

## Experimental Collection

## 2006 Releases

### **Release 1: The Inaugural Release**

In 2006, Buffalo Trace released its first three barrels of experimental whiskey. Each of the barrels had unique characteristics.

| BUFFALO TRA                       | ACE EXPERIMENTAL COLLECTION          |  |
|-----------------------------------|--------------------------------------|--|
| Experiment: FRENCH OAK AGED       |                                      |  |
| Type: BOURBON WHISKEY             | Barrel Type: FRENCH OAK              |  |
| Total Production: I BARREL        | Maker: INDEPENDENT STAVE             |  |
| Date Distilled: 4-6-1995          | Staves: 24 MONTH AIR DRIED           |  |
| Date Barreled: 4-7-1995           | Treatment: #3 CHAR                   |  |
| Recipe: BT RYE MASH #1            | Bottled: 2-24-2006                   |  |
| Mash Type: SOUR                   | Age at Bottling: 10 YEARS            |  |
| Still Proof: 140 Entry Proof: 125 | Evaporation: 39%                     |  |
| Warehouse / Floor: K/8            | Filtration: CHILL FILTERED           |  |
| Rick / Row / Slot: 1/2/2          | Bottle Proof: 45% ALC/VOL (90 PROOF) |  |

| BUFFALO TRA                       | CE EXPERIMENTAL COLLECTION           |
|-----------------------------------|--------------------------------------|
| Experiment: TWICE BARRE           | ELED                                 |
| Type: BOURBON WHISKEY             | Barrel Type: WHITE OAK               |
| Total Production: I BARREL        | Maker: INDEPENDENT STAVE             |
| Date Distilled: 4-4-1993          | Staves: 6 MONTH AIR DRIED            |
| Date Barreled: 4-5-1993           | Treatment: #4 CHAR                   |
| Recipe: BT RYE MASH #2            | Bottled: 2-24-2006                   |
| Mash Type: SOUR                   | Age at Bottling: 12. YEARS           |
| Still Proof: 140 Entry Proof: 125 | Evaporation: 19.25%                  |
| Warehouse / Floor: 1/6            | Filtration: CHILL FILTERED           |
| Rick / Row / Slot: 32/1/1         | Bottle Proof: 45% ALC/VOL (90 PROOF) |



## French Oak Barrel (1 of 3)

This bourbon was aged ten years in a French oak barrel made from staves that were first air-dried for 24 months. The French oak has given the whiskey a sugary sweetness and dark caramel color.

Twice Barreled (2 of 3)

After aging this bourbon for eight years and eight months in a new charred white oak barrel, bourbon was put into another brand new barrel. With twice the wood, this whiskey has lots of oak and a long warm finish.

#### Fire Pot Barrel (3 of 3)

Bourbon was aged in a barrel that was heated to 102 degrees Fahrenheit for 23 minutes. This extra heat dried the wood of the barrel to an extraordinary degree to examine how that might affect bourbon flavor. The whiskey has a smoky nose, and hints of fruit and tobacco on the pallet.

## **Release 2: Chardonnay Aged Bourbon**

This experiment considered how the taste of bourbon is affected when aged in new American white oak barrels and finished in used French oak Chardonnay barrels. Two different ages of bourbon were examined.

| BUFFALO TRA   | E EXPERIMENT<br>COLLECTIO  |                  |
|---|--|------------------|
| Experiment: CHARDONNAY  | GED AFTER 6 YEARS  | 100              |
| Type: WHTSKEY<br>Total Production: I BARREL<br>Date Distilled: 5/13/92<br>Date Barreled: REFILED 8/19/98<br>Recipe: BT RYE MASH #1<br>Mash Type: SOUR<br>Still Proof: 14-0 Entry Proof: 125.1<br>Warehouse / Floor: 1/1<br>Rick / Row / Slot: 0/0/3 | Barrel Type:FRENCH OAK CH/<br>Maker: TONNELLERIE RAC<br>Staves: 6 MONTH AIR DR<br>Treatment.MEDI:UM TOAS<br>Bottled: 2/22/07<br>Age at Bottling: 14 YEARS<br>Evaporation: 65.17%<br>Filtration: CHILL FILTERI<br>Bottle Proof:45% ALC/VOL (0 | DOUX<br>IED<br>T |
| Master Distiller Commentary: BOURE<br>OAK THEN REBARRELED IN A USE<br>RUITINESS BLENDS MASTERFULLY  | D FRENCH OAK CHARDONNAY  | BARREL.          |



## **Release 3: Zinfandel Aged Bourbon**

American white oak barrels that previously held Zinfandel wine were used to age bourbon. Two different ages of bourbon were examined. Both bourbons aged in new barrels first, one for six years and the other for 10 years, before being finished in used Zinfandel barrels for eight years.

| BUFFALO TRA                         | CE EXPERIMENTAL COLLECTION  |  |
|-------------------------------------|---|--|
| Experiment: ZINFANDEL A             | IGED AFTER 6 YEARS  |  |
| Type: WHISKEY                       | Barrel Type: AMERICAN OAK ZINFANDEL   |  |
| Total Production: I BARREL          | Maker: SEGUIN MOREAU  |  |
| Date Distilled: 5/13/92             | Staves: 6 MONTH AIR DRIED   |  |
| Date Barreled: REFILLED 8/19/98     | Treatment: MEDIUM TOAST   |  |
| Recipe: BT RYE MASH #1              | Bottled: 2/23/07  |  |
| Mash Type: SOUR                     | Age at Bottling: 14 YEARS   |  |
| Still Proof: 140 Entry Proof: 127.3 |   |  |
| Warehouse / Floor: 1/1              | Filtration: CHILL FILTERED  |  |
| Rick / Row / Slot: 0/0/5            | Bottle Proof: 45% ALC/VOL (90 PROOF)  |  |
| OAK THEN REBARRELED IN A USE        | 30n AGED 6 YEARS \$ 3 MONTHS IN NEW<br>D AMERICAN OAK ZINFANDEL BARREL.<br>JRS OF THE OTHER BARREL EXPERIMENTS. |  |

#### Chardonnay Aged After 6 Years (1 of 2)

Aged for six years in a new American white oak barrel before it was re-barreled into a used French oak Chardonnay barrel for eight more years, this whiskey is 14 years old. The taste reveals a marriage of fruitiness from the Chardonnay barrel with smoky vanilla notes.

