

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

February 7, 2020

Lisa Nichols Registrations Manager Loveland Products Inc. P.O. Box 1286 Greeley, CO 80632-1286

Subject: Registration Review Label Mitigation for Pendimethalin

Product Name: Pendimethalin 1.07% Fertilizer

EPA Registration Number: 34704-835

Application Dates: 7/30/19 Decision Numbers: 556544

Dear Ms. Nichols:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Pendimethalin Interim Decision, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

A copy of your label stamped "Accepted" is enclosed. Products shipped after 12 months from the date of this amendment must bear the new revised label. Your release for shipment of the product bearing the amended label constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6.

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If you have any questions about this letter, please contact Darius Stanton by phone at 703-347-0433, or via email at Stanton.darius@epa.gov.

Sincerely,

Linda Arrington, Branch Chief

Risk Management and Implementation Branch 4

Pesticide Re-Evaluation Division

Office of Pesticide Programs

Enclosure

Pendimethalin 1.07 on Fertilizer

Pre-emergence Weed Control with Quality Turf Nutrients for Golf Courses, Sod Farms, Turf Management Firms, Municipal, Federal, Corporate Parks, Lawnscapes, and Cemeteries For Use by Grounds Maintenance Personnel

For Commercial Ornamental, Recreational Turf, and Residential Lawns
Also for Use Around Ornamental Plantings and in Ground Covers
Controls Crabgrass, Chickweed, Foxtail, Goosegrass, Knotweed, Oxalis, Poa Annua, Spurge and other Weeds, as listed.

Fertilizer provides turf greening and extended feeding.

ACTIVE INGREDIENT:

TOTAL 100.00%

Refer to fertilizer tag for guaranteed analysis.

ACCEPTED

Feb 07, 2020

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under

EPA Reg. No. 34704-835

CAUTION

Si usted entiende la etiquette, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

EPA REG. NO. 34704-835 EPA EST. NO. 34704-FL-1 NET WEIGHT: 50 LBS. (22.68 KG)

IHT 07/19

FIRST AID

IF SWALLOWED:	Call a poison control center or doctor immediately for treatment advice.
	Have person sip a glass of water if able to swallow.
	• Do not induce vomiting unless told to do by a poison control center or doctor.
	Do not give anything by mouth to an unconscious person.
IF IN EYES:	Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.
	Remove contact lenses, if present, after 5 minutes, then continue rinsing.
	Call a poison control center or doctor for treatment advice.
IF ON SKIN:	Take off contaminated clothing.
	Rinse skin immediately with plenty of water for 15 to 20 minutes.
	Call a poison control center or doctor for treatment advice.
IF INHALED:	Move person to fresh air.
	If person is not breathing, call 911 or an ambulance, then give artificial
	respiration, preferably mouth to mouth if possible.
	Call a poison control center or doctor for further treatment advice.

Have this product container or label with you when calling a poison control center, or doctor, or when going for treatment.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Causes eye irritation. Avoid contact with skin, eyes, or clothing. In case of contact, immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists. Wash thoroughly with soap and water after handling. May be harmful if swallowed. Avoid inhalation. Do not contaminate feed or foodstuffs. Do not feed clippings to livestock. Do not graze treated areas.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear; long sleeved shirt and pants, chemical resistant gloves made of waterproof materials such as butyl rubber >14 mils, natural rubber >14 mils, neoprene rubber > 14 mils, or nitrile rubber > 14 mils, shoes plus socks. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

User should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Remove PPE as soon as possible after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Non-Target Organism Advisory Statement

This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by following label directions intended to minimize spray drift.

This pesticide is toxic to fish. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent areas. Do not contaminate water when cleaning equipment or disposing of equipment wash water. In case of product spill; sweep up, and use as per label instructions or dispose of as directed.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation. Do not apply this product through any type of irrigation system. Do not apply aerially.

