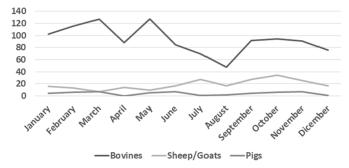


Number of trucks by month and species



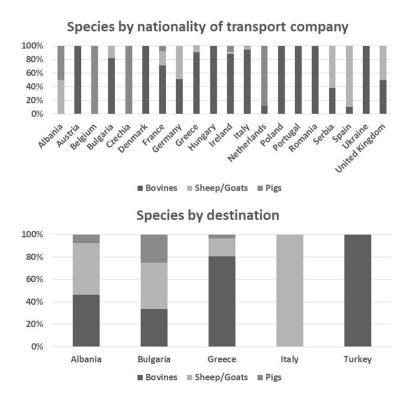


Figure S2. Association between species and nationality of Transport Company and destination.

Predictive Variable	Welfare problem
Year	0.571
Month	0.998
Season	0.893
Species	0.049
Category	0.527
Provenance	1.000
Destination	0.078
Nationality	0.999
Space allowance	0.003

Table S1: Wald test P-values generated from univariate regression analysis

Table S2. Results of the GLM with year, month, season, species and category as factors and number of animals transported per truck (NATT) as dependent variables. Results expressed as Least Square means ± standard error.

Independent Variable	NATT
P of Year	0.072
2010	75.29 ± 4.23
2011	81.98 ± 4.69
2012	77.89 ± 7.20
2013	83.38 ± 6.41
2014	72.01 ± 7.99
2015	105.59 ± 9.43
P of Month	<0.0001
January	68.35 ± 8.06^{bc}
February	64.33 ± 7.67 bc
March	57.20 ± 7.50°
April	80.78 ± 8.82^{abd}
May	57.78 ± 7.47°
June	86.43 ± 8.53^{abd}
July	102.17 ± 8.99^{d}
August	$98.48 \pm 10.88^{\rm ad}$
September	89.76 ± 8.03^{d}
October	102.80 ± 7.70^{d}
November	92.04 ± 7.99^{d}
December	82.36 ± 9.19^{abd}
P of Season	<0.0001
Winter	65.26 ± 4.74^{a}
Spring	70.59 ± 4.64^{a}
Summer	96.38 ± 5.37^{b}
Autumn	$91.40 \pm 4.53^{\text{b}}$
P of Species	<0.0001
Pigs	106.66 ± 4.75^{ab}
Sheep/goats	268.68 ± 2.24^{a}
Bovines	40.99 ± 1^{b}
P of Category	<0.0001
Sheep/goats	242.41 ± 2.07^{acd}
Lambs	$334.78 \pm 3.29^{\circ}$
Medium size calves	67.48 ± 2.26^{d}
Heavy calves	55.37 ± 2.05^{ac}
Medium size cattle	43.62 ± 2.69^{e}
Heavy cattle	$32.50 \pm 0.99^{\text{b}}$
Very heavy cattle	$21.72 \pm 7.94^{\text{f}}$
Light fattening	118.95 ± 4.16^{a}
Heavy fattening	70.00 ± 11.77^{g}
Breeding	45.00 ± 11.77^{d}
P of Provenance	<0.0001
Austria	33.00 ± 41.22^{ac}
	86.00 ± 35.70 ac
Belgium	.
Denmark	20.00 ± 71.40 ac
0	20.00 ± 71.40 ac 58.65 ± 2.26 a 32.57 ± 26.98 ac