Chardonnay Aged After 10 Years (2 of 2) Bourbon was aged for ten years and six months in a new American white oak barrel. Then it was rebarreled in a used French oak Chardonnay barrel and aged for eight more years. Aged a total of 18 years, this whiskey boasts more oak at the start, but finishes with the fruitiness of the wine influence.

### Zinfandel Aged After 6 Years (1 of 2)

This whiskey aged for six years and three months in a new American white oak barrel before it was rebarreled into a used American oak Zinfandel barrel. There it was aged for another eight years, making it a total of 14 years old. The expected wine fruitiness is absent in the initial palate, but is replaced with an exciting spiciness. It is not the rye-grain spice normally associated with bourbon, but a grape-vine herbal quality that slides across the tongue and lingers for what seems like forever. This is an epic whiskey with grandeur and grace. Old world quaffing of a vine and field mélange.

| BUFFALO TRA  | CE EXPERIMENTAL<br>COLLECTION   |
|--|---|
| Experiment: ZINFANDEL A  | IGED AFTER 10 YEARS   |
| Type: WHISKEY<br>Total Production:   BARREL<br>Date Distilled: 4/8/88<br>Date Barreled: REFILLED 8/19/98<br>Recipe: BT RYE MASH #1<br>Mash Type: SOUR<br>Still Proof: 14/0Entry Proof: 135.1<br>Warehouse / Floor: I/1<br>Rick / Row / Slot: 0/0/6 | Barrel Type: AMERICAN OAK 2INFANDEL<br>Maker: SEGUIN MOREAU<br>Staves: 6 MONTH AIR DRIED<br>Treatment: MEDIUM TOAST<br>Bottled: 2/23/07<br>Age at Bottling: 18 YEARS<br>Evaporation: 34.17%<br>Filtration: CHILL FILTERED<br>Bottle Proof: 45% ALC/NOL (90 PROOF) |
| OAK THEN REBARRELED IN A USE   | BON AGED 10 YEARS \$ 4 MONTHS IN NEW<br>D AMERICAN OAK ZINFANDEL BARREL.<br>POWERS THE WINE BARREL INFLUENCES.  |

## **Release 4: Cabernet Franc Bourbon**

Exploring the flavor influence of used French oak, two different batches of bourbon were aged first in new American white oak barrels, and then finished in Cabernet Franc barrels. One bourbon was aged first for six years and the other was aged for eight years, both in new American white oak, before being transferred to used French oak barrels for eight more years of aging.

| BUFFALO TRA                         | CE EXPERIMENTAL COLLECTION  |  |
|-------------------------------------|---|--|
| Experiment: CABERNET FR.            | ANC AGED AFTER 6 YEARS  |  |
| Type: WHISKEY                       | Barrel Type:FRENCH OAK CABERNET FRAN  |  |
| Total Production: 1 BARREL          | Maker: BARREL ASSOCIATES  |  |
| Date Distilled: 5/13/92             | Staves: 6 MONTH AIR DRIED<br>Treatment: MEDIUM TOAST  |  |
| Date Barreled: REFILLED 8/19/98     |   |  |
| Recipe: BT RYE MASH #1              | Bottled: 2/26/07  |  |
| Mash Type: SOUR                     | Age at Bottling: 14 YEARS   |  |
| Still Proof: 140 Entry Proof: 125.1 | Evaporation: 35.67%   |  |
| Warehouse / Floor: 1/1              | Filtration: CHILL FILTERED  |  |
| Rick / Row / Slot: 0/0/1            | Bottle Proof: 45% ALC/VOL (90 PROOF   |  |
| OAK THEN REBARRELED IN A USE        | ON AGED 6 YEARS \$ 3 MONTHS IN NEW<br>D CABERNET FRANC BARREL. EARTHY<br>E WELL WITH BOURBON UNDERTONES |  |

| BUFFALO TRA  | CE EXPERIMENTAL COLLECTION  |
|--|---|
| Experiment: CABERNET FRA   | ANC AGED AFTER 8 YEARS  |
| Type: WHISKEY<br>Total Production: I BARREL<br>Date Distilled: 7/2/90<br>Date Barreled: REFILLED 8/19/98<br>Recipe: BT RYE MASH #1<br>Mash Type: SOUR<br>Still Proof:14-0 Entry Proof: 126.5<br>Warehouse / Floor: I/1<br>Rick / Row / Slot: 0/0/2 | Barrel TypeFRENCH OAK CABERNET FRANC<br>Maker: BARREL ASSOCIATES<br>Staves: 6 MONTH AIR DRIED<br>Treatment.MEDIUM TOAST<br>Bottled: 2/26/07<br>Age at Bottling: 16 YEARS<br>Evaporation: 43.00%<br>Filtration: CHILL FILTERED<br>Bottle Proof: 45% ALC/VOL (90 PROOF) |
| OAK THEN REBARRELED IN A U   | 30N AGED B YEARS \$1 MONTH IN NEW<br>SED CABERNET FRANC BARREL.<br>WINE AND BOURBON CHARACTER.  |

Zinfandel Aged After 10 Years (2 of 2)

Aging first in a new American white oak barrel for ten years, this bourbon was then re-barreled into a used American oak Zinfandel barrel for another eight years. Aged a total of 18 years, this whiskey carries little subtlety. The original whiskey brings powerful flavors to the refinement of the Zinfandel wine barrel. The Zinfandel does dance along the edges with its dry herbal flavorings, but the bourbon fills the ballroom with its grain and wood bouquet.

Cabernet Franc Aged After 6 Years (1 of 2) Bourbon was aged for six years and three months in a new American white oak barrel before it was rebarreled into a used French oak Cabernet Franc barrel. There it was aged for another eight years, making it a total of 14 years old. Earthy tannins of Cabernet mingle well with the bourbon undertones.

