DECURRENT FALSE	1	PLANT	97028

	COUNTY	SPECIES	COUNT	GROUP	SOYBEANS
	PEORIA	ASTER, DECURRENT FALSE	. i	PLANT	70641
	TAZEWELL	ASTER, DECURRENT FALSE		PLANT	105867
	ALEXANDER	ASTER, DECURRENT FALSE		PLANT	35364
	BROWN	ASTER, DECURRENT FALSE		PLANT	33238
	CALHOUN -	ASTER, DECURRENT FALSE		PLANT	13193
	CASS	ASTER, DECURRENT FALSE	. 1	PLANT	72560
	GREENE	ASTER, DECURRENT FALSE	1	PLANT	88561
	GRUNDY	ASTER, DECURRENT FALSE	• 1	PLANT	85434
	JACKSON	ASTER, DECURRENT FALSE	1	PLANT	55041
	LASALLE	ASTER, DECURRENT FALSE	1	PLANT	232878
	MADISON	ASTER, DECURRENT FALSE	. 1	PLANT	119957
	MONROE	ASTER, DECURRENT FALSE	1	PLANT	54779
	PIKE	ASTER, DECURRENT FALSE	1	PLANT	100207
	RANDOLPH	ASTER, DECURRENT FALSE	1	PLANT	65503
	SCOTT	ASTER, DECURRENT FALSE	1	PLANT	43514
	UNION	ASTER, DECURRENT FALSE	1	PLANT	25455
	WILL	DAISY, LAKESIDE	1	PLANT	116101
**	Subtotal **				
			47	•	3342410
		•			
**	STATE > INDIANA				
	LAKE	THISTLE, PITCHER'S	1	PLANT	45728
	OHIO	CLOVER, RUNNING BUFFALO	1	PLANT	871
	PORTER	THISTLE, PITCHER'S	1	PLANT	53708
**	Subtotal **	,			
		· ·	3		100307
**	STATE > KANSAS				
	ALLEN	MILKWEED, MEAD'S		PLANT	61809
	ANDERSON	MILKWEED, MEAD'S		PLANT	80630
	ANDERSON	ORCHID, WESTERN PRAIRIE FRINGED		PLANT	80630
	BOURBON	MILKWEED, MEAD'S		PLANT	32777
	COFFEY	MILKWEED, MEAD'S		PLANT	70461
	DOUGLAS	MILKWEED, MEAD'S		PLANT	42051
	DOUGLAS	ORCHID, WESTERN PRAIRIE FRINGED	_	PLANT	42051
	FRANKLIN	MILKWEED, MEAD'S		PLANT	62225
	FRANKLIN	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	62225
	JACKSON	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	25243
	JEFFERSON	MILKWEED, MEAD'S	1	PLANT	36268
	JEFFERSON	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	36268
	JOHNSON	MILKWEED, MEAD'S	1	PLANT	33097
	LEAVENWORTH	MILKWEED, NEAD'S	1	PLANT	31563
	LEAVENWORTH	ORCHID, WESTERN PRAIRIE FRINGED		PLANT	31563
	LINN	HILKWEED, HEAD'S		PLANT	40829
	HIANI	MILKWEED, MEAD'S		PLANT	46043
	NEOSHO	MILKWEED, MEAD'S	1	PLANT	50660

	COUNTY	SPECIES	COUNT	GROUP	SOYBEANS
*	Subtotal **				
	Subtotat		6		97732
**	STATE > MICHIGAN				
	ALLEGAN	THISTLE, PITCHER'S	1	PLANT	5452
	ALPENA	IRIS, DWARF LAKE	1	PLANT	487
