

left side in the anterior dorsals have more nearly retained their normal direction. Most of the left diapophyses have apparently been shortened to some extent by pressure and toward the posterior end of the series they are bent downward and distorted. Those of the right side do not appear to have been much affected beyond being thrust upward; in the anterior dorsals their distal ends are seen above the neural spines in a left lateral aspect of the specimen as shown in Figure 6, ns.

In passing backward in the series the diapophyses appear to decrease slightly in length and size generally. These processes are broad at the base, narrow slightly outward, are vertically compressed, and strengthened beneath at midbreadth by a lamina of bone which runs outward toward the distal end of the process, and ends below in the postero-lateral portion of the neural arch. Three right diapophyses viz., those of the fourth, fifth, and sixth vertebrae, appear to be nearly true in shape, and give the following approximate measurements: basal breadth, 95 mm.; distal breadth, 70 mm.; length, 140 mm.

A deep cavity is present in the lateral faces of the centra above their midheight and anterior to the midlength.

The facet for the articulation of the head of the ribs is placed, for the first few ribs at least, on the neural arch near its anterior border. It is very plainly seen in the first three dorsals as shown in Figure 7, at *.

The neural spines increase gradually in length backward in the series, those of the anterior dorsals being less upright than those that follow. Approximately the distance from the top of the spines to the upper surface of the diapophyses proximally in the eleven dorsal vertebrae is as given in the accompanying table of measurements.

Measurements of Dorsal Vertebrae of Type.

Vertebrae.	Length (antero-posterior) of centrum at midheight.	Distance from top of neural spine to mid-length of centrum below.	Distance from top of neural spine to upper surface of base of diapophysis.
	Mm.	Mm.	Mm.
First.....	93	276	106
Second.....	97	278	108
Third.....	100	288	115
Fourth.....	102	290	115
Fifth.....	...	315	120
Sixth.....	...	...	127
Seventh.....	...	...	136
Eighth.....	...	...	140
Ninth.....	...	295	145
Tenth.....	134	362	155
Eleventh.....	150	368	160

The neural spines increase in fore and aft diameter distally. Above their midheight a rugosely surfaced marginal extension of the bone forward, upward, and backward is developed for the attachment of

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