Cabernet Franc Aged After 8 Years (2 of 2) Bourbon spent eight years and one month in a new American white oak barrel before it was re-barreled into a used French oak Cabernet Franc barrel. There it was aged for another eight years, making it a total of 16 years old. The taste combines an amazing balance of heavy wine and bourbon character.

## Release 5: 17 Year Old Rum Marriage



## 17 Year-Old Rum Marriage (1 of 1)

This experiment was a marriage of two different rum barrels into one extraordinary offering. Both barrels contained rum that was 17 years old. One barrel was new American white oak and one was used American white oak. Both barrels were aged on the second floor of Warehouse I, then married together and bottled at 90 proof.

## 2009 Releases

### **Release 6: Oak Grains**

This was a fascinating experiment investigating one of the primary ingredients in making bourbon, the trees used for constructing barrels. Trees that grow faster have coarser wood grains, while trees that grow slower produce more fine-grained wood. Two different barrels were constructed using these two different kinds of trees. Bourbon of the same mash bill was entered into these two different kinds of barrels and aged for nearly 15 years.





### Fine Grain Oak (1 of 2)

After more than 14 years of aging, the slow-growth of fine grain wood concentrated the sugars and flavors deep within the oak and imparted extra doses of caramel and vanilla to this bourbon. Bourbon is rich and sweet with an almost syrupy character. It also has a nice balance of flavors and complexity.

#### Coarse Grain Oak (2 of 2)

After nearly 15 years in the barrel, this whiskey is dry with a balance of smokiness and wood with herbal qualities. The finish is quick and woody and it is slightly heavy with a powerful complexity.

## **Release 7: Double Barreled Bourbons**

In these two experiments, the effect of aging bourbons in two different barrels was examined. Bourbon was aged in new, charred American white oak barrels for two different lengths of time. Bourbon was then placed in new charred American oak barrels again, and aged for an additional eight years. Both whiskeys used the same mash bill, Buffalo Trace Rye Bourbon Mash Bill #2.





## 2010 Releases

#### **Release 8: Oak Variations**

The variation of oak for constructing barrels undoubtedly has an effect on bourbon flavor. This experiment explored those effects by aging the same bourbon recipe in two different oak barrels, an unused toasted French oak barrel and a used American white oak barrel with charred white oak chips inside of it. Both whiskeys were aged for a little over 15 years and the resulting flavor profiles have distinct differences.

## 1993 Double Barreled (1 of 2)

These barrels were filled April 4, 1993 and bottled September 15, 2009. At 16 years and five months of age, the finished product has a deep, rich flavor that fully expresses the oak character. The re-barreling has taken it far beyond its 16 years. It has a very strong, powerful finish.

1997 Double Barreled (2 of 2)

These barrels were filled November 18, 1997 and bottled September 16, 2009. At 11 years and ten months of age the finished product has a complex barrel flavor. It possesses a deep caramel color making it pleasing to the eye as well as the palate. It has a very robust start and finishes smooth.

| BUFFALO TRA                       | ACE EXPERIMENTAL COLLECTION          |  |
|-----------------------------------|--------------------------------------|--|
| Experiment: 1995 FRENCH (         | DAK BARREL AGED                      |  |
| Type: WHISKEY                     | Barrel Type: NEW TOASTED FRENCH OAK  |  |
| Total Production: I BARREL        | Maker: INDEPENDENT STAVE CO.         |  |
| Date Distilled: 4-6-95            | Staves: 24 MONTH AIR DRIED           |  |
| Date Barreled: 4-7-95             | Treatment: TOASTED ONLY              |  |
| Recipe: BT RYE MASH #2            | Bottled: 7-21-10                     |  |
| Mash Type: SOUR                   | Age at Bottling: 15 YRS, 3 MOS       |  |
| Still Proof: 135 Entry Proof: 125 | Evaporation: 69.7%                   |  |
| Warehouse / Floor: K/8            | Filtration: CHILL FILTERED           |  |
| Rick / Row / Slot: 1/1/2          | Bottle Proof: 45% ALC/VOL (90 PROOF) |  |

| BUFFALO TRA                        | CE EXPERIMENTAL COLLECTION              |
|------------------------------------|---|
| Experiment: 1995 AMERICA           | IN OAK CHIPS SEASONED                   |
| Type: WHISKEY                      | Barrel Type: USED CHARRED WHITE OAK     |
| Total Production: I BARREL         | Maker: INDEPENDENT STAVE CO.            |
| Date Distilled: 4-6-95             | Staves: 3 MONTH AIR DRIED               |
| Date Barreled: 4-7-95              | Treatment: SEASONED W/ TOASTED OAK CHII |
| Recipe: BT RYE MASH #2             | Bottled: 8-5-10                         |
| Mash Type: SOUR                    | Age at Bottling: 15 YRS, 4 MOS          |
| Still Proof: 135 Entry Proof: 12.5 | Evaporation: 54.2%                      |
| Warehouse / Floor: K/8             | Filtration: CHILL FILTERED              |
| Rick / Row / Slot: 1/1/1           | Bottle Proof: 45% ALC/VOL (90 PROOF)    |

### **Release 9: Rice & Oats Whiskey**

For this experiment, variations on the typical bourbon mash bill were explored. Rye is the customary secondary grain used in Buffalo Trace Bourbon Mash Bill #1. To create these two different experimental bourbons, rye was replaced with two different grains, rice and oats. The bourbon was aged for over nine years in barrels side by side on the 7th floor of Warehouse I. A unique flavor profile for each whiskey was observed.



1995 French Oak Barrel Aged (1 of 2)

This unused French oak barrel was filled on April 7, 1995 and bottled July 21, 2010. After more than 15 years and 3 months of aging, the new toasted French oak barrel added rich complexity and interesting flavors to this whiskey. The result is a leathery and woody whiskey that has a good depth with a dark, dry finish.

