
**Effective Date of 1993 Amendment**

Amendment by section 13322(d) of Pub. L. 103–66 applicable to wages paid or incurred after Dec. 31, 1993, see section 13322(f) of Pub. L. 103–66, set out as a note under section 38 of this title.

Amendment by section 13443(b)(2) of Pub. L. 103–66 applicable with respect to taxes paid after Dec. 31, 1993, with respect to services performed before, on, or after such date, see section 13443(d) of Pub. L. 103–66, as amended, set out as a note under section 38 of this title.

**Effective Date of 1992 Amendment**


**Effective Date of 1990 Amendment**

Amendment by section 11511(b)(2) of Pub. L. 101–508 applicable to costs paid or incurred in taxable years beginning after Dec. 31, 1990, see section 11511(d)(1) of Pub. L. 101–508, set out as an Effective Date note under section 43 of this title.

Amendment by section 11611(b)(2) of Pub. L. 101–508 applicable to expenditures paid or incurred after Nov. 5, 1990, see section 11611(c)(1) of Pub. L. 101–508, set out as a note under section 38 of this title.

**Effective Date of 1988 Amendment**

Amendment by Pub. L. 100–647 effective, except as otherwise provided, as if included in the provisions of the Tax Reform Act of 1986, Pub. L. 99–514, to which such amendment relates, see section 1019(a) of Pub. L. 100–647, set out as a note under section 1 of this title.

**Effective Date of 1986 Amendment**


**Effective Date**

Section applicable to taxable years beginning after Dec. 31, 1985, and to carrybacks from such years, see section 475(a) of Pub. L. 98–369, set out as an Effective Date of 1984 Amendment note under section 21 of this title.

**Savings Provision**

For provisions that nothing in amendment by section 11801(a)(2) of Pub. L. 101–508 be construed to affect treatment of certain transactions occurring, property acquired, or items of income, loss, deduction, or credit taken into account prior to Nov. 5, 1990, for purposes of determining liability for tax for periods ending after Nov. 5, 1990, see section 11821(b) of Pub. L. 101–508, set out as a note under section 45K of this title.

**Plan Amendments Not Required Until**

**January 1, 1989**

For provisions directing that if any amendments made by subtitle A or subtitle C of title XI [§§1101–1147 and 1171–1177] or title XVIII [§§1800–1899A] of Pub. L. 99–514 require an amendment to any plan, such plan amendment shall not be required to be made before the first plan year beginning on or after Jan. 1, 1989, see section 1140 of Pub. L. 99–514, as amended, set out as a note under section 401 of this title.

§ 40. Alcohol, etc., used as fuel

(a) General rule

For purposes of section 38, the alcohol fuels credit determined under this section for the taxable year is an amount equal to the sum of—

(1) the alcohol mixture credit,

(2) the alcohol credit,

(3) in the case of an eligible small ethanol producer, the small ethanol producer credit, plus

(4) the second generation biofuel producer credit.

(b) Definition of alcohol mixture credit, alcohol credit, and small ethanol producer credit

For purposes of this section, and except as provided in subsection (h)—

(1) Alcohol mixture credit

(A) In general

The alcohol mixture credit of any taxpayer for any taxable year is 60 cents for each gallon of alcohol used by the taxpayer in the production of a qualified mixture.

(B) Qualified mixture

The term "qualified mixture" means a mixture of alcohol and gasoline or of alcohol and a special fuel which—

(i) is sold by the taxpayer producing such mixture for use as a fuel, or

(ii) is used as a fuel by the taxpayer producing such mixture.

(C) Sale or use must be in trade or business, etc.

Alcohol used in the production of a qualified mixture shall be taken into account—

(i) only if the sale or use described in subparagraph (B) is in a trade or business of the taxpayer, and

(ii) for the taxable year in which such sale or use occurs.

(D) Casual off-farm production not eligible

No credit shall be allowed under this section with respect to any casual off-farm production of a qualified mixture.

(2) Alcohol credit

(A) In general

The alcohol credit of any taxpayer for any taxable year is 60 cents for each gallon of alcohol which is not in a mixture with gasoline or a special fuel (other than any denaturant) and which during the taxable year—

(i) is used by the taxpayer as a fuel in a trade or business, or

(ii) is sold by the taxpayer at retail to a person and placed in the fuel tank of such person's vehicle.

