



Automotive & Powersports **THE FACTS ABOUT YOUR INTAKE & AIR**

ISO 5011 Tested to Make Sure You Maximize Airflow While Still Protecting Your Engine.

Part Number: 75-5126, 75-5126D
Description: Performance Intake Kit & Filter
Vehicle Applications: 2018 Ford F-150 3.0L Powerstroke Diesel

Test Date: 2018/11/29
Test Report #: 689-01R,
01CE, 02R, 02CE, 03R, 03CE

TECHNICAL BULLETIN

There is a lot of misinformation in the marketplace. S&B publishes specific test results for each of our intakes & filters as shown below, so you can make an informed decision. Remember, improving your airflow is only good if your engine is still protected. That's the S&B difference!

FACT: S&B Flows 20.41% Better than Stock

In tests performed in our climate controlled laboratory according to the ISO5011 Test Standard, S&B's intake kit (and filter) had significantly lower restriction (better airflow) than the stock intake system. See the graph on the next page.

WATCH OUT: Some competitors over state airflow.

If they state that their filter will flow, let's say 1000 cfm, without stating at what restriction level, they are trying to mislead you.

Description	% S&B Flowed Better than Stock (tested @ 300 cfm)
S&B Intake w/ Cleanable Filter	20.41%
S&B Intake w/ Dry Filter	16.67%

TEST CONDITIONS

Barometric Pressure	28.98
Airflow Setpoint	300 cfm
Relative Humidity	50
Temperature	70.2F
Type of Dust	ISO Coarse
Batch #	13885C
Dust Feed Rate (grams/minute)	8.5

FACT: S&B Protects Your Engine

S&B tests at the highest rated CFM for your vehicle when determining the efficiency rate (amount of dust the filter stops), so that we can be sure that your engine will be protected.

Description	Efficiency Rate (tested @ 300 cfm)
Stock	99.66%
S&B Intake w/ Cleanable Filter	99.29%
S&B Intake w/ Dry Filter	99.54%

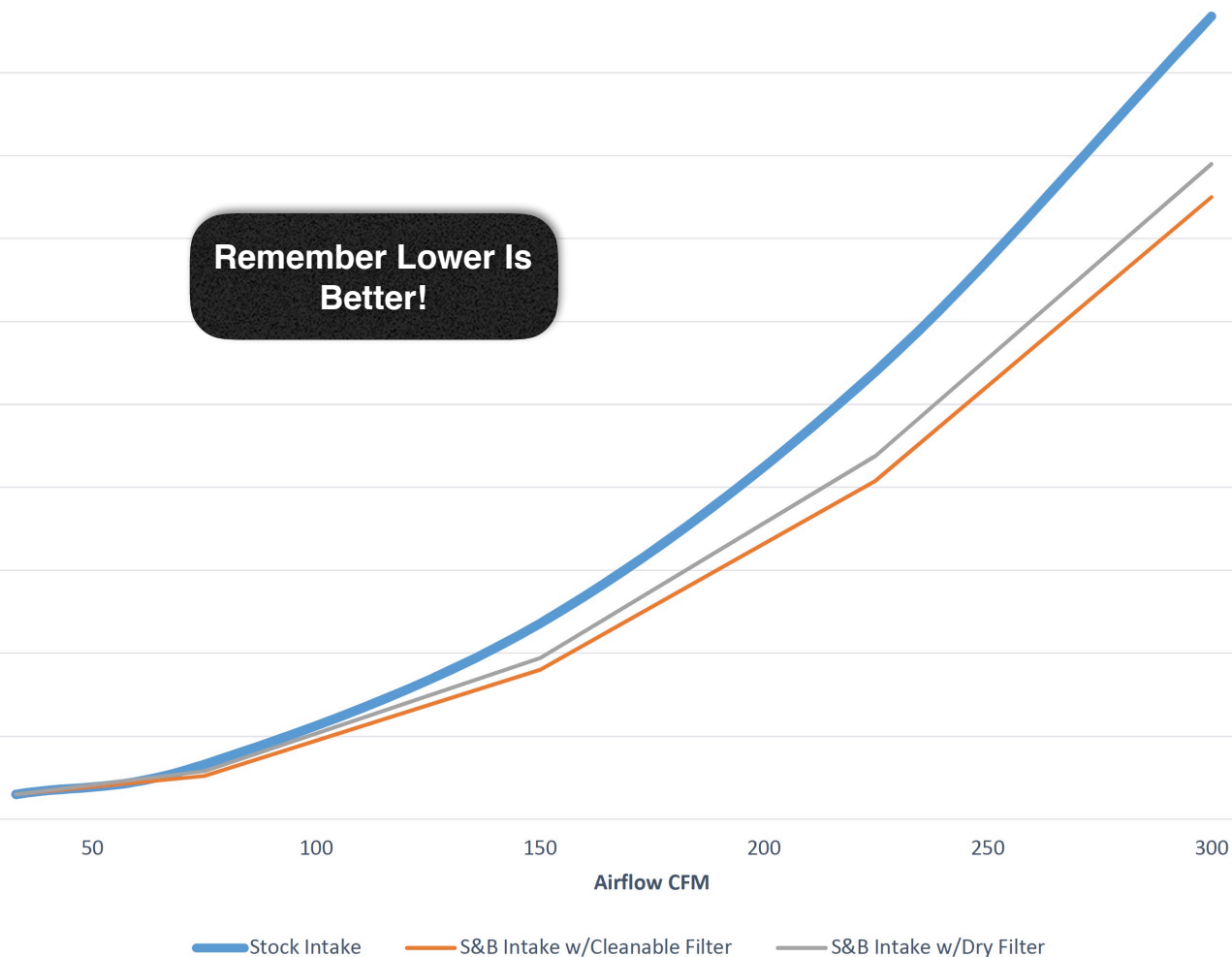
WATCH OUT: Some Competitors Use the Same Efficiency Rates for Multiple Part Numbers.