1995 American Oak Chips Seasoned (2 of 2) This new American oak barrel was filled on April 7, 1995. Toasted American white oak chips were added to the barrel at the start of its aging. After more than 15 years and 4 months of aging, this whiskey was bottled on August 5, 2010. Whiskey has a smoky complexity derived from interacting with the toasted oak chips. It is a lighter whiskey for its age and has a good flavor without being heavy.

## Rice Bourbon Whiskey (1 of 2)

Corn, malt, and rice are the ingredients used in the recipe, resulting in a very clean aroma with barrel notes of caramel and spice. A crisp flavor on the tongue is noticed, without any heaviness or oiliness whatsoever. A slight dryness near the end provides a quick finish. It is a very delicate whiskey.



## **Release 10: Rediscovered barrels**

Every once in a while at some distilleries a barrel warehouse worker will run across a barrel or two that has seemed to be hiding for a number of years. They're like little gems, concealed within the dark corners in the back of a warehouse, just waiting to be rediscovered. These barrels were encountered in just this way.

| BUFFALO TRA                               |        | EXPERIMENTAL COLLECTION       |
|---|--------|-------------------------------|
| Experiment: 1989 BARRELS,                 | REDI   | SCOVERED                      |
| Type: whiskey                             | Barre  | I Type: WHITE OAK             |
| Total Production: 7 BARRELS               | Make   | T: BLUEGRASS COOPERAGE        |
| Date Distilled: 11-16-89                  | Stave  | S: SEASONED                   |
| Date Barreled: 11-17-89                   | Treat  | ment: CHARRED                 |
| Recipe: BOURBON                           | Bottle | d: 12-20-10                   |
| Mash Type: SOUR                           | Age a  | t Bottling: 21 YRS, 1 MOS     |
| Still Proof: WAKADAW Entry Proof: WAKADAW | Evapo  | oration: 75.9%                |
| Warehouse / Floor: 1/2                    | Filtra | tion: CHILL                   |
| Rick / Row / Slot: ٤/١/١                  | Bottle | Proof: 45% ALC/VOL (90 PROOF) |

| BUFFALO TRA  | CE EXPERIMENTAL COLLECTION   |
|--|--|
| Experiment: 1991 BARRELS, R                          | EDISCOVERED  |
| Type: whiskey  | Barrel Type: WHITE OAK   |
| Total Production: & BARRELS                          | Maker: INDEPENDENT STAVE   |
| Date Distilled: 10-2.8-91                            | Staves: SEASONED   |
| Date Barreled: 10-2.9-91                             | Treatment: CHARRED   |
| Recipe: BOURBON                                      | Bottled: 12-2.0-10   |
| Mash Type: SOUR                                      | Age at Bottling: 19 YRS, 1 MOS   |
| Still Proof: TAXKADAN Entry Proof: TAXKADAN          | Evaporation: 62.1%   |
| Warehouse / Floor: C/6, Q/6, I/4, I/6                | Filtration: CHILL  |
| Rick / Row / Slot: 31/1/1 • 38/1/1<br>4/1/1 • 44/1/1 | Bottle Proof: 45% ALC/VOL (90 PROOF)   |
|  | A AND SPICY AROMA IS OVERTAKEN BY A ROBUST<br>HAT FINISHES AS THICK CANDIED FRUIT. THE |

## Oat Bourbon Whiskey (2 of 2)

A recipe of corn, malt and oats was used for this experiment. Bourbon has a pleasant smoky nose with a rich aroma of toasted oats that offers a nice complexity. On the palate, the smokiness intrigues as hints of dried fig and stone fruit come through, and eventually give way to an earthy finish.

## 1989 Barrels, Rediscovered (1 of 3)

Seven barrels were filled on November 17, 1989. The still proof and entry proof are unknown. After more than 21 years of aging, the wood is very prominent, but it still doesn't conquer the rich vanilla and caramel flavors that bring to mind handmade holiday candy.

**1991 Barrels, Rediscovered (2 of 3)** Filled on October 29, 1991, these eight barrels had an unknown still proof and entry proof. Aging for 19 years, the warm and spicy aroma of this bourbon is overtaken by a robust black walnut character on the palate that finishes as thick candied fruits. The flavor lasts an eternity.



## **Release 11: Giant French Oak Barrels**

American whiskey typically ages in 53 gallon oak barrels, but these whiskeys matured in 135 gallon barrels, one for 19 years and one for 23 years. Additionally, both barrels were crafted from French oak, and had previously contained some sort of wine. The exact type of wine was lost in the records. Furthermore, these giant barrels underwent a #3 char, varying from Buffalo Trace's typical #4 char. This experiment was a multifaceted investigation in crafting bourbon.

| BUFFALO TRA                         | CE EXPERIMENTAL<br>COLLECTION        |
|-------------------------------------|--------------------------------------|
| xperiment: 19 YEAR OLD G            | IANT FRENCH OAK BARREL               |
| ype: WHISKEY                        | Barrel Type: 135 GALLON FRENCH OAK   |
| otal Production: I BARREL           | Maker: UNKNOWN                       |
| Date Distilled: 1-2.7-93            | Staves: UNKNOWN                      |
| Date Barreled: 1-2.8-93             | Treatment: #3 CHAR                   |
| Recipe: BT RYE MASH BOURBON #2      | Bottled: 6-2.8-12                    |
| lash Type: SOUR                     | Age at Bottling: 19 YRS, 5 MOS       |
| till Proof: 135 Entry Proof: 12.9.8 | Evaporation: 34.8%                   |
| Varehouse / Floor: K/I              | Filtration: CHILL FILTERED           |
| tick / Row / Slot: 0/0/0            | Bottle Proof: 45% ALC/VOL (90 PROOF) |

| BUFFALO TRA                                     | CE EXPERIMENTAL COLLECTION           |  |
|---|--------------------------------------|--|
| Experiment: 23 YEAR OLD GIANT FRENCH OAK BARREL |                                      |  |
| Type: WHISKEY                                   | Barrel Type: 135 GALLON FRENCH OAK   |  |
| Total Production: I BARREL                      | Maker: UNKNOWN                       |  |
| Date Distilled: 5-16-89                         | Staves: UNKNOWN                      |  |
| Date Barreled: 5-17-89                          | Treatment: #3 CHAR                   |  |
| Recipe: BT RYE MASH BOURBON #2                  | Bottled: 6-27-12                     |  |
| Mash Type: SOUR                                 | Age at Bottling: 2.3 YRS, 1 MO       |  |
| Still Proof: 135 Entry Proof: 130               | Evaporation: 46.8%                   |  |
| Warehouse / Floor: K/I                          | Filtration: CHILL FILTERED           |  |
| Rick / Row / Slot: 0/0/0                        | Bottle Proof: 45% ALC/VOL (90 PROOF) |  |

Beginning on May 13, 1993, eight barrels of bourbon aged for 17 years and 7 months. The still and entry proofs were unknown. A flavor profile with a nice rich and heavy mouthfeel. This bourbon is complex and bold. A great sipper for long cold nights.