(B) User credit not to apply to alcohol sold at retail

No credit shall be allowed under subparagraph (A)(i) with respect to any alcohol which was sold in a retail sale described in subparagraph (A)(ii).

(3) Smaller credit for lower proof alcohol

In the case of any alcohol with a proof which is at least 150 but less than 190, paragraphs
(4) Small ethanol producer credit

(A) In general
The small ethanol producer credit of any eligible small ethanol producer for any taxable year is 10 cents for each gallon of qualified ethanol fuel production of such producer.

(B) Qualified ethanol fuel production
For purposes of this paragraph, the term "qualified ethanol fuel production" means any alcohol which is ethanol which is produced by an eligible small ethanol producer, and which during the taxable year—

(i) is sold by such producer to another person—

(I) for use by such other person in the production of a qualified mixture in such other person’s trade or business (other than casual off-farm production),

(II) for use by such other person as a fuel in a trade or business, or

(III) who sells such ethanol at retail to another person and places such ethanol in the fuel tank of such other person, or

(ii) is used or sold by such producer for any purpose described in clause (i).

(C) Limitation
The qualified ethanol fuel production of any producer for any taxable year shall not exceed 15,000,000 gallons (determined without regard to any qualified second generation biofuel production).

(D) Additional distillation excluded
The qualified ethanol fuel production of any producer for any taxable year shall not include any alcohol which is purchased by the producer and with respect to which such producer increases the proof of the alcohol by additional distillation.

(5) Adding of denaturants not treated as mixture
The adding of any denaturant to alcohol shall not be treated as the production of a mixture.

(6) Second generation biofuel producer credit

(A) In general
The second generation biofuel producer credit of any taxpayer is an amount equal to the applicable amount for each gallon of qualified second generation biofuel production.

(B) Applicable amount
For purposes of subparagraph (A), the applicable amount means $1.01, except that the applicable amount shall, in the case of second generation biofuel which is alcohol, be reduced by the sum of—

(i) the amount of the credit in effect for such alcohol under subsection (b)(1) (without regard to subsection (b)(3)) at the time of the qualified second generation biofuel production, plus

(ii) in the case of ethanol, the amount of the credit in effect under subsection (b)(4) at the time of such production.

(C) Qualified second generation biofuel production
For purposes of this section, the term "qualified second generation biofuel production" means any second generation biofuel which is produced by the taxpayer, and which during the taxable year—

(i) is sold by the taxpayer to another person—

(I) for use by such other person in the production of a qualified second generation biofuel mixture in such other person’s trade or business (other than casual off-farm production),

(II) for use by such other person as a fuel in a trade or business, or

(III) who sells such second generation biofuel at retail to another person and places such second generation biofuel in the fuel tank of such other person, or

(ii) is used or sold by the taxpayer for any purpose described in clause (i).

The qualified second generation biofuel production of any taxpayer for any taxable year shall not include any alcohol which is purchased by the taxpayer and with respect to which such producer increases the proof of the alcohol by additional distillation.

(D) Qualified second generation biofuel mixture
For purposes of this paragraph, the term "qualified second generation biofuel mixture" means a mixture of second generation biofuel and gasoline or of second generation biofuel and a special fuel which—

(i) is sold by the person producing such mixture to any person for use as a fuel, or

(ii) is used as a fuel by the person producing such mixture.

(E) Second generation biofuel
For purposes of this paragraph—

(i) In general
The term "second generation biofuel" means any liquid fuel which—

(I) is derived by, or from, qualified feedstocks, and

(II) meets the registration requirements for fuels and fuel additives established by the Environmental Protection Agency under section 211 of the Clean Air Act (42 U.S.C. 7545).

(ii) Exclusion of low-proof alcohol
The term "second generation biofuel" shall not include any alcohol with a proof of less than 150. The determination of the proof of any alcohol shall be made without regard to any added denaturants.

(iii) Exclusion of certain fuels
The term "second generation biofuel" shall not include any fuel if—

(I) more than 4 percent of such fuel (determined by weight) is any combination of water and sediment,

(II) the ash content of such fuel is more than 1 percent (determined by weight), or
(III) such fuel has an acid number greater than 25.