Hungary 80.00 ± 71.40 abc Ireland 67.32 ± 7.03 a Italy 37.44 ± 8.72 c Luxembourg 33.00 ± 50.49 a Netherlands 32.85 ± 26.98 ac Portugal 75.00 ± 31.93 ac Romania 38.00 ± 71.40 a Spain 216.78 ± 5.11 b United Kingdom 52.33 ± 41.22 a P of Destination <0.001 Albania 114.23 ± 24.78 ad Bulgaria 188.33 ± 25.79 b Greece 79.19 ± 2.45 ac Italy 203.00 ± 44.6 bd Turkey 53.85 ± 15.10 c Nationality of transport company <0.001 Albania 94.50 ± 54.66 abcd Belgium 69.80 ± 34.57 ac Bulgaria 30.00 ± 54.66 abcd Belgium 69.80 ± 34.57 ac Bulgaria 90.53 ± 8.10 a Czechia 147.00 ± 77.30 b Denmark 33.00 ± 54.66 ac France 100.77 ± 6.97 a Geremany 169.92 ± 12.38 b Greece 60.15 ± 3.10 c Hungary 45.06 ± 13.75 c Irel	T Terra and the	90.00 + 71.40 sho
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Czechia 147.00 ± 77.30^{b} Denmark 33.00 ± 54.66^{ac} France 100.77 ± 6.97^{a} Germany 169.92 ± 12.38^{b} Greece 60.15 ± 3.10^{c} Hungary 45.06 ± 13.75^{c} Ireland 66.64 ± 7.58^{c} Italy 79.15 ± 6.80^{c} Netherlands 86.76 ± 15.46^{ac} Poland 42.25 ± 11.27^{c} Portugal 75.00 ± 34.57^{ac} Romania 18.00 ± 44.63^{ac} Serbia 169.47 ± 10.23^{b} Spain 238.40 ± 9.44^{d}		
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Greece $60.15 \pm 3.10^{\circ}$ Hungary $45.06 \pm 13.75^{\circ}$ Ireland $66.64 \pm 7.58^{\circ}$ Italy $79.15 \pm 6.80^{\circ}$ Netherlands $86.76 \pm 15.46^{\circ}$ Poland $42.25 \pm 11.27^{\circ}$ Portugal $75.00 \pm 34.57^{\circ}$ Romania $18.00 \pm 44.63^{\circ}$ Serbia $169.47 \pm 10.23^{\circ}$ Spain $238.40 \pm 9.44^{\circ}$	Bulgaria Czechia	90.53 ± 8.10 ª 147.00 ± 77.30 ^b
Hungary $45.06 \pm 13.75^{\circ}$ Ireland $66.64 \pm 7.58^{\circ}$ Italy $79.15 \pm 6.80^{\circ}$ Netherlands $86.76 \pm 15.46^{\circ}$ Poland $42.25 \pm 11.27^{\circ}$ Portugal $75.00 \pm 34.57^{\circ}$ Romania $18.00 \pm 44.63^{\circ}$ Serbia $169.47 \pm 10.23^{\circ}$ Spain $238.40 \pm 9.44^{\circ}$	Bulgaria Czechia Denmark	90.53 ± 8.10^{a} 147.00 ± 77.30^{b} 33.00 ± 54.66^{ac}
Ireland $66.64 \pm 7.58 ^{\circ}$ Italy $79.15 \pm 6.80 ^{\circ}$ Netherlands $86.76 \pm 15.46 ^{ac}$ Poland $42.25 \pm 11.27 ^{\circ}$ Portugal $75.00 \pm 34.57 ^{ac}$ Romania $18.00 \pm 44.63 ^{ac}$ Serbia $169.47 \pm 10.23 ^{b}$ Spain $238.40 \pm 9.44 ^{d}$	Bulgaria Czechia Denmark France	90.53 ± 8.10^{a} 147.00 ± 77.30^{b} 33.00 ± 54.66^{ac} 100.77 ± 6.97^{a}
Italy $79.15 \pm 6.80^{\circ}$ Netherlands $86.76 \pm 15.46^{\circ}$ Poland $42.25 \pm 11.27^{\circ}$ Portugal $75.00 \pm 34.57^{\circ}$ Romania $18.00 \pm 44.63^{\circ}$ Serbia $169.47 \pm 10.23^{\circ}$ Spain $238.40 \pm 9.44^{\circ}$	Bulgaria Czechia Denmark France Germany	90.53 ± 8.10^{a} 147.00 ± 77.30^{b} 33.00 ± 54.66^{ac} 100.77 ± 6.97^{a} 169.92 ± 12.38^{b}
Netherlands $86.76 \pm 15.46^{\text{ ac}}$ Poland $42.25 \pm 11.27^{\text{ c}}$ Portugal $75.00 \pm 34.57^{\text{ ac}}$ Romania $18.00 \pm 44.63^{\text{ ac}}$ Serbia $169.47 \pm 10.23^{\text{ b}}$ Spain $238.40 \pm 9.44^{\text{ d}}$	Bulgaria Czechia Denmark France Germany Greece	90.53 ± 8.10^{a} 147.00 ± 77.30^{b} 33.00 ± 54.66^{ac} 100.77 ± 6.97^{a} 169.92 ± 12.38^{b} 60.15 ± 3.10^{c}