1993 Barrels, Rediscovered (3 of 3)

19 Year Old Giant French Oak Barrel (1 of 2) This barrel was aged for 19 years on the ground floor of Warehouse K. The whiskey inside was tasted and found to be rich and complex with notes of butterscotch, caramel, and oak. This is a finely aged whiskey that has unique flavors.

23 Year Old Giant French Oak Barrel (2 of 2) For 23 years, this giant barrel rested full on the ground floor of Warehouse K. After 23 years, the whiskey has very complex flavors and is full bodied with hints of sassafras, caramel, and birch.

## Release 12: Hot Box & Heavy Char #7

This was an exploration of how extreme heat used on oak barrels can alter the bourbon flavor profile. One barrel was exposed to 3½ minutes of charring by natural flame, a Heavy Char #7. The other barrel was made from staves that were steamed in a "Hot Box" at 133 degrees Fahrenheit before being charred at the standard char #4, 30 seconds of charring.





## **Release 13: Wheat Bourbon Entry Proof**

This experiment investigated how various barrel entry proofs can influence the flavor profile of Buffalo Trace Distillery's standard Wheat Bourbon mash bill. These barrels all had varying entry proofs from the standard entry proof usually used for Wheat Bourbon, 114. All of the barrels were aged in the same location for 11 years and seven months, and bottled at 90 proof.

## Hot Box Toasted Barrel (1 of 2)

Barrel staves were placed inside of a "Hot Box" at 133 degrees Fahrenheit and steamed before being fashioned into a barrel. The goal was to determine if this steaming process would drive more or different flavors into the wood that would in turn be imparted on the whiskey aged inside. The barrels were filled with Buffalo Trace Rye Bourbon Mash #2 and left to age for 16 years. The resulting bourbon is well-balanced with fruity notes complimented by a caramel and buttery taste.

## #7 Heavy Char (2 of 2)

Barrels were charred with a natural open flame for 3½ minutes, almost four times longer than the standard 55-second char typically used for Buffalo Trace barrels. The barrels were then filled with Buffalo Trace Rye Bourbon Mash #2 and left to age for 15 years. The end result is a bourbon with an oaky aroma followed by a body that is heavy and complex. It has a smoky and robust flavor, with fantastic woody notes and hints of vanilla, fruit and tannin. It is dry and balanced.









Wheat 90 (1 of 4)

This 90 entry proof resulted in a bourbon with more wood characters and slight sweet notes. It is mellow with hints of cedar and other wood flavors.

#### Wheat 105 (2 of 4) 105 entry proof produced bourbon that has a nice balance of sweet caramel, vanilla and dry oakiness.

#### Wheat 115 (3 of 4)

The 115 entry proof produced a well-balanced spirit. The up-front taste is sweet and fruity, with buttery toffee notes that follow. This is completed with a dry oaky finish.

### Wheat 125 (4 of 4)

The 125 entry proof resulted in a well-rounded flavor. The taste is a balance of cooked berries mingled with sweet honey and slight hints of spicy cloves and pepper.

## Release 14: Stave Drying Time

This experimental bourbon explored how barrels can be constructed in different ways to affect bourbon taste. Two different types of barrels were made. One crafted from oak staves dried naturally in the open air for six months, and one from staves dried for 13 months. Both barrels were crafted from American white oak, charred for 55 seconds, filled with same bourbon mash bill, Buffalo Trace Rye Bourbon Mash Bill # 1, and aged for 15 years.

| BUFFALO TRA   | CE EXPERIMENTAL COLLECTION  |
|---|---|
| Experiment: IS YEAR OLD -   | EXTENDED STAVE DRY TIME   |
| Type: BOURBON WHISKEY<br>Total Production: & BARRELS<br>Date Distilled: 1-2.8-98<br>Date Barreled: 1-2.9-98<br>Recipe: BT RYE MASH #1<br>Mash Type: SOUR<br>Still Proof: 14-0 Entry Proof: 12.5<br>Warehouse / Floor: 1/4-<br>Rick / Row / Slot: 4-8 / 1 / 15 - 2.2 | Barrel Type: CHARRED WHITE OAK<br>Maker: INDEFENDENT STAVE CO.<br>Staves: 13 MONTH AIR DRIED<br>Treatment: #4 CHAR<br>Bottled: 9-9-13<br>Age at Bottling: 15 YRS, 7 MOS<br>Evaporation: 592<br>Filtration: CHILL FILTERED<br>Bottle Proof: 452 ALC/VOL (90 FROOF) |
| OF TIME BARREL STAVES ARE A   | EXPERIMENT EXPLORED HOW THE AMOUNT<br>IR DRIED WILL IMPACT BOURBON'S<br>F SWEET NUTS BALANCED WITH MILC<br>T FLAVOR.  |