(F) Qualified feedstock

For purposes of this paragraph, the term “qualified feedstock” means—
(i) any lignocellulosic or hemicellulosic matter that is available on a renewable or recurring basis, and
(ii) any cultivated algae, cyanobacteria, or lemna.

(G) Special rules for algae

In the case of fuel which is derived by, or from, feedstock described in subparagraph (F)(ii) and which is sold by the taxpayer to another person for refining by such other person into a fuel which meets the requirements of subparagraph (E)(i)(II) and the refined fuel is not excluded under subparagraph (E)(iii)—
(i) such sale shall be treated as described in subparagraph (C)(i),
(ii) such fuel shall be treated as meeting the requirements of subparagraph (E)(i)(II) and as not being excluded under subparagraph (E)(iii) in the hands of such taxpayer, and
(iii) except as provided in this subparagraph, such fuel (and any fuel derived from such fuel) shall not be taken into account under subparagraph (C) with respect to the taxpayer or any other person.

(H) Allocation of second generation biofuel producer credit to patrons of cooperative

Rules similar to the rules under subsection (g)(6) shall apply for purposes of this paragraph.

(I) Registration requirement

No credit shall be determined under this paragraph with respect to any taxpayer unless such taxpayer is registered with the Secretary as a producer of second generation biofuel under section 4101.

(J) Application of paragraph

(i) In general

This paragraph shall apply with respect to qualified second generation biofuel production after December 31, 2008, and before January 1, 2017.

(ii) No carryover to certain years after expiration

If this paragraph ceases to apply for any period by reason of clause (i), rules similar to the rules of subsection (e)(2) shall apply.

(c) Coordination with exemption from excise tax

The amount of the credit determined under this section with respect to any alcohol shall, under regulations prescribed by the Secretary, be properly reduced to take into account any benefit provided with respect to such alcohol solely by reason of the application of section 4041(b)(2), section 6426, or section 6427(e).

(d) Definitions and special rules

For purposes of this section—

(1) Alcohol defined

(A) In general

The term “alcohol” includes methanol and ethanol but does not include—
(i) alcohol produced from petroleum, natural gas, or coal (including peat), or
(ii) alcohol with a proof of less than 150.

(B) Determination of proof

The determination of the proof of any alcohol shall be made without regard to any added denaturants.

(2) Special fuel defined

The term “special fuel” includes any liquid fuel (other than gasoline) which is suitable for use in an internal combustion engine.

(3) Mixture or alcohol not used as a fuel, etc.

(A) Mixtures

If—
(i) any credit was determined under this section with respect to alcohol used in the production of any qualified mixture, and
(ii) any person—
(I) separates the alcohol from the mixture, or
(II) without separation, uses the mixture other than as a fuel,
then there is hereby imposed on such person a tax equal to 60 cents a gallon (45 cents in the case of alcohol with a proof less than 190) for each gallon of alcohol in such mixture.

(B) Alcohol

If—
(i) any credit was determined under this section with respect to the retail sale of any alcohol, and
(ii) any person mixes such alcohol or uses such alcohol other than as a fuel,
then there is hereby imposed on such person a tax equal to 60 cents a gallon (45 cents in the case of alcohol with a proof less than 190) for each gallon of such alcohol.

(C) Small ethanol producer credit

If—
(i) any credit was determined under subsection (a)(3), and
(ii) any person does not use such fuel for a purpose described in subsection (b)(4)(B),
then there is hereby imposed on such person a tax equal to 10 cents a gallon for each gallon of such alcohol.

(D) Second generation biofuel producer credit

If—
(i) any credit is allowed under subsection (a)(4), and
(ii) any person does not use such fuel for a purpose described in subsection (b)(6)(B),
then there is hereby imposed on such person a tax equal to the applicable amount (as defined in subsection (b)(6)(B)) for each gallon of such second generation biofuel.

(E) Applicable laws

All provisions of law, including penalties, shall, insofar as applicable and not inconsistent with this section, apply in respect of any tax imposed under subparagraph (A), (B), (C), or (D) as if such tax were imposed by section 4081 and not by this chapter.
(4) **Volume of alcohol**

For purposes of determining under subsection (a) the number of gallons of alcohol with respect to which a credit is allowable under subsection (a), the volume of alcohol shall include the volume of any denaturant (including gasoline) which is added under any formula approved by the Secretary to the extent that such denaturants do not exceed 2 percent of the volume of such alcohol (including denaturants).