WEED RESISTANCE MANAGEMENT

For resistance management, Pendimethalin 1.07 on Fertilizer is a Group KI herbicide. Any weed population may contain or develop plants naturally resistant to Pendimethalin 1.07 on Fertilizer and other Group K1 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Appropriate resistance management strategies should be followed.

WEED RESISTANCE MANAGEMENT CONT.

To delay herbicide resistance take one or more of the following steps:

- Rotate the use of Pendimethalin 1.07 on Fertilizer or other Group K1 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in a field.
- Scout after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include:
 - (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds;
 - (2) a spreading patch of non-controlled plants of a particular weed species;
 - (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method such as hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Contact your local extension specialist or certified crop advisors for additional pesticide resistancemanagement and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, call Loveland Products, Inc.: 1-888-574-2878.

AGRICULTURAL USE REQUIREMENTS

Use the product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains the requirements for the protection of agricultural workers on farms, forests and nurseries, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

PPE required for early reentry into treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls, chemical resistant gloves made of waterproof materials such as butyl rubber >14 mils, natural rubber >14 mils, neoprene rubber > 14 mils, or nitrile rubber > 14 mils, shoes plus socks.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The "WPS" applies only when this product is used to produce agricultural plants on farms, forests, and nurseries. Mixers, loaders, and others exposed to pendimethalin must wear: long sleeved shirt, long pants, shoes plus socks, protective eyewear, and chemical resistant gloves such as barrier laminate, butyl rubber >13 mils polyethylene, or natural rubber >13 mils. Do not allow entry to treated areas until dusts have settled and grass is dry.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

STORAGE: Store in original labeled container, in a dry, cool area out of reach of children and pets. Partially used bags should be sealed by folding down the top and securing.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Do not reuse empty bag. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State or local authorities, by burning. If burned stay out of smoke.

WEEDS CONTROLLED

When used at recommended rates this product will prevent weed seed growth of the following grassy and broadleaf weeds and provides turf a nitrogen feeding.

Grassy Weeds	Broadleaf Weeds
Poa Annua	Common Chickweed
Barnyardgrass	Cudweed
Crabgrass (Large, Smooth)	Henbit
Foxtail (Yellow, Green)	Hop Clover
Goosegrass	Knotweed
Fall panicum	Oxalis
	Prostrate Spurge
	Yellow Woodsorrel

To prevent goosegrass, crabgrass, foxtail, barnyardgrass, fall panicum, Oxalis, Knotweed, Prostrate Spurge, apply in the spring before they sprout. To prevent Poa Annua and fall germinating chickweed, apply product to dry foliage in late summer or early fall before seeds germinate. For continued "weedfree" turf, under heavy weed pressure, a second, and third, timely annual treatment may be required.

WHEN, WHERE AND HOW MUCH TO USE

Turfgrasses	Weeds	Rates/Acre	Comments
Cool Season Grasses	Crabgrass	163 to 187 lbs/A	Apply 3 repeat applications of
Kentucky Bluegrass,	Foxtail	prior to	140 lbs/A after 6 to 8
Perennial Ryegrass,	Poa annua	weed germination	weeks where heavy weed
Fine Fescue,	Barnyardgrass		infestations are expected.
Tall Fescue	Oxalis		
	Prostrate		
	Spurge		
	Purslane		
	Knotweed		
	Chickweed	163 lbs/A in	Apply 2 repeat applications
	Goosegrass	spring prior to	after 6 to 8 weeks at 140 to
		weed seed	163 lbs/A
		germination.	