| BUFFALO TRA   | CE EXPERIMENTAL<br>COLLECTION        |  |
|---|--------------------------------------|--|
| Experiment: IS YEAR OLD -   | STANDARD STAVE DRY TIME              |  |
| Type: BOURBON WHISKEY   | Barrel Type: CHARRED WHITE OAK       |  |
| Total Production: 8 BARRELS   | Maker: INDEPENDENT STAVE CO.         |  |
| Date Distilled: 1-28-98   | Staves: 6 MONTH AIR DRIED            |  |
| Date Barreled: 1-29-98  | Treatment: #4 CHAR                   |  |
| Recipe: BT RYE MASH #1  | Bottled: 9-10-13                     |  |
| Mash Type: SOUR   | Age at Bottling: 15 YRS, 7 MOS       |  |
| Still Proof: 140 Entry Proof: 125   | Evaporation: 53%                     |  |
| Warehouse / Floor: 1/4  | Filtration: CHILL FILTERED           |  |
| Rick / Row / Slot: 52 / 1 / 5 - 12  | Bottle Proof: 45% ALC/VOL (90 PROOF) |  |
| Master Distiller Commentary: THIS EXPERIMENT WAS AN EXAMINATION OF<br>HOW THE AIR DRYING TIME OF BARBEL STAVES AFFECTS BOURBON'S<br>FLAVOR. THE & MONTH AIR DRIED STAVES PRODUCED A WELL-ROUNDED<br>BOURBON THAT HAS FLAVORS OF CARMEL, VANILLA, AND OAK. |                                      |  |

15 Year Old - Extended Stave Dry Time (1 of 2) These barrels were constructed from staves that were seasoned in the open air for 13 months. This is more than twice a long as the standard stave drying time used for Buffalo Trace's barrels. This led to a bourbon that tastes of sweet nuts balanced with mild spicy notes, creating a robust flavor.

15 Year Old - Standard Stave Dry Time (2 of 2) Staves were seasoned for the standard six months in the open air environment before being fashioned into aging barrels. A well-rounded bourbon with flavors of caramel, vanilla and oak is expressed from these barrels.

## 2014 Releases

## **Release 15: Rye Bourbon Entry Proof**

Buffalo Trace's Rye Bourbon mash bill has a standard barrel entry proof of 125. This experiment sought to explore how different barrel entry proofs could affect the bourbon's resulting flavor profile. Using the standard Buffalo Trace Rye Bourbon Mash Bill #1, barrels were filled on the same day, but with four different entry proofs. All barrels were aged side by side in Warehouse K for the same amount of time, 11 years and nine months, and bottled at 90 proof.









Rye Bourbon 90 (1 of 4) Bourbon expresses a light fruity flavor followed by some hints of dried nuts and spice, with a drier finish.

#### Rye Bourbon 105 (2 of 4) The 105 entry proof produced a bourbon with a good overall flavor containing some earthy tones, followed by a buttery, light finish.

Rye Bourbon 115 (3 of 4) Light flavors mingle with leather and palm sugar.

#### Rye Bourbon 125 (4 of 4)

The 125 entry resulted in a well-balanced bourbon, spicy cloves mingle with sweet vanilla, caramel and toffee to create a well-rounded and complex flavor.

## Release 16: Rye Bourbon Warehouse Floors

It has long been accepted that barrels aging in different warehouse locations experience their own unique microenvironment. This experiment took a closer look at how warehouse location influences the flavor profile of the Buffalo Trace Rye Bourbon Mash Bill # 1. Barrels were constructed in the exact same way, filled on the same day with the same recipe, and then aged in Warehouse K on three different floors. After 12 years, the results were tasted.

| BUFFALO TRA                                   | CE EXPERIMENTAL<br>COLLECTION        |  |
|---|--------------------------------------|--|
| Experiment: 12 YEAR OLD BOURBON FROM FLOOR #1 |                                      |  |
| Type: BOURBON WHISKEY                         | Barrel Type: CHARRED WHITE OAK       |  |
| Total Production: 4 BARRELS                   | Maker: INDEPENDENT STAVE CO.         |  |
| Date Distilled: 11-29-01                      | Staves: 3 MONTH AIR DRIED            |  |
| Date Barreled: 11-30-01                       | Treatment: #4 CHAR                   |  |
| Recipe: BT RYE MASH #1                        | Bottled: 3-12-14                     |  |
| Mash Type: SOUR                               | Age at Bottling: 12 YRS, 3 MOS       |  |
| Still Proof: 140 Entry Proof: 12.5            | Evaporation: 2.7%                    |  |
| Warehouse / Floor: K/I                        | Filtration: CHILL FILTERED           |  |
| Rick / Row / Slot: 1/1/1-4                    | Bottle Proof: 45% ALC/VOL (90 PROOF) |  |

| BUFFALO TRA                                   | CE EXPERIMENTAL COLLECTION           |  |
|---|--------------------------------------|--|
| Experiment: 12 YEAR OLD BOURBON FROM FLOOR #5 |                                      |  |
| Type: BOURBON WHISKEY                         | Barrel Type: CHARRED WHITE OAK       |  |
| Total Production: 4 BARRELS                   | Maker: INDEPENDENT STAVE CO.         |  |
| Date Distilled: 11-2.9-01                     | Staves: 3 MONTH AIR DRIED            |  |
| Date Barreled: 11-30-01                       | Treatment: #4 CHAR                   |  |
| Recipe: BT RYE MASH #1                        | Bottled: 3-12-14                     |  |
| Mash Type: SOUR                               | Age at Bottling: 12 YRS, 3 MOS       |  |
| Still Proof: 140 Entry Proof: 125             | Evaporation: 25%                     |  |
| Warehouse / Floor: K/5                        | Filtration: CHILL FILTERED           |  |
| Rick / Row / Slot: 51/1/21-24                 | Bottle Proof: 45% ALC/VOL (90 PROOF) |  |

BUFFALO TRACE. **EXPERIMENTAL** COLLECTION DISTILLERY Experiment: 12 YEAR OLD BOURBON FROM FLOOR #9 Barrel Type: CHARRED WHITE OAK Type: BOURBON WHISKEY Total Production: 4 BARRELS Maker: INDEPENDENT STAVE CO. Date Distilled: 11-29-01 Staves: 3 MONTH AIR DRIED Date Barreled: 11-30-01 Treatment: #4 CHAR Recipe: BT RYE MASH #1 Bottled: 3-12-14 Mash Type: SOUR Age at Bottling: 12 YRS, 3 MOS Still Proof: 140 Entry Proof: 125 Evaporation: 49% Warehouse / Floor: K/9 Filtration: CHILL FILTERED Rick / Row / Slot: 44/1/13-16 Bottle Proof: 45% ALC/VOL (90 PROOF) Master Distiller Commentary: THIS EXPERIMENT IS AN ANALYSIS OF HOW BARGEL WAREHOMSE FLOOR LOCATION WILL APPECT FLANDR. BOURBON AGED ON THE 9TH FLOOR HAS A DEER AROMA, THE FLANDR IS WELL BALANCED WITH A FLANDR OF ROASTED WAT SWEETNESS PAIRED WITH GREEN PEARS AND FIGS. 12 Year Old Bourbon from Floor #1 (1 of 3) Bourbon aged on Floor 1 has a delicate flavor that is subtly sweet with very mild oak taste.