Poland $42.25 \pm 11.27 ^{\circ}$ Portugal $75.00 \pm 34.57 ^{ac}$ Romania $18.00 \pm 44.63 ^{ac}$ Serbia $169.47 \pm 10.23 ^{b}$ Spain $238.40 \pm 9.44 ^{d}$	Bulgaria Czechia Denmark France Germany Greece Hungary	90.53 ± 8.10^{a} 147.00 ± 77.30^{b} 33.00 ± 54.66^{ac} 100.77 ± 6.97^{a} 169.92 ± 12.38^{b} 60.15 ± 3.10^{c} 45.06 ± 13.75^{c}
Portugal $75.00 \pm 34.57 \text{ac}$ Romania $18.00 \pm 44.63 \text{ac}$ Serbia $169.47 \pm 10.23 \text{b}$ Spain $238.40 \pm 9.44 \text{d}$	Bulgaria Czechia Denmark France Germany Greece Hungary Ireland	90.53 ± 8.10^{a} 147.00 ± 77.30^{b} 33.00 ± 54.66^{ac} 100.77 ± 6.97^{a} 169.92 ± 12.38^{b} 60.15 ± 3.10^{c} 45.06 ± 13.75^{c} 66.64 ± 7.58^{c}
Romania 18.00 ± 44.63 acSerbia 169.47 ± 10.23 bSpain 238.40 ± 9.44 d	Bulgaria Czechia Denmark France Germany Greece Hungary Ireland Italy	90.53 \pm 8.10 ° 147.00 \pm 77.30 ° 33.00 \pm 54.66 ° 100.77 \pm 6.97 ° 169.92 \pm 12.38 ° 60.15 \pm 3.10 ° 45.06 \pm 13.75 ° 66.64 \pm 7.58 ° 79.15 \pm 6.80 °
Serbia $169.47 \pm 10.23^{\text{ b}}$ Spain $238.40 \pm 9.44^{\text{ d}}$	Bulgaria Czechia Denmark France Germany Greece Hungary Ireland Italy Netherlands	90.53 ± 8.10^{a} 147.00 ± 77.30^{b} 33.00 ± 54.66^{ac} 100.77 ± 6.97^{a} 169.92 ± 12.38^{b} 60.15 ± 3.10^{c} 45.06 ± 13.75^{c} 66.64 ± 7.58^{c} 79.15 ± 6.80^{c} 86.76 ± 15.46^{ac}
Spain 238.40 ± 9.44 ^d	Bulgaria Czechia Denmark France Germany Greece Hungary Ireland Italy Netherlands Poland	90.53 ± 8.10^{a} 147.00 ± 77.30^{b} 33.00 ± 54.66^{ac} 100.77 ± 6.97^{a} 169.92 ± 12.38^{b} 60.15 ± 3.10^{c} 45.06 ± 13.75^{c} 66.64 ± 7.58^{c} 79.15 ± 6.80^{c} 86.76 ± 15.46^{ac} 42.25 ± 11.27^{c}
	Bulgaria Czechia Denmark France Germany Greece Hungary Ireland Italy Netherlands Poland Portugal	90.53 ± 8.10^{a} 147.00 ± 77.30^{b} 33.00 ± 54.66^{ac} 100.77 ± 6.97^{a} 169.92 ± 12.38^{b} 60.15 ± 3.10^{c} 45.06 ± 13.75^{c} 66.64 ± 7.58^{c} 79.15 ± 6.80^{c} 86.76 ± 15.46^{ac} 42.25 ± 11.27^{c} 75.00 ± 34.57^{ac}
	Bulgaria Czechia Denmark France Germany Greece Hungary Ireland Italy Netherlands Poland Portugal Romania	90.53 ± 8.10^{a} 147.00 ± 77.30^{b} 33.00 ± 54.66^{ac} 100.77 ± 6.97^{a} 169.92 ± 12.38^{b} 60.15 ± 3.10^{c} 45.06 ± 13.75^{c} 66.64 ± 7.58^{c} 79.15 ± 6.80^{c} 86.76 ± 15.46^{ac} 42.25 ± 11.27^{c} 75.00 ± 34.57^{ac} 18.00 ± 44.63^{ac}
Ukraine $32.03 \pm 13.47^{\circ}$	Bulgaria Czechia Denmark France Germany Greece Hungary Ireland Italy Netherlands Poland Portugal Romania Serbia	90.53 ± 8.10^{a} 147.00 ± 77.30^{b} 33.00 ± 54.66^{ac} 100.77 ± 6.97^{a} 169.92 ± 12.38^{b} 60.15 ± 3.10^{c} 45.06 ± 13.75^{c} 66.64 ± 7.58^{c} 79.15 ± 6.80^{c} 86.76 ± 15.46^{ac} 42.25 ± 11.27^{c} 75.00 ± 34.57^{ac} 18.00 ± 44.63^{ac} 169.47 ± 10.23^{b}
United Kingdom 30.00 ± 54.66 ac	Bulgaria Czechia Denmark France Germany Greece Hungary Ireland Italy Netherlands Poland Portugal Romania Serbia	90.53 ± 8.10^{a} 147.00 ± 77.30^{b} 33.00 ± 54.66^{ac} 100.77 ± 6.97^{a} 169.92 ± 12.38^{b} 60.15 ± 3.10^{c} 45.06 ± 13.75^{c} 66.64 ± 7.58^{c} 79.15 ± 6.80^{c} 86.76 ± 15.46^{ac} 42.25 ± 11.27^{c} 75.00 ± 34.57^{ac} 18.00 ± 44.63^{ac} 169.47 ± 10.23^{b}

Legend. In the same column, means with different superscripts differ significantly (a, b, c, d, e, f P<0.05).