Bentgrass and established Poa annua ½ inch cut or higher Not for use on greens and tees!	Goosegrass Crabgrass Poa annua Barnyardgrass Fall panicum Oxalis Prostrate spurge Purslane Knotweed	140 lbs/A in the spring prior to weed germination. Apply a repeat application of 140 lbs/A after 6 to 8 weeks.	
Warm Season Grasses Bermudagrass St. Augustinegrass Bahiagrass Zoysiagrass (187 lbs/A rate or less) Tall Fescue	Crabgrass Foxtail Poa annua Fall panicum Oxalis Prostrate Spurge Purslane Knotweed Chickweed	prior to weed germination 187 lbs/A may be used prior to weed germination with a repeat application of 163 lbs/A after 4 months, where weeds germinate over an extended period. Do not use this high rate on Centipedegrass.	Apply a repeat application of 140 to 163 lbs/A after 6 to 8 weeks for extended control or where heavy weed infestations are expected.
	Goosegrass Cudweed Hop Clover Evening primrose Henbit	163 to 187 lbs/A prior to weed germination 187 lbs/A prior to weed germination.	Apply a repeat application of 140 to 163 lbs/A in 6 to 8 weeks to control goosegrass, if the low rate was used initially.

Application to turf may not exceed a rate of 187 pounds per application (2 pounds active ingredient).

PRECAUTIONS IN USING

If product contact occurs to clothing and shoes, brush off particles as soon as possible to avoid staining. If necessary, rinse with water. Avoid application to cement and stone. If contact occurs to those areas or to clothing or shoes, brush particles off as soon as possible to prevent staining. If necessary rinse with water. Exercise caution when metallic surfaces (automobiles, etc.) are in the area, do not use this product under windy conditions (5 to 10 mph) due to its staining potential.

<u>Do not use on Bentgrass and Poa Annua putting greens and tees, or on dichondra</u>. Where Bentgrass and Bentgrass-containing turf and Poa Annua are the desired species, a lower rate application only is recommended. On Cool Season Turfgrass avoid applications when temperatures are regularly in the 80's. This product may cause discoloration and thinning where over applications have been made if the turfgrass is under severe stress conditions (disease, drought, low temperatures - below 40° F, scalping, and excessive soil moisture).

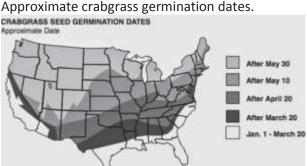
PRECAUTIONS FOR BERMUDAGRASS, BENTGRASS, POA ANNUA

Do not apply to dormant Bermudagrass, Bentgrass or Poa Annua (turf that is not growing actively or has experienced frost. May be applied to dormant Bermudagrass if it has been maintained at ½ inch or more high cut and is growing in medium fine textured soils such as clays and clay loams. When applied to dormant Bermudagrass, greening up may be delayed 2 to 3 weeks in the spring. The delay in this greening process may be more extensive on low cut Bermudagrass and on sandy soils. Where turf thinning or damage has occurred due to winter injury of bermudagrass wait until green-up, fill-in and good rooting before making an application. Application to Bermudagrass overseeded with a cool season grass may injure and thin the overseeded variety. Do not apply to Bentgrass or Poa Annua after late summer.

OTHER PRECAUTIONS CONCERNING SEEDING

For seeding; delay seeding 4 months and sprigging by 5 months after an application. Prior to planting, for best results, the soil surface should be worked (verticut and/or etc.) dilute any remaining chemical residue. On newly planted areas; wait until the turf has been mowed at least 4 times, and has filled in before application.

Do not apply to the same area more than twice in one year.



(includes Hawaii)

SPREADER SETTINGS

The following spreader settings are based on the use with new spreader equipment. Used spreaders may require spreader setting adjustments to assure that the selected application rate of product per acre is properly applied. For adjustments refer to the Spreader Manufacturers Maintenance Manual.

Do not apply this product until spreader equipment is properly calibrated.