12 Year Old Bourbon from Floor #5 (2 of 3) Bourbon aged on the 5th floor tastes of sweet vanilla and a light caramel coupled with light wood flavors.

12 Year Old Bourbon from Floor #9 (3 of 3) Barrels aged on the ninth floor produced bourbon with a deep aroma, and a flavor of roasted nut sweetness paired with green pears and figs.

## **Release 17: Wheat Bourbon Warehouse Floors**

It has long been accepted that barrels aging in different warehouse locations experience their own unique microenvironment. This experiment examined how that environment affects bourbon flavor profile of the Buffalo Trace Wheat Bourbon Mash Bill. Barrels were constructed in the exact same way, filled on the same day with the same recipe, and then aged in Warehouse K on three different floors. After 12 years, the results were tasted.



| BUFFALO TRA   | CE EXPERIMENTAL COLLECTION           |  |
|---|--------------------------------------|--|
| Experiment: 12 YEAR OLD WHEATED BOURBON FROM FLOOR #5 |                                      |  |
| Type: BOURBON WHISKEY                                 | Barrel Type: CHARRED WHITE OAK       |  |
| Total Production: 5 BARRELS                           | Maker: ZIMLICH COOPERAGE             |  |
| Date Distilled: 4-24-02                               | Staves: 3 MONTH AIR DRIED            |  |
| Date Barreled: 4-26-02                                | Treatment: #4 CHAR                   |  |
| Recipe: WHEATED BOURBON                               | Bottled: II-3-I4                     |  |
| Mash Type: SOUR                                       | Age at Bottling: 12 YRS, 6 MOS       |  |
| Still Proof: 130 Entry Proof: 125                     | Evaporation: 47%                     |  |
| Warehouse / Floor: K/5                                | Filtration: CHILL FILTERED           |  |
| Rick / Row / Slot: 51/1/1-5                           | Bottle Proof: 45% ALC/VOL (90 PROOF) |  |



# 12 Year Old Wheated Bourbon from Floor #1 (1 of 3)

Bourbon from Floor 1 has a mild nose with a hint of vanilla. The flavor is sweet with slight caramel and butterscotch notes along with bright berry fruit flavors and hints of clover. The body is mild with an easy and approachable palate.

# 12 Year Old Wheated Bourbon from Floor #5 (2 of 3)

Bourbon from Floor 5 has an aroma full of herbal notes. The mouth has savory flavors of cooked cinnamon and clove that are balanced with a presence of caramel and butterscotch. The finish is quite and smooth and balanced.

# 12 Year Old Wheated Bourbon from Floor #9 (3 of 3)

Barrels aged on Floor 9 have a rich and delightful aroma of charred oak. The initial flavor fills the mouth with toasted almonds and walnuts that is complimented by chicory and blackberry. The mouth feel is medium bodied with a dry finish.

## **Release 18: French Oak Barrel Variations**

A ten-year experiment explored the variation that French oak can impart on bourbon flavor. Two different barrel types were created, one made entirely of French oak, and another using French oak heads, but American white oak staves. Both barrels were made from staves that were air-dried for six months and the barrels were charred for 55 seconds. The same bourbon mash bill was placed in barrels and after ten years, the taste variation was evaluated.

| Experiment: 100% FRENCH O         | AK BARREL AGED  |  |
|-----------------------------------|---|--|
| Type: BOURBON WHISKEY             | Barrel Type: CHARRED FRENCH OAK   |  |
| Total Production: 2 BARRELS       | Maker: INDEPENDENT STAVE  |  |
| Date Distilled: 3-31-05           | Staves: 6 MONTH AIR DRIED   |  |
| Date Barreled: 4-1-05             | Treatment: #4 CHAR  |  |
| Recipe: BT RYE BOURBON MASH #1    | Bottled: 4-6-15   |  |
| Mash Type: SOUR                   | Age at Bottling: 10 YRS, 0 MOS  |  |
| Still Proof: 140 Entry Proof: 125 | Evaporation: 47%  |  |
| Warehouse / Floor: K/8            | Filtration: CHILL FILTERED  |  |
| Rick / Row / Slot: 1/3/3          | Bottle Proof: 45% ALC/VOL (90 PROOF)  |  |
|                                   | IN AGED IN NEW BARRELS MADE<br>TE NOTES OF FRUIT AND CHERRY MINGLE<br>EATE A SMOOTH AND BALANCED TASTE. |  |

100% French Oak Barrels (1 of 2) Barrels were constructed entirely of French oak. Delicate notes of fruit and cherry mingle with vanilla and tannins to create a smooth and balanced taste.