	ARENAC	THISTLE, PITCHER'S	1	PLANT	4476
,	BAY	ORCHID, EASTERN PRAIRIE FRINGED	1	PLANT	20318
	BERRIEN	POGONIA, SMALL WHORLED	. 1	PLANT	26110
	BERRIEN	THISTLE, PITCHER'S	1	PLANT	26110
	HURON	ORCHID, EASTERN PRAIRIE FRINGED	1	PLANT	5097
	IOSCO	THISTLE, PITCHER'S	1	PLANT	135
	LIVINGSTON	ORCHID, EASTERN PRAIRIE FRINGED	1	PLANT	4428
	MASON	THISTLE, PITCHER'S	1	PLANT	206
1	MONROE	ORCHID, EASTERN PRAIRIE FRINGED	1	PLANT	95473
1	MUSKEGON	THISTLE, PITCHER'S	1	PLANT	1129
1	OTTAHA	THISTLE, PITCHER'S	1	PLANT	1148
	SAGINAV	ORCHID, EASTERN PRAIRIE FRINGED	1	PLANT	110340
:	ST. CLAIR	ORCHID, EASTERN PRAIRIE FRINGED	1	PLANT	33349
	ST. JOSEPH	ORCHID, EASTERN PRAIRIE FRINGED	1	PLANT	30299
	TUSCOLA	ORCHID, EASTERN PRAIRIE FRINGED	1	PLANT	22526
	VAN BUREN	THISTLE, PITCHER'S	. 1	PLANT	9684
	WASHTENAV	ORCHID, EASTERN PRAIRIE FRINGED	1	PLANT	18349
•	WAYNE	ORCHID, EASTERN PRAIRIE FRINGED	1	PLANT	6610
	CHIPPEWA	FERN, AMERICAN HART'S-TONGUE	1	PLANT	98942
	ALPENA	THISTLE, PITCHER'S	, 1	PLANT	487
**	Subtotal **				• • • • • •
			22		521155
协会	STATE > MINNESOTA				
	BROWN	BUSH-CLOVER, PRAIRIE	.1	PLANT	116623
	CLAY	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	67631
	COTTONWOOD	BUSH-CLOVER, PRAIRIE	1	PLANT	146418
	FILLMORE	ROSEROOT, LEEDY'S	1	PLANT	37702
	GOODHUE	BUSH-CLOVER, PRAIRIE	1	PLANT	45532
	GOODHUE	LILY, MINNESOTA TROUT	1	PLANT	45532
	JACKSON	BUSH-CLOVER, PRAIRIE	1	PLANT	160063
	MOWER	ORCHID, WESTERN PRAIRIE FRINGED	. 1	PLANT	118202
	NORMAN	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	40144
	OLMSTED	ROSEROOT, LEEDY'S	1	PLANT	32650
	POLK	ORCHID, WESTERN PRAIRIE FRINGED	· 1	PLANT	32346
	RENVILLE	BUSH-CLOVER, PRAIRIE	1	PLANT	188744
	RICE	LILY, MINNESOTA TROUT	1	PLANT	36094
	ROCK	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	81428
	STEELE	LILY, MINNESOTA TROUT	1	PLANT	54878
	CROW WING	BUSH-CLOVER, PRAIRIE	1	PLANT	1219
	•	•			

COUNTY	SPECIES	COUNT	GROUP	SOYBEANS
HENRY	MILKWEED, MEAD'S	. 1	PLANT	44851
REYNOLDS	MILKWEED, MEAD'S	• 1	PLANT	² 277
JOHNSON	MILKWEED, MEAD'S	1	PLANT	50926
LAWRENCE	BLADDERPOD, MISSOURI	1	PLANT	5664
BUTLER	PONDBERRY	. 1	PLANT	60238
BARRY	CLOVER, RUNNING BUFFALO	1	PLANT	· 1752