Spreader lbs. (#) of product / 1,000 sq.ft. = to xx # a.i. per acre

	2.14#/1000 = 1.0# a.i.	3.21#/1000 = 1.5# a.i.	3.75#/1000 = 1.75# a.i.	4.30#/1000 = 2.0# a.i.
Scotts Drop	Х	Х	Х	Х
Scotts				
Rotaries	X	X	X	X
SR7000, R-	X	X	X	X
7x, R-8, R-8A	X	X	X	X
Gandy 30"	X	Х	Х	X
Lely WTR, HR	X	X	X	X
Vicon 82				
series	X	X	X	X
Deere				

Label NOTE from Editor: X's in the above chart will be changed to actual spreader equipment settings numbers or letters on the product bag.

WEED CONTROL AROUND ORNAMENTALS

In ornamentals, remove established weeds to prevent further weed seeding: Smooth soil surfaces or mow beneath, around, and in, the planting before application. Apply 1 to 2 weeks before expected weed seeds germinate. Follow the application with ¼ to ½ inch of sprinkler irrigation or the equivalent rainfall will benefit in the same manner, to move the herbicide down to soil surface.

When moderate weed seed germination is expected, apply 3.21 lbs. per 1,000 sq.ft. = 1.5 lb. a.i. per acre.

For heavy expected weed seed germination, apply 4.30 lbs. per 1,000 sq.ft. = 2 lbs. a.i. per acre.

Apply only to established plantings.

TOLERANT GROUND COVERS

The number of herbicides that can be used in ground covers is very limited however this product may be used for the preemergence control of the weed species as listed in and around the following established ground covers, in landscape plantings, and freeway right-of-ways.

Common Name

Capeweed
Daisy, Trailing African
Gazania
Rose-of-Sharon
Iceplant, Large leaf
Ivy, English

Scientific Name

Arctotheca calendula
Osteospermum fructicosum
Gazania splendens
Hypericum calycinum
Carpobrotus edule
Helix hedera

TOLERANT GROUND COVERS CONT.

Common Name **Scientific Name** Ivy, Geranium Pelargonium peltatum Myoporum Myoporum parviflorum Pachysandra Pachysandra terminalis Potentilla spp. Potentilla Jackmanii Potentilla spp. Potentilla verna

WEED CONTROL IN AND AROUND THE FOLLOWING ORNAMENTAL PLANTINGS

This product is recommended for use on the following established field grown plants, trees, and established ground covers. Care must be taken to see that soil or planting mixes have settled firmly around plants and that there are not cracks that would allow the granules to directly contact the roots. Directed application of the granules to the smoothly worked soil surface or turfgrass beneath or around the plants will result in best weed control and ornamental tolerance to the herbicide. Only those ornamentals listed on this label should be planted into soil treated the previous season with this product. Injury may occur to other species. Do not apply to seedbeds.

	ESTABLISHED ORNAMENTAL PLANTS		
Common Name	Scientific Name		
Abelia, Glossy	Abelia grandiflora		
	var. grandiflora		
Ash, Red	Fraxinus pennsylvania		
Azalea	Rhododenron indicum		
Barberry	Berberis thunbergil		
	var. atropurpurea		
Birch, Weeping	Betula pendula		
Birch, River	Betula nigra		
Boxwood	Buxus sempervirens		
Capejasmine	Gardenia jasminoldes		
	var.mystery		
Cedar, Northern white	Thuja occidentalis		
Cedar, Red	Juniperus viginiana		
Cotoneaster	Contoneaster horizonalis		
Crapemyrtle, Common	Lagerstroemia indica		
Dogwood, Flowering	Cornus florida		
Dogwood, Silky	Cornus amomum		
Euonymus	Euonymus alata		
	var. compacta		
Fir, Fraser	Abies Fraseri		
Fir, White	Abies concolor		
Forsythia, Border	Forsythia intermedia		
Hemlock, Eastern	Tsugua canadensis		
Holly, American	Ilex Opaca var. tsuga		
Holly, Chinese	Ilex cornuta		
Holly, Japanese	llex crenate compacta		

Holly, Yaupon

var. shillings swarf

Ilex vomitoria

ESTABLISHED ORNAMENTAL PLANTS CONT.