## Release 19: Old Fashioned Sour Mash Bourbon

Years ago, a conversation between retired Buffalo Trace workers reminisced about an old method of making "sour mash bourbon." Some recall it was used as far back as Colonel Taylor's day in the early 1900's. Using this process, the bourbon mash is cooked and cooled to standard, but then left to sit, allowing it to sour, before yeast is added to start the fermentation process. This old fashioned method of creating sour mash bourbon was replaced with the more commonly found method used today because it was so much more labor intensive. Bourbon was entered into barrels at 2 different entry proofs – 105 and 125. French Oak Barrel Head Aged (2 of 2) Barrels were made of American white oak staves and French oak heads on both ends. This bourbon expresses deep tobacco and oak flavors along with smoky notes of subtle vanilla.



| BUFFALO TRA   | COLLECTION                                 |  |
|---|--|--|
| Experiment: OLD FASHIONED SOUR MASH - ENTRY PROOF 12  |  |  |
| Type: BOURBON WHISKEY   | Barrel Type: CHARRED WHITE OAK             |  |
| Total Production: 3 BARRELS   | Maker: INDEPENDENT STAVE                   |  |
| Date Distilled: 5-1-02  | Staves: 3 MONTH AIR DRIED                  |  |
| Date Barreled: 5-1-02   | Treatment: #4 CHAR                         |  |
| Recipe: BT RYE BOURBON MASH #2  | Bottled: 8-2.0-15                          |  |
| Mash Type: SOUR   | Age at Bottling: 13 YRS, 3 MOS             |  |
| Still Proof: 135 Entry Proof: 125   | Evaporation: 54.8% Release No. 19 (2 of 2) |  |
| Warehouse / Floor: 1/7  | Filtration: CHILL FILTERED                 |  |
| Rick / Row / Slot: 50/2/1   | Bottle Proof: 45% ALC/VOL (90 PROOF)       |  |
| Master Distiller Commentary: THE NOSE IS RICH WITH WOODY NOTES. A SIP BRING<br>AN ARRAY OF FLANOR, POPCORN AND A SLIGHT SPICE HITS THE TONGUE FIRST, LIGHT<br>CARAMEL AND VANILLA BALANCE WITH NOTES OF COCOA, ONK AND A HINT OF FRMIT.<br>THE BOOY IS MODIUM. THE FILISH IS VERY BALANCED AND FLASING. |  |  |

## Old Fashioned Sour Mash Bourbon 105 Entry Proof (1 of 2)

Bourbon entered into the barrel at 105 proof. Aged for 13 years. Bottled at 90 proof. Nice aroma of vanilla. The taste is light yet balanced. Sweet notes of butterscotch and honey mingle with jammed fruit and a hit of licorice and oack. The body is light. There is a dry nice finish.

## Old Fashioned Sour Mash Bourbon 125 Entry Proof (2 of 2)

Bourbon placed into barrels at 125 proof. Aged for 13 years and bottled at 90 proof. The nose is rich with woody notes. A sip brings an array of flavor. Popcorn and a slight spice hits the tongue first. Light caramel and vanilla balance with notes of cocoa., oak, and a hint of fruit. The body is medium. The finish is very balanced and pleasing.

The 2018 release of the Experimental Collection from Buffalo Trace Distillery sought to gauge the difference between two bourbons aged for nearly eight years in barrels made of staves that were seasoned for three and four years. The bourbon industry's average drying time is 3-4 months, and Buffalo Trace Distillery seasons their staves for 6 months normally. These experimental bourbons, put away to age on October 27, 2009, were aged in new barrels with staves seasoned (air-dried) for more than 6x and 8x the normal Buffalo Trace Distillery drying time. With just slight variations between the two in regards to taste, the bourbons will be sold in a two-pack case so consumers can evaluate the two and compare taste differences for themselves.



Master Distiller Commentary: The Anerage Bourbow Barrel Stane is Alf-Dried for Addumd 6 womig. This expression tested the impact of stane Doring time and as the onk define for Sist Fundes As Long as the Amerage The Reserve of Mits 9-MA Bourbow is A Dor, Wood-Horward Tate with Onk words And Cardwel Hearts Pre-Bourbow is A Dor, Wood-Horward Tate with Onk words And Cardwel Hearts Pre-As Ear More R-Moderne How Ist & 40-More R-More Astrone Early and Commergant.

Seasoned Staves - 36 Months This experiment tested the impact of stave drying time as the oak dried for six times as long as the average. The result of this 9-year-old bourbon is a dry, wood-forward taste with oak notes and caramel hints present. A bit more flavorful than its 48-month stave seasoned counterpart. This experiment was bottled at 90 proof.

| BUFFALO TRA                             | CE.                                   | EXPERIMENTAL COLLECTION |
|---|---------------------------------------|-------------------------|
| Experiment: SEASONED STAVES - 48 MONTHS |                                       |                         |
| Type: BOURBON WHISKEY                   | Barrel                                | Type: CHARRED WHITE OAK |
| Total Production: 2 BARRELS             | Maker: INDEPENDENT STAVE CO.          |                         |
| Date Distilled: 10-26-09                | Staves: 48 MONTHS                     |                         |
| Date Barreled: 10-27-09                 | Treatr                                | nent: AIR DRIED         |
| Recipe: BT RYE BOURBON MASH #1          | Bottle                                | d: 11/5/2018            |
| Mash Type: SOUR                         | Age at Bottling: 9 YEARS              |                         |
| Still Proof: 130 Entry Proof: 125       | Evaporation: 29.7% Release No: 22(2/2 |                         |
| Warehouse / Floor: K/7                  | Filtration: CHILL FILTERED            |                         |
| Rick / Row / Slot: 7/1/1-4              | Bottle Proof: 45% ALC/VOL (90 PROOF   |                         |
| Master Distiller Commentary: THE AVER   |                                       |                         |

MASKET DISULIET COMMERTIARY: THE AVERAGE BOYRESON BARGEL STAME IS ALF-DATED FOR ADDIMO & ADDIMO IS THIS THESE VERSION OF DUR STAME SPASIDED CONFERIMENT TO ALF DARLAGE AND THE DAR TO AN EXTERME AS THE STAMES ALF-DARLO FOR HE ADDIMO. THE TARTS IN MISSION SHILLON NOT AS WILL-BALANCED AS THE SE-MANTH SPASIDED FOR HEAD ADDIMO. THE TARTS IS MARE MELLON

## Seasoned Staves – 48 Months

This version of our stave-seasoned experiment took the drying of the oak to an extreme as the staves air-dried for 48 months. While this whiskey is not as well balanced as the 36-month seasoned bourbon, the taste is more mellow with a slightly richer nose and holds more flavor from the wood. This experiment was bottled at 90 proof.