Many send one filter off to a lab to be tested at a low cfm and then publish this efficiency rate for all of their part numbers.



Air Flow vs Restriction

Remember Lower Is Better!



Air Filter Restriction Test Report

Test #: 689
Sample #: 1
Filter #:
Housing #:
Date Code: 2018.11.29

Operator: WD
Report Date: 11/29/2018
Filter Mfg.: MOTORCRAFT
Housing Mfg.: MOTORCRAFT



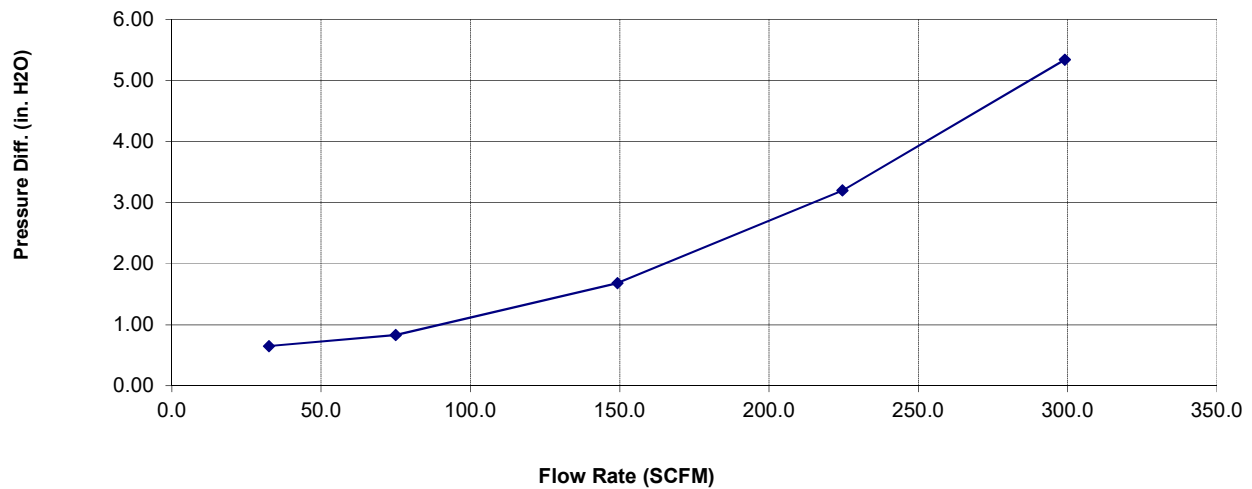
Test Description: 2018 STOCK F150 POWERSTROKE 3.0 INTAKE KIT, RESTRICTION, CAPACITY AND EFFICIENCY TEST

Test Conditions

Barometric Pressure: 28.69199 in. Hg
Air Flow Type: SCFM
Number of Pleats:
Flow Direction:

Relative Humidity: 44 %
Temperature: 72 deg. F
Pleat Depth: in.