BENTON	CLOVER, RUNNING BUFFALO	1	PLANT	18907
BOONE	CLOVER, RUNNING BUFFALO	1	PLANT	49291
CALLAWAY .	CLOVER, RUNNING BUFFALO	1	PLANT	54009
CEDAR	CLOVER, RUNNING BUFFALO	1	PLANT	4937
CHRISTIAN	CLOVER, RUNNING BUFFALO	÷ 1	PLANT	196
COLE	CLOVER, RUNNING BUFFALO	1	PLANT	6895
DENT	CLOVER, RUNNING BUFFALO	1	PLANT	595
DUNKLIN	CLOVER, RUNNING BUFFALO	· 1	PLANT	83709
LACLEDE	CLOVER, RUNNING BUFFALO	1	PLANT	475
ST. LOUIS	CLOVER, RUNNING BUFFALO	1	PLANT	12707
VERNON	CLOVER, RUNNING BUFFALO	1	PLANT	65985
WAYNE	CLOVER, RUNNING BUFFALO	1	PLANT	4233
** Subtotal **				
V -2-10-10-1		44		1462375
** STATE > MISSI	SSIPPI	_		
BOLIVAR	PONDBERRY		PLANT	168543
CLAY	POTATO-BEAN, PRICE'S		PLANT	31501
LEE	POTATO-BEAN, PRICE'S	-	PLANT	47588
OKTIBBEHA	POTATO-BEAN, PRICE'S	-	PLANT	11998
SHARKEY	PONDBERRY		PLANT	83095
SUNFLOWER	PONDBERRY		PLANT	89392
NOXUBEE	CHAFFSEED, AMERICAN	7	PLANT	80695
** Subtotal **		7	•	512812
STATE > NORTH	CAROLINA			
BLADEN	LOOSESTRIFE, ROUGH-LEAVED	1	PLANT	18105
BLADEN	PONDBERRY	• 1	PLANT	18105
Brunswick	LOOSESTRIFE, ROUGH-LEAVED	1	PLANT	8305
BRUNSWICK	MEADOWRUE, COOLEY'S	1	PLANT	8305
BURKE	BLAZING STAR, HELLER'S	1	PLANT	360
BURKE	HEARTLEAF, DWARF-FLOWERED	1	PLANT	360
BURKE	HEATHER, MOUNTAIN GOLDEN	1	PLANT	360
BURKE	POGONIA, SHALL WHORLED	1	PLANT	360
CABARRUS	SUNFLOWER, SCHWEINITZ'S	1	PLANT	5285
CALDWELL	BLAZING STAR, HELLER'S		PLANT	842
CARTERET	LOOSESTRIFE, ROUGH-LEAVED	-1	PLANT	13333
CATAVBA	HEARTLEAF, DWARF-FLOWERED	1	PLANT	4421
CHATHAM	HARPERELLA	1	PLANT	1780

COUNTY	SPECIES	COUNT	GROUP	SOYBEANS
CLEVELAND	HEARTLEAF, DWARF-FLOWERED	•	PLANT	7046
COLUMBUS	MEADOWRUE, COOLEY'S		PLANT	32135
CUMBERLAND	LOOSESTRIFE, ROUGH-LEAVED		PLANT	20958
DAVIE	SUMAC, MICHAUX'S	_	PLANT	3648
FRANKLIN -	SUMAC, MICHAUX'S	_	PLANT	14030
GRANVILLE	HARPERELLA		PLANT	3179
HOKE	LOOSESTRIFE, ROUGH-LEAVED		PLANT	20004
HOKE	SUMAC, MICHAUX'S	· ·	PLANT	20004
LINCOLN	HEARTLEAF, DWARF-FLOWERED	_	PLANT	4308
NCDOWELL	HEATHER, MOUNTAIN GOLDEN		PLANT	20854
MECKLENBURG	SUNFLOWER, SCHWEINITZ'S		PLANT	648
ONSLOW	MEADOWRUE, COOLEY'S		PLANT	13320
PENDER	LOOSESTRIFE, ROUGH-LEAVED		PLANT	13541
PENDER	MEADOWRUE, COOLEY'S		PLANT	13541