Common NameScientific NameJuniper, ChineseJuniperus chinensisvar. pfitzerianavar. pfitzer aurea

Juniper, Shore
Juniper, Trailing
Juniperus conferta
Juniperus horizontalis

var. plumosa var. prince of wales var. youngstown

Laurel, Mountain

Kalmia latifolia

Lilac, Common

Syringa vulgaris

Locust, Honey

Gleditsia Triacanthos

var. inermis Acer rubrum

Maple, Red Nandina Nandina domestica Oak, Live Quercus virginiana Oak, Water Quercus nigra Peach Prunus persica Photina Photina Frazerii Pieris, Japanese Pieris japonica Pine, Austrian* Pinus nigra Pine, Loblolly Pinus taeda

Pine, White Pinus strobus
Privet, California Ligustrum, ovalifolium
Privet, Japanese Ligustrum japonicum
Sourwood Oxydendron arboreum
Spirea Spirea vanhouttel
Spruce, Colorado Blue Picea pungens

Tobira Pittosporum tobiri Waxmyrtle, Common Myrica cerifera Yew Taxus Media Yew, Japanese Taxus cuspidata

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

BEFORE BUYING OR USING THIS PRODUCT, read the entire Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of LOVELAND PRODUCTS, INC. or the seller is authorized to vary in any way.

Follow the Directions for Use of this product carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop or other plant injury, ineffectiveness, or other unintended consequences may result from such risks as weather or crop conditions, mixture with other chemicals not specifically identified in this product's label, or use of this product contrary to the label instructions, all of which are beyond the control of LOVELAND PRODUCTS, INC. and the seller. The buyer or user of this product assumes all such inherent risks.

^{*}Do not apply to Austrian Pine in California.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY CONT.

Subject to the foregoing inherent risks, LOVELAND PRODUCTS, INC. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use when the product is used in strict accordance with such Directions for Use under normal conditions of use. EXCEPT AS WARRANTED IN THIS LABEL AND TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THIS PRODUCT IS SOLD "AS IS," AND LOVELAND PRODUCTS, INC. MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ELIGIBILITY OF THIS PRODUCT FOR ANY PARTICULAR TRADE USAGE.

IN THE UNLIKELY EVENT THAT BUYER OR USER BELIEVES THAT LOVELAND PRODUCTS, INC. HAS BREACHED A WARRANTY CONTAINED IN THIS LABEL AND TO THE EXTENT REQUIRED BY APPLICABLE LAW, BUYER OR USER MUST SEND WRITTEN NOTICE OF ITS CLAIM TO THE FOLLOWING ADDRESS: LOVELAND PRODUCTS, INC., ATTENTION: LAW DEPARTMENT, P.O. Box 1286, GREELEY, CO 80632-1286.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE BUYER'S OR USER'S EXCLUSIVE REMEDY FOR ANY INJURY, LOSS, OR DAMAGE RESULTING FROM THE HANDLING OR USE OF THIS PRODUCT, INCLUDING BUT NOT LIMITED TO CLAIMS OF BREACH OF WARRANTY OR CONTRACT, NEGLIGENCE, STRICT LIABILITY, OR OTHER TORTS, SHALL BE LIMITED TO ONE OF THE FOLLOWING, AT THE ELECTION OF LOVELAND PRODUCTS, INC. OR THE SELLER: DIRECT DAMAGES NOT EXCEEDING THE PURCHASE PRICE OF THE PRODUCT OR REPLACEMENT OF THE PRODUCT. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, LOVELAND PRODUCTS, INC. AND THE SELLER SHALL NOT BE LIABLE TO THE BUYER OR USER OF THIS PRODUCT FOR ANY CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES, OR DAMAGES IN THE NATURE OF A PENALTY.

For non-emergency (e.g., current product information), call Loveland Products, Inc.: 1-888-574-2878.



P.O. BOX 1286, GREELEY, COLORADO 80632-1286