Air Flow Curve



Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
33	0.65
75	0.83
149	1.68
225	3.20
299	5.34

Air Filter Restriction Test Report

Test #: 689
Sample #: 2
Filter #: KF-1058
Housing #: 75-5126
Date Code: 2018.11.29

Operator: WD
Report Date: 11/29/2018
Filter Mfg.: S&B FILTERS
Housing Mfg.: S&B FILTERS



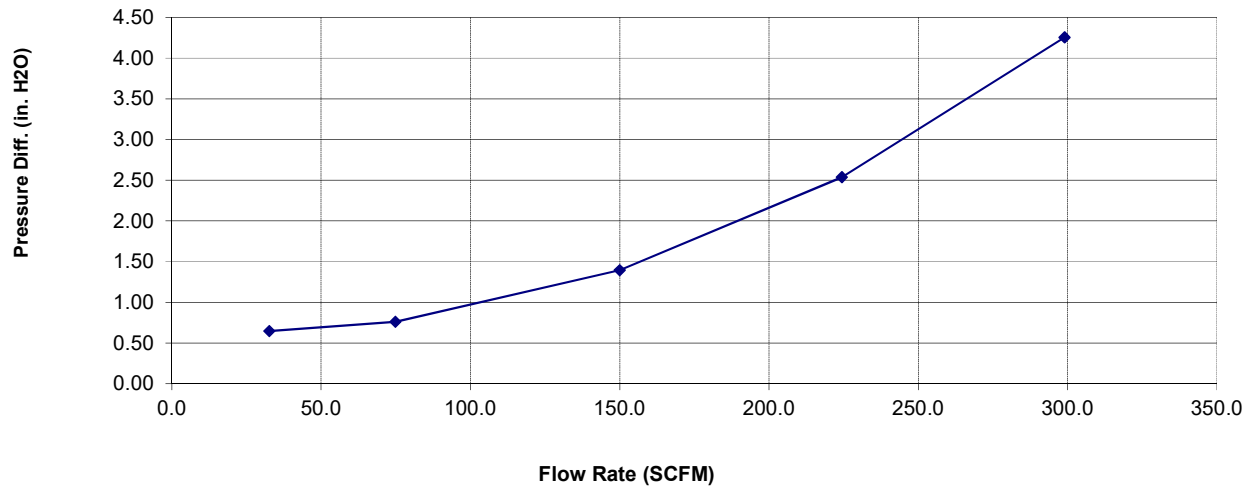
Test Description: 75-5126 PRODUCTION INTAKE KIT, KF-1058 OILED FILTER, RESTRICTION, CAPACITY & EFFICIENCY TEST

Test Conditions

Barometric Pressure: 28.64333 in. Hg
Air Flow Type: SCFM
Number of Pleats:
Flow Direction:

Relative Humidity: 47 %
Temperature: 71 deg. F
Pleat Depth: in.

Air Flow Curve



Air Flow Curve Data

Flow Rate	Differential Pressure
33	0.65
75	0.76
150	1.40
224	2.54
299	4.25

Air Filter Restriction Test Report

Test #: 689
Sample #: 3
Filter #: KF-1058
Housing #: 75-5126
Date Code: 2018.11.29

Operator: WD
Report Date: 11/29/2018
Filter Mfg.: S&B FILTERS
Housing Mfg.: S&B FILTERS