POLK	IRISETTE, WHITE		PLANT	182
RICHMOND	SUMAC, MICHAUX'S	_	PLANT	4057
ROBESON	SUMAC, MICHAUX'S		PLANT	81613
ROWAN	SUNFLOWER, SCHWEINITZ'S		PLANT	6234
RUTHERFORD	HEARTLEAF, DWARF-FLOWERED		PLANT	1080
RUTHERFORD	IRISETTE, WHITE		PLANT	1080
SCOTLAND	LOOSESTRIFE, ROUGH-LEAVED		PLANT	13740
SCOTLAND	SUMAC, MICHAUX'S	-	PLANT	13740
STANLY	SUNFLOWER, SCHWEINITZ'S		PLANT	21299
STOKES	BITTERCRESS, SMALL-ANTHERED		PLANT	898
UNICOI	SPIRAEA, VIRGINIA		PLANT	23297
UNION	SUNFLOWER, SCHWEINITZ'S	_	PLANT	49540
WAKE	SUMAC, MICHAUX'S		PLANT	14667
HOKE	CHAFFSEED, AMERICAN		PLANT	20004
HYDE	JOINT-VETCH, SENSITIVE		PLANT	39624
DURHAM	CONEFLOWER, SMOOTH		PLANT	646
GRANVILLE	CONEFLOWER, SMOOTH		PLANT	3179
BEAUFORT	LOOSESTRIFE, ROUGH-LEAVED		PLANT	62806
BEAUFORT	JOINT-VETCH, SENSITIVE		PLANT	62806
BLADEN	CHAFFSEED, AMERICAN		PLANT	18105
			PLANT	8305
BURNSWICK BURKE	AMARANTH, SEABEACH AVENS, SPREADING		PLANT	360
CALDWELL	GOLDENROD, BLUE RIDGE		PLANT	842
CALDWELL	AVENS, SPREADING		PLANT	842
COLUMBUS	LOOSESTRIFE, ROUGH-LEAVED		PLANT	32135
CRAVEN	JOINT-VETCH, SENSITIVE	_	PLANT	23357
	· · · · · · · · · · · · · · · · · · ·	_		20958
CUMBERLAND	PONDBERRY	_	PLANT	20938 646
DURHAM	SUMAC, MICHAUX'S	_	PLANT	39624
HYDE	AMARANTH, SEABEACH		PLANT	
LEE	HARPERELLA	_	PLANT	3668 4308
LINCOLN	SUMAC, MICHAUX'S		PLANT	4308
MOORE	CHAFFSEED, AMERICAN	1	PLANT	1651

	COUNTY	. SPECIES	COUNT	GROUP	SOYBEANS
	MOORE	SUMAC, MICHAUX'S	1	PLANT	1651
,i	HOORE	LOOSESTRIFE, ROUGH-LEAVED	1	PLANT	1651
1	NEW HANOVER	AMARANTH, SEABEACH	1	PLANT	79 6
	ONSLOW	LOOSESTRIFE, ROUGH-LEAVED	1	PLANT	13320
- (DHSLOW	AMARANTH, SEABEACH	. 1	PLANT	13320
1	PAMLICO	LOOSESTRIFE, ROUGH-LEAVED	1	PLANT	15244
1	PENDER	CHAFFSEED, AMERICAN	1	PLANT	13541
	PENDER	AMARANTH, SEABEACH	-	PLANT	13541
	RICHMOND	LOOSESTRIFE, ROUGH-LEAVED		PLANT	4057
	SAMPSON	PONDBERRY		PLANT	56294
	SCOTLAND	DROPWORT, CANBY'S		PLANT	13740
	STOKES	SUNFLOWER, SCHWEINITZ'S		PLANT	898
	SURRY	POGONIA, SMALL WHORLED		PLANT	5355
-	WILSON	SUMAC, MICHAUX'S	1	PLANT	26319
w# ;	Subtotal **		73	*	1022157
** (STATE > NEBRASKA	•			
	GARDEN	PENSTEMON, BLOWOUT	1	PLANT	. 253