(5) **Pass-thru in the case of estates and trusts**

Under regulations prescribed by the Secretary, rules similar to the rules of subsection (d) of section 52 shall apply.

(6) **Special rule for second generation biofuel producer credit**

No second generation biofuel producer credit shall be determined under subsection (a) with respect to any second generation biofuel unless such second generation biofuel is produced in the United States and used as a fuel in the United States. For purposes of this subsection, the term “United States” includes any possession of the United States.

(7) **Limitation to alcohol with connection to the United States**

No credit shall be determined under this section with respect to any alcohol which is produced outside the United States for use as a fuel outside the United States. For purposes of this paragraph, the term “United States” includes any possession of the United States.

(e) **Termination**

(1) **In general**

This section shall not apply to any sale or use—

(A) for any period after December 31, 2011, or

(B) for any period before January 1, 2012, during which the rates of tax under section 4081(a)(2)(A) are 4.3 cents per gallon.

(2) **No carryovers to certain years after expiration**

If this section ceases to apply for any period by reason of paragraph (1), no amount attributable to any sale or use before the first day of such period may be carried under section 39 by reason of this section (treating the amount allowed by reason of this section as the first amount allowed by this subpart) to any taxable year beginning after the 3-taxable-year period beginning with the taxable year in which such first day occurs.

(3) **Exception for second generation biofuel producer credit**

Paragraph (1) shall not apply to the portion of the credit allowed under this section by reason of subsection (a)(4).

(f) **Election to have alcohol fuels credit not apply**

(1) **In general**

A taxpayer may elect to have this section not apply for any taxable year.

(2) **Time for making election**

An election under paragraph (1) for any taxable year may be made (or revoked) at any time before the expiration of the 3-year period beginning on the last date prescribed by law for filing the return for such taxable year (determined without regard to extensions).

(3) **Manner of making election**

An election under paragraph (1) (or revocation thereof) shall be made in such manner as the Secretary may by regulations prescribe.

(g) **Definitions and special rules for eligible small ethanol producer credit**

For purposes of this section—

(1) **Eligible small ethanol producer**

The term “eligible small ethanol producer” means a person who, at all times during the taxable year, has a productive capacity for alcohol (as defined in subsection (d)(1)(A)) without regard to clauses (i) and (ii) not in excess of 60,000,000 gallons.

(2) **Aggregation**

For purposes of the 15,000,000 gallon limitation under subsection (b)(4)(C) and the 60,000,000 gallon limitation under paragraph (1), all members of the same controlled group of corporations (within the meaning of section 267(f)) and all persons under common control (within the meaning of section 52(b) but determined by treating an interest of more than 50 percent as a controlling interest) shall be treated as 1 person.

(3) **Partnership, S corporations, and other pass-thru entities**

In the case of a partnership, trust, S corporation, or other pass-thru entity, the limitations contained in subsection (b)(4)(C) and paragraph (1) shall be applied at the entity level and at the partner or similar level.

(4) **Allocation**

For purposes of this subsection, in the case of a facility in which more than 1 person has an interest, productive capacity shall be allocated among such persons in such manner as the Secretary may prescribe.

(5) **Regulations**

The Secretary may prescribe such regulations as may be necessary—

(A) to prevent the credit provided for in subsection (a)(3) from directly or indirectly benefitting any person with a direct or indirect productive capacity of more than 60,000,000 gallons of alcohol during the taxable year, or

(B) to prevent any person from directly or indirectly benefitting with respect to more than 15,000,000 gallons during the taxable year.

(6) **Allocation of small ethanol producer credit to patrons of cooperative**

(A) **Election to allocate**

(i) **In general**

In the case of a cooperative organization described in section 1381(a), any portion of the credit determined under subsection (a)(3) for the taxable year may, at the elec-
(h) Reduced credit for ethanol blenders

(ii) Form and effect of election

An election under clause (i) for any taxable year shall be made on a timely filed return for such year. Such election, once made, shall be irrevocable for such taxable year. Such election shall not take effect unless the organization designates the apportionment as such in a written notice mailed to its patrons during the payment period described in section 1382(d).

