Fusca Pro Lookup - Iframe Pages Usage Guide

Overview

The Fusca Pro Lookup application includes iframe-ready versions of all main pages. These pages are designed to be embedded in external websites or applications while maintaining full functionality and consistent styling.

Base Domain: https://dataengine.fusca.co.nz/

Available Iframe Pages

1. Simple Search

URL: https://dataengine.fusca.co.nz/simple-iframe

A streamlined search interface for querying wool auction data with filters, date ranges, and results visualization.

2. Compare Types

URL: https://dataengine.fusca.co.nz/compare-iframe

Compare up to 5 wool types side-by-side with price trend analysis.

3. Advanced Blends

URL: https://dataengine.fusca.co.nz/blends-iframe

Create weighted blends of multiple wool types with custom filters and date ranges.

4. Advanced Metrics

URL: https://dataengine.fusca.co.nz/metrics-iframe

Statistical analysis tools including:

- Distribution Analysis
- Time Series Analysis
- Value Drivers (Regression)
- What-If Scenario Analysis
- Benchmark Your Lot

Key Features

Design Consistency

- All iframe pages use the same native components as the main pages
- Consistent styling with Nunito Sans font family
- No navigation bar (removed for iframe context)
- No intro headers (cleaner embedded appearance)

- Same functionality as main pages

Styling

- Font: Nunito Sans with system fallbacks
- Responsive design (mobile-friendly)
- Consistent color scheme and component styling
- All styles inherited from base.html and styles.css

Implementation

Basic HTML Embed

```html
<iframe
  src="https://dataengine.fusca.co.nz/simple-iframe"
  width="100%"
  height="800px"
  frameborder="0"
  style="border: 1px solid #ddd; border-radius: 8px;">
</iframe>
```

Responsive Embed (Recommended)

```html
<div style="position: relative; padding-bottom: 75%; height: 0; overflow: hidden; max-width: 100%;">
  <iframe
    src="https://dataengine.fusca.co.nz/simple-iframe"
    style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border: 1px solid #ddd; border-radius: 8px;"
    frameborder="0"
    allowfullscreen>
  </iframe>
</div>
```

React/Next.js Example

```jsx
<iframe
  src="https://dataengine.fusca.co.nz/metrics-iframe"
  width="100%"
  height="1000px"
  style={{ border: '1px solid #ddd', borderRadius: '8px' }}
  title="Fusca Pro Metrics"
/>
```

Vue.js Example

```
<template>
  <iframe
    :src="iframeUrl"
    width="100%"
    height="800px"
    frameborder="0"
    style="border: 1px solid #ddd; border-radius: 8px;"
  />
</template>

<script>
export default {
  data() {
    return {
      iframeUrl: 'https://dataengine.fusca.co.nz/blends-iframe'
    }
  }
}
</script>
```

Page-Specific Considerations

Simple Search

- **Recommended height:** 800-1000px
- Includes search, filters, charts, and results table
- Results table can expand, so allow for dynamic height if possible

Compare Types

- **Recommended height:** 600-800px
- Best for comparing 2-5 wool types
- Chart visualization is the primary output

Advanced Blends

- **Recommended height:** 900-1200px
- More complex interface with blend configuration
- Includes saved blends functionality

Advanced Metrics

- **Recommended height:** 1000-1400px
- Most complex page with multiple analysis tabs
- Includes regression analysis, scenario modeling, and benchmarking

Styling Customization

The iframe pages inherit all styles from the main application. If you need to customize the appearance within your embedding context:

Option 1: CSS Override (External)

```css
/* Target elements within the iframe */
iframe {
    border: 2px solid #3D7F4B !important;
    box-shadow: 0 4px 8px rgba(0,0,0,0.1);
}
```

Option 2: Container Styling

```html
<div class="fusca-iframe-container" style="background: #f5f5f5; padding: 20px;">
    <iframe src="https://dataengine.fusca.co.nz/simple-iframe" ...></iframe>
</div>
```

Technical Details

Routes

All iframe routes follow the pattern: /{page}-iframe

- /simple-iframe - Simple Search
- /compare-iframe - Compare Types
- /blends-iframe - Advanced Blends
- /metrics-iframe - Advanced Metrics

Differences from Main Pages

1. **Navigation Bar:** Hidden (set via hide_nav = True)
2. **Intro Headers:** Removed (cleaner embedded appearance)
3. **Container Margin:** Adjusted for iframe context
4. **All other functionality:** Identical to main pages

Browser Compatibility

- Modern browsers (Chrome, Firefox, Safari, Edge)
- Mobile responsive
- Requires JavaScript enabled
- Uses Chart.js for visualizations

Security & Permissions

CORS

The iframe pages are designed to be embedded cross-origin. Ensure your embedding page doesn't have restrictive CSP headers that block iframes.

Content Security Policy

If you're setting CSP headers, include:

```
frame-src https://dataengine.fusca.co.nz;
```

Performance Considerations

1. **Initial Load:** Pages load Chart.js and other dependencies (~500KB)
2. **Data Fetching:** API calls are made on-demand when users interact
3. **Caching:** Static assets are cached with versioning (?v=3.0)
4. **Lazy Loading:** Consider lazy-loading iframes that are below the fold

Troubleshooting

Iframe Not Displaying

- Check browser console for CORS errors
- Verify the URL is correct and accessible
- Ensure iframe is not blocked by browser extensions

Styling Issues

- Clear browser cache (CSS is versioned)
- Check for conflicting CSS in parent page
- Verify iframe has sufficient width/height

Functionality Issues

- Ensure JavaScript is enabled
- Check browser console for errors
- Verify API endpoints are accessible from iframe context

Support

For issues or questions:

- Check the main application at https://dataengine.fusca.co.nz/
- Review browser console for error messages
- Verify network connectivity and API accessibility

Version History

- **v1.0** - Initial iframe pages with consistent styling
- Font updated to Nunito Sans
- Navigation and headers removed for iframe context
- All pages use native components from main application