1	HALL	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	11492
,	LANCASTER	ORCHID, WESTERN PRAIRIE FRINGED	· 1	PLANT	48555
9	MORRILL	PENSTEMON, BLOWOUT	1	PLANT	306
	SEWARD	ORCHID, WESTERN PRAIRIE FRINGED	1	PLANT	45949
**	Subtotal **				104555
			5		106555
** ;	STATE > OHIO				•
	CLERMONT	CLOVER, RUNNING BUFFALO	1	PLANT	36796
1	HAMILTON	CLOVER, RUNNING BUFFALO	1	PLANT	4769
1	HOLMES	ORCHID, EASTERN PRAIRIE FRINGED	1	PLANT	1625
1	LUCAS	ORCHID, EASTERN PRAIRIE FRINGED	1	PLANT	37588
(AWATTO	ORCHID, EASTERN PRAIRIE FRINGED	1	PLANT'	51198
1	PORTAGE	MONKSHOOD, NORTHERN WILD	1	PLANT	8389
	SANDUSKY _	ORCHID, EASTERN PRAIRIE FRINGED		PLANT	81313
	SUMMIT	MONKSHOOD, NORTHERN WILD		PLANT	566
1	WARREN	CLOVER, RUNNING BUFFALO	1	PLANT	30363
	WAYNE	ORCHID, EASTERN PRAIRIE FRINGED	1	PLANT	18117
(COSHOCTON	ORCHID, EASTERN PRAIRIE FRINGED	1	PLANT	1420
	ERIE	DAISY, LAKESIDE	_	PLANT	26559
	OTTAWA	DAISY, LAKESIDE		PLANT	51198
	BROWN	CLOVER, RUNNING BUFFALO	_	PLANT	45744
	BUTLER	CLOVER, RUNNING BUFFALD	_	PLANT	25951
	MONTGOMERY	CLOVER, RUNNING BUFFALO		PLANT	37036
;	SCIOTO	SPIRAEA, VIRGINIA	. 1	PLANT	10423

	COUNTY	SPECIES	COUNT	GROUP	SOYBEANS
**	Subtotal **		17		469055
			1.7		457033
中市	STATE > TENNESSEE				
	BLOUNT	SPIRAEA, VIRGINIA	1	PLANT	2906
	CUMBERLAND -	SPIRAEA, VIRGINIA	1	PLANT	1960
	DAVIDSON	CONEFLOWER, TENNESSEE PURPLE		PLANT	702
	DAVIDSON	PRAIRIE-CLOVER, LEAFY	•	PLANT	702
	FENTRESS	SANDWORT, CUMBERLAND		PLANT	1419
	MARION	FERN, AMERICAN HART'S-TONGUE		PLANT	7528
	MARION	POTATO-BEAN, PRICE'S		PLANT	7528
	MARION	SKULLCAP, LARGE-FLUWERED		PLANT	7528
	MARSHALL	PRAIRIE-CLOVER, LEAFY		PLANT	1626
	MAURY	PRAIRIE-CLOVER, LEAFY		PLANT	8051
	MONTGOHERY	POTATO-BEAN, PRICE'S		PLANT	20769
	MORGAN	SANDWORT, CUMBERLAND		PLANT	574
	MORGAN	SPIRAEA, VIRGINIA		PLANT	574
	POLK	ASTER, RUTH'S GOLDEN		PLANT	873
	ROANE	SPIRAEA, VIRGINIA		PLANT	144
	RUTHERFORD	CONEFLOWER, TENNESSEE PURPLE		PLANT	10554
	RUTHERFORD	GROUND-PLUM, GUTHRIE'S		PLANT	10554 10554
	EUTHER FORD	PRAIRIE-CLOVER, LEAFY		PLANT	80
	SEVIER	AVENS, SPREADING		PLANT PLANT	185
	VAN BUREN WILLIAMSON	SPIRAEA, VIRGINIA		PLANT `	8665
	WILLIAMSON	POTATO-BEAN, PRICE'S		PLANT	8665