(B) Treatment of organizations and patrons

(i) Organizations

The amount of the credit not apportioned to patrons pursuant to subparagraph (A) shall be included in the amount determined under subsection (a)(3) for the taxable year of the organization.

(ii) Patrons

The amount of the credit apportioned to patrons pursuant to subparagraph (A) shall be included in the amount determined under such subsection for the first taxable year of each patron ending on or after the last day of the payment period (as defined in section 1382(d)) for the taxable year of the organization or, if earlier, for the taxable year of each patron ending on or after the date on which the patron receives notice from the cooperative of the apportionment.

(iii) Special rules for decrease in credits for taxable year

If the amount of the credit of the organization determined under such subsection for a taxable year is less than the amount of such credit shown on the return of the organization for such year, an amount equal to the excess of—

(I) such reduction, over

(II) the amount not apportioned to such patrons under subparagraph (A) for the taxable year,

shall be treated as an increase in tax imposed by this chapter or for purposes of section 55.

(b) Reduced credit for ethanol blenders

(1) In general

In the case of any alcohol mixture credit or alcohol credit with respect to any sale or use of alcohol which is ethanol during calendar years 2001 through 2011—

(A) subsections (b)(1)(A) and (b)(2)(A) shall be applied by substituting “the blender amount” for “60 cents”;

(B) subsection (b)(3) shall be applied by substituting “the low-proof blender amount” for “45 cents” and “the blender amount” for “60 cents”; and

(C) subparagraphs (A) and (B) of subsection (d)(3) shall be applied by substituting “the blender amount” for “60 cents” and “the low-proof blender amount” for “45 cents”.

(2) Amounts

For purposes of paragraph (1), the blender amount and the low-proof blender amount shall be determined in accordance with the following table:

<table>
<thead>
<tr>
<th>In the case of any sale or use during calendar year:</th>
<th>The blender amount is:</th>
<th>The low-proof blender amount is:</th>
</tr>
</thead>
<tbody>
<tr>
<td>2001 or 2002</td>
<td>53 cents</td>
<td>39.26 cents</td>
</tr>
<tr>
<td>2003 or 2004</td>
<td>52 cents</td>
<td>38.52 cents</td>
</tr>
<tr>
<td>2009 through 2011</td>
<td>45 cents</td>
<td>33.33 cents</td>
</tr>
</tbody>
</table>

(3) Reduction delayed until annual production or importation of 7,500,000,000 gallons

(A) In general

In the case of any calendar year beginning after 2008, if the Secretary makes a determination described in subparagraph (B) with respect to all preceding calendar years beginning after 2007, the last row in the table in paragraph (2) shall be applied by substituting “51 cents” for “45 cents”.

(B) Determination

A determination described in this subparagraph with respect to any calendar year is a determination, in consultation with the Administrator of the Environmental Protection Agency, that an amount less than 7,500,000,000 gallons of ethanol (including cellulosic ethanol) has been produced in or imported into the United States in such year.


Codification

read as follows: “for any period before January 1, 2001, during which the Highway Trust Fund financing rate under section 4001(a)(2) is not in effect.”

Subsec. (a)(2). Pub. L. 110–234, title XV, § 15321(b), effective as if included in section 15321(b) of the Heartland, Habitat, and Horticulture Act of 2008 [probably should affect as if included in section 15321(b) of the Heartland, Habitat, and Horticulture Act of 2008, title XV of Pub. L. 110–246].

Subsec. (a)(3). Pub. L. 110–234, title XV, § 15321(b), effective as if included in section 15321(b) of the Heartland, Habitat, and Horticulture Act of 2008 [probably should affect as if included in section 15321(b) of the Heartland, Habitat, and Horticulture Act of 2008, title XV of Pub. L. 110–246].

Subsec. (b). Pub. L. 110–234, title XV, § 15321(b), effective as if included in section 15321(b) of the Heartland, Habitat, and Horticulture Act of 2008 [probably should affect as if included in section 15321(b) of the Heartland, Habitat, and Horticulture Act of 2008, title XV of Pub. L. 110–246].