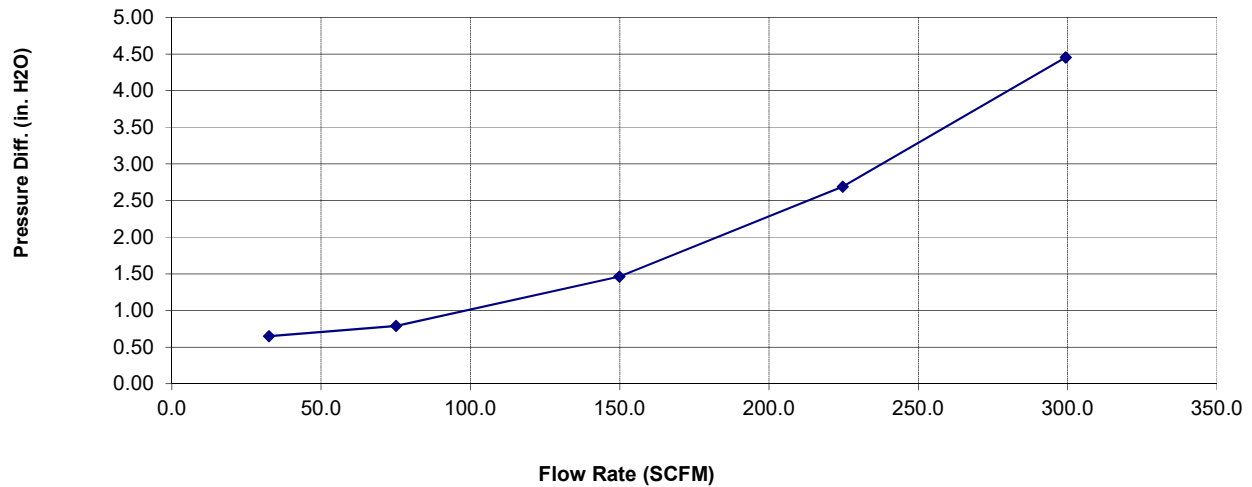
Test Description: 75-5126 PRODUCTION INTAKE KIT, KF-1058D DRY FILTER, RESTRICTION, CAPACITY & EFFICIENCY TEST

Test Conditions

Barometric Pressure: 28.66681 in. Hg
Air Flow Type: SCFM
Number of Pleats:
Flow Direction:

Relative Humidity: 44 %
Temperature: 72 deg. F
Pleat Depth: in.

Air Flow Curve



Air Flow Curve Data

Flow Rate	Differential Pressure
33	0.65
75	0.79
150	1.47
225	2.69
299	4.45

Air Filter Full Life Efficiency Test Report

Test #: 689
Sample #: 1
Filter #: FA1883
Housing #: JL3Z-9600-C
Date Code: 2018.11.29

Operator: WD
Report Date: 12/6/2018
Filter Mfg.: MOTORCRAFT
Housing Mfg.: MOTORCRAFT



Test Description: 2018 STOCK F150 POWERSTROKE 3.0 INTAKE KIT, RESTRICTION, CAPACITY AND EFFICIENCY TEST

Test Conditions

Barometric Pressure:	33.565 in. Hg	Relative Humidity:	46 %
Air Flow Setpoint:	300 SCFM	Type of Dust:	A4 COARSE
Test Procedure:	ISO-5011	Batch #:	13885C
Air Flow Type:	SCFM	Temperature:	71 deg. F
Test Endpoint:	10 in. H2O	Initial Add Rate:	NaN g/min
Number of Pleats:		Accumulative Add Rate:	8.5 g/min
Flow Direction:		Pleat Depth:	in.

Test Results

Initial Delta P 5.32 in. H2O

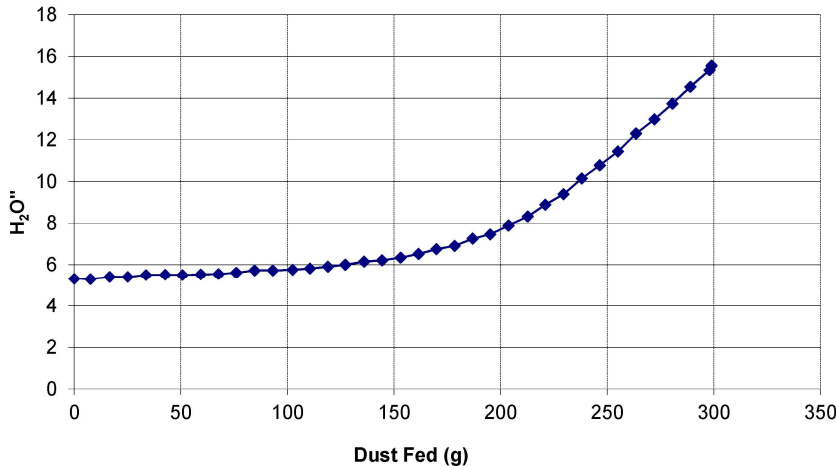
Accumulative Capacity: 297.40 g
Test Time: 35.15 min