	WILSON	PRAIRIE-CLOVER, LEAFY CONEFLOWER, TENNESSEE PURPLE		PLANT	820
	WILSON	PRAIRIE-CLOVER, LEAFY		PLANT	820
	FENTRESS	ROSEMARY, CUMBERLAND		PLANT	1419
	WHITE	ROSEMARY, CUMBERLAND		PLANT	1937
	MORGAN	ROSEMARY, CUMBERLAND		PLANT	574
	CUMBERLAND	ROSEMARY, CUMBERLAND		PLANT	1960
	DE KALB	POTATO-BEAN, PRICE'S		PLANT	4147
400	Subtotal **	POINTO-BEAR, PRICE S	•	FEARI	,
			29		123818
gh.de					- ·
·0015E	STATE > VIRGINIA	DARK CORRES CHALL BARRET		D1 4117	4
	ALLEGANY	ROCK-CRESS, SHALE BARREN	_	PLANT	171
	AUGUSTA	BULRUSH, NORTHEASTERN (=BARBED BRISTLE)		PLANT	113
	AUGUSTA	ORCHID, EASTERN PRAIRIE FRINGED		PLANT	113
	AUGUSTA	PINK, SWAMP	_	PLANT	113
	AUGUSTA	ROCK-CRESS, SHALE BARREN	_	PLANT	113
	CAROLINE	POGONIA, SMALL WHORLED		PLANT	14594
	NENRICO	PINK, SWAMP		PLANT	4640
	JAMES CITY	POGONIA, SHALL WHORLED		PLANT	3248
	PRINCE WILLIAM	POGONIA, SMALL WHORLED	1	PLANT	989

COUNTY	SPECIES	COUNT	GROUP	SOYBEANS
ROCKINGHAN	BULRUSH, NORTHEASTERN (=BARBED BRISTLE)	1	PLANT	324
SHENANDOAH	ROCK-CRESS, SHALE BARREN	1	PLANT	. 993
STAFFORD	JOINT-VETCH, SENSITIVE	1	PLANT	1692
KING GEORGE	JOINT-VETCH, SENSITIVE	1	PLANT	6692
ESSEX	JOINT-VETCH, SENSITIVE	1	PLANT	21872
WESTMORELAND	JOINT-VETCH, SENSITIVE	1	PLANT	15701
KING AND QUEEN	JOINT-VETCH, SENSITIVE	. 1	PLANT	16612
KING WILLIAM	JOINT-VETCH, SENSITIVE	1	PLANT	16999
NEW KENT	JOINT-VETCH, SENSITIVE	1	PLANT	6272
CHARLES CITY	JOINT-VETCH, SENSITIVE	1	PLANT	6400
JAMES CITY	JOINT-VETCH, SENSITIVE	1	PLANT	3248
CAMPBELL	CONEFLOWER, SHOOTH	1	PLANT	2370
FRANKLIN	CONEFLOWER, SMOOTH	1	PLANT	159
APPOMATTOX	POGONIA, SMALL WHORLED	1	PLANT	653
BUCKINGHAM	POGONIA, SMALL WHORLED	1	PLANT	878
CAROLINE	PINK, SHAMP	1	PLANT	14594
GLOUCESTER	POGONIA, SMALL WHORLED	1	PLANT	8424
GREENSVILLE	CHAFFSEED, AMERICAN		PLANT	8719
NEW KENT	POGONIA, SMALL WHORLED	1	PLANT	6272
NOTTOWAY	CONEFLOWER, SMOOTH	1	PLANT	1746
PAGE	ROCK-CRESS, SHALE BARREN	1	PLANT	113
PATRICK	BITTERCRESS, SMALL-ANTHERED	1	PLANT	239
PRINCE GEORGE	JOINT-VETCH, SENSITIVE	1	PLANT	8432
STAFFORD	POGONIA, SMALL WHORLED	1	PLANT	1692
SUSSEX	CHAFFSEED, AMERICAN	1	PLANT	17157
** Subtotal **	·			
		34		192347
*** Total ***				
σ		600		28980204