Subsec. (c). Pub. L. 110–234, title XV, § 15321(b), effective as if included in section 15321(b) of the Heartland, Habitat, and Horticulture Act of 2008 [probably should affect as if included in section 15321(b) of the Heartland, Habitat, and Horticulture Act of 2008, title XV of Pub. L. 110–246].
of Pub. L. 110-246, set out as a note under section 8701 of Title 7, Agriculture."


**Effective Date of 2005 Amendment**

Pub. L. 109-58, title XIII, §1347(c), Aug. 8, 2005, 119 Stat. 1056, provided that: "The amendments made by this section [amending this section] shall apply to taxable years ending after the date of the enactment of this Act [Aug. 8, 2005]."

**Effective Date of 2004 Amendment**


"(1) In general.—Except as otherwise provided in this subsection, the amendments made by this section [enacting section 6426 of this title and amending this section and sections 4041, 4081, 4083, 4101, 6427, and 9503 of this title] shall apply to fuel sold or used after December 31, 2004.

"(2) Registration requirement.—The amendment made by subsection (b) [amending section 4101 of this title] shall take effect on April 1, 2005.

"(3) Extension of alcohol fuels credit.—The amendments made by paragraphs (3), (4), and (14) of subsection (c) [amending this section] shall take effect on the date of the enactment of this Act [Oct. 22, 2004].

"(4) Repeal of general fund retention of certain alcohol fuels taxes.—The amendments made by subsection (c)(12) [amending section 9503 of this title] shall apply to fuel sold or used after September 30, 2004."


**Effective Date of 1998 Amendment**


**Effective Date of 1996 Amendment**

Amendment by Pub. L. 104-188 effective as if included in the provision of the Revenue Reconciliation Act of 1993, Pub. L. 102-325, §912(c), effective Aug. 1, 1994, see section 913(c) of Pub. L. 98-369, set out as a note under section 4041 of this title.

**Effective Date of 1995 Amendment**

Amendment by Pub. L. 104-188 effective as if included in the provision of the Revenue Reconciliation Act of 1993, Pub. L. 102-325, §912(c), effective Aug. 1, 1994, see section 913(c) of Pub. L. 98-369, set out as a note under section 4041 of this title.

**Effective Date of 1994 Amendment**

Amendment by section 474(k) of Pub. L. 98-369 applicable to taxable years beginning after Dec. 31, 1983, and to carrybacks from such years, see section 475(a) of Pub. L. 98-369, set out as a note under section 21 of this title.

Pub. L. 98-369, div. A, title IX, §912(g), July 18, 1984, 98 Stat. 1688, provided that: "The amendments made by this section [amending this section and sections 4041, 4081, and 6427 of this title] shall take effect on January 1, 1985."

Amendment by section 913(b) of Pub. L. 98-369 effective Aug. 1, 1984, see section 913(c) of Pub. L. 98-369, set out as a note under section 4041 of this title.

**Effective Date of 1993 Amendment**


**Effective Date of 1992 Amendment**

Amendment by Pub. L. 97-354 applicable to taxable years beginning after Dec. 31, 1982, see section 6(a) of Pub. L. 97-354, set out as an Effective Date note under section 1361 of this title.

**Effective Date of 1991 Amendment**

Amendment by Pub. L. 97-34 applicable to unused credit years ending after Sept. 30, 1980, see section 209(c)(2)(C) of Pub. L. 97-34, set out as an Effective Date note under section 516 of this title.

**Effective Date**


"(1) The amendments made by subsections (b) and (c) [enacting sections 44E (now 40) and 86 of this title and amending sections 55, 381, 383, 4081, and 6096 of this title] shall apply to sales or uses after September 30, 1980, in taxable years ending after such date.

"(2) Notwithstanding paragraph (1), the provisions of section 44E(d)(4)(B) [now 40(d)(4)(B)] of such Code, as added by this section, shall take effect on April 2, 1980."

§ 40A

**Biodiesel and renewable diesel fuel**

**(a) General rule**

For purposes of section 38, the biodiesel fuels credit determined under this section for the taxable year is an amount equal to the sum of—

(1) the biodiesel mixture credit, plus

(2) the biodiesel credit, plus

(3) in the case of an eligible small agri-biodiesel producer, the small agri-biodiesel producer credit.

**(b) Definition of biodiesel mixture credit, biodiesel credit, and small agri-biodiesel producer credit**

For purposes of this section—