	Initial		Accumulative	
		Blanket		Blanket
Start			3573.90	586.40
End			3871.30	587.41
Gain			297.40	1.01
Efficiency			99.66%	

☒ Standard Restriction

☐ Pressure Differential

Dust Loading Curve



Dust Loading Curve Data

Dust Fed (g)	Pressure ("H2O)
0	5.323
7.591	5.299
16.61	5.411
25.194	5.407
33.695	5.508
42.718	5.52
50.73	5.508
59.377	5.526
67.642	5.553
76.012	5.623
84.641	5.728
93.161	5.724
102.405	5.763
110.548	5.824
118.992	5.919
127.187	6.011
135.953	6.159
144.271	6.228
153.103	6.362
161.462	6.529
169.926	6.76
178.423	6.925
186.804	7.269
195.162	7.483
203.661	7.898
212.669	8.327
220.927	8.902
229.521	9.406
238.032	10.153
246.396	10.779
254.929	11.446
263.453	12.306
272.129	12.986
280.562	13.744
289.026	14.55
297.97	15.356
298.999	15.569

Air Filter Full Life Efficiency Test Report

Test #: 689
 Sample #: 2
 Filter #: KF-1058
 Housing #: 75-5126
 Date Code: 2018.11.29

Operator: WD
 Report Date: 12/6/2018
 Filter Mfg.: S&B FILTERS
 Housing Mfg.: S&B FILTERS



Test Description: 75-5126 PRODUCTION INTAKE KIT, KF-1058 OILED FILTER, RESTRICTION, CAPACITY & EFFICIENCY TEST

Test Conditions

Barometric Pressure:	33.303 in. Hg	Relative Humidity:	48 %
Air Flow Setpoint:	3000 SCFM	Type of Dust:	A4 COARSE
Test Procedure:	ISO-5011	Batch #:	13885C
Air Flow Type:	SCFM	Temperature:	71 deg. F
Test Endpoint:	10 in. H2O	Initial Add Rate:	NaN g/min
Number of Pleats:		Accumulative Add Rate:	8.5 g/min
Flow Direction:		Pleat Depth:	in.

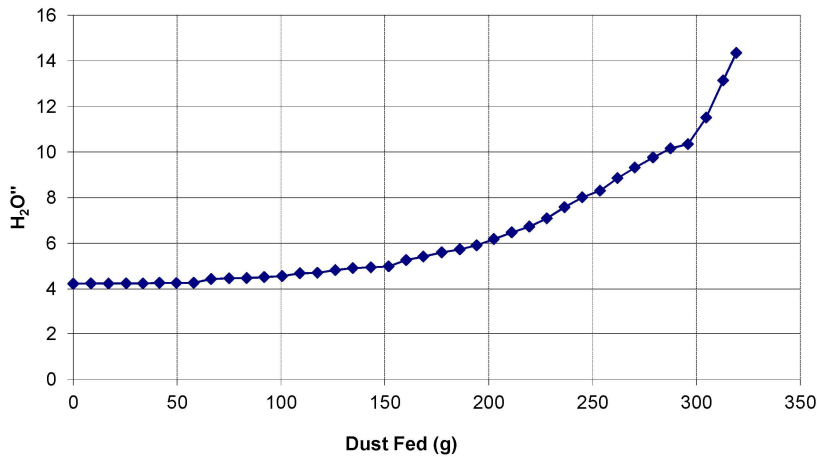
Test Results

Initial Delta P 4.24 in. H2O
Accumulative Capacity: 316.10 g
Test Time: 37.73 min

	Initial		Accumulative	
		Blanket		Blanket
Start			6145.80	587.41
End			6461.90	589.67
Gain			316.10	2.26
Efficiency			99.29%	

- ☒ Standard Restriction
☐ Pressure Differential

Dust Loading Curve



Dust Loading Curve Data

Dust Fed (g)	Pressure (in. H2O)
0	4.233
8.475	4.253
16.937	4.234
25.523	4.247
33.49	4.238
41.516	4.268
49.609	4.262
57.902	4.269
66.362	4.439
75.088	4.474
83.465	4.477
91.881	4.52
100.51	4.568
109.041	4.69
117.508	4.711
126.13	4.833
134.536	4.914
143.231	4.951
151.786	5
160.222	5.27
168.529	5.421
177.426	5.612
186.026	5.735
194.173	5.912
202.396	6.19
211.092	6.483
219.507	6.732
227.994	7.1
236.442	7.589
244.973	8.018
253.537	8.318
262.003	8.865
270.333	9.317
279.081	9.771
287.441	10.161
295.925	10.349
304.709	11.527
312.874	13.139
319.177	14.35

Air Filter Full Life Efficiency Test Report

Test #: 689
 Sample #: 3
 Filter #: KF-1058
 Housing #: 75-5126
 Date Code: 2018.11.29

Operator: WD
 Report Date: 12/6/2018
 Filter Mfg.: S&B FILTERS
 Housing Mfg.: S&B FILTERS



Test Description: 75-5126 PRODUCTION INTAKE KIT, KF-1058D DRY FILTER, RESTRICTION, CAPACITY & EFFICIENCY TEST

Test Conditions

Barometric Pressure:	35.389 in. Hg	Relative Humidity:	45 %
Air Flow Setpoint:	300 SCFM	Type of Dust:	A4 COARSE
Test Procedure:	ISO-5011	Batch #:	13885C
Air Flow Type:	SCFM	Temperature:	72 deg. F
Test Endpoint:	10 in. H2O	Initial Add Rate:	NaN g/min
Number of Pleats:		Accumulative Add Rate:	8.5 g/min
Flow Direction:		Pleat Depth:	in.

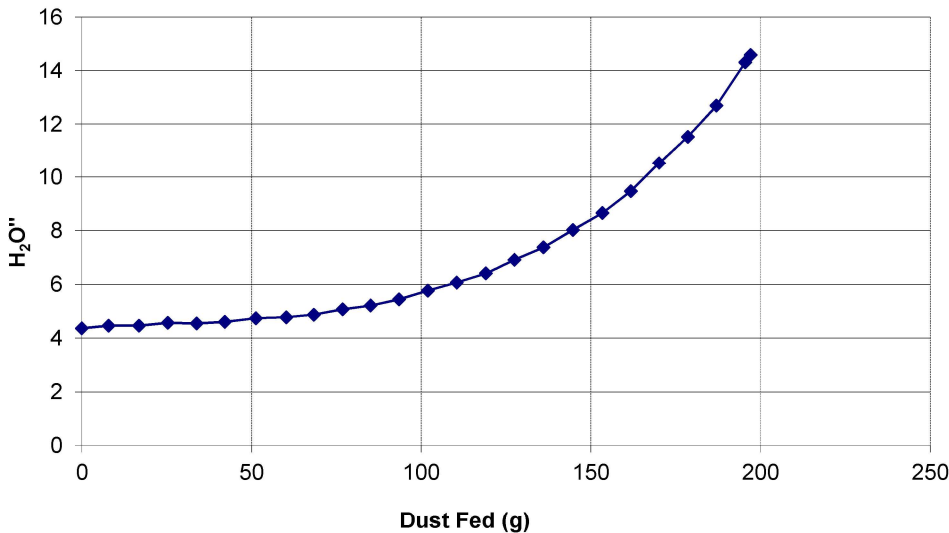
Test Results

Initial Delta P 4.37 in. H2O **Accumulative Capacity:** 198.10 g
Test Time: 23.20 min

	Initial		Accumulative	
		Blanket		Blanket
Start			6096.00	583.66
End			6294.10	584.57
Gain			198.10	0.91
Efficiency			99.54%	

- ☒ Standard Restriction
☐ Pressure Differential

Dust Loading Curve



Dust Loading Curve Data

Dust Fed (g)	Pressure ("H2O)
0	4.369
7.874	4.459
16.753	4.465
25.301	4.569
33.776	4.554
42.148	4.607
51.309	4.744
60.281	4.783
68.351	4.872
76.837	5.076
85.027	5.211
93.52	5.44
101.943	5.764
110.525	6.07
119.066	6.412
127.453	6.923
135.978	7.376
144.76	8.027
153.407	8.664
161.723	9.476
170.073	10.54
178.602	11.537
186.975	12.699
195.467	14.324
197.044	14.591





